



# Price List

LTM 017 wef 05.06.2021

LV Motors | Alternators | DC Motors



**SMARTOR**

Industry 4.0 ready smart motor



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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 1) ELECTRICAL FEATURES

| Sr. No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cash Extras in % of ALP or absolute value in INR whichever is Lower |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1.1    | <b>VOLTAGE</b><br>Base Voltage 415V/50Hz and 460V/60Hz<br>Other than above voltage (Dual Voltage is not available for 80 frame in FLP enclosure.)<br>Dual voltage: 220Δ/380Y or 380Δ/660Y & (1:√3 ratio)<br>Dual voltage: with ratio 1:2 Eg. 220/440(On Enquiry)<br>Triple voltage: (220/380/440) (On Enquiry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No Extras<br>5%<br>5%<br>5%<br>5%                                   |
| 1.2    | <b>FREQUENCY</b><br>Base Frequency of 50Hz or 60Hz<br>50/60 Hz motors for export                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Extras<br>No Extras                                              |
| 1.3    | <b>VARIABLE VOLTAGE/VARIABLE FREQUENCY OPERATED MOTORS:</b><br><b>Vacuum Pressure Impregnation Treatment(VPI)</b><br>(Also known as Power House Treatment)<br>63-250<br>280 & above<br><br>For 690V motors - 160 - 280 Frame and above in addition to VPI charges<br>For 690V motors - 315 & above Frame and above in addition to VPI charges<br>A) Variable Torque Operation - Standard frame sizes suitable for following specifications:<br>Variable torque operation, Type of application: pump/fan/blower<br>Load torque speed curve: parabolic. Speed range=10% to 100%<br>Harmonic contents < 5% & temperature rise limited to Class F rise<br><br>B) Constant Torque Operation - Standard frame sizes suitable for following specifications:<br>Speed range 50% to 100%, Temperature rise limited to Class F rise<br>Typical applications-Printing, Packaging, Paper industry or as per customer requirement<br>Frame size logic Double of kW rating<br>E.g. 11kW 4 pole Motor 11kW X 2 = 22kW.<br>Hence frame size is 180L.<br><b>For 315 &amp; Above to make motors suitable for VFD application, insulated bearing is must. Kindly refer cash extras for the same.</b> | 5%<br>No Extras<br><br>5%                                           |
| 1.4    | 9 LEAD / 12 LEADS (Frame ND 90 to 250)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5%                                                                  |
| 1.5    | AMBIENT TEMPERATURE -30 TO +65 C<br>For frame size contact nearest branch office                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | List price as per selected frame                                    |
| 1.6    | <b>NON STANDARD RV/RA FOR SLIPRING MOTORS (PI take prior confirmation for RV/RA)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7.5%                                                                |

1) All % (percentage) figures are to be loaded on list price

2) All Rs. Figures to be added on net price

3) Inspection charges are subject to GST

4) For any Non-std features / Accessories not explicitly covered in this price list, please contact to nearest branch office.

## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2) MECHANICAL FEATURES

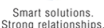
| Sr. No | Description                                                                                                                                                                                                                                                                                                                     | Cash Extras in % of ALP or absolute value in INR whichever is Lower                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 2.1    | <b>MOUNTING</b><br>All types of mounting other than B3 (Foot) for all types of motors<br>Extra loading on Foot mounted ALP Frames<br>63 to 160<br>180 to 450<br>for 400 only B3, B35 & V1 is possible to offer<br>For 450/500 only B3 & B35 is possible to offer<br>Please refer catalogue baseline or contact CG branch office | 3%<br>5%<br>5%<br>5%                                                                          |
| 2.2    | <b>FORCED COOLING ARRANGEMENT * (ONLY SAFE AREA MOTORS)</b><br><b>NOT APPLICABLE FOR 2 POLE MOTORS</b><br>ND 160 / 180<br>ND 200 / 225<br>ND 250<br>ND 280<br>ND 315 S/M/L<br>ND 355 / NG355<br>ND 400 / NG400 / ND450 / ND500                                                                                                  | Rs 7000/-<br>Rs 16500/-<br>Rs 24000/-<br>Rs 29000/-<br>Rs 32000/-<br>Rs 39000/-<br>Rs 52000/- |
| 2.3    | <b>SPECIAL FIXING DIMENSIONS OTHER THAN IS 1231/2223 / IEC 60072.</b><br>To be offered for TEFC SCR / SR motors for frame 160 and above.<br>(Shall be offered with fabricated stator body).<br>Please refer to CG branch office for concurrence                                                                                 | 20 % ALP<br>Extra 4 weeks delivery over STD delivery time                                     |
| 2.4    | <b>Fabricated stator body but fixing dimensions as per IS for frame 160 &amp; above (ND frames only)</b>                                                                                                                                                                                                                        | 20%<br>(Delivery 4 weeks extra to STD)                                                        |
| 2.5    | <b>DOUBLE TERMINAL BOX FOR SLIPRING MOTORS</b><br>Frames 315, 355, 400 & 450 STD TEFC                                                                                                                                                                                                                                           | Rs. 8000/-                                                                                    |
| 2.6    | <b>FLYING LEADS ( 1 meter &amp; 6 leads), W/O T. Box</b><br>Frames ND 80 to ND 355<br>For extra TB(Loose)                                                                                                                                                                                                                       | 5%<br>3%                                                                                      |

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LTM 017 / 05-06-2021

## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

## 2) MECHANICAL FEATURES

| Sr No   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-------|--------------------|--------------------|-------|----------------------|--------------------|-------|--------------------|---------------------|-------|---------------------|--------------------|-------|-------|-------|---------------------|---------------------|-------|-----------------------|-----------------------|---------|---------------------|---------------------|---------|---------------------|----------------|---------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 2.7     | <b>SPECIAL SHAFT EXTENSION</b><br>Standard double shaft extension (DE/NDE identical)<br>Non standard single / double shaft with diameter and length less than standard dimensions (This feature is not in FLP SR and SPDP SR enclosures)<br>For D or E more than IS, please refer to division<br>Taper single shaft extension taper 1:10<br>Taper double shaft extension taper 1:10<br>For taper other than above,<br>Special shaft material EN 24 grade<br><br>Stainless steel shaft (Upto& including 180 frames)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5%<br>10%<br><br>5%<br>10%<br>Refer to CG Sales office<br>10% extra price & extra delivery of 4 weeks.<br>15% extra price & extra delivery of 4 weeks. |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| 2.8     | Degree of protection as per IEC 60034-5<br>IP 66, IP65, IP56 for TEFC SCR motors in frame 63-500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5%                                                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| 2.9     | <b>CUSTOM SIZE FABRICATED TERMINAL BOX</b><br>One size higher terminal box can be supplied for TEFC SCR motors as per table below<br><br><table border="1"> <thead> <tr> <th>Frame</th><th>with STD TB</th><th>One size higher T Box</th></tr> </thead> <tbody> <tr> <td>ND160</td><td>2R x 3C x 35 sq mm</td><td>2R x 3C x 95 sq mm</td></tr> <tr> <td>ND180</td><td>2R x 3.5C x 35 sq mm</td><td>2R x 3C x 95 sq mm</td></tr> <tr> <td>ND200</td><td>2R x 3C x 95 sq mm</td><td>2R x 3C x 150 sq mm</td></tr> <tr> <td>ND225</td><td rowspan="3">2R x 3C x 150 sq mm</td><td rowspan="3">2R x 3C x 240sq mm</td></tr> <tr> <td>ND250</td></tr> <tr> <td>ND280</td></tr> <tr> <td>ND315</td><td>2R x 3C x 185 sq mm</td><td>2R x 3C x 240 sq mm</td></tr> <tr> <td>ND355</td><td>2R x 3.5C x 240 sq mm</td><td>2R x 3.5C x 300 sq mm</td></tr> <tr> <td>ND355LX</td><td>2R x 3C x 240 sq mm</td><td>2R x 3C x 300 sq mm</td></tr> <tr> <td>ND400LX</td><td>2R x 3C x 400 sq mm</td><td rowspan="2">Not Applicable</td></tr> <tr> <td>NG400LX</td><td>4R x 3C x 400 sq mm</td></tr> </tbody> </table> Refer DPA for 2 size & 3 size higher cable size | Frame                                                                                                                                                  | with STD TB | One size higher T Box | ND160 | 2R x 3C x 35 sq mm | 2R x 3C x 95 sq mm | ND180 | 2R x 3.5C x 35 sq mm | 2R x 3C x 95 sq mm | ND200 | 2R x 3C x 95 sq mm | 2R x 3C x 150 sq mm | ND225 | 2R x 3C x 150 sq mm | 2R x 3C x 240sq mm | ND250 | ND280 | ND315 | 2R x 3C x 185 sq mm | 2R x 3C x 240 sq mm | ND355 | 2R x 3.5C x 240 sq mm | 2R x 3.5C x 300 sq mm | ND355LX | 2R x 3C x 240 sq mm | 2R x 3C x 300 sq mm | ND400LX | 2R x 3C x 400 sq mm | Not Applicable | NG400LX | 4R x 3C x 400 sq mm | One size higher to be loaded 3%<br><br><br><br><br><br><br><br><br><br>for two size higher - 5%<br>For three size higher - 8% |
| Frame   | with STD TB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | One size higher T Box                                                                                                                                  |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND160   | 2R x 3C x 35 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2R x 3C x 95 sq mm                                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND180   | 2R x 3.5C x 35 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2R x 3C x 95 sq mm                                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND200   | 2R x 3C x 95 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2R x 3C x 150 sq mm                                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND225   | 2R x 3C x 150 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2R x 3C x 240sq mm                                                                                                                                     |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND250   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND280   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND315   | 2R x 3C x 185 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2R x 3C x 240 sq mm                                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND355   | 2R x 3.5C x 240 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2R x 3.5C x 300 sq mm                                                                                                                                  |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND355LX | 2R x 3C x 240 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2R x 3C x 300 sq mm                                                                                                                                    |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| ND400LX | 2R x 3C x 400 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not Applicable                                                                                                                                         |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| NG400LX | 4R x 3C x 400 sq mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                        |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |
| 2.10    | <b>FAULT LEVEL : 50 kA for 0.25 sec. with certificate</b><br>Please refer to division for higher fault level (160 & above frame)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rs. 50000/-                                                                                                                                            |             |                       |       |                    |                    |       |                      |                    |       |                    |                     |       |                     |                    |       |       |       |                     |                     |       |                       |                       |         |                     |                     |         |                     |                |         |                     |                                                                                                                               |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2) MECHANICAL FEATURES

| Sr No | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                     |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|------------|--------|------------|------|-------|-----------|------|------|------|-------|----------|------|------|------|-------|---------------|------|------|------|-------|------------|------|------|------|-------|---------|------|------|------|-------|--------------------|------|------|------|-------|---------|----|------|------|-------|------|------|------|--|
| 2.11  | <b>SPECIAL BEARINGS</b><br>Online greasing arrangement for frame 160-225 (Our standard bearings are greased for life.) (To be agreed for projects only if Sealed bearings are not acceptable)<br>Regreasable bearings are provided as a standard for Frame 250 and above.<br><br>C4 clearance bearing in frame 160-225 ( 2 Pole Only)<br><br>*For FLP Motors regreasable bearing can be provided from E160 & onwards. Angular contact for 160-450 frames. Please refer to division.<br>Bearing Suitable for 40Deg C                                                                                                                                                                                                                                                                                                                                                                                                 | <br>Rs. 1200/- per motor and 4 weeks extra delivery<br><br><br>Rs. 3500/- per motor and 10 weeks extra delivery<br><br>VPI Charges +10% |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.13  | <b>INSULATED BEARINGS AT NON DRIVING END (NDE)</b><br>Can be provided for 160-225 frame at 20000/-<br><b>NDE BEARING Selection</b> <table><tr><th>Type</th><th>Price in Rs.</th><th>Frame</th><th>2 pole</th><th>4Pole &amp; up</th></tr><tr><td>6314</td><td>30000</td><td>ND250M/MX</td><td>6314</td><td>6314</td></tr><tr><td>6315</td><td>30000</td><td>ND280S/M</td><td>6314</td><td>6318</td></tr><tr><td>6316</td><td>30000</td><td>ND315S/M/L/LX</td><td>6315</td><td>6319</td></tr><tr><td>6318</td><td>30000</td><td>ND355S/M/L</td><td>6316</td><td>6319</td></tr><tr><td>6319</td><td>30200</td><td>ND355LX</td><td>6316</td><td>6322</td></tr><tr><td>6322</td><td>38500</td><td>E355/ND400LX/NG355</td><td>6318</td><td>6322</td></tr><tr><td>6324</td><td>55000</td><td>ND450LX</td><td>NA</td><td>6326</td></tr><tr><td>6326</td><td>86500</td><td>E400</td><td>6318</td><td>6324</td></tr></table> | Type                                                                                                                                    | Price in Rs. | Frame      | 2 pole | 4Pole & up | 6314 | 30000 | ND250M/MX | 6314 | 6314 | 6315 | 30000 | ND280S/M | 6314 | 6318 | 6316 | 30000 | ND315S/M/L/LX | 6315 | 6319 | 6318 | 30000 | ND355S/M/L | 6316 | 6319 | 6319 | 30200 | ND355LX | 6316 | 6322 | 6322 | 38500 | E355/ND400LX/NG355 | 6318 | 6322 | 6324 | 55000 | ND450LX | NA | 6326 | 6326 | 86500 | E400 | 6318 | 6324 |  |
| Type  | Price in Rs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Frame                                                                                                                                   | 2 pole       | 4Pole & up |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6314  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND250M/MX                                                                                                                               | 6314         | 6314       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6315  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND280S/M                                                                                                                                | 6314         | 6318       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6316  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND315S/M/L/LX                                                                                                                           | 6315         | 6319       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6318  | 30000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND355S/M/L                                                                                                                              | 6316         | 6319       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6319  | 30200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND355LX                                                                                                                                 | 6316         | 6322       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6322  | 38500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E355/ND400LX/NG355                                                                                                                      | 6318         | 6322       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6324  | 55000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ND450LX                                                                                                                                 | NA           | 6326       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 6326  | 86500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | E400                                                                                                                                    | 6318         | 6324       |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.14  | <b>ROLLER BEARING ON DE SIDE only for V Belt application (Not applicable up to 132 frame )</b><br>For 160 to 225 frames online greasing charges to be added extra over roller bearing cash extras.<br>FRAMES 160 TO 180<br>FRAMES 200 TO 250<br>FRAMES 280 TO 315<br>FRAME 355<br>FRAMES 400 TO 500<br><br>* For FLP motors roller bearings shall be provided from E160 and above frames.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <br><br><br><br><br><br><br><br><br>Rs. 2000/-<br>Rs. 3500/-<br>Rs. 5000/-<br>Rs. 6000/-<br>Rs. 9000/-                                  |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |
| 2.15  | <b>NOISE LEVEL (As per IS 12065.)</b><br>< = 85 dB(A) @ 1 m at no load for 4 pole motors and above<br>< = 90 dB (A) @ 1 m at no load for all 2 pole motors.<br>For lower noise level please refer to division                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No extra<br>3%<br>3%                                                                                                                    |              |            |        |            |      |       |           |      |      |      |       |          |      |      |      |       |               |      |      |      |       |            |      |      |      |       |         |      |      |      |       |                    |      |      |      |       |         |    |      |      |       |      |      |      |  |

1) All % (percentage) figures are to be loaded on list price

2) All Rs. Figures to be added on net price

3) Inspection charges are subject to GST

4) For any Non-std features / Accessories not explicitly covered in this price list, please contact to nearest branch office.

## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2) MECHANICAL FEATURES

| Sr. No            | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cash Extras in % of ALP or absolute value in INR whichever is Lower |                    |                 |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------|-----------------|---------------------|--|--|--|-------------------|--|--|---------------|--|-------|------------|-----------------|--------------------|-----------------|---------------------|----|----|----|-------|----|-------|-----|----|----|-------|----|-------|-----|----|----|-------|----|-------|-----|----|-----|-------|-----|-------|-----|----|-----|-------|-----|-------|-------|-------|------------|-------------------|---------------|---|----|---|---|------|---|----|----|----|------|---|-----|----|----|------|---|-----|----|----|------|---|-----|----|-----|-------|---|------|----|-----|-------|---|------|----|-----|-------|---|-----|----|-----|-------|---|-----|----|-----|-------|-----|
| 2.16              | <b>Tacho (encoder) mounting arrangement for frame 160- aboveTEFC SCR Motors</b><br>For other frames refer to division                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5% OR Rs 7500 whichever is lower                                    |                    |                 |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 2.17              | <b>BRAKE MOTORS</b><br>Brake Mounting Arrangement if brakes in CG scope (Only brake mounting arrangement will not be provided)<br><b>In addition Refer the following Brake kit prices to be added in respective type of Motor Net Price</b> <table border="1"><thead><tr><th colspan="6">Flameproof Motors</th></tr><tr><th></th><th colspan="3">Gas Group IIA/IIB</th><th colspan="2">Gas Group IIC</th></tr><tr><th>Frame</th><th>Brake size</th><th>Brake Torque NM</th><th>Brake &amp; kit prices</th><th>Brake Torque NM</th><th>Brake kit Net price</th></tr></thead><tbody><tr><td>90</td><td>10</td><td>16</td><td>16000</td><td>16</td><td>20000</td></tr><tr><td>100</td><td>12</td><td>32</td><td>21000</td><td>32</td><td>23750</td></tr><tr><td>112</td><td>14</td><td>60</td><td>23000</td><td>60</td><td>26250</td></tr><tr><td>132</td><td>16</td><td>100</td><td>30000</td><td>100</td><td>33250</td></tr><tr><td>160</td><td>16</td><td>100</td><td>31000</td><td>100</td><td>37000</td></tr></tbody></table><br><b>Crane Duty Brake Motor</b><br>Please add Brake kit Price to S4 duty IE2 Prices after discount. <table border="1"><thead><tr><th>Sr No</th><th>Frame</th><th>Brake Size</th><th>Brake Torque (Nm)</th><th>Brake Kit ALP</th></tr></thead><tbody><tr><td>1</td><td>80</td><td>8</td><td>8</td><td>4800</td></tr><tr><td>2</td><td>90</td><td>10</td><td>16</td><td>6600</td></tr><tr><td>3</td><td>100</td><td>12</td><td>32</td><td>8575</td></tr><tr><td>4</td><td>112</td><td>14</td><td>60</td><td>9800</td></tr><tr><td>5</td><td>132</td><td>16</td><td>100</td><td>13475</td></tr><tr><td>6</td><td>160M</td><td>18</td><td>150</td><td>19475</td></tr><tr><td>7</td><td>160L</td><td>20</td><td>260</td><td>25200</td></tr><tr><td>8</td><td>180</td><td>25</td><td>400</td><td>35150</td></tr><tr><td>9</td><td>200</td><td>25</td><td>400</td><td>44220</td></tr></tbody></table> | Flameproof Motors                                                   |                    |                 |                     |  |  |  | Gas Group IIA/IIB |  |  | Gas Group IIC |  | Frame | Brake size | Brake Torque NM | Brake & kit prices | Brake Torque NM | Brake kit Net price | 90 | 10 | 16 | 16000 | 16 | 20000 | 100 | 12 | 32 | 21000 | 32 | 23750 | 112 | 14 | 60 | 23000 | 60 | 26250 | 132 | 16 | 100 | 30000 | 100 | 33250 | 160 | 16 | 100 | 31000 | 100 | 37000 | Sr No | Frame | Brake Size | Brake Torque (Nm) | Brake Kit ALP | 1 | 80 | 8 | 8 | 4800 | 2 | 90 | 10 | 16 | 6600 | 3 | 100 | 12 | 32 | 8575 | 4 | 112 | 14 | 60 | 9800 | 5 | 132 | 16 | 100 | 13475 | 6 | 160M | 18 | 150 | 19475 | 7 | 160L | 20 | 260 | 25200 | 8 | 180 | 25 | 400 | 35150 | 9 | 200 | 25 | 400 | 44220 | 10% |
| Flameproof Motors |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                    |                 |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
|                   | Gas Group IIA/IIB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                    | Gas Group IIC   |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| Frame             | Brake size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Brake Torque NM                                                     | Brake & kit prices | Brake Torque NM | Brake kit Net price |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 90                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16                                                                  | 16000              | 16              | 20000               |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 100               | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 32                                                                  | 21000              | 32              | 23750               |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 112               | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 60                                                                  | 23000              | 60              | 26250               |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 132               | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100                                                                 | 30000              | 100             | 33250               |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 160               | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100                                                                 | 31000              | 100             | 37000               |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| Sr No             | Frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Brake Size                                                          | Brake Torque (Nm)  | Brake Kit ALP   |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 1                 | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8                                                                   | 8                  | 4800            |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 2                 | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10                                                                  | 16                 | 6600            |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 3                 | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12                                                                  | 32                 | 8575            |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 4                 | 112                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 14                                                                  | 60                 | 9800            |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 5                 | 132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 16                                                                  | 100                | 13475           |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 6                 | 160M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 18                                                                  | 150                | 19475           |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 7                 | 160L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 20                                                                  | 260                | 25200           |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 8                 | 180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25                                                                  | 400                | 35150           |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |
| 9                 | 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 25                                                                  | 400                | 44220           |                     |  |  |  |                   |  |  |               |  |       |            |                 |                    |                 |                     |    |    |    |       |    |       |     |    |    |       |    |       |     |    |    |       |    |       |     |    |     |       |     |       |     |    |     |       |     |       |       |       |            |                   |               |   |    |   |   |      |   |    |    |    |      |   |     |    |    |      |   |     |    |    |      |   |     |    |     |       |   |      |    |     |       |   |      |    |     |       |   |     |    |     |       |   |     |    |     |       |     |

- 1) All % (percentage) figures are to be loaded on list price
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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2) MECHANICAL FEATURES

| Sr. No                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cash Extras in % of ALP or absolute value in INR whichever is Lower                    |          |           |       |   |     |     |     |   |     |     |     |                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------|-----------|-------|---|-----|-----|-----|---|-----|-----|-----|---------------------------|
| 2.18                                | <b>ANTI CORROSIVE TREATMENT/PAINT</b><br>For TEFC SR, SPDP-SCR/SR: Paint Shade - 631 as per IS:5<br>For Apex Series - IE2 motors : Paint Shade - RAL 7034<br>For Apex Series - IE3 motors : Paint Shade - RAL 5021<br>Anti Corrosive Paint (With Above mentioned paint shade)<br>Paint Shade other than above mentioned shades<br>For Additional thickness upto 130 microns<br>C3-M/C4-M/C5-M painting for standard paint shade (Applicable for min order val of 30 Lacks. Not Applicable for IIC)<br>C3-M/C4-M/C5-M painting for non standard paint shade (Applicable for min order val of 50 Lacks. Not Applicable for IIC)<br>For any other painting shade, material or procedure, please refer to nearest Branch Office<br>Confirmation for minimum order quantity to be taken from division<br><b>Fan cover will be black powder coated for NG (up to 132 Frame) /GD series motors</b> | No Extra Charges<br><br>3%<br>5% subject to max 15,000/-<br>5%<br><br>12.5%<br><br>20% |          |           |       |   |     |     |     |   |     |     |     |                           |
| 2.19                                | <b>JACKING OUT HOLES ON MOTOR FEET</b><br>Jacking out holes on motor feet are provided as a default for 315 & Above<br>Jacking out holes on motor feet for 225, 250 & 280 Frames<br>Soft Foot (Upto 200 Microns)<br>Consult div for lower than 200 Microns                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No Extra<br>2%<br>5%                                                                   |          |           |       |   |     |     |     |   |     |     |     |                           |
| 2.20                                | <b>VIBRATION LEVEL</b><br>Vibration level (mm/sec.) shall be as per normal class as per IEC690034-14<br>Limits of max vibration magnitude in velocity (mm/sec) for vibration grade is as mentioned in table.<br><table border="1"><tr><th>Shaft Height H mm \ Vibration Grade</th><th>56≤H≤132</th><th>132≤H≤280</th><th>H&gt;280</th></tr><tr><th>A</th><td>1.6</td><td>2.2</td><td>2.8</td></tr><tr><th>B</th><td>0.7</td><td>1.1</td><td>1.8</td></tr></table><br>For any other value please refer to division                                                                                                                                                                                                                                                                                                                                                                           | Shaft Height H mm \ Vibration Grade                                                    | 56≤H≤132 | 132≤H≤280 | H>280 | A | 1.6 | 2.2 | 2.8 | B | 0.7 | 1.1 | 1.8 | No Charges – A<br>20% – B |
| Shaft Height H mm \ Vibration Grade | 56≤H≤132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 132≤H≤280                                                                              | H>280    |           |       |   |     |     |     |   |     |     |     |                           |
| A                                   | 1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.2                                                                                    | 2.8      |           |       |   |     |     |     |   |     |     |     |                           |
| B                                   | 0.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.1                                                                                    | 1.8      |           |       |   |     |     |     |   |     |     |     |                           |
| 2.21                                | <b>STAINLESS STEEL HARDWARE –</b><br>Upto Frame 225<br>Frame 250and above<br>*Not available for aluminum motors (GD frame) & FLP Motors<br><b>Brass Studs</b><br>Frame 63 to 225<br>250 to 355<br>400 & Above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Rs. 1500/-<br>Rs. 2500/-<br><br><br>Rs 5500/-<br>Rs 11000/-<br>Refer Division          |          |           |       |   |     |     |     |   |     |     |     |                           |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 2) MECHANICAL FEATURES

| Sr. No | Description                                                                                                                                                                                                                                                                                                          | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                   |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 2.22   | <b>TOTALLY ENCLOSED MOTORS WITHOUT FAN :</b><br>Deration factor = 0.5                                                                                                                                                                                                                                                | ALP as per selected frame                                                                             |
| 2.23   | <b>AIR STREAM RATED MOTOR :</b> Totally enclosed motor cooled because of fan Directly mounted on motor shaft. Output as per TEFC motors                                                                                                                                                                              | ALP as per TEFC frame                                                                                 |
| 2.24   | <b>MS Canopy</b> ( For motors with terminal box on RHS / LHS ONLY for SAFE AREA & FLP)<br>Frames 80 to 132<br>Frames 160 to 200<br>Frames 225 to 250<br>Frames 280 to 315<br>Frames 355<br>FRP Canopy (with terminal box on RHS / LHS ONLY) - For Safe Area only                                                     | Rs. 1500/-<br>Rs. 2000/-<br>Rs. 3500/-<br>Rs. 6000/-<br>Rs. 8000/-<br>7.50% sub to max of Rs. 18000/- |
| 2.25   | <b>ENCLOSURE</b><br>Increased safety type 'e' (Ex e "b") motors as per IEC 60079-7 with anticorrosive paint<br>Non sparking type 'N' (Ex e "c") motors as per IEC60079-15 with anti corrosive paint.<br>(From 80 to 355 CI frames only)<br>(Price basis-For selected frame size, highest kW ALP to be taken as base) | 15%<br>7.50%                                                                                          |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 3) HAZARDOUS AREA MOTORS THAT CAN BE OFFERED:

| 3.1 FOR TYPE 'E' & TYPE 'N' MOTORS |                  |             |                  |                       |
|------------------------------------|------------------|-------------|------------------|-----------------------|
| ZONE                               | GAS GROUP        | TEMP. CLASS | FRAME            | Certification Options |
| 2                                  | IIC              | T1,T2,T3    | ND 90 TO ND 355L | PESO                  |
| 22                                 | IIIC(Dust Group) | T1,T2,T3    | ND 90 TO ND 355L | KARANDIKAR TEST       |

| 3.2 FOR FLAMEPROOF MOTORS-INDIAN APPROVALS |           |               |                                                                                                                                                           |                      |
|--------------------------------------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| ZONE                                       | GAS GROUP | TEMP. CLASS   | FRAME                                                                                                                                                     | Certificates options |
| 1                                          | IIA, IIB  | T1, T2 T3, T4 | E80-E400LX                                                                                                                                                | PESO                 |
|                                            | I         |               | E90-E315L                                                                                                                                                 | DGMS (Coal Mine)     |
|                                            | IIA, IIB  |               | E80-E355LX                                                                                                                                                | ERTL (Oil Mine)      |
|                                            | IIC       |               | Refer to division/ Nearest Branch Office<br>Frames Covered E80 to E315M # & E355LX<br>Terminal box will be on TOP only<br># E315M TEMP CLASS UPTO T3 ONLY |                      |

| 3.3 FOR FLAMEPROOF MOTORS - WITH BASEEFA/ATEXIECEX APPROVALS |          |             |                                                                                                 |
|--------------------------------------------------------------|----------|-------------|-------------------------------------------------------------------------------------------------|
| 1                                                            | IIA, IIB | T1,T2,T3,T4 | 10% EXTRA OVER STANDARD FLAMEPROOF MOTORS FRAMES COVERED ARE E 80 TO E315L. E400LX (Only ATEX)  |
| 1                                                            | IIC      | T1,T2,T3,T4 | 10% EXTRA OVER STANDARD FLAMEPROOF MOTORS FRAMES COVERED ARE E 80 TO E315M & E355LX (Only ATEX) |

For IECX Certification in IIA,IIB& IIC refer division

### 4) PRICING POLICY FOR SPECIAL MOTORS:

|     |                                                                                                            |                                    |
|-----|------------------------------------------------------------------------------------------------------------|------------------------------------|
| 4.1 | Smart Motor Kit (280 to ND355 Frame)                                                                       | Rs 25000                           |
|     | Smart motor kit with PT100(280 to ND355 Frame)<br>(Price only for kit, Monthly subscription charges extra) | Rs 30000                           |
| 4.2 | Dust Proof Motor                                                                                           | 1.4 times of ALP (No discount)     |
| 4.3 | Roller Table Motors available (4,6,8,10 & 12 Poles)                                                        | Refer division for Frame Selection |
| 4.4 | For CI Body with Circular Fins (Available in NR160,R250,NR315L,NR355L Frames)                              | 20% Extra over IE2                 |
| 4.5 | For Fabricated body with Circular Fins (Available in 132,180,200,225,280 Frames)                           | 35% Extra Over IE2                 |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 5) ACCESSORIES

| Sr .No | Description of EXTRA FEATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| 5.1    | <b>SPACE HEATERS -</b><br>Space heaters are terminated in auxiliary terminal box on top of main terminal box (Except for all FLP motors & TEFC motors in 160-180 for which heater terminals are terminated in main terminal box.)<br>(Space heaters are provided as a standard feature for standard DDI TEFC SCR motors in frame 280 and above.)<br><b>For Non FLP Motors</b><br>For frames 160 to 180 TEFC<br>For frames 200 to 250 TEFC<br>For frames 280 to 500 (TEFC)<br><b>FLP (ATEX) /type "e" /type "n"</b><br><b>(Add 2% extra in case separate auxiliary terminal Box required.)</b><br>For frames 160 to 180 FLP<br>For frames 200 to 250 FLP<br>For frames 280 to 315 FLP<br>For frame 355 to 400 terminal box charges for separate Aux box<br>No Space heaters will be provided for frames below 132<br>Space heater for ND132 frame (TEFC) | Rs. 2500/-<br>Rs. 4500/-<br>Nil<br><br>Rs. 8700 / -<br>Rs. 9500/-<br>Rs. 12500/-<br>Rs. 3000/-<br><br>Rs. 2000/- |
| 5.2    | <b>THERMISTORS (Without relays ) 80 frames above(80 frame in FLP not possible)</b><br>varieties : PTC -110, PTC-130, PTC-150<br>3 nos per motor Frame 80- 450<br>6 nos (PTC 130-3 nos& PTC 150- 3 nos) per motor 160-450<br><b>For FLP type "e" Type "n" &amp; "ne"</b><br>PTC 130 ° C - 3 nos<br>PTC 150 ° C - 3 nos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rs. 2600/-<br>Rs. 4700/-<br><br>Rs. 5000/-<br>Rs. 5900/-                                                         |
| 5.3    | <b>RTD's 160 frames and above</b> (Not applicable for FLP motors)<br>3 Wire Simplex RTD PT100- 3 nos.<br>3 Wire Simplex RTD PT100- 6 nos.<br>6 Wire Duplex RTD PT100- 3 nos.<br>160 to 200 - Extra Price for TB due to RTD arrangement<br>6 Wire Duplex RTD PT100- 6 nos. (315 frame & above only). Applicable for Type e & Type n also.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rs. 7500/-<br>Rs. 12500/-<br>RS.12500/-<br>6%<br>RS.24500/-                                                      |
| 5.3A   | Vibration Probe Mounting Arrangement, 18X25mm (Probe not in CG Scope) Spm Holes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rs 5500/-                                                                                                        |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 5) ACCESSORIES

| Sr. No | Description                                                                                                                                                                                                                                                                                                                          | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                                                                                                                         |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.4    | <b>BEARING TEMPERATURE DETECTOR (2 Nos.) ROD Type (Duplex) without wiring</b><br>(not possible for FLP motor)<br>Frames 160 to 225<br>250 to ND355<br>NG355 & Above<br>Ex'e' & Ex'n' motors BTD<br>BTD Termination in Separate Terminal Box<br>For slip ring motors BTD will be on DE side only                                      | Rs.8000/-<br>Rs.9000/-<br>No Extra<br>Rs. 30000/-<br>Rs.5000/-                                                                                                                                                                              |
| 5.5    | <b>Cable sealing box</b> for group I for frame 160-200 flameproof motors<br>For 225-315 frame flameproof motors 1 No. S. Box is provided as standard<br>For frame 90-132 (not available in frame 80)<br>EPDM Gasket                                                                                                                  | Rs. 2000/-<br>Rs. 2200/-<br>Rs. 1700/-<br>Rs. 1500/-                                                                                                                                                                                        |
| 5.6    | Additional nameplates                                                                                                                                                                                                                                                                                                                | Rs. 500/-                                                                                                                                                                                                                                   |
| 5.7    | Direction arrow plate                                                                                                                                                                                                                                                                                                                | Rs. 600/-                                                                                                                                                                                                                                   |
| 5.8    | <b>FLP Plug and socket</b> arrangement : (SAFEX Make)<br>30 Amps, 600 volts<br>110 Amps, 600 volts<br>150 Amps, 600 volts<br>Plug and Socket Arrangement for Safe Area                                                                                                                                                               | Rs. 19800/-<br>Rs. 23100/-<br>Rs. 28600/-<br>Refer Division                                                                                                                                                                                 |
| 5.9    | <b>DOUBLE COMPRESSION GLANDS (Per run of Cable) For single Run / Conical Gland / FLP &amp; Type "E", Type "N"</b><br>Upto frame 160<br>180 to 225<br>250 to 355<br>Space heater gland and thermistors glands<br># Compression glands suitable for gas IIA, IIB and IIC<br>Metallic sealing plug per run<br>EIL Approved Cable Glands | <b>STD / CONICAL / FLP &amp; Type "E" Type "N"</b><br><br>Rs. 1500 / Rs 2250 / Rs 4500<br>Rs. 2500 / Rs 3700 / Rs 9000<br>Rs. 3200 / Rs 4800 / Rs 21000<br>Rs. 1100 / NA / Rs 1800<br><br>50% of gland Price<br>Same as rates of FLP Glands |
| 5.10   | <b>FINISHING AND PACKING</b><br>Motor to be delivered in unpacked condition<br>Motor to be delivered with only red oxide primer coat<br>Seaworthy/export packing case for home market (Without fumigation certificate)<br>Regular wooden packing case (where CG STD is Steel Frame)                                                  | No reduction<br>No reduction<br>7.50%<br><br>5%                                                                                                                                                                                             |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 6) SPECIAL MOTORS

| Sr. No | Description                                                                                                                                                                                                                   | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                        |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 6.1    | <b>INSULATIONS CLASS</b><br>Class 'H' insulation For frame 63-500                                                                                                                                                             | 10%                                                                                                                        |
| 6.2    | <b>MULTI SPEED MOTORS (Only for Safe Area)</b><br>Single tapped winding type with 2/4, 4/8, 4/6, 6/8 P Motors<br>Dual speed motors with separate winding or polarity above 8 pole<br>Dual speed motor with more than 2 speeds | 10% additional price for higher polarity<br>17.5% of higher price for among polarity<br><br>25% on ALP of highest polarity |
| 6.3    | <b>Motor with higher polarity</b><br>Extra Loading on 8P Motor ALP- (Higher Frame in that KW)<br>10 pole<br>12 pole<br>16 pole                                                                                                | 10%<br>15%<br>20%                                                                                                          |
| 6.4    | <b>CRANE DUTY MOTORS :</b><br>Intermittent Duty (other than S1)                                                                                                                                                               | For rating/ frames not covered in price lists please load 5% extra over identified frame/rating ALP                        |
| 6.5    | <b>EPOXY GEL COAT(63 to 500 frames)</b>                                                                                                                                                                                       | 2%                                                                                                                         |
| 6.6    | <b>CLEAN FLOW CONSTRUCTION</b> for TEFC SCR textile motors Frames 90 to 132                                                                                                                                                   | Refer AC Textile Motors page given separately                                                                              |

