

# Presenting Next generation IE5 motors



## Price List

LTM15 - Dt. 18<sup>th</sup> Jan 2021



**INDEX:**

1	Special Features And Accessories Offered For AC Motors
2	Super Premium Efficiency Motors - IE4
3	Premium Efficiency Motors - IE3
4	Premium Efficiency Motors - IE3 Aluminum
5	High Efficiency Motors - IE2
6	High Efficiency Motors -IE2 Aluminum
7	Smart Motors - High Output IE2 & IE3
8	Smart Motors - High Output IE3 VFD Operated
9	Premium Efficiency Flameproof Motors - IE3 FLP
10	High Efficiency Flameproof Motors - IE2 FLP
11	UL Listed High Efficiency Motors - IE2
12	NEMA Premium Motors
13	TEFC Slip Ring Motors
14	SPDP Slip Ring Motors
15	Crane Duty Motors - Squirrel Cage (Lower Frame)
16	Crane Duty Motors - Squirrel Cage (IE2 Eff )
17	Crane Duty Motors - Slip Ring
18	Textile Application Motors
19	Crusher Duty Motors
20	Brake Motors - KIBOSH Cast Iron Series
21	Brake Motors - KIBOSH Aluminum Series
22	Fire Fighting Motors Series
23	Motors for Compressor Application
24	Smoke Extraction Motors
25	Alternators
26	DC Motors
27	Terms And Conditions & Service Plus Performance



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

- 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> All types of mounting other than B3 (Foot) for all types of motors Extra loading on Foot mounted ALP Frames 63 to 160 180 to 450 for 400 only B3,B35 & V1 is possible to offer For 450/500 only B3 & B35 is possible to offer Please refer catalogue baseline or contact CG branch office	3% 5% 5% 5%
2.2	<b>FORCED COOLING ARRANGEMENT * (ONLY SAFE AREA MOTORS)</b> <b>NOT APPLICABLE FOR 2 POLE MOTORS</b> ND 160 / 180 ND 200 / 225 ND 250 ND 280 ND 315 S/M/L ND 355 / NG355 ND 400 / NG400 / ND450 / ND500	Rs 6000/- Rs 14500/- Rs 22000/- Rs 27000/- Rs 30000/- Rs 37000/- Rs 50000/-
2.3	<b>SPECIAL FIXING DIMENSIONS OTHER THAN IS 1231/2223 / IEC 60072.</b> To be offered for TEFC SCR / SR motors for frame 160 and above. (Shall be offered with fabricated stator body). Please refer to CG branch office for concurrence	20 % ALP 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% (Delivery 4 weeks extra to STD)
2.5	<b>DOUBLE TERMINAL BOX FOR SLIPRING MOTORS</b> Frames 315, 355 , 400 & 450 STD TEFC	Rs. 7000/-
2.6	<b>FLYING LEADS ( 1 meter &amp; 6 leads), W/O T. Box</b> Frames ND 80 to ND 355 For extra TB(Loose)	5% 3%

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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																															
2.7	<p><b>SPECIAL SHAFT EXTENSION</b>            Standard double shaft extension (DE/NDE identical)            Non standard single / double shaft with diameter and length less than standard dimensions (This feature is not in FLP SR and SPDP SR enclosures)            For D or E more than IS, please refer to division            Taper single shaft extension taper 1:10            Taper double shaft extension taper 1:10            For taper other than above,            Special shaft material EN 24 grade             Stainless steel shaft (Upto &amp; including 180 frames)</p>	<p>5% 10%  5% 10% Refer to CG Sales office 10% extra price &amp; extra delivery of 4 weeks. 15% extra price &amp; extra delivery of 4 weeks.</p>																															
2.8	<p>Degree of protection as per IEC 60034-5 IP 66, IP65, IP56 for TEFC SCR motors in frame 63-500</p>	<p>5%</p>																															
2.9	<p><b>CUSTOM SIZE FABRICATED TERMINAL BOX</b>            One size higher terminal box can be supplied for TEFC SCR motors as per table below</p> <table border="1" data-bbox="177 1176 1010 1659"> <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> <p>Refer DPA for 2 size &amp; 3 size higher cable size</p>	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	<p>One size higher to be loaded 3%             for two size higher - 5% For three size higher - 8%</p>
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2.10	<p><b>FAULT LEVEL : 50 kA for 0.25 sec. with certificate</b>            Please refer to division for higher fault level (160 &amp; above frame)</p>	<p>Rs. 50000/-</p>																															

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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	<p><b>SPECIAL BEARINGS</b>            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)            Regreasable bearings are provided as a standard for Frame 250 and above.</p> <p>C4 clearance bearing in frame 160-225 ( 2 Pole Only)</p> <p>*For FLP Motors regreasable bearing can be provided from E160 frame and onwards.            Angular contact for 160-450 frames. Please refer to division.</p>	<p>Rs. 1000/- per motor and 4 weeks extra delivery</p> <p>Rs. 3300/- per motor and 10 weeks extra delivery</p>																																													
2.13	<p><b>INSULATED BEARINGS AT NON DRIVING END (NDE)</b>            Can be provided for 160-225 frame at 20000/-</p> <p style="text-align: center;"><b>NDE BEARING Selection</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Type</th> <th style="width: 15%;">Price in Rs.</th> <th style="width: 20%;">Frame</th> <th style="width: 10%;">2 pole</th> <th style="width: 10%;">4Pole &amp; up</th> </tr> </thead> <tbody> <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> </tbody> </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	
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2.14	<p><b>ROLLER BEARING ON DE SIDE only for V Belt application (Not applicable up to 132 frame )</b>            For 160 to 225 frames online greasing charges to be added extra over roller bearing cash extras.</p> <p>FRAMES 160 TO 180            FRAMES 200 TO 250            FRAMES 280 TO 315            FRAME 355            FRAMES 400 TO 500</p> <p>* For FLP motors roller bearings shall be provided from E160 and above frames.</p>	<p>Rs. 1780/-            Rs. 3300/-            Rs. 4600/-            Rs. 5750/-            Rs. 8640/-</p>																																													
2.15	<p><b>NOISE LEVEL (As per IS 12065.)</b>            &lt;= 85 dB(A) @ 1 m at no load for 4 pole motors and above            &lt;= 90 dB (A) @ 1 m at no load for all 2 pole motors.            For lower noise level please refer to division</p>	<p>No extra            3%            3%</p>																																													

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SPECIAL FEATURES OFFERED FOR THREE PHASE AC MOTORS WITH CASH EXTRAS

**2) MECHANICAL FEATURES**

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2.16	<b>Tacho (encoder) mounting arrangement for frame 160- aboveTEFC SCR Motors</b> For other frames refer to division	5% OR Rs 7500 whichever is lower																																																																																																	
2.17	<p><b>BRAKE MOTORS</b>                      Brake Mounting Arrangement if brakes in CG scope (Only brake mounting arrangement will not be provided)  <b>In addition Refer the following Brake kit prices to be added in respective type of Motor Net Price</b></p> <table border="1" data-bbox="177 790 1126 1140"> <thead> <tr> <th colspan="6">Flameproof Motors</th> </tr> <tr> <th rowspan="2">Frame</th> <th colspan="3">Gas Group IIA/IIB</th> <th colspan="2">Gas Group IIC</th> </tr> <tr> <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> <p><b>Crane Duty Brake Motor</b>                      Please add Brake kit Price to S4 duty IE2 Prices after discount.</p> <table border="1" data-bbox="177 1245 997 1682"> <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						Frame	Gas Group IIA/IIB			Gas Group IIC		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%
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**2) MECHANICAL FEATURES**