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## SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

### 7) TESTING CHARGES

#### INSPECTION/TEST WITNESSING BY CUSTOMER/ CONSULTANT

Inspection arrangements and third party inspection charges are in customer's scope. In addition following would be inspection charges for witnessing tests:

| Sr. No | Description                                                                                                                                                                                                                                                           | Cash Extras in % of ALP or absolute value in INR whichever is Lower                                                                  |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 7.1    | Inspection as per CG STD QAP<br>Inspection as per Customer format of QAP<br><b>Routine testing per motor:</b><br>Frames 63 to 160<br>Frames 180 to 250<br>Frames 280 to 500<br>Additional No Load running over routine testing                                        | As per Net Charges given below<br>5% + Net Charges as given below<br><br>Rs. 2500/-<br>Rs. 3500/-<br>Rs. 4500/-<br>Rs 1000 Per Motor |
| 7.2    | <b>Type testing per motor</b><br>Frames 63 to 160<br>Frames 180 to 250<br>Frames 280 to 315<br>Frame 355<br>Frame 400/ 500(part load testing shall be done depending on test capacity)<br>100% Dimension check (all Qty in a Lot of similar frame) will be Chargeable | Rs. 5500/-<br>Rs. 8250/-<br>Rs. 12650<br>Rs. 15400/-<br>Rs. 27500/-<br>25% of Type test charge per Motor                             |
| 7.3    | <b>FLP Pressure test per motor</b><br>Frame 80 to 160<br>Frame 180 to 400                                                                                                                                                                                             | Rs. 3300/-<br>Rs. 8800/-                                                                                                             |
| 7.4    | IInd numeral IP55 test per motor<br>(Prior confirmation from Division required)                                                                                                                                                                                       | Rs. 5000/-                                                                                                                           |
| 7.5    | <b>Testing with inverter drive</b><br>(with ERTL/ KRANDIKAR witness) Customer to arrange power analyzer along with drive<br>(Without ERTL/KARANDIKAR witness)                                                                                                         | Rs. 1,75,000/- per motor<br><br>Rs. 55,000/- per motor                                                                               |
| 7.6    | <b>DOCUMENTS CHARGES (technical/ commercial)</b><br>documents for approval/ submission<br>Marine motor documentation: please refer such enquiries to division.                                                                                                        | Rs. 1500/- per rating<br>Rs. 14000/- per rating                                                                                      |

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**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED**

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034



**SUPER PREMIUM EFFICIENCY - IE4**

| OUTPUT<br>Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|------------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW               | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.37             | 0.50  | -                 | -          | -                 | -          | PC80              | 19545      |
| 0.55             | 0.75  | PC80              | 17355      | PC80              | 18450      | PC80              | 20105      |
| 0.75             | 1.00  | PC80              | 17945      | PC80              | 18685      | PC90S             | 22620      |
| 1.10             | 1.50  | PC80              | 19575      | PC90S             | 23060      | PC90L             | 24805      |
| 1.50             | 2.00  | PC90S             | 22440      | PC90L             | 28030      | PC100L            | 38020      |
| 2.20             | 3.00  | PC90L             | 28795      | PC100L            | 33350      | PC112M            | 40150      |
| 3.70             | 5.00  | PC100L            | 36865      | PC112M            | 42275      | PC132S            | 59155      |
| 5.50             | 7.50  | PC132S            | 58270      | PC132S            | 58655      | PC132M            | 72695      |
| 7.50             | 10.00 | PC132S            | 60340      | PC132M            | 69325      | PC160M            | 108380     |
| 9.30             | 12.50 | PC160M            | 101640     | PC160M            | 108115     | PC160L            | 118105     |
| 11               | 15    | PC160M            | 105365     | PC160M            | 111835     | PC160L            | 133390     |
| 15               | 20    | PC160M            | 123425     | PC160L            | 136345     | PC180L            | 174245     |
| 18.5             | 25    | PC160L            | 158605     | PC180M            | 174450     | PC200L            | 248830     |
| 22               | 30    | PC180M            | 175990     | PC180L            | 191065     | PC200L            | 273665     |
| 30               | 40    | PC200L            | 261630     | PC200L            | 263610     | PC225M            | 382805     |
| 37               | 50    | PC200L            | 317680     | PC225S            | 308220     | PC250M            | 514775     |
| 45               | 60    | PC225M            | 408820     | PC225M            | 373615     | PC280S            | 616590     |
| 55               | 75    | PC250M            | 550310     | PC250M            | 513415     | PC280M            | 708055     |
| 75               | 100   | PC280S            | 660845     | PC280S            | 600770     | PC315S            | 812585     |
| 90               | 120   | PC280M            | 762270     | PC280M            | 699775     | PC315M            | 1016805    |
| 110              | 150   | PC315S            | 962885     | PC315S            | 847590     | PC315M            | 1133815    |
| 132              | 180   | PC315M            | 1183390    | PC315M            | 993155     | PC315L            | 1323605    |
| 160              | 215   | PC315L            | 1296320    | PC315L            | 1256145    | PC315L            | 1378175    |
| 180              | 240   | PC315L            | 1364635    | PC315L            | 1357810    | PC355L            | 1683645    |
| 200              | 270   | PC315L            | 1513425    | PC315L            | 1414540    | PC355L            | 1767780    |
| 225              | 300   | PC355L            | 1601520    | PC355L            | 1746260    | PC355L            | 1843135    |
| 250              | 335   | PC355L            | 1695205    | PC355L            | 1781175    | PC355L            | 1935310    |
| 275              | 370   | PC355L            | 1794685    | PC355L            | 1886860    | PC355L            | 2187775    |
| 315              | 425   | PC355L            | 1837845    | PC355L            | 2025300    | PC355L            | 2708310    |

Standard Paint Shade : RAL1036 (Pearl Gold)

For other ratings please contact nearest CG Office

8 Pole motors are available on request

Temperature rise with VFD in same frame shall be limited to class F ; If customer required with rise B , please refer to nearest branch

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034



#### PREMIUM EFFICIENCY - IE3 (Cast Iron Series)

| OUTPUT<br>Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|------------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW               | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37             | 0.5   | -                 | -          | -                 | -          | NG80              | 15020      | ND90S            | 18330      |
| 0.55             | 0.75  | NG80              | 13365      | NG80              | 13840      | NG80              | 15435      | ND90L            | 20045      |
| 0.75             | 1.00  | NG80              | 13810      | NG80              | 14045      | NG90S             | 17415      | ND100L           | 24630      |
| 1.10             | 1.50  | NG80              | 15050      | NG90S             | 17295      | NG90L             | 19040      | ND100L           | 29950      |
| 1.50             | 2.00  | NG90S             | 17235      | NG90L             | 21050      | NG100L            | 29240      | ND112M           | 34710      |
| 2.20             | 3.00  | NG90L             | 22145      | NG100L            | 25070      | NG112M            | 30865      | ND132S           | 45945      |
| 3.70             | 5.00  | NG100L            | 28380      | NG112M            | 31755      | NG132S            | 45500      | ND160M           | 71515      |
| 5.50             | 7.50  | NG132S            | 44820      | NG132S            | 44050      | NG132M            | 55905      | -                | 109090     |
| 7.50             | 10.00 | NG132S            | 46385      | NG132M            | 52060      | ND160M            | 83370      | ND160L           | 113285     |
| 9.30             | 12.50 | ND160M            | 78165      | ND160M            | 81210      | ND160L            | 90850      | ND180M           | 147310     |
| 11.00            | 15.00 | ND160M            | 81035      | ND160M            | 84020      | ND160L            | 102645     | ND180L           | 155355     |
| 15               | 20    | ND160M            | 94955      | ND160L            | 102435     | ND180L            | 134040     | ND200L           | 218705     |
| 18.5             | 25    | ND160L            | 121975     | ND180M            | 131085     | ND200L            | 191390     | ND225S           | 280640     |
| 22.0             | 30    | ND180M            | 135370     | ND180L            | 143560     | ND200L            | 210515     | ND225M           | 337370     |
| 30               | 40    | ND200L            | 201235     | ND200L            | 198040     | ND225M            | 294445     | ND250M           | 455500     |
| 37               | 50    | ND200L            | 244365     | ND225S            | 231565     | ND250M            | 395990     | ND280S           | 594030     |
| 45               | 60    | ND225M            | 314490     | ND225M            | 280700     | ND280S            | 474305     | ND280M           | 638465     |
| 55               | 75    | ND250MX           | 423310     | ND250MX           | 385735     | ND280M            | 544660     | ND315S           | 696320     |
| 75               | 100   | ND280S            | 528670     | ND280S            | 469455     | ND315S            | 650110     | ND315M           | 864600     |
| 90               | 120   | ND280M            | 609845     | ND280M            | 546820     | ND315M            | 813445     | ND315L           | 1170735    |
| 110              | 150   | ND315S            | 770315     | ND315S            | 662290     | ND315M            | 907070     | ND315LX          | 1239410    |
| 125              | 170   | ND315M            | 903815     | ND315M            | 754465     | ND315LX           | 988660     | ND315LX          | 1361710    |
| 132              | 180   | ND315M            | 946740     | ND315M            | 776050     | ND315LX           | 1058870    | ND315LX          | 1435940    |
| 160              | 215   | ND315LX           | 1037055    | ND315LX           | 981535     | ND315LX           | 1102535    | ND355LX          | 1668360    |
| 180              | 240   | ND315LX           | 1091715    | ND315LX           | 1060970    | ND355LX           | 1346900    | ND355LX          | 1711700    |
| 200              | 270   | ND315LX           | 1210735    | ND315LX           | 1105315    | ND355LX           | 1414245    | ND355LX          | 1833675    |
| 225              | 300   | ND355LX*          | 1281210    | ND355LX           | 1364520    | ND355LX           | 1474490    | ND355LX          | 2605285    |
| 250              | 335   | ND355LX*          | 1356180    | ND355LX           | 1391805    | ND355LX           | 1548220    | -                | -          |
| 275              | 370   | ND355LX*          | 1435735    | ND355LX           | 1474405    | ND355LX           | 1750220    | -                | -          |
| 315              | 425   | ND355LX*          | 1470265    | ND355LX*          | 1582570    | ND355LX*          | 2166670    | -                | -          |
| 355              | 473   | -                 | -          | ND355LX*          | 1922630    | -                 | -          | -                | -          |
| 375              | 500   | -                 | -          | ND355LX*          | 2196940    | -                 | -          | -                | -          |

275KW/2Pole is suitable for 40 Deg C Amb/70 Deg C Temperature rise

Standard Paint Shade : RAL5021 (Water Blue) Epoxy

\*These are suitable to temperaturerise limited to class F

Temp rise with VFD in same frame shall be limited to class F .If cust need with rise B please refer nearest branch.

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED**

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034



**PREMIUM EFFICIENCY - IE3 (Aluminium Series)**

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.37          | 0.50  | GD71              | 10230      | GD71              | 10510      | GD80              | 14960      |
| 0.55          | 0.75  | GD71              | 13290      | GD80              | 13785      | GD80              | 15330      |
| 0.75          | 1.00  | GD80              | 13725      | GD80              | 13970      | GD90S             | 17280      |
| 1.10          | 1.50  | GD80              | 14990      | GD90S             | 17215      | GD90L             | 18950      |
| 1.50          | 2.00  | GD90S             | 17155      | GD90L             | 20955      | GD100L            | 29115      |
| 2.20          | 3.00  | GD90L             | 22040      | GD100L            | 24945      | GD112M            | 30755      |
| 3.00          | 4.00  | GD100L            | 26025      | GD112M            | 28620      | GD132S            | 45280      |
| 3.70          | 5.00  | GD100L            | 28250      | GD112M            | 31620      | GD132S            | 45280      |
| 4.00          | 5.50  | GD112M            | 34955      | GD112M            | 36380      | GD132S            | 48585      |
| 5.50          | 7.50  | GD132S            | 44630      | GD132S            | 43860      | GD132M            | 55665      |
| 7.50          | 10.00 | GD132S            | 46175      | GD132M            | 51830      | -                 | -          |
| 9.3*          | 12.50 | GD132M            | 69695      | GD132M            | 72015      | -                 | -          |

Standard Paint Shade : RAL5021 (Water Blue)

For other ratings please contact nearest CG Office

\* Ratings are with F class Temperature Rise

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED**

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034



**HIGH EFFICIENCY - IE2 (CAST IRON Series)**

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | -                 | -          | -                 | -          | ND80              | 13070      | ND90S            | 15905      |
| 0.55          | 0.75  | -                 | -          | ND80              | 12035      | ND80              | 13425      | ND90L            | 17415      |
| 0.75          | 1.00  | ND80              | 12035      | ND80              | 12210      | ND90S             | 15110      | ND100L           | 21405      |
| 1.10          | 1.50  | ND80              | 13070      | ND90S             | 15080      | ND90L             | 16585      | ND100L           | 26045      |
| 1.50          | 2.00  | ND90S             | 15020      | ND90L             | 18300      | ND100L            | 23860      | ND112M           | 30185      |
| 2.20          | 3.00  | ND90L             | 19275      | ND100L            | 21790      | ND112M            | 25395      | ND132S           | 39940      |
| 3.70          | 5.00  | ND100L            | 23920      | ND112M            | 27615      | ND132S            | 39555      | ND160M           | 62170      |
| 5.50          | 7.50  | ND112M            | 32315      | -                 | -          | -                 | -          | -                | -          |
| 5.50          | 7.50  | ND132S            | 40740      | ND132S            | 38345      | ND132M            | 48635      | ND160M           | 77695      |
| 7.50          | 10.00 | ND132S            | 44260      | ND132M            | 45290      | ND160M            | 74235      | ND160L           | 98505      |
| 9.30          | 12.50 | ND132M            | 64450      | ND132M            | 59895      | -                 | -          | ND180M           | 128095     |
| 9.30          | 12.50 | ND160M            | 74530      | ND160M            | 73200      | ND160L            | 80885      | -                | -          |
| 11            | 15    | ND160M            | 78670      | ND160M            | 75625      | ND160L            | 91350      | ND180L           | 135075     |
| 15            | 20    | ND160M            | 84550      | ND160L            | 91205      | ND180L            | 119315     | ND200L           | 190150     |
| 18.5          | 25    | ND160L            | 108645     | ND180M            | 116685     | ND200L            | 170340     | ND225S           | 244010     |
| 22            | 30    | ND180M            | 122035     | ND180L            | 127800     | ND200L            | 183440     | ND225M           | 293380     |
| 30            | 40    | ND200L            | 179180     | ND200L            | 176345     | ND225M            | 262165     | ND250M           | 396080     |
| 37            | 50    | ND200L            | 217555     | ND225S            | 206170     | ND250M            | 352505     | ND280S           | 516520     |
| 45            | 60    | ND225M            | 279960     | ND225M            | 249895     | ND280S            | 422245     | ND280M           | 555185     |
| 55            | 75    | ND250MX           | 376895     | ND250MX           | 343400     | ND280M            | 484915     | ND315S           | 605455     |
| 75            | 100   | ND280S            | 470665     | ND280S            | 417955     | ND315S            | 592230     | ND315M           | 751790     |
| 90            | 120   | ND280M            | 542945     | ND280M            | 486810     | ND315M            | 741015     | ND315L           | 1018045    |
| 110           | 150   | ND315S            | 701700     | ND315S            | 603315     | ND315M            | 826275     | ND315LX          | 1077735    |
| 125           | 170   | ND315M            | 823375     | ND315M            | 687270     | ND315LX           | 900655     | ND315LX          | 1184100    |
| 132           | 180   | ND315M            | 862430     | ND315M            | 706960     | ND315LX           | 964595     | ND315LX          | 1248635    |
| 150           | 201   | -                 | -          | ND315LX           | 785715     | -                 | -          | -                | -          |
| 160           | 215   | ND315LX           | 944700     | ND315LX           | 829440     | ND315LX           | 1004390    | ND355LX          | 1450725    |
| 180           | 240   | ND315LX           | 994545     | ND315LX           | 882175     | ND355LX           | 1163110    | ND355LX          | 1488415    |
| 200           | 270   | ND315LX           | 1102950    | ND315LX           | 1006870    | ND355LX           | 1191105    | ND355LX          | 1594485    |
| 225           | 300   | ND355LX*          | 1241925    | ND355LX           | 1158025    | ND355LX           | 1226875    | ND355LX          | 2265465    |
| 250           | 335   | ND355LX*          | 1271990    | ND355LX           | 1228710    | ND355LX           | 1311780    | -                | -          |
| 275           | 370   | ND355LX*          | 1307935    | ND355LX           | 1343145    | ND355LX*          | 1594395    | -                | -          |
| 315           | 425   | ND355LX*          | 1339360    | ND355LX*          | 1441675    | ND355LX*          | 1973715    | -                | -          |
| 355           | 473   | -                 | -          | ND355LX*          | 1751460    | -                 | -          | -                | -          |
| 375           | 500   | -                 | -          | ND355LX*          | 2001355    | -                 | -          | -                | -          |