Sr. No	Description	Cash Extras in % of ALP or absolute value in INR whichever is Lower																
2.18	<p><b>ANTI CORROSIVE TREATMENT/PAINT</b>            For TEFC SR, SPDP-SCR/SR: Paint Shade - 631 as per IS:5            For Apex Series - IE2 motors : Paint Shade - RAL 7034            For Apex Series - IE3 motors : Paint Shade - RAL 5021            Anti Corrosive Paint (With Above mentioned paint shade)            Paint Shade other than above mentioned shades            For Additional thickness upto 130 microns            C3-M/C4-M/C5-M painting for standard paint shade (Applicable for min order val of 30 Lacks. Not Applicable for IIC)            C3-M/C4-M/C5-M painting for non standard paint shade (Applicable for min order val of 50 Lacks. Not Applicable for IIC)            For any other painting shade, material or procedure, please refer to nearest Branch Office            Confirmation for minimum order quantity to be taken from division  <b>Fan cover will be black powder coated for NG (up to 132 Frame) /GD series motors</b></p>	<p>No Extra Charges            3%            5% subject to max 15,000/-            5%            12.5%            20%</p>																
2.19	<p><b>JACKING OUT HOLES ON MOTOR FEET</b>            Jacking out holes on motor feet are provided as a default for 315 &amp; Above            Jacking out holes on motor feet for 225, 250 &amp; 280 Frames            Soft Foot (Upto 200 Microns)            Consult div for lower than 200 Microns</p>	<p>No Extra            2%            5%</p>																
2.20	<p><b>VIBRATION LEVEL</b>            Vibration level (mm/sec.) shall be as per normal class as per IEC690034-14            Limits of max vibration magnitude in velocity (mm/sec) for vibration grade is as mentioned in table.</p> <table border="1" data-bbox="177 1355 1102 1525"> <thead> <tr> <th data-bbox="177 1355 552 1442">Shaft Height H mm</th> <th data-bbox="552 1355 727 1442">56≤H≤132</th> <th data-bbox="727 1355 916 1442">132≤H≤280</th> <th data-bbox="916 1355 1102 1442">H&gt;280</th> </tr> </thead> <tbody> <tr> <td data-bbox="177 1442 552 1480">Vibration Grade</td> <td data-bbox="552 1442 727 1480"></td> <td data-bbox="727 1442 916 1480"></td> <td data-bbox="916 1442 1102 1480"></td> </tr> <tr> <td data-bbox="177 1480 552 1518">A</td> <td data-bbox="552 1480 727 1518">1.6</td> <td data-bbox="727 1480 916 1518">2.2</td> <td data-bbox="916 1480 1102 1518">2.8</td> </tr> <tr> <td data-bbox="177 1518 552 1525">B</td> <td data-bbox="552 1518 727 1525">0.7</td> <td data-bbox="727 1518 916 1525">1.1</td> <td data-bbox="916 1518 1102 1525">1.8</td> </tr> </tbody> </table> <p>For any other value please refer to division</p>	Shaft Height H mm	56≤H≤132	132≤H≤280	H>280	Vibration Grade				A	1.6	2.2	2.8	B	0.7	1.1	1.8	<p>No Charges – A            20% – B</p>
Shaft Height H mm	56≤H≤132	132≤H≤280	H>280															
Vibration Grade																		
A	1.6	2.2	2.8															
B	0.7	1.1	1.8															
2.21	<p><b>STAINLESS STEEL HARDWARE –</b>            Upto Frame 225            Frame 250 and above            *Not available for aluminum motors (GD frame) &amp; FLP Motors  <b>Brass Studs</b>            Frame 63 to 225            250 to 355            400 &amp; Above</p>	<p>Rs. 1350/-            Rs. 2200/-            Rs 5000/-            Rs 10000/-            Refer Division</p>																

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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> 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) Frames 80 to 132 Frames 160 to 200 Frames 225 to 250 Frames 280 to 315 Frames 355 FRP Canopy (with terminal box on RHS / LHS ONLY) - For Safe Area only	Rs. 1420/- Rs. 1780/- Rs. 3280/- Rs. 5750/- Rs. 7600/- 7.50% sub to max of Rs. 15000/-
2.25	<b>ENCLOSURE</b> Increased safety type 'e' (Ex e "b" )motors as per IEC 60079-7 with anticorrosive paint Non sparking type 'N' (Ex e "c") motors as per IEC60079-15 with anti corrosive paint. (From 90 to 355 CI frames only) (Price basis-For selected frame size, highest kW ALP to be taken as base)	15%  7.50%

- 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**

**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 Frames Covered E80 to E315M # & E355LX Terminal box will be on TOP only # 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) <b>(Price only for kit, Monthly subscription charges extra)</b>	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
<p><b>5.1</b></p>	<p><b>SPACE HEATERS -</b>            Space heaters are terminated in auxiliary terminal box on top of main terminal box (Except for all FLP motors &amp; TEFC motors in 160-180 for which heater terminals are terminated in main terminal box.)            (Space heaters are provided as a standard feature for standard DDI TEFC SCR motors in frame 280 and above.)  <b>For Non FLP Motors</b>            For frames 160 to 180 TEFC            For frames 200 to 250 TEFC            For frames 280 to 500 (TEFC)  <b>FLP (ATEX) /type "e" /type "n"</b>  <b>(Add 2% extra in case separate auxiliary terminal Box required.)</b>            For frames 160 to 180 FLP            For frames 200 to 250 FLP            For frames 280 to 315 FLP            For frame 355 to 400 terminal box charges for separate Aux box            No Space heaters will be provided for frames below 132            Space heater for ND132 frame (TEFC)</p>	<p>Rs. 2000/-            Rs. 4000/-            Nil              Rs. 8200 / -            Rs. 9000/-            Rs. 12000/-            Rs. 2500/-              Rs. 1500/-</p>
<p><b>5.2</b></p>	<p><b>THERMISTORS (Without relays ) 80 frames above(80 frame in FLP not possible)</b>            varieties : PTC -110, PTC-130, PTC-150            3 nos per motor Frame 80- 450            6 nos (PTC 130-3 nos &amp; PTC 150- 3 nos) per motor 160-450  <b>For FLP type "e" Type "n" &amp; "ne"</b>            PTC 130 ° C - 3 nos            PTC 150 ° C - 3 nos</p>	<p>Rs. 2100/-            Rs. 4200/-              Rs. 4500/-            Rs. 5400/-</p>
<p><b>5.3</b></p>	<p><b>RTD's 160 frames and above</b> (Not applicable for FLP motors)            3 Wire Simplex RTD PT100- 3 nos.            3 Wire Simplex RTD PT100- 6 nos.            6 Wire Duplex RTD PT100- 3 nos.            160 to 200 - Extra Price for TB due to RTD arrangement            6 Wire Duplex RTD PT100- 6 nos. (315 frame &amp; above only). Applicable for Type e &amp; Type n also.</p>	<p>Rs. 7000/-            Rs. 12000/-            RS.12000/-            6%            RS.24000/-</p>
<p><b>5.3A</b></p>	<p>Vibration Probe Mounting Arrangement, 18X25mm (Probe not in CG Scope) Spm Holes</p>	<p>Rs 5000/-</p>

- 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

**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> <b>(not possible for FLP motor)</b> Frames 160 to 225 250 to ND355 NG355 & Above Ex'e' & Ex'n' motors BTD BTD Termination in Separate Terminal Box For slip ring motors BTD will be on DE side only	Rs.8000/- Rs.9000/- No Extra Rs. 30000/- Rs.5000/-
5.5	<b>Cable sealing box</b> for group I for frame 160-200 flameproof motors For 225-315 frame flameproof motors 1 No. S. Box is provided as standard For frame 90-132 (not available in frame 80) EPDM Gasket	Rs. 2000/- Rs. 2200/- Rs. 1700/- 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) 30 Amps, 600 volts 110 Amps, 600 volts 150 Amps, 600 volts Plug and Socket Arrangement for Safe Area	Rs. 19800/- Rs. 23100/- Rs. 28600/- Refer Division
5.9	<b>DOUBLE COMPRESSION GLANDS (Per run of Cable) For single Run / Conical Gland / FLP</b> Upto frame 160 180 to 225 250 to 355 Space heater gland and thermistors glands # Compression glands suitable for gas IIA, IIB and IIC Metallic sealing plug per run EIL Approved Cable Glands	<b>STD / CONICAL / FLP</b>  Rs. 1500 / Rs 2250 / Rs 4500 Rs. 2500 / Rs 3700 / Rs 9000 Rs. 3200 / Rs 4800 / Rs 21000 Rs. 1100 / NA / Rs 1800  50% of gland Price Same as rates of FLP Glands
5.10	<b>FINISHING AND PACKING</b> Motor to be delivered in unpacked condition Motor to be delivered with only red oxide primer coat Seaworthy/export packing case for home market (Without fumigation certificate) Regular wooden packing case (where CG STD is Steel Frame)	No reduction No reduction 7.50%  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

### 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> Class 'H' insulation For frame 63-500	10%
6.2	<b>MULTI SPEED MOTORS (Only for Safe Area)</b> Single tapped winding type with 2/4, 4/8, 4/6, 6/8 P Motors Dual speed motors with separate winding or polarity above 8 pole Dual speed motor with more than 2 speeds	10% additional price for higher polarity 17.5% of higher price for among polarity  25% on ALP of highest polarity
6.3	<b>Motor with higher polarity</b> Extra Loading on 8P Motor ALP- (Higher Frame in that KW) 10 pole 12 pole 16 pole	10% 15% 20%
6.4	<b>CRANE DUTY MOTORS :</b> Intermittent Duty (other than S1)	For rating/ frames not covered in price lists please load 7.50% 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

- 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

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

- 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.

**TOTALLY ENCLOSED FAN COOLED SQUIREL 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 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	16525
0.55	0.75	PC80	14675	PC80	15600	PC80	17000
0.75	1.00	PC80	15175	PC80	15800	PC90S	19125
1.10	1.50	PC80	16550	PC90S	19500	PC90L	20975
1.50	2.00	PC90S	18975	PC90L	23700	PC100L	32150
2.20	3.00	PC90L	24350	PC100L	28200	PC112M	33950
3.70	5.00	PC100L	31175	PC112M	35750	PC132S	50025
5.50	7.50	PC132S	49275	PC132S	49600	PC132M	61475
7.50	10.00	PC132S	51025	PC132M	58625	PC160M	91650
9.30	12.50	PC160M	85950	PC160M	91425	PC160L	99875
11	15	PC160M	89100	PC160M	94575	PC160L	112800
15	20	PC160M	104375	PC160L	115300	PC180L	147350
18.5	25	PC160L	134125	PC180M	147525	PC200L	210425
22	30	PC180M	148825	PC180L	161575	PC200L	231425
30	40	PC200L	221250	PC200L	222925	PC225M	323725
37	50	PC200L	268650	PC225S	260650	PC250M	435325
45	60	PC225M	345725	PC225M	315950	PC280S	521425
55	75	PC250M	465375	PC250M	434175	PC280M	598775
75	100	PC280S	558850	PC280S	508050	PC315S	687175
90	120	PC280M	644625	PC280M	591775	PC315M	859875
110	150	PC315S	814275	PC315S	716775	PC315M	958825
132	180	PC315M	1000750	PC315M	839875	PC315L	1119325
160	215	PC315L	1096250	PC315L	1062275	PC315L	1165475
180	240	PC315L	1154025	PC315L	1148250	PC355L	1423800
200	270	PC315L	1279850	PC315L	1196225	PC355L	1494950
225	300	PC355L	1354350	PC355L	1476750	PC355L	1558675
250	335	PC355L	1433575	PC355L	1506275	PC355L	1636625
275	370	PC355L	1517700	PC355L	1595650	PC355L	1850125
315	425	PC355L	1554200	PC355L	1712725	PC355L	2290325

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 INDUSTION 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 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	12700	ND90S	15500
0.55	0.75	NG80	11300	NG80	11700	NG80	13050	ND90L	16950
0.75	1.00	NG80	11675	NG80	11875	NG90S	14725	ND100L	20825
1.10	1.50	NG80	12725	NG90S	14625	NG90L	16100	ND100L	25325
1.50	2.00	NG90S	14575	NG90L	17800	NG100L	24725	ND112M	29350
2.20	3.00	NG90L	18725	NG100L	21200	NG112M	26100	ND132S	38850
3.70	5.00	NG100L	24000	NG112M	26850	NG132S	38475	ND160M	60475
5.50	7.50	NG132S	37900	NG132S	37250	NG132M	47275	-	-
7.50	10.00	NG132S	39225	NG132M	44025	ND160M	70500	ND160L	95800
9.30	12.50	ND160M	66100	ND160M	68675	ND160L	76825	ND180M	124575
11.00	15.00	ND160M	68525	ND160M	71050	ND160L	86800	ND180L	131375
15	20	ND160M	80300	ND160L	86625	ND180L	113350	ND200L	184950
18.5	25	ND160L	103150	ND180M	110850	ND200L	161850	ND225S	237325
22.0	30	ND180M	114475	ND180L	121400	ND200L	178025	ND225M	285300
30	40	ND200L	170175	ND200L	167475	ND225M	249000	ND250M	385200
37	50	ND200L	206650	ND225S	195825	ND250M	334875	ND280S	502350
45	60	ND225M	265950	ND225M	237375	ND280S	401100	ND280M	539925
55	75	ND250MX	357975	ND250MX	326200	ND280M	460600	ND315S	588850
75	100	ND280S	447075	ND280S	397000	ND315S	549775	ND315M	731160
90	120	ND280M	515725	ND280M	462425	ND315M	687900	ND315L	990050
110	150	ND315S	651425	ND315S	560075	ND315M	767075	ND315LX	1048125
125	170	ND315M	764325	ND315M	638025	ND315LX	836075	ND315LX	1151550
132	180	ND315M	800625	ND315M	656275	ND315LX	895450	ND315LX	1214325
160	215	ND315LX	877000	ND315LX	830050	ND315LX	932375	ND355LX	1410875
180	240	ND315LX	923225	ND315LX	897225	ND355LX	1139025	ND355LX	1447525
200	270	ND315LX	1023875	ND315LX	934725	ND355LX	1195975	ND355LX	1550675
225	300	ND355LX*	1083475	ND355LX	1153925	ND355LX	1246925	ND355LX	2203200
250	335	ND355LX*	1146875	ND355LX	1177000	ND355LX	1309275	-	-
275	370	ND355LX*	1214150	ND355LX	1246850	ND355LX	1480100	-	-
315	425	ND355LX*	1243350	ND355LX*	1338325	ND355LX*	1832275	-	-
355	473	-	-	ND355LX*	1625900	-	-	-	-
375	500	-	-	ND355LX*	1857875	-	-	-	-