\*These are suitable to temperature rise limited to class F  
Temp rise with VFD in same frame shall be limited to class F. If cust required with rise B please refer to nearest branch.  
For other ratings please contact nearest CG Office. Standard Paint Shade : RAL7034 (Yellow Grey)  
For MEPS-B2 Performance, 10% additional to above prices

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED**

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034



**HIGH EFFICIENCY - IE2 (Aluminium Series)**

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.18          | 0.25  | GD63              | 7635       | GD63              | 8160       | -                 | -          |
| 0.25          | 0.33  | GD63              | 7855       | GD71              | 8285       | -                 | -          |
| 0.37          | 0.50  | GD71              | 8935       | GD71              | 9150       | GD80              | 13015      |
| 0.55          | 0.75  | GD71              | 11590      | GD80              | 11965      | GD80M             | 13355      |
| 0.75          | 1.00  | GD80              | 11930      | GD80              | 12150      | GD90S             | 15025      |
| 1.10          | 1.50  | GD80              | 13015      | GD90S             | 14990      | GD90L             | 16505      |
| 1.50          | 2.00  | GD90S             | 14930      | GD90L             | 18205      | GD100L            | 23710      |
| 2.20          | 3.00  | GD90L             | 19165      | GD100L            | 21670      | GD112M            | 25255      |
| 3.70          | 5.00  | GD100L            | 23800      | GD112M            | 27445      | GD132S            | 39375      |
| 4.00          | 5.50  | GD112M            | 30385      | GD112M            | 31650      | GD132S            | 42250      |
| 5.50          | 7.50  | GD132S            | 40550      | GD132S            | 38170      | GD132M            | 48435      |
| 7.50          | 10.00 | GD132S            | 44045      | GD132M            | 45095      | GD132M*           | 77610      |
| 9.30          | 12.50 | GD132M*           | 60610      | GD132M*           | 62620      | -                 | -          |
| 11.00         | 15.00 | GD132M*           | 74025      | GD132M*           | 71150      | -                 | -          |

For other ratings please contact nearest CG Office

For MEPS-B2 Performance, 10% additional to above prices

Standard Paint Shade : RAL7034 (Yellow Grey)

\* Ratings are with F class Temperature Rise

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED**

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034


**SMART MOTOR -HIGHER OUTPUT - IE2**

| OUTPUT<br>Rating |     | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|------------------|-----|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW               | HP  | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 250              | 335 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 2277615    |
| 315              | 422 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 2360390    |
| 355              | 476 | NG355LX           | 1829330    | -                 | -          | NG355LX           | 2100655    | NG400LX          | 2505365    |
| 375              | 503 | NG355LX           | 1925615    | -                 | -          | ND400LX           | 2588140    | NG400LX          | 2629555    |
| 400              | 535 | NG355LX           | 2008420    | NG355LX           | 2070560    | NG400LX           | 2836645    | NG400LX          | 2836645    |
| 425              | 570 | NG355LX           | 2091255    | ND400LX           | 2422560    | -                 | -          | -                | -          |
| 450              | 600 | NG400LX           | 2546755    | NG400LX           | 2588140    | NG400LX           | 2919445    | ND450LX          | 4120335    |
| 500              | 670 | NG400LX           | 2629555    | NG400LX           | 2670975    | NG400LX           | 3043640    | ND450LX          | 4451610    |
| 560              | 750 | NG400LX           | 2712390    | NG400LX           | 2836645    | NG400LX           | 3126505    | ND450LX          | On Request |
| 630              | 850 | NG400LX           | 3002250    | NG400LX           | 3002250    | ND450LX           | 3954665    | ND500LX*         | On Request |
| 710#             | 950 | -                 | -          | ND450LX           | On Request | ND500LX*          | 4220550    | -                | -          |
| 710#             | 950 | -                 | -          | ND500LX*          | On Request | -                 | -          | -                | -          |

# Available with 690V Delta for any other voltage on Request.

Standard Paint Shade : RAL7034 (Yellow Grey)

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED**

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034



**SMART MOTOR -HIGHER OUTPUT - IE3**

| SMART MOTOR - HIGHER CAPACITIES |     |         |            |                   |            |                   |            |                  |            |
|---------------------------------|-----|---------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| UTPUT Rating 2 Pole / 3000 RPM  |     |         |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
| KW                              | HP  | Frame   | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
|                                 |     |         |            |                   |            |                   |            |                  |            |
| 250                             | 335 | -       | -          | -                 | -          | -                 | -          | NG355LX          | 2505365    |
| 315                             | 422 | -       | -          | -                 | -          | -                 | -          | NG355LX          | 2596475    |
| 355                             | 476 | NG355LX | On Request | -                 | -          | NG355LX           | 2254855    | NG400LX          | 2755905    |
| 375                             | 503 | NG355LX | On Request | -                 | -          | ND400LX           | 2846990    | NG400LX          | 2892545    |
| 400                             | 535 | NG355LX | On Request | NG355LX           | 2277645    | NG400LX           | 3120325    | NG400LX          | 3120325    |
| 425                             | 570 | NG355LX | On Request | ND400LX           | 2664795    | -                 | -          | -                | -          |
| 450                             | 600 | NG400LX | On Request | NG400LX           | 2846990    | NG400LX           | 3211405    | ND450LX          | 4532405    |
| 500                             | 670 | NG400LX | 2892545    | NG400LX           | 2938100    | NG400LX           | 3348075    | ND450LX          | 4896825    |
| 560                             | 750 | NG400LX | 2983655    | NG400LX           | 3120325    | NG400LX           | 3439185    | ND450LX          | On Request |
| 630                             | 850 | NG400LX | 3302490    | NG400LX           | 3302490    | ND450LX           | 4350185    | ND500LX*         | On Request |
| 710#                            | 950 | -       | -          | ND450LX           | On Request | ND500LX*          | On Request | -                | -          |
| 710#                            | 950 | -       | -          | ND500LX*          | On Request | -                 | On Request | -                | -          |

# Available with 690V Delta for any other voltage on Request.

Standard Paint Shade : RAL5021 (Water Blue) Epoxy

\* ND500LX will be with Fabricated body

**Motors fitted with Smart Motor Kit operates through wireless communication & provides following information on smart phone/Laptop**  
Tri-axial Vibration, Noise, Temperature and real time data can be recorded along with real time alerts

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED**

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C with Class "F" insulation with temperature rise limited to class F and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034



**SMART MOTOR -HIGHER OUTPUT (IE3) for VFD Duty Application**

| OUTPUT Rating |     | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 250           | 335 | -                 | -          | -                 | -          | -                 | -          | NG355LX          | 2598785    |
| 315           | 422 | -                 | -          | -                 | -          | NG355LX           | 2361870    | NG355LX          | 2726315    |
| 355           | 476 | NG355LX           | On Request | NG355LX           | 2295680    | NG355LX           | 2771840    | NG400LX          | 3136260    |
| 375           | 503 | NG355LX           | On Request | NG355LX           | 2416590    | ND400LX           | 3227340    | NG400LX          | 3272925    |
| 400           | 535 | NG355LX           | On Request | NG355LX           | 2589650    | NG400LX           | 3500675    | NG400LX          | 3500675    |
| 425           | 570 | NG355LX           | On Request | ND400LX           | 3045175    | -                 | -          | -                | -          |
| 450           | 600 | NG400LX           | On Request | NG400LX           | 3227340    | NG400LX           | 3591760    | ND450LX          | 5131400    |
| 500           | 670 | NG400LX           | 3029215    | NG400LX           | 3318480    | NG400LX           | 3728455    | ND450LX          | 5495820    |
| 560           | 750 | NG400LX           | 3120325    | NG400LX           | 3500675    | NG400LX           | 3819535    | ND450LX          | On Request |
| 630           | 850 | NG400LX           | 3439185    | NG400LX           | 3682810    | ND450LX           | 4949150    | -                | -          |
| 710#          | 950 | -                 | -          | ND450LX           | On Request | ND500LX           | On Request | -                | -          |
| 710#          | 950 | -                 | -          | ND500LX           | On Request | -                 | On Request | -                | -          |

**Notes for VFD Duty**

**Motors :**

Above motors are suitable for Variable Torque Application.

Motors can be used for constant Torque Application after getting confirmation from Nearest CG Branch.

# Available with 690V Delta for any other voltage on Request.

Standard Paint Shade : RAL5021 (Water Blue) Epoxy

Motors are with Insulated bearings, RTD,BTD,Space heater

**Motors fitted with Smart Motor Kit operates through wireless communication and provides following information on smart phone/Laptop**  
Tri-axial Vibration, Noise, Temperature and real time data can be recorded along with real time alerts

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE FLAME PROOF INDUCTION MOTORS-FOOT MOUNTED

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C ambient, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034, Motors are suitable for Temperature class T4.

#### Flameproof Motors - IE3

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price |
| 0.37          | 0.50  | E80               | 24660      | E80               | 24275      | E80               | 28145      |
| 0.55          | 0.75  | E80               | 27585      | E80               | 26755      | E80               | 28915      |
| 0.75          | 1.00  | E80               | 28410      | E80               | 27820      | E90L              | 33705      |
| 1.10          | 1.50  | E90L              | 31780      | E90L              | 30805      | E90L              | 34680      |
| 1.50          | 2.00  | E90L              | 32490      | E90L              | 34500      | E100L             | 50200      |
| 2.20          | 3.00  | E90L              | 44405      | E100L             | 43875      | E112M             | 58330      |
| 3.70          | 5.00  | E100L             | 56410      | E112M             | 55580      | E132M             | 77280      |
| 5.50          | 7.50  | E132M             | 80030      | E132M             | 76420      | E132M             | 93625      |
| 7.50          | 10.00 | E132M             | 88365      | E132M             | 87035      | E160L             | 148345     |
| 9.30          | 12.50 | E160L             | 163865     | E160L             | 137705     | E160L             | 173535     |
| 11            | 15    | E160L             | 163865     | E160L             | 137705     | E160L             | 181635     |
| 15            | 20    | E160L             | 184090     | E160L             | 167475     | E180L             | 232365     |
| 18.5          | 25    | E160L             | 209070     | E180L             | 190150     | E200L             | 288945     |
| 22            | 30    | E180L             | 248000     | E180L             | 226010     | E200L             | 313425     |
| 30            | 40    | E200L             | 333850     | E200L             | 303225     | E225M             | 513830     |
| 37            | 50    | E200L             | 432415     | E225S             | 394955     | E250M             | 631045     |
| 45            | 60    | E225M             | 548860     | E225M             | 499400     | E280M             | 732885     |
| 55            | 75    | E250M             | 672015     | E250M             | 611860     | E280M             | 790505     |
| 75            | 100   | E280M             | 826065     | E280M             | 749825     | E315M             | 926935     |
| 90            | 120   | E280M             | 893265     | E280M             | 764340     | E315M             | 1086955    |
| 110           | 150   | E315M             | 1034925    | E315M             | 912565     | E315L             | 1191695    |
| 132           | 180   | E315M             | 1227055    | E315M             | 1104430    | E315L             | 1444485    |
| 160           | 215   | E315L#            | 1391155    | E315L#            | 1159740    | E315L#            | 1819900    |
| 180           | 240   | E315L#            | 1667920    | E315L#            | 1388230    | E355LX            | 1973360    |
| 200           | 270   | E315L#            | 2072335    | E315L#            | 1655150    | E355LX            | 2077240    |
| 225           | 300   | E355LX#           | 2590445    | E355LX*           | 2187895    | -                 | -          |
| 250           | 335   | E355LX#           | 2719960    | E355LX*           | 2254500    | -                 | -          |

Motors with gas group I & IIC can also be offered on request with extra price ( Please refer special features section )

Gas group IIA, IIB E80, E315L & E355LX will be with T/B on TOP only

For all frames of Gas group IIC, terminal box position will be on top (no other option is available)

Gas Group IIC is not available in E315L frame

For E80 & E355LX-DGMS certificate is not available

# Suitable for 40 degree and 80 degree Temp rise.

\*These are suitable to temperature rise limited to class F

Temp rise with VFD in same frame shall be limited to class F. If customer required with rise B please refer to nearest branch.

160 to 250KW in 2 Pole AND 160&180KW 4 Pole are suitable for 40 degree amb/80 degree Temp rise

Standard paint shade : RAL 5021 ( Water Blue)

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE FLAME PROOF INDUCTION MOTORS-FOOT MOUNTED**

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C ambient, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. Efficiency values are conforming to IS12615 / IS/IEC 60034 , Motors are suitable for Temperature class T4.

**Flameproof Motors - IE2**

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | E80               | 23060      | E80               | 22675      | E80               | 26315      | E90L             | 31605      |
| 0.55          | 0.75  | E80               | 25810      | E80               | 25040      | E80               | 27080      | E90L             | 34205      |
| 0.75          | 1.00  | E80               | 26580      | E80               | 26015      | E90L              | 31515      | E100L            | 41390      |
| 1.10          | 1.50  | E90L              | 29740      | E90L              | 29740      | E90L              | 32460      | E100L            | 48130      |
| 1.50          | 2.00  | E90L              | 30395      | E90L              | 32285      | E100L             | 46975      | E112M            | 57740      |
| 2.20          | 3.00  | E90L              | 41540      | E100L             | 41035      | E112M             | 54575      | E132M            | 76305      |
| 3.70          | 5.00  | E100L             | 52800      | E112M             | 51975      | E132M             | 72310      | E160L            | 123425     |
| 5.50          | 7.50  | E132M             | 74885      | E132M             | 71485      | E132M             | 87625      | E160L            | 145035     |
| 7.50          | 10.00 | E132M             | 82690      | E132M             | 81420      | E160L             | 138770     | E160L            | 176905     |
| 9.30          | 12.50 | E160L             | 156150     | E160L             | 128835     | E160L             | 163245     | E180L            | 224885     |
| 11            | 15    | E160L             | 156150     | E160L             | 128835     | E160L             | 169955     | E180L            | 236885     |
| 15            | 20    | E160L             | 172235     | E160L             | 156685     | E180L             | 217375     | E200L            | 320195     |
| 18.5          | 25    | E160L             | 195590     | E180L             | 177880     | E200L             | 270350     | E225S            | 397500     |
| 22            | 30    | E180L             | 232040     | E180L             | 211465     | E200L             | 293260     | E225M            | 523140     |
| 30            | 40    | E200L             | 312360     | E200L             | 283715     | E225M             | 480750     | E250M            | 642485     |
| 37            | 50    | E200L             | 404535     | E225S             | 369505     | E250M             | 590395     | E280M            | 824500     |
| 45            | 60    | E225M             | 513535     | E225M             | 467240     | E280M             | 685675     | E280M            | 842000     |
| 55            | 75    | E250M             | 628765     | E250M             | 572450     | E280M             | 739595     | E315M            | 1025910    |
| 75            | 100   | E280M             | 772855     | E280M             | 701550     | E315M             | 867220     | E315M            | 1201570    |
| 90            | 120   | E280M             | 835705     | E280M             | 715150     | E315M             | 1016950    | E315L            | 1315210    |
| 110           | 150   | E315M             | 968265     | E315M             | 853795     | E315L             | 1114925    | E315L            | 1538140    |
| 125           | 170   | E315M             | 1130560    | E315M             | 991970     | E315L             | 1325110    | E355LX           | 1573110    |
| 132           | 180   | E315M             | 1148035    | E315M             | 1033300    | E315L             | 1351450    | E355LX           | 1598595    |
| 150           | 200   | E315L             | 1246710    | E315L             | 1069720    | E315L             | 1477715    | E355LX           | 1677970    |
| 160           | 215   | E315L#            | 1301550    | E315L#            | 1085065    | E315L#            | 1702745    | E355LX           | 1844525    |
| 180           | 240   | E315L#            | 1560460    | E315L#            | 1298800    | E355LX            | 1846270    | E355LX           | 1922690    |
| 200           | 270   | E315L#            | 1938890    | E315L#            | 1548545    | E355LX            | 1943440    | E355LX           | 2095365    |
| 225           | 300   | E355LX#           | 2423595    | E355LX#           | 2186090    | E355LX            | 2237290    | E355LX           | 2307210    |
| 250           | 335   | E355LX#           | 2544770    | E355LX#           | 2252635    | E355LX            | 2398140    | E400LX           | 3567810    |
| 275           | 370   | E355LX#           | 2671980    | E355LX#           | 2304545    | E355LX            | 2412095    | -                | -          |
| 315           | 425   | E355LX#           | 2805630    | E355LX#           | 2530670    | -                 | -          | -                | -          |
| 325           | 435   | E355LX#           | 2877380    | E355LX#           | 2576405    | -                 | -          | -                | -          |
| 355           | 476   | E400LX*           | 3964215    | E400LX*           | 3567810    | -                 | -          | -                | -          |
| 375           | 503   | E400LX*           | 4264835    | E400LX*           | 3838370    | -                 | -          | -                | -          |
| 400           | 535   | E400LX*           | 4691335    | E400LX*           | 4222205    | -                 | -          | -                | -          |

In 400 frame - 6pole and above on request

Motors with gas group I & IIC can also be offered on request with extra price ( Please refer special features section )

For all frames of Gas group IIC , terminal box position will be on top (no other option is available )

Gas group IIA, IIB E80, E315L , E355LX & E400LX will be with T/B on TOP only

Gas Group IIC is not available in E315L & E400LX frame

For E80 , E355LX & E400LX -DGMS certificate is not available

Smart Kit feature is not a default feature. #These are suitable for 40 degree amb/80 degree Temp rise.