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 temperature rise 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 INDUSTION 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



<b>PREMIUM EFFICIENCY - IE3 (Aluminium Series)</b>							
<b>OUTPUT Rating</b>		<b>2 Pole / 3000 RPM</b>		<b>4 Pole / 1500 RPM</b>		<b>6 Pole / 1000 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>
0.37	0.50	GD71	8275	GD71	8500	GD80	12100
0.55	0.75	GD71	10750	GD80	11150	GD80	12400
0.75	1.00	GD80	11100	GD80	11300	GD90S	13975
1.10	1.50	GD80	12125	GD90S	13925	GD90L	15325
1.50	2.00	GD90S	13875	GD90L	16950	GD100L	23550
2.20	3.00	GD90L	17825	GD100L	20175	GD112M	24875
3.00	4.00	GD100L	21050	GD112M	23150	GD132S	36625
3.70	5.00	GD100L	22850	GD112M	25575	GD132S	36625
4.00	5.50	GD112M	28275	GD112M	29425	GD132S	39300
5.50	7.50	GD132S	36100	GD132S	35475	GD132M	45025
7.50	10.00	GD132S	37350	GD132M	41925	-	-
9.3*	12.50	GD132M	56375	GD132M	58250	-	-

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 INDUSTION 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	11050	ND90S	13450
0.55	0.75	-	-	ND80	10175	ND80	11350	ND90L	14725
0.75	1.00	ND80	10175	ND80	10325	ND90S	12775	ND100L	18100
1.10	1.50	ND80	11050	ND90S	12750	ND90L	14025	ND100L	22025
1.50	2.00	ND90S	12700	ND90L	15475	ND100L	20175	ND112M	25525
2.20	3.00	ND90L	16300	ND100L	18425	ND112M	21475	ND132S	33775
3.70	5.00	ND100L	20225	ND112M	23350	ND132S	33450	ND160M	52575
5.50	5.30	ND112M	27325	-	-	-	-	-	-
5.50	7.50	ND132S	34450	ND132S	32425	ND132M	41125	ND160M	65700
7.50	10.00	ND132S	37425	ND132M	38300	ND160M	62775	ND160L	83300
9.30	12.50	ND132M	54500	ND132M	50650	-	-	ND180M	108325
9.30	12.50	ND160M	63025	ND160M	61900	ND160L	68400	-	-
11	15	ND160M	66525	ND160M	63950	ND160L	77250	ND180L	114225
15	20	ND160M	71500	ND160L	77125	ND180L	100900	ND200L	160800
18.5	25	ND160L	91875	ND180M	98675	ND200L	144050	ND225S	206350
22	30	ND180M	103200	ND180L	108075	ND200L	155125	ND225M	248100
30	40	ND200L	151525	ND200L	149125	ND225M	221700	ND250M	334950
37	50	ND200L	183975	ND225S	174350	ND250M	298100	ND280S	436800
45	60	ND225M	236750	ND225M	211325	ND280S	357075	ND280M	469500
55	75	ND250MX	318725	ND250MX	290400	ND280M	410075	ND315S	512010
75	100	ND280S	398025	ND280S	353450	ND315S	500825	ND315M	635760
90	120	ND280M	459150	ND280M	411675	ND315M	626650	ND315L	860925
110	150	ND315S	593400	ND315S	510200	ND315M	698750	ND315LX	911400
125	170	ND315M	696300	ND315M	581200	ND315LX	761650	ND315LX	1001350
132	180	ND315M	729325	ND315M	597850	ND315LX	815725	ND315LX	1055925
160	215	ND315LX	798900	ND315LX	701425	ND315LX	849375	ND355LX	1226825
180	240	ND315LX	841050	ND315LX	746025	ND355LX	983600	ND355LX	1258700
200	270	ND315LX	932725	ND315LX	851475	ND355LX	1007275	ND355LX	1348400
225	300	ND355LX*	1050250	ND355LX	979300	ND355LX	1037525	ND355LX	1915825
250	335	ND355LX*	1075675	ND355LX	1039075	ND355LX	1109325	-	-
275	370	ND355LX*	1106075	ND355LX	1135850	ND355LX*	1348325	-	-
315	425	ND355LX*	1132650	ND355LX*	1219175	ND355LX*	1669100	-	-
355	473	-	-	ND355LX*	1481150	-	-	-	-
375	500	-	-	ND355LX*	1692475	-	-	-	-

\*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  
For MEPS-B2 Performance, 10% additional to above prices  
Standard Paint Shade : RAL7034 (Yellow Grey)

**TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE 3 PH INDUSTION 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 - IE2 (Aluminum 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	6175	GD63	6600	-	-
0.25	0.33	GD63	6350	GD71	6700	-	-
0.37	0.50	GD71	7225	GD71	7400	GD80	10525
0.55	0.75	GD71	9375	GD80	9675	GD80M	10800
0.75	1.00	GD80	9650	GD80	9825	GD90S	12150
1.10	1.50	GD80	10525	GD90S	12125	GD90L	13350
1.50	2.00	GD90S	12075	GD90L	14725	GD100L	19175
2.20	3.00	GD90L	15500	GD100L	17525	GD112M	20425
3.70	5.00	GD100L	19250	GD112M	22200	GD132S	31850
4.00	5.50	GD112M	24575	GD112M	25600	GD132S	34175
5.50	7.50	GD132S	32800	GD132S	30875	GD132M	39175
7.50	10.00	GD132S	35625	GD132M	36475	GD132M*	62775
9.30	12.50	GD132M*	49025	GD132M*	50650	-	-
11.00	15.00	GD132M*	59875	GD132M*	57550	-	-

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 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 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 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	1926100
315	422	-	-	-	-	-	-	NG355LX	1996100
355	476	NG355LX	1547000	-	-	NG355LX	1776450	NG400LX	2118700
375	503	NG355LX	1628425	-	-	ND400LX	2188700	NG400LX	2223725
400	535	NG355LX	1698450	NG355LX	1751000	NG400LX	2398850	NG400LX	2398850
425	570	NG355LX	1768500	ND400LX	2048675	-	-	-	-
450	600	NG400LX	2153700	NG400LX	2188700	NG400LX	2468875	ND450LX	3484425
500	670	NG400LX	2223725	NG400LX	2258750	NG400LX	2573900	ND450LX	3764575
560	750	NG400LX	2293775	NG400LX	2398850	NG400LX	2643975	ND450LX	On Request
630	850	NG400LX	2538900	NG400LX	2538900	ND450LX	3344325	ND500LX*	On Request
710#	950	-	-	ND450LX	On Request	ND500LX*	3569175	-	-
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



<b>SMART MOTOR -HIGHER OUTPUT - IE3</b>									
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	2118700
315	422	-	-	-	-	-	-	NG355LX	2195750
355	476	NG355LX	On Request	-	-	NG355LX	1906850	NG400LX	2330575
375	503	NG355LX	On Request	-	-	ND400LX	2407600	NG400LX	2446125
400	535	NG355LX	On Request	NG355LX	1926125	NG400LX	2638750	NG400LX	2638750
425	570	NG355LX	On Request	ND400LX	2253525	-	-	-	-
450	600	NG400LX	On Request	NG400LX	2407600	NG400LX	2715775	ND450LX	3832900
500	670	NG400LX	2446125	NG400LX	2484650	NG400LX	2831350	ND450LX	4141075
560	750	NG400LX	2523175	NG400LX	2638750	NG400LX	2908400	ND450LX	On Request
630	850	NG400LX	2792800	NG400LX	2792800	ND450LX	3678800	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 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 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	2197700
315	422	-	-	-	-	NG355LX	1997350	NG355LX	2305550
355	476	NG355LX	On Request	NG355LX	1941375	NG355LX	2344050	NG400LX	2652225
375	503	NG355LX	On Request	NG355LX	2043625	ND400LX	2729250	NG400LX	2767800
400	535	NG355LX	On Request	NG355LX	2189975	NG400LX	2960400	NG400LX	2960400
425	570	NG355LX	On Request	ND400LX	2575200	-	-	-	-
450	600	NG400LX	On Request	NG400LX	2729250	NG400LX	3037425	ND450LX	4339450
500	670	NG400LX	2561700	NG400LX	2806325	NG400LX	3153025	ND450LX	4647625
560	750	NG400LX	2638750	NG400LX	2960400	NG400LX	3230050	ND450LX	On Request
630	850	NG400LX	2908400	NG400LX	3114425	ND450LX	4185325	-	-
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**

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 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	20850	E80	20525	E80	23800
0.55	0.75	E80	23325	E80	22625	E80	24450
0.75	1.00	E80	24025	E80	23525	E90L	28500
1.10	1.50	E90L	26875	E90L	26050	E90L	29325
1.50	2.00	E90L	27475	E90L	29175	E100L	42450
2.20	3.00	E90L	37550	E100L	37100	E112M	49325
3.70	5.00	E100L	47700	E112M	47000	E132M	65350
5.50	7.50	E132M	67675	E132M	64625	E132M	79175
7.50	10.00	E132M	74725	E132M	73600	E160L	125450
9.30	12.50	E160L	138575	E160L	116450	E160L	146750
11	15	E160L	138575	E160L	116450	E160L	153600
15	20	E160L	155675	E160L	141625	E180L	196500
18.5	25	E160L	176800	E180L	160800	E200L	244350
22	30	E180L	209725	E180L	191125	E200L	265050
30	40	E200L	282325	E200L	256425	E225M	434525
37	50	E200L	365675	E225S	334000	E250M	533650
45	60	E225M	464150	E225M	422325	E280M	619775
55	75	E250M	568300	E250M	517425	E280M	668500
75	100	E280M	698575	E280M	634100	E315M	783875
90	120	E280M	755400	E280M	646375	E315M	919200
110	150	E315M	875200	E315M	771725	E315L	1007775
132	180	E315M	1037675	E315M	933975	E315L	1221550
160	215	E315L#	1176450	E315L#	980750	E315L#	1539025
180	240	E315L#	1410500	E315L#	1173975	E355LX	1668800
200	270	E315L#	1752500	E315L#	1399700	E355LX	1756650
225	300	E355LX#	2190650	E355LX*	1850225	-	-
250	335	E355LX#	2300175	E355LX*	1906550	-	-

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 in not available in E315L

frame

For E80 & E355LX-DGMS certificate is not available

# Suitable for 40 degree amb/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**

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 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	19500	E80	19175	E80	22250	E90L	26725
0.55	0.75	E80	21825	E80	21175	E80	22900	E90L	28925
0.75	1.00	E80	22475	E80	22000	E90L	26650	E100L	35000
1.10	1.50	E90L	25150	E90L	25150	E90L	27450	E100L	40700
1.50	2.00	E90L	25700	E90L	27300	E100L	39725	E112M	48825
2.20	3.00	E90L	35125	E100L	34700	E112M	46150	E132M	64525
3.70	5.00	E100L	44650	E112M	43950	E132M	61150	E160L	104375
5.50	7.50	E132M	63325	E132M	60450	E132M	74100	E160L	122650
7.50	10.00	E132M	69925	E132M	68850	E160L	117350	E160L	149600
9.30	12.50	E160L	132050	E160L	108950	E160L	138050	E180L	190175
11	15	E160L	132050	E160L	108950	E160L	143725	E180L	200325
15	20	E160L	145650	E160L	132500	E180L	183825	E200L	270775
18.5	25	E160L	165400	E180L	150425	E200L	228625	E225S	336150
22	30	E180L	196225	E180L	178825	E200L	248000	E225M	442400
30	40	E200L	264150	E200L	239925	E225M	406550	E250M	543325
37	50	E200L	342100	E225S	312475	E250M	499275	E280M	697250
45	60	E225M	434275	E225M	395125	E280M	579850	E280M	712050
55	75	E250M	531725	E250M	484100	E280M	625450	E315M	867575
75	100	E280M	653575	E280M	593275	E315M	733375	E315M	1016125
90	120	E280M	706725	E280M	604775	E315M	860000	E315L	1112225
110	150	E315M	818825	E315M	722025	E315L	942850	E315L	1300750
125	170	E315M	956075	E315M	838875	E315L	1120600	E355LX	1330325
132	180	E315M	970850	E315M	873825	E315L	1142875	E355LX	1351875
150	200	E315L	1054300	E315L	904625	E315L	1249650	E355LX	1419000
160	215	E315L#	1100675	E315L#	917600	E315L#	1439950	E355LX	1559850
180	240	E315L#	1319625	E315L#	1098350	E355LX	1561325	E355LX	1625950
200	270	E315L#	1639650	E315L#	1309550	E355LX	1643500	E355LX	1771975
225	300	E355LX#	2049550	E355LX#	1848700	E355LX	1892000	E355LX	1951125
250	335	E355LX#	2152025	E355LX#	1904975	E355LX	2028025	E400LX	3017175
275	370	E355LX#	2259600	E355LX#	1948875	E355LX	2039825	-	-
315	425	E355LX#	2372625	E355LX#	2140100	-	-	-	-
325	435	E355LX#	2433300	E355LX#	2178775	-	-	-	-
355	476	E400LX*	3352400	E400LX*	3017175	-	-	-	-
375	503	E400LX*	3606625	E400LX*	3245975	-	-	-	-
400	535	E400LX*	3967300	E400LX*	3570575	-	-	-	-