\*These are suitable to temperature rise limited to class F. Standard paint shade : RAL 7034 (Yellow Grey)Epoxy

Temp rise with VFD in same frame shall be limited to class F .If cust need with rise B please refer to nearest branch.

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS - FOOT MOUNTED

Squirrel cage Induction Motors with Enclosure conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above m.s.l. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034

#### UL Listed Motors - IE2

| OUTPUT Rating |       | 2 Pole / 3000 RPM |            | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-------|-------------------|------------|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP    | Frame             | List Price | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 0.37          | 0.50  | -                 | -          | -                 | -          | -                 | -          | ND90S            | 17120      |
| 0.55          | 0.75  | -                 | -          | -                 | -          | -                 | -          | ND90L            | 18745      |
| 0.75          | 1.00  | ND80              | 13275      | ND80              | 13780      | ND90S             | 16645      | ND100L           | 23030      |
| 1.10          | 1.50  | ND80              | 14400      | ND90S             | 17030      | ND90L             | 18215      | ND100L           | 28030      |
| 1.50          | 2.00  | ND90S             | 16530      | ND90L             | 20610      | ND100L            | 26225      | ND112M           | 32460      |
| 2.20          | 3.00  | ND90L             | 21230      | ND100L            | 24540      | ND112M            | 27970      | ND132S           | 42955      |
| 3.70          | 5.00  | ND100L            | 26315      | ND112M            | 31100      | ND132S            | 43520      | ND160M           | 66845      |
| 4.00          | 5.50  | ND112M            | 35535      | -                 | -          | -                 | -          | -                | -          |
| 5.50          | 7.50  | ND132S            | 44820      | ND132S            | 43165      | ND132M            | 53540      | ND160M           | 83545      |
| 7.50          | 10.00 | ND132S            | 48660      | ND132M            | 46385      | ND160M            | 81685      | ND160L           | 105895     |
| 9.30          | 12.50 | ND132M            | 70895      | ND132M            | 67495      | -                 | -          | -                | -          |
| 9.30          | 12.50 | ND160M            | 82010      | ND160M            | 82450      | ND160L            | 88985      | ND180M           | 137705     |
| 11            | 15    | ND160M            | 86560      | ND160M            | 83220      | ND160L            | 100515     | ND180L           | 145215     |
| 15            | 20    | ND160M            | 93035      | ND160L            | 102730     | ND180L            | 131290     | ND200L           | 204425     |
| 18.5          | 25    | ND160L            | 119495     | ND180M            | 131435     | ND200L            | 187430     | ND225S           | 262340     |
| 22            | 30    | ND180M            | 134275     | ND180L            | 143915     | ND200L            | 201795     | ND225M           | 315405     |
| 30            | 40    | ND200L            | 197125     | ND200L            | 198575     | ND225M            | 288415     | ND250M           | 425790     |
| 37            | 50    | ND200L            | 239310     | ND225S            | 232185     | ND250M            | 387805     | ND280S           | 555275     |
| 45            | 60    | ND225M            | 307985     | ND225M            | 281435     | ND280S            | 464490     | ND280M           | 641625     |
| 55            | 75    | ND250MX           | 414615     | ND250MX           | 386710     | ND280M            | 533400     | ND315S           | 777435     |
| 75            | 100   | ND280S            | 517730     | ND280S            | 470695     | ND315S            | 651470     | ND315M           | 965365     |
| 90            | 120   | ND280M            | 597285     | ND280M            | 548240     | ND315M            | 815130     | ND315L           | 1094405    |
| 110           | 150   | ND315S            | 771880     | ND315S            | 679465     | ND315M            | 908960     | ND315LX          | 1158585    |
| 125           | 170   | ND315M            | 905710     | ND315M            | 774035     | ND315LX           | 990730     | ND315LX          | 1272935    |
| 132           | 180   | ND315M            | 948665     | ND315M            | 796150     | ND315LX           | 1061090    | ND315LX          | 1342290    |
| 160           | 215   | ND315LX           | 1039215    | ND315LX           | 934120     | ND315LX           | 1104840    | ND355LX          | 1559545    |
| 180           | 240   | ND315LX           | 1093965    | ND315LX           | 993540     | ND355LX           | 1218540    | ND355LX          | 1600075    |
| 200           | 270   | ND315LX           | 1213275    | ND315LX           | 1133960    | ND355LX           | 1310270    | ND355LX          | 1714095    |
| 225           | 300   | ND355LX*          | 1366175    | ND355LX           | 1304180    | ND355LX           | 1349560    | ND355LX          | 2435390    |
| 250           | 335   | ND355LX*          | 1399225    | ND355LX           | 1383765    | ND355LX           | 1442980    | -                | -          |
| 275           | 370   | ND355LX*          | 1438750    | ND355LX           | 1512655    | ND355LX*          | 1753855    | -                | -          |
| 315           | 425   | ND355LX*          | 1473310    | ND355LX*          | 1623605    | ND355LX*          | 2171130    | -                | -          |
| 355           | 473   | -                 | -          | ND355LX*          | 1972500    | -                 | -          | -                | -          |
| 375           | 500   | -                 | -          | ND355LX*          | 2253935    | -                 | -          | -                | -          |

\*These are suitable to temperature rise limited to class F.

For other ratings please contact nearest CG Office

Standard Paint Shade : RAL7034 (Yellow Grey)

For UL Listed Fire Fighting Motors, contact nearest branch office.

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUCTION MOTORS-FOOT MOUNTED**

208-230/460 Volt or 575 V 60 Hz, Ambient 40 degree ,class F insulation with class B temp rise. As per NEMA MG-1

| <b>NEEMA MOTORS - PREMIUM SERIES</b>                                                                                       |                             |                                                                                |                   |                          |                   |                          |                   |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------|-------------------|--------------------------|-------------------|--------------------------|-------------------|
| <b>OUTPUT Rating</b>                                                                                                       |                             | <b>2 Pole / 3600 RPM</b>                                                       |                   | <b>4 Pole / 1800 RPM</b> |                   | <b>6 Pole / 1200 RPM</b> |                   |
| <b>KW</b>                                                                                                                  | <b>HP</b>                   | <b>Frame</b>                                                                   | <b>List Price</b> | <b>Frame</b>             | <b>List Price</b> | <b>Frame</b>             | <b>List Price</b> |
| 0.75                                                                                                                       | 1.00                        | 143T                                                                           | 18950             | 143T                     | 21285             | 145T                     | 22320             |
| 1.10                                                                                                                       | 1.50                        | 143T                                                                           | 22500             | 145T                     | 21820             | 182T                     | 39735             |
| 1.50                                                                                                                       | 2.00                        | 145T                                                                           | 23060             | 145T                     | 24215             | 184T                     | 41715             |
| 2.20                                                                                                                       | 3.00                        | 182T                                                                           | 40445             | 182T                     | 40860             | 213T                     | 64390             |
| 3.70                                                                                                                       | 5.00                        | 184T                                                                           | 43930             | 184T                     | 44585             | 215T                     | 69975             |
| 5.50                                                                                                                       | 7.50                        | 213T                                                                           | 62290             | 213T                     | 68705             | 254T                     | 115860            |
| 7.50                                                                                                                       | 10.00                       | 215T                                                                           | 66875             | 215T                     | 73970             | 256T                     | 131350            |
| 11.00                                                                                                                      | 15.00                       | 254T                                                                           | 102675            | 254T                     | 110535            | 284T                     | 187990            |
| 15.00                                                                                                                      | 20.00                       | 256T                                                                           | 111335            | 256T                     | 122925            | 286T                     | 192190            |
| 18.50                                                                                                                      | 25.00                       | 284TS                                                                          | 169840            | 284T                     | 187165            | 324T                     | 257875            |
| 22                                                                                                                         | 30                          | 286TS                                                                          | 171880            | 286T                     | 195560            | 326T                     | 270590            |
| 30                                                                                                                         | 40                          | 324TS                                                                          | 258055            | 324T                     | 285815            | 364T                     | 413495            |
| 37                                                                                                                         | 50                          | 326TS                                                                          | 272125            | 326T                     | 319305            | 365T                     | 463780            |
| 45                                                                                                                         | 60                          | 364TS                                                                          | 383635            | 364T                     | 402050            | 404T                     | 512555            |
| 55                                                                                                                         | 75                          | 365TS                                                                          | 428305            | 365T                     | 441195            | 405T                     | 546050            |
| 75                                                                                                                         | 100                         | 405TS                                                                          | 549215            | 405T                     | 550130            | -                        | -                 |
| Standard paint shade : RAL 5021 (Water Blue )<br>NEMA- C Flange in addition to foot 8 %<br>NEMA- C Flange without foot 5 % |                             |                                                                                |                   |                          |                   |                          |                   |
| <b>NEMA FRAME</b>                                                                                                          | <b>EQUIVALENT IEC FRAME</b> | NEMA Premium & NEMA Ipxt for American Market<br>MEPS 2 - Australia & Newzeland |                   |                          |                   |                          |                   |
| 143T                                                                                                                       | 90S                         |                                                                                |                   |                          |                   |                          |                   |
| 145T                                                                                                                       | 90L                         |                                                                                |                   |                          |                   |                          |                   |
| 184T                                                                                                                       | 112M                        |                                                                                |                   |                          |                   |                          |                   |
| 213T                                                                                                                       | 132S                        |                                                                                |                   |                          |                   |                          |                   |
| 215T                                                                                                                       | 132M                        |                                                                                |                   |                          |                   |                          |                   |
| 254T                                                                                                                       | 160M                        |                                                                                |                   |                          |                   |                          |                   |
| 256T                                                                                                                       | 160L                        |                                                                                |                   |                          |                   |                          |                   |
| 284T                                                                                                                       | 180M                        |                                                                                |                   |                          |                   |                          |                   |
| 286T                                                                                                                       | 180L                        |                                                                                |                   |                          |                   |                          |                   |
| 324T                                                                                                                       | 200L                        |                                                                                |                   |                          |                   |                          |                   |
| 364T                                                                                                                       | 225S                        |                                                                                |                   |                          |                   |                          |                   |
| 365T                                                                                                                       | 225M                        |                                                                                |                   |                          |                   |                          |                   |
| 405T                                                                                                                       | 250M                        |                                                                                |                   |                          |                   |                          |                   |
| 444T                                                                                                                       | 280S                        |                                                                                |                   |                          |                   |                          |                   |
| 447T                                                                                                                       | 280M                        |                                                                                |                   |                          |                   |                          |                   |

**TOTALLY ENCLOSED FAN COOLED 3 PH SLIP RING INDUCTION MOTORS**

Enclosure confirming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Phase 50Hz+/- 5% AC supply with ambient 45°C, Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034

| <b>TEFC Slipring Motors</b>                                                                                           |           |                          |                   |                          |                   |                         |                   |
|-----------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|-------------------|--------------------------|-------------------|-------------------------|-------------------|
| <b>OUTPUT Rating</b>                                                                                                  |           | <b>4 Pole / 1500 RPM</b> |                   | <b>6 Pole / 1000 RPM</b> |                   | <b>8 Pole / 750 RPM</b> |                   |
| <b>KW</b>                                                                                                             | <b>HP</b> | <b>Frame</b>             | <b>List Price</b> | <b>Frame</b>             | <b>List Price</b> | <b>Frame</b>            | <b>List Price</b> |
| 2.20                                                                                                                  | 3.00      | -                        | -                 | DW132S                   | 98355             | -                       | -                 |
| 3.00                                                                                                                  | 4.00      | DW132S                   | 95255             | DW132S                   | 103470            | NDW160M                 | 141755            |
| 3.70                                                                                                                  | 5.00      | DW132S                   | 97410             | DW132M                   | 108675            | NDW160M                 | 146810            |
| 5.50                                                                                                                  | 7.50      | DW132M                   | 99450             | NDW160M                  | 132560            | NDW160L                 | 164545            |
| 7.50                                                                                                                  | 10.00     | NDW160M                  | 131675            | NDW160L                  | 165375            | NDW180L                 | 223730            |
| 11.00                                                                                                                 | 15.00     | NDW160L                  | 164755            | NDW180L                  | 214715            | NDW200L                 | 293145            |
| 15.00                                                                                                                 | 20.00     | NDW180L                  | 218055            | NDW200L                  | 280255            | NDW225M                 | 376925            |
| 18.50                                                                                                                 | 25.00     | NDW200L                  | 250840            | NDW225M                  | 361375            | NDW225M                 | 435870            |
| 22.00                                                                                                                 | 30.00     | NDW200L                  | 278690            | NDW225M                  | 431850            | NDW250M                 | 568905            |
| 30.00                                                                                                                 | 40.00     | NDW225M                  | 344260            | NDW250M                  | 571060            | NDW280S                 | 656350            |
| 37                                                                                                                    | 50        | NDW250M                  | 472025            | NDW280S                  | 646565            | NDW280M                 | 752840            |
| 45                                                                                                                    | 60        | NDW250M                  | 564205            | NDW280M                  | 702525            | NDW315S                 | 925340            |
| 55                                                                                                                    | 75        | NDW280S                  | 621820            | NDW315S                  | 783410            | NDW315M                 | 1070965           |
| 75                                                                                                                    | 100       | NDW280M                  | 690435            | NDW315M                  | 989550            | NDW315LX                | 1179015           |
| 90                                                                                                                    | 120       | NDW315S                  | 860775            | NDW315LX                 | 1097245           | NDW315LX                | 1394465           |
| 110                                                                                                                   | 150       | NDW315M                  | 994575            | NDW315LX                 | 1302320           | NDW355LX                | 1485220           |
| 125                                                                                                                   | 170       | NDW315LX                 | 1093990           | NDW315LX                 | 1414215           | NDW355LX                | 1652075           |
| 132.00                                                                                                                | 180.00    | NDW315LX                 | 1153145           | -                        | -                 | -                       | -                 |
| 150                                                                                                                   | 200       | NDW315LX                 | 1308350           | NDW355LX                 | 1516085           | NDW355LX                | 1818360           |
| 160                                                                                                                   | 215       | NDW315LX                 | 1336555           | NDW355LX                 | 1617130           | NDW355LX                | 1842365           |
| 180                                                                                                                   | 240       | NDW355L                  | 1414035           | NDW355LX                 | 1718175           | NDW400LX                | 2991640           |
| 200                                                                                                                   | 270       | NDW355L                  | 1571130           | NDW355LX*                | 1861375           | NDW400LX                | 3323775           |
| 225                                                                                                                   | 300       | NDW355LX                 | 1655590           | NDW400LX                 | 3651505           | NDW400LX *              | 3739245           |
| 250                                                                                                                   | 335       | NDW355LX                 | 1676110           | NDW400LX                 | 4057190           | NDW450LX*               | 5593225           |
| 275                                                                                                                   | 370       | NDW355LX                 | 1777535           | NDW400LX                 | 4462935           | NDW450LX*               | 6152550           |
| 300                                                                                                                   | 402       | NDW400LX                 | 3381925           | NDW400LX                 | 4868560           | NDW450LX*               | 6767805           |
| 315                                                                                                                   | 436       | NDW400LX                 | 3551020           | NDW400LX                 | 5274305           | NDW450LX*               | 7444610           |
| 350                                                                                                                   | 470       | NDW400LX                 | 3945560           | NDW450LX*                | 5638990           | NDW450LX*               | 8040175           |
| 370                                                                                                                   | 500       | NDW400LX *               | On Request        | NDW450LX*                | 6202895           | NDW450LX*               | 8683365           |
| 450                                                                                                                   | 600       | -                        | -                 | NDW450LX*                | 6823205           | NDW450LX*               | 9378055           |
| <p>*These are suitable for temperature rise limited to class F.<br/>Standard Paint Shade -631 (IS 5) Light Green.</p> |           |                          |                   |                          |                   |                         |                   |