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 availbale 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 INDUSTION 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	14475
0.55	0.75	-	-	-	-	-	-	ND90L	15850
0.75	1.00	ND80	11225	ND80	11650	ND90S	14075	ND100L	19475
1.10	1.50	ND80	12175	ND90S	14400	ND90L	15400	ND100L	23700
1.50	2.00	ND90S	13975	ND90L	17425	ND100L	22175	ND112M	27450
2.20	3.00	ND90L	17950	ND100L	20750	ND112M	23650	ND132S	36325
3.70	5.00	ND100L	22250	ND112M	26300	ND132S	36800	ND160M	56525
4.00	5.50	ND112M	30050	-	-	-	-	-	-
5.50	7.50	ND132S	37900	ND132S	36500	ND132M	45275	ND160M	70650
7.50	10.00	ND132S	41150	ND132M	39225	ND160M	69075	ND160L	89550
9.30	12.50	ND132M	59950	NG132M	57075	-	-	-	-
9.30	12.50	ND160M	69350	ND160M	69725	ND160L	75250	ND180M	116450
11	15	ND160M	73200	ND160M	70375	ND160L	85000	ND180L	122800
15	20	ND160M	78675	ND160L	86875	ND180L	111025	ND200L	172875
18.5	25	ND160L	101050	ND180M	111150	ND200L	158500	ND225S	221850
22	30	ND180M	113550	ND180L	121700	ND200L	170650	ND225M	266725
30	40	ND200L	166700	ND200L	167925	ND225M	243900	ND250M	360075
37	50	ND200L	202375	ND225S	196350	ND250M	327950	ND280S	469575
45	60	ND225M	260450	ND225M	238000	ND280S	392800	ND280M	542600
55	75	ND250MX	350625	ND250MX	327025	ND280M	451075	ND315S	657450
75	100	ND280S	437825	ND280S	398050	ND315S	550925	ND315M	816375
90	120	ND280M	505100	ND280M	463625	ND315M	689325	ND315L	925500
110	150	ND315S	652750	ND315S	574600	ND315M	768675	ND315LX	979775
125	170	ND315M	765925	ND315M	654575	ND315LX	837825	ND315LX	1076475
132	180	ND315M	802250	ND315M	673275	ND315LX	897325	ND315LX	1135125
160	215	ND315LX	878825	ND315LX	789950	ND315LX	934325	ND355LX	1318850
180	240	ND315LX	925125	ND315LX	840200	ND355LX	1030475	ND355LX	1353125
200	270	ND315LX	1026025	ND315LX	958950	ND355LX	1108050	ND355LX	1449550
225	300	ND355LX*	1155325	ND355LX	1102900	ND355LX	1141275	ND355LX	2059525
250	335	ND355LX*	1183275	ND355LX	1170200	ND355LX	1220275	-	-
275	370	ND355LX*	1216700	ND355LX	1279200	ND355LX*	1483175	-	-
315	425	ND355LX*	1245925	ND355LX*	1373025	ND355LX*	1836050	-	-
355	473	-	-	ND355LX*	1668075	-	-	-	-
375	500	-	-	ND355LX*	1906075	-	-	-	-

\*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 / 3000 RPM</b>		<b>4 Pole / 1500 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	16025	143T	18000	145T	18875
1.10	1.50	143T	19025	145T	18450	182T	33600
1.50	2.00	145T	19500	145T	20475	184T	35275
2.20	3.00	182T	34200	182T	34550	213T	54450
3.70	5.00	184T	37150	184T	37700	215T	59175
5.50	7.50	213T	52675	213T	58100	254T	97975
7.50	10.00	215T	56550	215T	62550	256T	111075
11.00	15.00	254T	86825	254T	93475	284T	158975
15.00	20.00	256T	94150	256T	103950	286T	162525
18.50	25.00	284TS	143625	284T	158275	324T	218075
22	30	286TS	145350	286T	165375	326T	228825
30	40	324TS	218225	324T	241700	364T	349675
37	50	326TS	230125	326T	270025	365T	392200
45	60	364TS	324425	364T	340000	404T	433450
55	75	365TS	362200	365T	373100	405T	461775
75	100	405TS	464450	405T	465225	-	-

Standard paint shade : RAL 5021 (Water Blue )  
 NEMA- C Flange in addition to foot 8 %  
 NEMA- C Flange without foot 5 %

<b>NEMA FRAME</b>	<b>EQUIVALENT IEC FRAME</b>
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

NEMA Premium & NEMA Ipcat for American Market  
 MEPS 2 - Australia & Newzeland

**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 Slipping 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	83175	-	-
3.00	4.00	DW132S	80550	DW132S	87500	NDW160M	119875
3.70	5.00	DW132S	82375	DW132M	91900	NDW160M	124150
5.50	7.50	DW132M	84100	NDW160M	112100	NDW160L	139150
7.50	10.00	NDW160M	111350	NDW160L	139850	NDW180L	189200
11.00	15.00	NDW160L	139325	NDW180L	181575	NDW200L	247900
15.00	20.00	NDW180L	184400	NDW200L	237000	NDW225M	318750
18.50	25.00	NDW200L	212125	NDW225M	305600	NDW225M	368600
22.00	30.00	NDW200L	235675	NDW225M	365200	NDW250M	481100
30.00	40.00	NDW225M	291125	NDW250M	482925	NDW280S	555050
37	50	NDW250M	399175	NDW280S	546775	NDW280M	636650
45	60	NDW250M	477125	NDW280M	594100	NDW315S	782525
55	75	NDW280S	525850	NDW315S	662500	NDW315M	905675
75	100	NDW280M	583875	NDW315M	836825	NDW315LX	997050
90	120	NDW315S	727925	NDW315LX	927900	NDW315LX	1179250
110	150	NDW315M	841075	NDW315LX	1101325	NDW355LX	1256000
125	170	NDW315LX	925150	NDW315LX	1195950	NDW355LX	1397100
132.00	180.00	NDW315LX	975175	-	-	-	-
150	200	NDW315LX	1106425	NDW355LX	1282100	NDW355LX	1537725
160	215	NDW315LX	1130275	NDW355LX	1367550	NDW355LX	1558025
180	240	NDW355L	1195800	NDW355LX	1453000	NDW400LX	2529925
200	270	NDW355L	1328650	NDW355LX*	1574100	NDW400LX	2810800
225	300	NDW355LX	1400075	NDW400LX	3087950	NDW400LX *	3162150
250	335	NDW355LX	1417425	NDW400LX	3431025	NDW450LX*	4730000
275	370	NDW355LX	1503200	NDW400LX	3774150	NDW450LX*	5203000
300	402	NDW400LX	2859975	NDW400LX	4117175	NDW450LX*	5723300
315	436	NDW400LX	3002975	NDW400LX	4460300	NDW450LX*	6295650
350	470	NDW400LX	3336625	NDW450LX*	4768700	NDW450LX*	6799300
370	500	NDW400LX *	On Request	NDW450LX*	5245575	NDW450LX*	7343225
450	600	-	-	NDW450LX*	5770150	NDW450LX*	7930700

\*These are suitable for temperature rise limited to class F.  
Standard Paint Shade -631 (IS 5) Light Green.

**SCREEN PROTECTED DRIP PROOF SLIP RING INDUCTION MOTORS**

Enclosure conforming 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

<b>SPDP Slipping 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>
3.7	5	-	-	-	-	CW160M	104200
5.5	7.5	-	-	CW160M	102100	CW160L	110975
7.5	10	CW160M	102700	CW160L	119125	CW180M	153100
11	15	CW160L	114400	CW180M	153050	CW180L	179275
15	20	CW180M	152025	CW180L	168650	CW200M	221800
18.5	25	CW180M	156100	CW200M	228700	CW200L	233225
22	30	CW180L	167800	CW200L	238725	CW225M	306975
30	40	CW200M	214175	CW225M	303600	CW225M	340750
37	50	CW200L	232850	CW225M	325875	CW250S	429725
45	60	CW225M	284275	CW250S	423475	CW250M	493275
55	75	CW250S	383225	CW250M	472100	CW280S	598575
75	100	CW250S	402400	CW280S	574550	CW280M	653775
90	120	CW250MX	490525	CW280M	686550	CW315S*	832975
110	150	CW280M	548350	CW315S*	802175	CW315MX*	901375
125	170	CW280MX*	681300	CW315MX*	899825	CW355L	948750
132	180	CW280MX*	715375	CW315MX*	923425	CW355L	1001850
150	200	CW315S*	836450	CW315MX*	1008875	CW355L	1243925
160	215	CW315M*	773925	CW315MX*	1023375	CW355L	1401400
180	240	CW315MX*	973575	CW355L	On Request	CW355L	1483250
200	270	CW315MX*	1123650	CW355L	On Request	CW355L	1604925
225	300	CW315MX*	1124575	CW355L	On Request	CW400LX	2464600
250	335	CW355L	On Request	CW355L	On Request	CW400LX	2585900
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 Slipping Motors**