### SCREEN PROTECTED DRIP PROOF SLIP RING INDUCTION MOTORS

Enclosure confirming to protection IP 21 /23 Horizontal Foot Mounted (B3),continuously rated (S1) suitable for operation on 415+/- 10% V,3 Phase 50Hz+/- 5% AC supply with ambient 45°C,Class "F" insulation with temperature rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034

#### SPDP Slipring Motors

| OUTPUT Rating |     | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|-----|-------------------|------------|-------------------|------------|------------------|------------|
| KW            | HP  | Frame             | List Price | Frame             | List Price | Frame            | List Price |
| 3.7           | 5   | -                 | -          | -                 | -          | CW160M           | 123220     |
| 5.5           | 7.5 | -                 | -          | CW160M            | 120735     | CW160L           | 131230     |
| 7.5           | 10  | CW160M            | 121445     | CW160L            | 140870     | CW180M           | 181045     |
| 11            | 15  | CW160L            | 135280     | CW180M            | 180985     | CW180L           | 211995     |
| 15            | 20  | CW180M            | 179770     | CW180L            | 199430     | CW200M           | 262280     |
| 18.5          | 25  | CW180M            | 184590     | CW200M            | 270440     | CW200L           | 275790     |
| 22            | 30  | CW180L            | 198425     | CW200L            | 282295     | CW225M           | 363000     |
| 30            | 40  | CW200M            | 253265     | CW225M            | 359010     | CW225M           | 402940     |
| 37            | 50  | CW200L            | 275350     | CW225M            | 385350     | CW250S           | 508150     |
| 45            | 60  | CW225M            | 336160     | CW250S            | 500760     | CW250M           | 583300     |
| 55            | 75  | CW250S            | 453165     | CW250M            | 558260     | CW280S           | 707815     |
| 75            | 100 | CW250S            | 475840     | CW280S            | 679410     | CW280M           | 773090     |
| 90            | 120 | CW250MX           | 580050     | CW280M            | 811850     | CW315S*          | 984995     |
| 110           | 150 | CW280M            | 648425     | CW315S*           | 948575     | CW315MX*         | 1065880    |
| 125           | 170 | CW280MX*          | 805640     | CW315MX*          | 1064045    | CW355L           | 1121900    |
| 132           | 180 | CW280MX*          | 845935     | CW315MX*          | 1091955    | CW355L           | 1184690    |
| 150           | 200 | CW315S*           | 989105     | CW315MX*          | 1192995    | CW355L           | 1470945    |
| 160           | 215 | CW315M*           | 915170     | CW315MX*          | 1210145    | CW355L           | 1657160    |
| 180           | 240 | CW315MX*          | 1151255    | CW355L            | On Request | CW355L           | 1753945    |
| 200           | 270 | CW315MX*          | 1328720    | CW355L            | On Request | CW355L           | 1897825    |
| 225           | 300 | CW315MX*          | 1329810    | CW355L            | On Request | CW400LX          | 2914390    |
| 250           | 335 | CW355L            | On Request | CW355L            | On Request | CW400LX          | 3057830    |
| 275           | 369 | CW355L            | On Request | CW355L            | On Request | -                | -          |
| 300           | 402 | CW355L            | On Request | CW400LX           | On Request | -                | -          |
| 325           | 435 | CW355L            | On Request | CW400LX           | On Request | -                | -          |
| 350           | 470 | CW355L            | On Request | -                 | -          | -                | -          |

#### SPDP Slipring Motors

| OUTPUT Rating |     | 10 Pole / 600 RPM |            |
|---------------|-----|-------------------|------------|
| KW            | HP  | Frame             | List Price |
| 110           | 150 | CW315MX*          | 1476265    |
| 125           | 170 | CW355L            | 1905040    |
| 150           | 200 | CW355L            | 2171665    |
| 160           | 215 | CW355L            | 2267445    |
| 180           | 240 | CW355L            | 2364295    |
| 200           | 270 | CW400LX           | 2737725    |
| 225           | 300 | CW400LX           | 3024895    |

\* These are with fabricated body. Charge 20% Over above given LP

Motors are with roller bearing as inbuilt feature from frame 225 and above

Position of terminal box on RHS when viewed from DE

Standard Paint Shade : 631 (IS 5) Light Green

# **TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE CRANE DUTY MOTORS**

MOUNTING: FOOT

VOLTAGE : 415 V  $\pm$  10%

FREQUENCY : 50Hz  $\pm$  5%

COMBINED : 10% (ABSOLUTE SUM)

AMBIENT : 50°C

PROTECTION : IP55

RATING : S3 / S4

(AS PER IS/IEC 60034-1, IS1231, IS2223 )

DUTY : INTERMITTENT

INSULATION : CLASS F, TEMP RISE-CLASS B

40% CDF , 150 Starts stops per Hr

# **TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE CRANE DUTY MOTORS**

| 4 Pole / 1500 RPM |       |        |            |
|-------------------|-------|--------|------------|
| KW                | HP    | Frame  | List Price |
| 0.25              | 0.34  | GD63   | 10645      |
| 0.55              | 0.75  | GD71   | 11260      |
| 0.75              | 1     | ND80   | 12525      |
| 1.1               | 1.5   | ND80   | 13160      |
| 1.5               | 2     | ND90S  | 13790      |
| 2.2               | 3     | ND90L  | 15090      |
| 3.7               | 5     | ND100L | 20330      |
| 5.5               | 7.5   | ND112M | 25475      |
| 7.5               | 10    | ND132S | 35065      |
| 9.3               | 12.5  | ND132M | 40975      |
| 11                | 15    | ND160M | 63810      |
| 15                | 20    | ND160M | 69440      |
| 18.5              | 25    | ND160L | 81205      |
| 22.5              | 30    | ND180M | 113630     |
| 27                | 36    | ND180L | 122250     |
| 37                | 50    | ND200L | 163055     |
| 40                | 53.33 | ND225S | 211705     |
| 8 Pole / 750 RPM  |       |        |            |
| KW                | HP    | Frame  | List Price |
| 0.55              | 0.75  | ND90S  | 14605      |
| 0.75              | 1     | ND90L  | 16465      |
| 1.1               | 1.5   | ND100L | 19810      |
| 1.5               | 2     | ND112M | 19810      |
| 2.2               | 3     | ND132S | 27815      |
| 3.7               | 5     | ND160M | 36885      |
| 5.5               | 7.5   | ND160M | 70835      |
| 7.5               | 10    | ND160M | 76465      |
| 9.3               | 12.5  | ND160L | 92200      |
| 10                | 13.4  | ND180M | 117400     |
| 12                | 16    | ND180L | 130705     |

| 6 Pole / 1000 RPM |      |        |            |
|-------------------|------|--------|------------|
| KW                | HP   | Frame  | List Price |
| 0.17              | 0.23 | GD63   | 10410      |
| 0.37              | 0.5  | GD71   | 12360      |
| 0.55              | 0.75 | ND80   | 13270      |
| 0.75              | 1    | ND80   | 13270      |
| 1.1               | 1.5  | ND90S  | 14215      |
| 1.5               | 2    | ND90L  | 16465      |
| 2.2               | 3    | ND100L | 21465      |
| 3.7               | 5    | ND112M | 25570      |
| 5.5               | 7.5  | ND132S | 37570      |
| 7.5               | 10   | ND132M | 41830      |
| 9.3               | 12.5 | ND160M | 67510      |
| 11                | 15   | ND160L | 83710      |
| 15                | 20   | ND160L | 89340      |
| 18.5              | 25   | ND180L | 121495     |

Position of terminal box RHS when viewed from DE for other ratings, please refer pricing guideline section  
Standard paint shade : RAL 7034 (Yellow Grey)

# **TOTALLY ENCLOSED FAN COOLED SLIPRING CRANE DUTY MOTORS**

MOUNTING : FOOT

VOLTAGE : 415 V  $\pm$  10%

FREQUENCY: 50Hz  $\pm$  5%

COMBINED :10% (ABSOLUTE SUM)

AMBIENT : 50°C

PROTECTION : IP55

RATING : S3 / S4 (AS PER IEC 60034)

DUTY :INTERMITTENT

INSULATION: CLASS F, TEMP RISE-CLASS B

40%CDF , 150 Starts Stops per Hr

## **TOTALLY ENCLOSED FAN COOLED SLIPRING CRANE DUTY MOTORS**

| OUTPUT Rating |       | 6 Pole / 1000 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 1.8           | 2.41  | NDW112M           | 69740      |
| 2.6           | 3.50  | DW132S            | 91825      |
| 4.5           | 6.03  | DW132M            | 109680     |
| 6.7           | 9.00  | NDW160M           | 124460     |
| 9.0           | 12.07 | NDW160L           | 153965     |
| 13.2          | 17.50 | NDW180L           | 231655     |
| 17.6          | 23.60 | NDW200L           | 304555     |
| 24.6          | 33.00 | NDW225S           | 376660     |
| 30.5          | 41.00 | NDW225M           | 464815     |
| 36.0          | 48.28 | NDW250S           | 580995     |
| 42.0          | 56    | NDW250M           | 701195     |
| 53.5          | 72    | NDW280S           | 771320     |
| 66.5          | 89    | NDW280M           | 901510     |
| 93.0          | 126   | NDW315S           | 1077765    |
| 116.0         | 156   | NDW315M           | 1222000    |

| OUTPUT Rating |       | 8 Pole / 750 RPM |            |
|---------------|-------|------------------|------------|
| KW            | HP    | Frame            | List Price |
| 1.7           | 2.3   | DW132S           | 98595      |
| 2.5           | 3.4   | DW132M           | 132470     |
| 4.8           | 6.4   | NDW160M          | 143530     |
| 6.7           | 9.00  | NDW160L          | 178735     |
| 9.30          | 11.00 | NDW180L          | 239900     |
| 13.5          | 18.0  | NDW200L          | 312535     |
| 20.2          | 27.2  | NDW225S          | 406310     |
| 26.0          | 35.0  | NDW225M          | 464815     |
| 31.5          | 42.2  | NDW250S          | 565945     |
| 37            | 50    | NDW250MX         | 704770     |
| 48.0          | 64.0  | NDW280S          | 787340     |
| 59.0          | 79.0  | NDW280M          | 857435     |
| 72.0          | 96.0  | NDW315S          | 1149895    |
| 86.0          | 115.3 | NDW315M          | 1248070    |

| OUTPUT Rating |       | 10 Pole / 600 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 15            | 20    | NDW225S           | 381270     |
| 18.5          | 25    | NDW225M           | 446780     |
| 22.00         | 30.00 | NDW250M           | 571060     |
| 38.00         | 51.00 | NDW280S           | 851430     |
| 46.50         | 62.00 | NDW280M           | 931545     |
| 60.00         | 80.00 | NDW315S           | 1185960    |
| 66.00         | 88.00 | NDW315M           | 1242635    |

Terminal position in on TOP as a standard for this series

On Request terminal box position can be given on LHS/RHS (Not applicable for DW132S & DW132M)

Standard Paint Shade : RAL7034 (Yellow Grey)

For other ratings, please refer pricing guideline section

### TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE INDUCTION MOTORS FOR TEXTILE APPLICATIONS

Enclosure conforming to protection IP 54 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 3 Ph 50Hz+/- 5% AC supply with ambient 45°C, Class "F" insulation with temp. rise limited to Class "B" and altitude less than 1000 m above m.s.l. conforming to IS12615 / IS/IEC 60034 with clean flow construction.

#### FOR LOOM / WEAVING APPLICATION ( TE ) / TB ON RHS

| OUTPUT Rating |      | 6 Pole / 1000 RPM |            | 8 Pole / 750 RPM |            |
|---------------|------|-------------------|------------|------------------|------------|
| KW            | HP   | Frame             | List Price | Frame            | List Price |
| 0.75          | 1.00 | NR90L             | 15150      | R112M            | 19690      |
| 1.10          | 1.50 | R112M             | 17625      | R112M            | 25930      |
| 1.50          | 2.00 | R112M             | 20225      | R132S            | 27525      |

#### CARD APPLICATION ( TE ) / TB ON TOP

| OUTPUT Rating |      | 6 Pole / 1000 RPM |            |
|---------------|------|-------------------|------------|
| KW            | HP   | Frame             | List Price |
| 0.75          | 1.00 | NR90L             | 14665      |
| 1.10          | 1.50 | R112M             | 27050      |
| 1.50          | 2.00 | R112M             | 32875      |

#### GINNING APPLICATION ( TEFC ) / TB ON RHS

| OUTPUT Rating |       | 4 Pole / 1500 RPM |            |
|---------------|-------|-------------------|------------|
| KW            | HP    | Frame             | List Price |
| 2.20          | 3.00  | ND100L            | 22265      |
| 3.00          | 4.00  | ND112M            | 26075      |
| 3.70          | 5.00  | ND132S            | 32080      |
| 5.50          | 7.50  | ND132S            | 38315      |
| 7.50          | 10.00 | ND132M            | 45645      |

**RING FRAME, TEXTILE MOTOR :** TB TOP, AMBIENT :45°C, RISE 75°C , IS12615 / IS/IEC 60034  
ROLLER BEARING AT DE FOR 160 FR. AND ABOVE TO SUSTAIN HIGHER RADIAL LOAD

| OUTPUT |       | 4 POLE : 1500 RPM |        |
|--------|-------|-------------------|--------|
| KW     | HP    | FRAME             | PRICE  |
| 3.70   | 5.00  | ND112M            | 33585  |
| 5.50   | 7.50  | ND132S            | 46000  |
| 7.50   | 10.00 | ND132M            | 53895  |
| 9.30   | 12.50 | ND160M            | 85055  |
| 11.00  | 15.00 | ND160M            | 87715  |
| 13.00  | 17.50 | ND160L            | 106075 |
| 15.00  | 20.00 | ND160L            | 109030 |
| 18.50  | 25.00 | ND180M            | 153490 |
| 22.00  | 30.00 | ND180L            | 163515 |
| 30.00  | 40.00 | ND200L            | 220600 |
| 37.00  | 50.00 | ND225S            | 283625 |
| 45.00  | 60.00 | ND225M            | 343785 |

| OUTPUT |      | 6 POLE : 1000 RPM |       |
|--------|------|-------------------|-------|
| KW     | HP   | FRAME             | PRICE |
| 3.70   | 5.00 | ND132S            | 48960 |
| 5.50   | 7.50 | ND132M            | 54605 |

Standard Paint Shade : RAL7034 (Yellow Grey)

# TOTALLY ENCLOSED FAN COOLED CRUSHER DUTY MOTORS

MOUNTING : FOOT  
VOLTAGE: 415 V  $\pm$  10%  
FREQUENCY : 50Hz  $\pm$  5%  
AMBIENT : 50°C

PROTECTION :IP55  
RATING: S1  
DUTY : Continuous  
INSULATION : CLASS F, TEMP RISE-CLASS B  
Efficiency Class : IE2

| OUTPUT Rating |     | Crusher Duty      |            |                   |            |
|---------------|-----|-------------------|------------|-------------------|------------|
|               |     | 4 Pole / 1500 RPM |            | 6 Pole / 1000 RPM |            |
| KW            | HP  | Frame             | List Price | Frame             | List Price |
| 45            | 60  | ND225M            | 284245     | -                 | -          |
| 55            | 75  | ND250M            | 390640     | ND280M            | 538780     |
| 75            | 100 | ND280S            | 475425     | ND315S            | 658005     |
| 90            | 120 | ND280M            | 553765     | ND315M            | 823375     |
| 110           | 150 | ND315S            | 686325     | ND315M            | 918125     |
| 125           | 175 | ND315M            | 781870     | ND315L            | 1000725    |
| 132           | 180 | ND315M            | 804190     | ND315LX           | 1071790    |
| 160           | 215 | ND315LX           | 943550     | ND315LX           | 1115985    |
| 180           | 240 | ND315LX           | 1003590    | ND355LX           | 1230835    |
| 200           | 270 | ND315LX           | 1145400    | ND355LX           | 1323485    |
| 225           | 300 | ND355LX           | 1358310    | ND355LX           | 1363220    |
| 250           | 335 | ND355LX           | 1397745    | ND355LX           | 1457550    |

## Non-Std

### Features

EN24 Shaft  
Roller bearing at DE (for 4 & 6 Pole)  
Space Heater (280 Frame & Above)  
PTC150C-3 Nos (280 Frame & Above)  
VPI & Epoxy gel coat on overhang  
Standard Paint Shade : RAL7034 (Yellow Grey)



**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE DC BRAKE MOTORS**

MOUNTING : FOOT

VOLTAGE : 415 VOLTS  $\pm$  10%

FREQUENCY : 50Hz  $\pm$  5%

COMBINED : 10% (ABSOLUTE SUM)

AMBIENT : 50°C

PROTECTION : IP55

EFFICIENCY : IE2

DUTY : S4

INSULATION : CLASS F, TEMP RISE-  
CLASS B

BRAKE TYPE : DC

**Brake - KIBOSH Series ( CI )**

| OUTPUT Rating |      | 4 Pole / 1500 RPM |            |            | 6 Pole / 1000 RPM |            |            |
|---------------|------|-------------------|------------|------------|-------------------|------------|------------|
| KW            | HP   | Frame             | Brake Size | List Price | Frame             | Brake Size | List Price |
| 0.37          | 0.50 | -                 | -          | -          | NG80              | 8          | 29150      |
| 0.55          | 0.75 | NG80              | 8          | 28470      | NG80              | 8          | 29475      |
| 0.75          | 1.0  | NG80              | 8          | 28560      | NG90S             | 10         | 38020      |
| 1.1           | 1.5  | NG90S             | 10         | 37135      | NG90L             | 10         | 39440      |
| 1.5           | 2.0  | NG90L             | 10         | 38375      | NG100L            | 12         | 46680      |
| 2.2           | 3.0  | NG100L            | 12         | 46060      | NG112M            | 14         | 52060      |
| 3.0           | 4.0  | NG100L            | 12         | 47065      | NG132S            | 16         | 72755      |
| 3.7           | 5.0  | NG112M            | 14         | 53040      | NG132S            | 16         | 74410      |
| 5.5           | 7.5  | NG132S            | 16         | 72045      | NG132M            | 16         | 78725      |
| 7.5           | 10.0 | NG132M            | 16         | 77870      | ND160M            | 18         | 126620     |
| 9.3           | 12.5 | NG132M            | 16         | 93270      | ND160L            | 20         | 157155     |
| 9.3           | 12.5 | ND160M            | 18         | 93270      | -                 | -          | 157155     |
| 11            | 15   | ND160M            | 20         | 124580     | ND160L            | 20         | 161355     |
| 15.0          | 20   | ND160L            | 20         | 158695     | ND180L            | 25         | 240170     |
| 18.5          | 25   | ND180M            | 25         | 234225     | ND200L            | 25         | 290690     |
| 22            | 30   | ND180L            | 25         | 246760     | ND200L            | 25         | 303375     |
| 30            | 40   | ND200L            | 25         | 306685     | ND225M            | 25         | On Request |
| 37            | 50   | ND225S            | 25         | On Request | -                 | -          | On Request |
| 45            | 60   | ND225M            | 25         | On Request | -                 | -          | On Request |

**ALP for Separate Brakes for Brake Motors - refer special feature**

Standard Paint Shade : RAL7034 (Yellow Grey)



**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE DC BRAKE MOTORS**

|                                                                           |                                         |
|---------------------------------------------------------------------------|-----------------------------------------|
| AMBIENT : 50°C                                                            | PROTECTION : IP55                       |
| MOUNTING : FOOT                                                           | EFFICIENCY : IE2                        |
| VOLTAGE : 415 VOLTS ± 10%                                                 | RATING : S4                             |
| FREQUENCY : 50Hz ± 5%                                                     | INSULATION : CLASS F, TEMP RISE-CLASS B |
| COMBINED : 10% (ABSOLUTE SUM)                                             | BRAKE TYPE : DC                         |
| APPLICABLE STANDARDS : IS/IEC 60034-30-1, IS 12615 : 2018; IS1231, IS2223 |                                         |

**Brake - KIBOSH Series ( Aluminium Series )**

| OUTPUT Rating |      | 4 Pole / 1500 RPM |            |            | 6 Pole / 1000 RPM |            |            |
|---------------|------|-------------------|------------|------------|-------------------|------------|------------|
| KW            | HP   | Frame             | Brake Size | List Price | Frame             | Brake Size | List Price |
| 0.37          | 0.50 | GD71              | 6          | 24805      | GD80              | 8          | 28205      |
| 0.55          | 0.75 | GD80              | 8          | 27555      | GD80              | 8          | 28530      |
| 0.75          | 1.0  | GD80              | 8          | 27645      | GD90S             | 10         | 36780      |
| 1.1           | 1.5  | GD90S             | 10         | 35890      | GD90L             | 10         | 38170      |
| 1.5           | 2.0  | GD90L             | 10         | 37135      | GD100L            | 12         | 45175      |
| 2.2           | 3.0  | GD100L            | 12         | 49520      | GD112M            | 14         | 50375      |
| 3.7           | 5.0  | GD112M            | 14         | 51325      | GD132S            | 16         | 71985      |
| 5.5           | 7.5  | GD132S            | 16         | 77455      | GD132M            | 16         | 84640      |
| 7.5           | 10.0 | GD132M            | 16         | 83695      | -                 | -          | -          |

**ALP for Separate Brakes for Brake Motors - refer special feature**

Standard Paint Shade : RAL7034 (Yellow Grey)

**TOTALLY ENCLOSED FAN COOLED FIRE FIGHTING MOTORS**

|           |                       |            |                              |
|-----------|-----------------------|------------|------------------------------|
| MOUNTING  | : FOOT                | PROTECTION | : IP55                       |
| VOLTAGE   | : 415 VOLTS $\pm$ 10% | RATING     | : S1                         |
| FREQUENCY | : 50Hz $\pm$ 5%       | DUTY       | : Continuous                 |
| COMBINED  | : 10% (ABSOLUTE SUM)  | INSULATION | : CLASS F, TEMP RISE-CLASS F |
| AMBIENT   | : 50°C                | PAINT      | : RED                        |

**FIRE FIGHTING Series**

| FIRE FIGHTING |         |        |
|---------------|---------|--------|
| FF Catref     | Frame   | ALP    |
| 5.50KNE2-FF   | ND112M  | 25850  |
| 9.30KNE2-FF   | ND132M  | 61225  |
| 11KNE2-FF     | ND132M  | 68835  |
| 15KE2-FF      | ND160M  | 80325  |
| 22KE2-FF      | ND160L  | 109835 |
| 30KE2-FF      | ND180L  | 161270 |
| 37KE2-FF      | ND200L  | 206940 |
| 45KE2-FF      | ND200L  | 251970 |
| 55KE2-FF      | ND225M  | 301515 |
| 60KE2-FF      | ND225M  | 316595 |
| 75KE2-FF      | ND250MX | 376535 |
| 90KE2-FF      | ND280M  | 515810 |

Temp.Rise will be Limited to F class

For Ratings apart from above kindly contact division

**TOTALLY ENCLOSED FAN COOLED MOTORS FOR COMPRESSOR APPLICATION**

|           |                       |                |                              |
|-----------|-----------------------|----------------|------------------------------|
| MOUNTING  | : FOOT                | PROTECTION     | : IP55                       |
| VOLTAGE   | : 415 VOLTS $\pm$ 10% | RATING         | : S1                         |
| FREQUENCY | : 50Hz $\pm$ 5%       | DUTY           | : Continuous                 |
| COMBINED  | : 10% (ABSOLUTE SUM)  | INSULATION     | : CLASS F, TEMP RISE-CLASS F |
| AMBIENT   | : 50°C                | SERVICE FACTOR | : 1.2                        |

**COMPRESSOR SERIES**

| COMPRESSOR SERIES                                    |      |         |            |
|------------------------------------------------------|------|---------|------------|
| kW                                                   | Pole | Frame   | LIST PRICE |
| 7.5                                                  | 2    | NG132M  | 72225      |
| 11                                                   | 2    | PC132M  | 86590      |
| 15                                                   | 2    | ND160L  | 100900     |
| 22                                                   | 2    | ND160L  | 128925     |
| 30                                                   | 2    | ND200L  | 251520     |
| 37                                                   | 2    | ND200L  | 264735     |
| 45                                                   | 2    | ND200L  | 294385     |
| 55                                                   | 2    | ND250MX | 422660     |
| 75                                                   | 2    | ND250MX | 445095     |
| 150                                                  | 2    | ND315LX | 1101175    |
| 11                                                   | 4    | ND160M  | 113550     |
| 15                                                   | 4    | ND160L  | 124905     |
| 18.5                                                 | 4    | ND180L  | 157895     |
| 22                                                   | 4    | ND180L  | 192900     |
| 55                                                   | 4    | ND250MX | 491270     |
| 75                                                   | 4    | PC250M  | 551610     |
| 90                                                   | 4    | ND280M  | 649965     |
| 132                                                  | 4    | ND315LX | 1067800    |
| 160                                                  | 4    | ND315LX | 1220340    |
| 200                                                  | 4    | ND355LX | 1576275    |
| Temp.Rise will be Limited to F class                 |      |         |            |
| For Ratings apart from above kindly contact division |      |         |            |

**TOTALLY ENCLOSED AIR OVER SMOKE EXTRACTION MOTORS**

MOUNTING : FOOT  
 VOLTAGE : 415 VOLTS  $\pm$  10%  
 FREQUENCY : 50Hz  $\pm$  5%  
 Paint: RAL7032 (PEBBLE GREY)  
 CI B3 IE2 TEAO ND Series Motor. T.BOX at TOP and 1m Flying leads

PROTECTION : IP55  
 RATING : S1/S2  
 Temperature : 300°C – 2Hrs  
 Insulation : H Class

**Smoke Extraction Motors**

| OUTPUT |       | 2 POLE : 3000 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | FRAME             | CATREF            | List Price |
| 0.75   | 1.00  | ND80              | 0.75KNE2TOP_SM3TE | 14755      |
| 1.10   | 1.50  | ND80              | 1.1KNE2TOP_SM3TE  | 16055      |
| 1.5    | 2.00  | ND90S             | 1.5KNE2TOP_SM3TE  | 18450      |
| 2.2    | 3.00  | ND90L             | 2.2KNE2TOP_SM3TE  | 23625      |
| 3.7    | 5.00  | ND100L            | 3.7KNE2TOP_SM3TE  | 29360      |
| 5.5    | 7.50  | ND132S            | 5.5KNE2TOP_SM3TE  | 47835      |
| 7.5    | 10.00 | ND132S            | 7.5KNE2TOP_SM3TE  | 54310      |
| 18.5   | 25    | ND160L            | 18.5KE2TOP_SM3TE  | 133390     |
| 22     | 30    | ND180M            | 22KE2TOP_SM3TE    | 149855     |
| 30     | 40    | ND200L            | 30KE2TOP_SM3TE    | 220005     |
| 37     | 50    | ND200L            | 37KE2TOP_SM3TE    | 267100     |

| OUTPUT |       | 6 POLE : 1000 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | FRAME             | CATREF            | List Price |
| 0.75   | 1.00  | ND90S             | 0.75KNE6TOP_SM3TE | 18510      |
| 1.10   | 1.50  | ND90L             | 1.1KNE6TOP_SM3TE  | 20310      |
| 1.50   | 2.00  | ND100L            | 1.5KNE6TOP_SM3TE  | 29270      |
| 2.20   | 3.00  | ND112M            | 2.2KNE6TOP_SM3TE  | 31190      |
| 3.70   | 5.00  | ND132S            | 3.7KNE6TOP_SM3TE  | 48545      |
| 5.50   | 7.50  | ND132M            | 5.5KNE6TOP_SM3TE  | 59720      |
| 7.50   | 10.00 | ND160M            | 7.5KE6TOP_SM3TE   | 91145      |
| 11     | 15    | ND160L            | 11KE6TOP_SM3TE    | 112165     |
| 15     | 20    | ND180L            | 15KE6TOP_SM3TE    | 146515     |
| 18.5   | 25    | ND200L            | 18.5KE6TOP_SM3TE  | 209185     |
| 22     | 30    | ND200L            | 22KE6TOP_SM3TE    | 225240     |

| OUTPUT |       | 4 POLE : 1500 RPM |                   |            |
|--------|-------|-------------------|-------------------|------------|
| KW     | HP    | FRAME             | CATREF            | List Price |
| 0.55   | 0.75  | ND80              | 0.55KNE4TOP_SM3TE | 15110      |
| 0.75   | 1.00  | ND80              | 0.75KNE4TOP_SM3TE | 15315      |
| 1.10   | 1.50  | ND90S             | 1.10KNE4TOP_SM3TE | 18950      |
| 1.50   | 2.00  | ND90L             | 1.50KNE4TOP_SM3TE | 22975      |
| 2.20   | 3.00  | ND100L            | 2.20KNE4TOP_SM3TE | 27375      |
| 3.70   | 5.00  | ND112M            | 3.70KNE4TOP_SM3TE | 34680      |
| 5.50   | 7.50  | ND132S            | 5.50KNE4TOP_SM3TE | 48190      |
| 7.50   | 10.00 | ND132M            | 7.50KNE4TOP_SM3TE | 56940      |
| 11     | 15    | ND160M            | 11KE4TOP_SM3TE    | 92860      |
| 15     | 20    | ND160L            | 15KE4TOP_SM3TE    | 114615     |
| 18.5   | 25    | ND180M            | 18.5KE4TOP_SM3TE  | 146660     |
| 22     | 30    | ND180L            | 22KE4TOP_SM3TE    | 160645     |
| 30     | 40    | ND200L            | 30KE4TOP_SM3TE    | 221635     |

**CG Alternator -Brushless Type--1500 RPM**

**Screen Protected Drip Proof with enclosure conforming to protection IP23 ,Hor Foot Mounted(B3) ,1500 RPM , 4 Pole , 0.8 PF (lag) , Volt Regulation +/-1% , Single Bearing suitable for operations upto 40 Deg C Amb Temp& 1000 mtr altitude**

| 3 PHASE - 415V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 5.0            | G1R132MR  | 68145      |
| 7.5            | G1R160C1F | 70775      |
| 10.0           | G1R160C1E | 75920      |
| 12.5           | G1R160C2A | 80945      |
| 15.0           | G1R160C2B | 87890      |
| 20.0           | G1R160C3B | 102850     |
| 25.0           | G1R160C4C | 117160     |
| 30.0           | G1R160C5A | 133095     |
| 35.0           | G1R200SE  | 143885     |
| 40.0           | G1R200SE  | 155765     |
| 45             | G1R200SA  | 170225     |
| 50             | G1R200SB  | 176700     |
| 62.5           | G1R200SC  | 207825     |
| 63             | G1R200SC  | 207825     |
| 75             | G1R200MB  | 228285     |
| 82.5           | G1R200MD  | 233075     |
| 90             | G1R200MDX | 274905     |
| 100            | G1R250SB  | 275850     |
| 110            | G1R250SD  | 291460     |
| 125            | G1R250SD  | 304140     |
| 140            | G1R250MA  | 334145     |
| 160            | G1R250MB  | 363120     |
| 180            | G1R250LB  | 381950     |
| 200            | G1R250LD  | 406900     |
| 225            | G1R315SE  | 455385     |
| 250            | G1R315SE  | 490385     |
| 275            | G1R315SA  | 522550     |
| 300            | G1R315SB  | 558850     |
| 320            | G1R315SB  | 589300     |
| 380            | G1R315MB  | 677310     |
| 400            | G1R355SB  | 736905     |
| 415            | G1R355SB  | 738680     |
| 437.5          | G1R355SE  | 744920     |
| 450            | G1R355SE  | 783940     |
| 500            | G1R355SE  | 854240     |
| 550            | G1R355ME  | 910320     |
| 600            | G1R355MA  | 989400     |
| 625            | G1R355MA  | 1004860    |
| 650            | G1R355MB  | 1122020    |
| 680            | G1R400SB  | 1486995    |

| 1 PHASE - 240V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 5              | G1R160C1F | 69120      |
| 7.5            | G1R160C1E | 79320      |
| 10             | G1R160C2A | 88600      |
| 12.5           | G1R160C3B | 103325     |
| 15             | G1R160C4C | 116950     |
| 17.5           | G1R160C5C | 127120     |
| 20             | G1R160C5A | 133715     |
| 25             | G1R200SF  | 157750     |
| 30             | G1R200SA  | 173595     |
| 35             | G1R200SC  | 196975     |
| 40             | G1R200SD  | 214300     |
| 45             | G1R200MB  | 243270     |
| 50             | G1R200MD  | 272275     |
| 63             | G1R250SD  | 328470     |
| 82.5           | G1R250LB  | 397055     |

| 3 PHASE - 415V |          |            |
|----------------|----------|------------|
| KVA            | FRAME    | List Price |
| 750            | G1R400SC | 1506360    |
| 1010           | G1R400MA | 1797285    |
| 1250           | G1R400MB | 2086230    |
| 1400           | G1R450SB | 2644990    |
| 1500           | G1R450SC | 2674550    |
| 1750           | G1R450MA | 3484655    |
| 1900           | G1R450MB | 3539935    |
| 2000           | G1R450LA | 3621170    |
| 2250           | G1R450LB | 3886495    |

**CG Alternator -Brushless Type--3000 RPM**

**Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 3000 RPM, 2 Pole, 0.8 PF (lag), Voltage Regulation +/-1%, Single Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude. Temp rise limited to class 'H' limits**

| 3 PHASE - 415V |             |            |
|----------------|-------------|------------|
| KVA            | FRAME       | List Price |
| 5              | G1R132MR/2  | 69740      |
| 7.5            | G1R132MA/2  | 70745      |
| 10             | G1R132MC/2  | 74175      |
| 12.5           | G1R160S1A/2 | 79110      |
| 15             | G1R160S1A/2 | 87890      |
| 20             | G1R160SB/2  | 102850     |
| 25             | G1R160SC/2  | 117160     |
| 30             | G1R160MA/2  | 133095     |

| 1 PHASE - 240V |             |            |
|----------------|-------------|------------|
| KVA            | FRAME       | List Price |
| 5              | G1R132MR/2  | 69090      |
| 6              | G1R132MA/2  | 73435      |
| 7.5            | G1R132MC/2  | 79320      |
| 10             | G1R160S1A/2 | 87775      |
| 12.5           | G1R160SB/2  | 103355     |
| 15             | G1R160SC/2  | 116950     |