<b>OUTPUT Rating</b>		<b>10 Pole / 600 RPM</b>	
<b>KW</b>	<b>HP</b>	<b>Frame</b>	<b>List Price</b>
110	150	CW315MX*	1248425
125	170	CW355L	1611025
150	200	CW355L	1836500
160	215	CW355L	1917500
180	240	CW355L	1999400
200	270	CW400LX	2315200
225	300	CW400LX	2558050

\* 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 ± 10%

FREQUENCY : 50Hz ± 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	8790
0.55	0.75	GD71	9300
0.75	1	ND80	10350
1.1	1.5	ND80	10350
1.5	2	ND90S	11400
2.2	3	ND90L	12470
3.7	5	ND100L	16800
5.5	7.5	ND112M	21050
7.5	10	ND132S	28980
9.3	12.5	ND132M	33870
11	15	ND160M	52730
15	20	ND160M	57380
18.5	25	ND160L	67110
22.5	30	ND180M	93910
27	36	ND180L	101030
37	50	ND200L	134760
40	53.33	ND225S	174960
8 Pole / 750 RPM			
KW	HP	Frame	List Price
0.55	0.75	ND90S	12070
0.75	1	ND90L	13600
1.1	1.5	ND100L	16370
1.5	2	ND112M	16370
2.2	3	ND132S	22980
3.7	5	ND160M	30480
5.5	7.5	ND160M	58540
7.5	10	ND160M	63190
9.3	12.5	ND160L	76200
10	13.4	ND180M	97020
12	16	ND180L	108020

6 Pole / 1000 RPM			
KW	HP	Frame	List Price
0.17	0.23	GD63	8600
0.37	0.5	GD71	10220
0.55	0.75	ND80	10970
0.75	1	ND80	10970
1.1	1.5	ND90S	11750
1.5	2	ND90L	13600
2.2	3	ND100L	17740
3.7	5	ND112M	21130
5.5	7.5	ND132S	31050
7.5	10	ND132M	34570
9.3	12.5	ND160M	55800
11	15	ND160L	69180
15	20	ND160L	73830
18.5	25	ND180L	100410

Prices given on this page are for above given KW & Frame combination only. In case particular KW rating is required in higher frame, kindly refer prices of IE2 Series motors with loading of S4 duty as per cash extras.

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 ± 10%

FREQUENCY: 50Hz ± 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	58975
2.6	3.50	DW132S	77650
4.5	6.03	DW132M	92750
6.7	9.00	NDW160M	105250
9.0	12.07	NDW160L	130200
13.2	17.50	NDW180L	195900
17.6	23.60	NDW200L	257550
24.6	33.00	NDW225S	318525
30.5	41.00	NDW225M	393075
36.0	48.28	NDW250S	491325
42.0	56	NDW250M	592975
53.5	72	NDW280S	652275
66.5	89	NDW280M	762375
93.0	126	NDW315S	911425
116.0	156	NDW315M	1033400

OUTPUT Rating		8 Pole / 750 RPM	
KW	HP	Frame	List Price
1.7	2.3	DW132S	83375
2.5	3.4	DW132M	112025
4.8	6.4	NDW160M	121375
6.7	9.00	NDW160L	151150
9.30	11.00	NDW180L	202875
13.5	18.0	NDW200L	264300
20.2	27.2	NDW225S	343600
26.0	35.0	NDW225M	393075
31.5	42.2	NDW250S	478600
37	50	NDW250MX	596000
48.0	64.0	NDW280S	665825
59.0	79.0	NDW280M	725100
72.0	96.0	NDW315S	972425
86.0	115.3	NDW315M	1055450

OUTPUT Rating		10 Pole / 600 RPM	
KW	HP	Frame	List Price
15	20	NDW225S	322425
18.5	25	NDW225M	377825
22.00	30.00	NDW250M	482925
38.00	51.00	NDW280S	720025
46.50	62.00	NDW280M	787775
60.00	80.00	NDW315S	1002925
66.00	88.00	NDW315M	1050850

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	16650
1.10	1.50	R112M	17625	R112M	21925
1.50	2.00	R112M	20225	R132S	23275

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

OUTPUT Rating		6 Pole / 1000 RPM	
KW	HP	Frame	List Price
0.75	1.00	NR90L	12400
1.10	1.50	R112M	22875
1.50	2.00	R112M	27800

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

OUTPUT Rating		4 Pole / 1500 RPM	
KW	HP	Frame	List Price
2.20	3.00	ND100L	18825
3.00	4.00	ND112M	22050
3.70	5.00	ND132S	27125
5.50	7.50	ND132S	32400
7.50	10.00	ND132M	38600

**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	28400
5.50	7.50	ND132S	38900
7.50	10.00	ND132M	45575
9.30	12.50	ND160M	71925
11.00	15.00	ND160M	74175
13.00	17.50	ND160L	89700
15.00	20.00	ND160L	92200
18.50	25.00	ND180M	129800
22.00	30.00	ND180L	138275
30.00	40.00	ND200L	186550
37.00	50.00	ND225S	239850
45.00	60.00	ND225M	290725

OUTPUT		6 POLE : 1000 RPM	
KW	HP	FRAME	PRICE
3.70	5.00	ND132S	41400
5.50	7.50	ND132M	46175

Standard Paint Shade : RAL7034 (Yellow Grey)

**TOTALLY ENCLOSED FAN COOLED CRUSHER DUTY MOTORS**

MOUNTIING : FOOT	PROTECTION :IP55
VOLTAGE: 415 V ± 10%	RATING: S1
FREQUENCY : 50Hz ± 5%	DUTY : Continuous
AMBIENT : 50°C	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	240375	-	-
55	75	ND250M	330350	ND280M	455625
75	100	ND280S	402050	ND315S	556450
90	120	ND280M	468300	ND315M	696300
110	150	ND315S	580400	ND315M	776425
125	175	ND315M	661200	ND315L	846275
132	180	ND315M	680075	ND315LX	906375
160	215	ND315LX	797925	ND315LX	943750
180	240	ND315LX	848700	ND355LX	1040875
200	270	ND315LX	968625	ND355LX	1119225
225	300	ND355LX	1148675	ND355LX	1152825
250	335	ND355LX	1182025	ND355LX	1232600

**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)



<b>TOTALLY ENCLOSED FAN COOLED SQUIRREL CAGE DC BRAKE MOTORS</b>	
MOUNTING : FOOT	PROTECTION : IP55
VOLTAGE : 415 VOLTS ± 10%	EFFICIENCY : IE2
FREQUENCY : 50Hz ± 5%	DUTY : S1 ( CONTINUOUS)
COMBINED : 10% (ABSOLUTE SUM)	INSULATION :CLASS F, TEMP RISE-CLASS B
AMBIENT : 50°C	BRAKE TYPE : DC