**CG Dual Regulation Alternators - Brushless Type** ---1500 RPM - D - Series Alternators for Mini hydro & emergency application. Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 1500 RPM, 4 Pole, 0.8 PF (lag), Dual Voltage Regulation  $\pm 2.5\%$ , Double Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude, with H class insulation & class F temp rise

| 3 PHASE - 415V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 12.5           | G2R160SB  | 103175     |
| 15.0           | G2R160SB  | 113850     |
| 20             | G2R160MC  | 185035     |
| 25.0           | G2R160M2A | 206350     |
| 30             | G2R200SE  | 227695     |
| 35             | G2R200SE  | 236620     |
| 40             | G2R200SB  | 245520     |
| 50             | G2R200SC  | 263375     |
| 63             | G2R200MB  | 264795     |
| 75             | G2R250SB  | 313100     |
| 100            | G2R250SD  | 361465     |
| 110            | G2R250MA  | 380115     |
| 125            | G2R250MB  | 402705     |
| 145            | G2R250LB  | 437230     |
| 160            | G2R250LD  | 471730     |
| 180            | G2R315SE  | 517525     |
| 200            | G2R315SE  | 563345     |

### CG Alternators - Slip Ring Type USTAD Series ---1500 RPM

Screen Protected Drip Proof with enclosure conforming to protection IP 23, Horizontal Foot Mounted (B3), 1500 RPM, 4 Pole, 0.8 PF (lag), Voltage Regulation +/-5%, Double Bearing suitable for operations upto 40 Deg C Ambient Temperature & 1000 mtr altitude

| 3 PHASE - 415V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 5              | G2S132MR  | 44050      |
| 6.5            | G2S132MR  | 44405      |
| 7.5            | G2S132MA  | 56200      |
| 10             | G2S132MC  | 62825      |
| 12.5           | G2S132MD  | 69240      |
| 15             | G2S160S1B | 74350      |
| 20             | G2S160SC  | 101045     |
| 25             | G2S160MC  | 110450     |
| 30             | G2S160M2R | 124045     |
| 32.5           | G2S160M2R | 127300     |
| 35             | G2S200SE  | 134455     |
| 40             | G2S200SE  | 143350     |
| 45             | G2S200SB  | 159640     |
| 50             | G2S200SB  | 164280     |
| 63             | G2S200SD  | 194170     |
| 75             | G2S200MD  | 216960     |
| 82.5           | G2S200MD  | 224945     |

| 1 PHASE - 240V |           |            |
|----------------|-----------|------------|
| KVA            | FRAME     | List Price |
| 5              | G2S132MA  | 50730      |
| 6              | G2S132MC  | 57795      |
| 7.5            | G2S160S1E | 62880      |
| 10             | G2S160S1B | 71515      |
| 12.5           | G2S160SC  | 87535      |
| 15             | G2S160MC  | 103205     |
| 20             | G2S200SE  | 139950     |

| UPF ALTERNATORS |           |            |
|-----------------|-----------|------------|
| 1 PHASE - 240V  |           |            |
| KVA             | FRAME     | List Price |
| 5               | G2S132MA  | 52770      |
| 6               | G2S132MC  | 59010      |
| 7.5             | G2S132MD  | 62880      |
| 10              | G2S160S1E | 71515      |
| 15.0            | G2S160S1B | 98535      |

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| CASH EXTRA FOR SPECIAL FEATURES : ALTERNATORS                                                                                                                                                                                                                                                                                                         |             |           |         |         |          |           |         |           |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|---------|---------|----------|-----------|---------|-----------|-----|
| 1 ) Additional prices for accessories                                                                                                                                                                                                                                                                                                                 |             |           |         |         |          |           |         |           |     |
| Frame                                                                                                                                                                                                                                                                                                                                                 | 132         | 160       | 200     | 250     | 315      | 355       | 400SC   | 400MA/E/B | 450 |
| SCM Aux Winding                                                                                                                                                                                                                                                                                                                                       | Not Offered | 2400/-    | 6000/-  | STD     | STD      | STD       | STD     | STD       | STD |
| Spaceheater                                                                                                                                                                                                                                                                                                                                           | Not Offered | 3000/-    | 4000/-  |         | 6000/-   | 7200/-    |         | STD       | STD |
| RTD ( 2 per phase)                                                                                                                                                                                                                                                                                                                                    | Not Offered |           |         | 10000/- | 20000/-  |           |         | STD       | STD |
| Thermister                                                                                                                                                                                                                                                                                                                                            | Not Offered |           | 13500/- |         |          | 16500/-   |         |           |     |
| BTD Rs. Each                                                                                                                                                                                                                                                                                                                                          | Not Offered |           |         |         | 10000/-  |           |         | STD       | STD |
| Digital AVR                                                                                                                                                                                                                                                                                                                                           | Not Offered |           |         |         | 190000/- |           |         |           |     |
| Digital AVR + 1 Auto on plate                                                                                                                                                                                                                                                                                                                         | Not Offered |           |         |         | 290000/- |           |         |           |     |
| External PMG                                                                                                                                                                                                                                                                                                                                          | Not Offered |           |         |         | 40000/-  |           |         |           |     |
| Supply side CT's                                                                                                                                                                                                                                                                                                                                      | Not Offered |           | 5000/-  |         | 10000/-  |           | 20000/- |           |     |
| No Of leads : 12                                                                                                                                                                                                                                                                                                                                      | Not Offered | 5% on Net |         |         |          |           |         |           |     |
| Special Voltage                                                                                                                                                                                                                                                                                                                                       | Not Offered | 5% on Net |         |         |          |           |         |           |     |
| Marine treatment                                                                                                                                                                                                                                                                                                                                      | 2% on Net   |           |         |         |          | 5% on Net |         |           |     |
| Epoxy Paint                                                                                                                                                                                                                                                                                                                                           | 5000/-      |           | 6000/-  |         | STD      | STD       | STD     | STD       | STD |
| RFI Kit                                                                                                                                                                                                                                                                                                                                               | 4400/-      |           |         |         |          |           |         |           |     |
| AVR filter                                                                                                                                                                                                                                                                                                                                            | 5000/-      |           |         |         |          |           |         |           |     |
| AVR droop CT                                                                                                                                                                                                                                                                                                                                          | Not Offered | 3500/-    |         |         |          | STD       | STD     | STD       | STD |
| AVR with Analouge input                                                                                                                                                                                                                                                                                                                               | Not Offered |           | 4000/-  | STD     | STD      | STD       | STD     | STD       | STD |
| NOTE :<br>RTD , BTD, Space Heaters are without controls.<br>DC Injection Parallel operation Facility standard from 100 kVA And Above<br>Droop CT facility 100 kVA to 380 kVA and 400 kVA to 2250 kVA Factory fitted CT<br>For supply side CT's customer needs to give rating of the CT's<br>Upto 250 Frame alternators are with AL shell construction |             |           |         |         |          |           |         |           |     |

| 2) Inspection Charges                                                                                                                                                                                                               |                                                                                                          |        |         |         |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------|---------|---------|---------|
| Type Test                                                                                                                                                                                                                           | 6000/-                                                                                                   | 9600/- | 12000/- | 15000/- | 20000/- |
| Routine Test                                                                                                                                                                                                                        | 2400/-                                                                                                   | 4800/- |         | 6000/-  | 8000/-  |
| * Type Test :Upto 355 Frame direct loading method and 400/450 Frame indirect loading method. Before Offering Get the QAP for Type test and routine test . Indirect loading method testing without regulation and dip and rise test. |                                                                                                          |        |         |         |         |
| Notes :                                                                                                                                                                                                                             | 1) For Prices of other accessories and spares we have separate Price List.                               |        |         |         |         |
|                                                                                                                                                                                                                                     | 2) All prices are valid delivery ex-our godown.                                                          |        |         |         |         |
|                                                                                                                                                                                                                                     | 3) All Alternators comply with IS 13364, IS 4722:1992 for specifications of rotating electric machines . |        |         |         |         |
|                                                                                                                                                                                                                                     | 4) GST extra at actual.                                                                                  |        |         |         |         |
|                                                                                                                                                                                                                                     | 5) Inspection charges are for standard Alternators .                                                     |        |         |         |         |
|                                                                                                                                                                                                                                     | 6) Upto 200kVA Alternators are in Aluminium Stator frames.                                               |        |         |         |         |
|                                                                                                                                                                                                                                     | 7) For non-standard, marine duty Alternators , please contact our nearest Branch Office.                 |        |         |         |         |
|                                                                                                                                                                                                                                     | 8) For 2P Alternators - contact division before taking the order .                                       |        |         |         |         |
|                                                                                                                                                                                                                                     | 9)The list prices are maximum recommended prices. However, prices lower than this can be charged.        |        |         |         |         |
|                                                                                                                                                                                                                                     | 10) The list prices are subject to change without prior notice.                                          |        |         |         |         |

**Laminated Yoke DC Motors** :: Screen protected Drp Proof with enclosure confirming to protection IP 23, Horizontal foot mounted (B3), base speed 1500 RPM, Blower cooled (IC06) suitable for operations upto 40 Degree C Ambient Temperature & 1000 mtr altitude, Insulation class F with temperature rise limited to class 'F' limits for Frame 100S to 132L, Insulation class H with temperature rise limited to class 'H' for Frame 160A to 280M, Armature voltage 440V & Field voltage 220V for frame 100S to 280M

| LAMINATED YOKE DC MOTORS |            |            |
|--------------------------|------------|------------|
| KW                       | ASBG Frame | List Price |
| 2.2                      | 100S       | 55580      |
| 3.7                      | 100M       | 58715      |
| 5.5                      | 100L       | 67435      |
| On enquiry               | 112S       | 88130      |
| 7.5                      | 112M       | 91085      |
| On enquiry               | 112L       | 100810     |
| 11.0                     | 132S       | 102645     |
| 15.0                     | 132M       | 121210     |
| 22.5                     | 132L       | 133595     |
| 30.0                     | 160A       | 210280     |
| 40.0                     | 160S       | 233190     |
| 50.0                     | 160M       | 263640     |
| 56.0                     | 160M       | 277210     |
| 60.0                     | 160L       | 302370     |
| On enquiry               | 180A       | 315580     |
| 75.0                     | 180S       | 364685     |
| 100.0                    | 180M       | 386740     |
| On enquiry               | 200A       | 418195     |
| 115.0                    | 200S       | 457750     |
| On enquiry               | 200SX      | 525150     |
| 150.0                    | 200M       | 572835     |
| On enquiry               | 225A       | 606270     |
| 180.0                    | 225S       | 678670     |
| On enquiry               | 225SX      | 750005     |
| 225.0                    | 225M       | 776430     |
| On enquiry               | 250A       | 876710     |
| 295.0                    | 250S       | 958920     |

| SOLID YOKE DC MOTORS |            |
|----------------------|------------|
| Frame Size           | List Price |
| AES160U              | 199340     |
| AES160A              | 215870     |
| AES160S              | 258645     |
| AES160M              | 313010     |
| AFS180U              | 230680     |
| AFS180A              | 255365     |
| AFS180S              | 296545     |
| AFS180M              | 350880     |
| AFS180SPL-S          | 355135     |
| AFS180SPL-M          | 380530     |
| AFS180SPL-L          | 389575     |
| AFS180SPL-X          | 439655     |
| AFS225S              | 472765     |
| AFS225M              | 576560     |
| AFS225L              | 634205     |
| AFS225LX             | 733565     |
| AFS225X              | 728095     |
| AFS250S              | 806055     |
| AFS250M              | 850605     |
| AFS250L              | 860450     |
| AFS280A              | 889570     |
| AFS280S              | 935685     |
| AFS280M              | 1074010    |
| AFS315SX             | 1363780    |
| AFS315S              | 1471625    |
| AFS315M              | 1545945    |
| AFS315L              | 1629815    |

| LAMINATED YOKED DC MOTORS |            |            |
|---------------------------|------------|------------|
| KW                        | ASBG Frame | List Price |
| On enquiry                | 250SX      | 986295     |
| 325.0                     | 250M       | 1010330    |
| On enquiry                | 250MX      | 1015620    |
| On enquiry                | 250L       | 1043765    |
| 400.0                     | 280S       | On Request |
| 450.0                     | 280M       | On Request |
| On enquiry                | 280MX      | 1282600    |
| On enquiry                | 280L       | 1343205    |
| On enquiry                | 280LX      | 1399075    |
| On enquiry                | 280LY      | 1469465    |
|                           |            |            |

| LAMINATED YOKED DC MOTORS |            |            |
|---------------------------|------------|------------|
| KW                        | ASBG Frame | List Price |
| On enquiry                | 315S       | 1497815    |
| On enquiry                | 315M       | 1534265    |
| On enquiry                | 315L       | 1688700    |
| On enquiry                | 315LX      | 1806535    |
| On enquiry                | 315LL      | 1957630    |
| On enquiry                | 355S       | 2146980    |
| On enquiry                | 355M       | 2175745    |
| On enquiry                | 355L       | 2292780    |
| On enquiry                | 355LX      | 2418390    |
| On enquiry                | 400S       | 2483225    |
| On enquiry                | 400M       | 2540310    |
| On enquiry                | 400L       | 2759515    |

**Laminated Yoke DC Motors** :: Screen protected Drp Proof with enclosure confirming to protection IP 23,Horizontal foot mounted (B3), base speed 1500 RPM, Blower cooled (IC06) suitable for operations upto 40 Degree C Ambient Temperature & 1000 mtr altitude,Insulation class F with temperature rise limited to class 'F' limits for Frame 100S to 132L,Insulation class H with temperature rise limited to class 'H' for Frame 160A to 280M,Armature voltage 440V & Field voltage 220V for frame 100S to 280M

| Mill Duty DC Motors ( Non Split Type ) |            |                   |
|----------------------------------------|------------|-------------------|
| Frame Size                             | List Price | LP(Forced Cooled) |
| ABS802                                 | 422420     | 496740            |
| ABS803                                 | 523760     | 603165            |
| ABS804                                 | 658920     | 762835            |
| ABS806                                 | 963030     | 1064370           |
| ABS808                                 | 1131950    | 1277250           |
| ABS810                                 | 1300930    | 1454655           |
| ABS812                                 | 2189550    | 2412540           |
| ABS814                                 | 2595000    | 2856065           |
| ABS816                                 | 3013990    | 3281795           |

**Laminated Yoke DC Motors** :: Screen protected Drp Proof with enclosure confirming to protection IP 23, Horizontal foot mounted (B3), base speed 1500 RPM, Blower cooled (IC06) suitable for operations upto 40 Degree C Ambient Temperature & 1000 mtr altitude, Insulation class F with temperature rise limited to class 'F' limits for Frame 100S to 132L, Insulation class H with temperature rise limited to class 'H' for Frame 160A to 280M, Armature voltage 440V & Field voltage 220V for frame 100S to 280M

### CASH EXTRAS FOR SPECIAL FEATURES

#### 1. Additional Prices for Accessories :

|                |                    |            |            |                  |            |            |     |            |             |     |
|----------------|--------------------|------------|------------|------------------|------------|------------|-----|------------|-------------|-----|
| Frame          | 100-132            | 160        | 180        | 200              | 225        | 250        | 280 | 315        | 355         | 400 |
| Shaft Extn     | 5% of List Price   |            |            |                  |            |            |     |            |             |     |
| DE Flange      | 7.5% of List Price |            |            | 5% of List Price |            |            |     |            | Not Offered |     |
| RTD            | Rs.7000/-          |            |            |                  |            | Rs 10000/- |     |            | Rs 12000/-  |     |
| BTD            | Not offered        |            | Rs 12000/- |                  |            |            |     |            |             |     |
| Thermisters    | RS.2100/-          | Rs. 4200/- |            |                  |            |            |     |            |             |     |
| Space Heater   | Rs.2000/-          | Rs.4000/-  |            |                  |            |            |     |            |             |     |
| Blower Filter  | Rs. 6000/-         |            | Rs.10000/- |                  | Rs.14000/- |            |     |            |             |     |
| Non Std Paint  | Rs.5000/-          | Rs.6000/-  |            |                  |            |            |     | Rs.13500/- |             |     |
| Cab Glands/Run | Rs.1500/-          |            | Rs.2500/-  |                  |            | Rs.3200/-  |     |            |             |     |

#### 2. Inspection Charges

|                                                                                                                          |            |            |  |
|--------------------------------------------------------------------------------------------------------------------------|------------|------------|--|
| Routine Test                                                                                                             | RS 4000 /- | Rs.8000/-  |  |
| Type Test                                                                                                                | RS 8000 /- | Rs.16000/- |  |
| - RTD , BTD , Space Heaters and Thermistors are without controls .                                                       |            |            |  |
| <b>NOTES:</b>                                                                                                            |            |            |  |
| 1) List prices are valid for delivery for delivery ex-godown.                                                            |            |            |  |
| 2) GST extra as applicable.                                                                                              |            |            |  |
| 3) Prices are subject to change without prior notice.                                                                    |            |            |  |
| 4) The list prices are maximum recommended prices, However, prices lower than this can be charged.                       |            |            |  |
| 5) Condition for sales : The price list is subjected to our standard ' General terms and conditions of Tender & Sale ' . |            |            |  |
| 6) For more details contact our nearest office.                                                                          |            |            |  |

#### TERMS OF SALE

- 1) This price list supersedes all our Pricelist issued before.
- 2) For any extra feature not approved please contact nearest CG sales office and refer spare price list for other accessories and spares.
- 3) Delivery : List Prices are ex-works/ex-godown and excluding GST which will be charged extra at actuals.
- 4) Conditions for Sales : The Price List is subjected to our standard "General Terms and Conditions of Tender and Sale" and prices are subject to revision without prior notice.
- 5) Prices are in INR ( )

#### 6) General :

- a) Due to improvement being made from time, frame sizes indicated above are provisional and subject to change without prior notice.
- b) The list prices are maximum recommended prices. However prices lower than this can be charged.
- c) The list prices are subjected to change without prior notice.
- d) Motor outputs are given in kW & HP. However KW is binding & HP is approximate
- e) For more details please contact us CG sales office.