<b>Brake - KIBOSH Series ( CI )</b>							
<b>OUTPUT Rating</b>		<b>4 Pole / 1500 RPM</b>			<b>6 Pole / 1000 RPM</b>		
<b>KW</b>	<b>HP</b>	<b>Frame</b>	<b>Brake Size</b>	<b>List Price</b>	<b>Frame</b>	<b>Brake Size</b>	<b>List Price</b>
0.37	0.50	-	-	-	NG80	8	24650
0.55	0.75	NG80	8	24075	NG80	8	24925
0.75	1.0	NG80	8	24150	NG90S	10	32150
1.1	1.5	NG90S	10	31400	NG90L	10	33350
1.5	2.0	NG90L	10	32450	NG100L	12	39475
2.2	3.0	NG100L	12	38950	NG112M	14	44025
3.0	4.0	NG100L	12	39800	NG132S	16	61525
3.7	5.0	NG112M	14	44850	NG132S	16	62925
5.5	7.5	NG132S	16	60925	NG132M	16	66575
7.5	10.0	NG132M	16	65850	ND160M	18	107075
9.3	12.5	NG132M	16	78875	ND160L	20	132900
9.3	12.5	ND160M	18	78875	-	-	132900
11	15	ND160M	20	105350	ND160L	20	136450
15.0	20	ND160L	20	134200	ND180L	25	203100
18.5	25	ND180M	25	198075	ND200L	25	245825
22	30	ND180L	25	208675	ND200L	25	256550
30	40	ND200L	25	259350	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 : S1 (CONTINUOUS)
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	20975	GD80	8	23850
0.55	0.75	GD80	8	23300	GD80	8	24125
0.75	1.0	GD80	8	23375	GD90S	10	31100
1.1	1.5	GD90S	10	30350	GD90L	10	32275
1.5	2.0	GD90L	10	31400	GD100L	12	38200
2.2	3.0	GD100L	12	41875	GD112M	14	42600
3.7	5.0	GD112M	14	43400	GD132S	16	60875
5.5	7.5	GD132S	16	65500	GD132M	16	71575
7.5	10.0	GD132M	16	70775	-	-	-

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

Standard Paint Shade : RAL7034 (Yellow Grey)

<b>TOTALLY ENCLOSED FAN COOLED FIRE FIGHTING MOTORS</b>			
MOUNTING	: FOOT	PROTECTION	: IP55
VOLTAGE	: 415 VOLTS ± 10%	RATING	: S1
FREQUENCY	: 50Hz ± 5%	DUTY	: Continuous
COMBINED	: 10% (ABSOLUTE SUM)	INSULATION	: CLASS F, TEMP RISE-CLASS F
AMBIENT	: 50°C	PAINT	: RED

<b>FIRE FIGHTING Series</b>		
<b>FIRE FIGHTING</b>		
<b>FF Catref</b>	<b>Frame</b>	<b>ALP</b>
5.50KNE2-FF	ND112M	21860
9.30KNE2-FF	ND132M	54500
11KNE2-FF	ND132M	53220
15KE2-FF	ND160M	71,500
22KE2-FF	ND160L	92880
30KE2-FF	ND180L	136380
45KE2-FF	ND200L	213080
55KE2-FF	ND225M	254980
60KE2-FF	ND225M	267730
75KE2-FF	ND250MX	318420
90KE2-FF	ND280M	459150

Temp.Rise will be Limited to F class  
For Ratings apart from above kindly contact division

<b>TOTALLY ENCLOSED FAN COOLED MOTORS FOR COMPRESSOR APPLICATION</b>			
MOUNTING	: FOOT	PROTECTION	: IP55
VOLTAGE	: 415 VOLTS ± 10%	RATING	: S1
FREQUENCY	: 50Hz ± 5%	DUTY	: Continuous
COMBINED	: 10% (ABSOLUTE SUM)	INSULATION	: CLASS F, TEMP RISE-CLASS F
AMBIENT	: 50°C	SERVICE FACTOR	: 1.2

<b>COMPRESSOR SERIES</b>			
<b>COMPRESSOR SERIES</b>			
<b>kW</b>	<b>Pole</b>	<b>Frame</b>	<b>LIST PRICE</b>
7.5	2	NG132M	61075
11	2	PC132M	73225
15	2	ND160L	85325
22	2	ND160L	109025
30	2	ND200L	212700
37	2	ND200L	223875
45	2	ND200L	248950
55	2	ND250MX	357425
75	2	ND250MX	376400
150	2	ND315LX	931225
11	4	ND160M	96025
15	4	ND160L	105625
18.5	4	ND180L	133525
22	4	ND180L	163125
55	4	ND250MX	415450
75	4	PC250M	466475
90	4	ND280M	549650
132	4	ND315LX	903000
160	4	ND315LX	1032000
200	4	ND355LX	1333000

Temp.Rise will be Limited to F class  
For Ratings apart from above kindly contact division

<b>TOTALLY ENCLOSED AIR OVER SMOKE EXTRACTION MOTORS</b>				
MOUNTING	: FOOT	PROTECTION	: IP55	
VOLTAGE	: 415 VOLTS ± 10%	RATING	: S1/S2	
FREQUENCY	: 50Hz ± 5%	Temperature	: 300°C – 2Hrs	
Paint:	RAL7032 (PEBBLE GREY)	Insulation	: H Class	
CI B3 IE2 TEAO ND Series Motor. T.BOX at TOP and 1m Flying leads				

Smoke Extraction Motors									
OUTPUT		2 POLE : 3000 RPM			OUTPUT		6 POLE : 1000 RPM		
KW	HP	FRAME	CATREF	List Price	KW	HP	FRAME	CATREF	List Price
0.75	1.00	ND80	0.75KNE2TOP_SM3TE	12475	0.75	1.00	ND90S	0.75KNE6TOP_SM3TE	15650
1.10	1.50	ND80	1.1KNE2TOP_SM3TE	13575	1.10	1.50	ND90L	1.1KNE6TOP_SM3TE	17175
1.5	2.00	ND90S	1.5KNE2TOP_SM3TE	15600	1.50	2.00	ND100L	1.5KNE6TOP_SM3TE	24750
2.2	3.00	ND90L	2.2KNE2TOP_SM3TE	19975	2.20	3.00	ND112M	2.2KNE6TOP_SM3TE	26375
3.7	5.00	ND100L	3.7KNE2TOP_SM3TE	24825	3.70	5.00	ND132S	3.7KNE6TOP_SM3TE	41050
5.5	7.50	ND132S	5.5KNE2TOP_SM3TE	40450	5.50	7.50	ND132M	5.5KNE6TOP_SM3TE	50500
7.5	10.00	ND132S	7.5KNE2TOP_SM3TE	45925	7.50	10.00	ND160M	7.5KE6TOP_SM3TE	77075
18.5	25	ND160L	18.5KE2TOP_SM3TE	112800	11	15	ND160L	11KE6TOP_SM3TE	94850
22	30	ND180M	22KE2TOP_SM3TE	126725	15	20	ND180L	15KE6TOP_SM3TE	123900
30	40	ND200L	30KE2TOP_SM3TE	186050	18.5	25	ND200L	18.5KE6TOP_SM3TE	176900
37	50	ND200L	37KE2TOP_SM3TE	225875	22	30	ND200L	22KE6TOP_SM3TE	190475
OUTPUT		4 POLE : 1500 RPM							
KW	HP	FRAME	CATREF	List Price					
0.55	0.75	ND80	0.55KNE4TOP_SM3TE	12775					
0.75	1.00	ND80	0.75KNE4TOP_SM3TE	12950					
1.10	1.50	ND90S	1.10KNE4TOP_SM3TE	16025					
1.50	2.00	ND90L	1.50KNE4TOP_SM3TE	19425					
2.20	3.00	ND100L	2.20KNE4TOP_SM3TE	23150					
3.70	5.00	ND112M	3.70KNE4TOP_SM3TE	29325					
5.50	7.50	ND132S	5.50KNE4TOP_SM3TE	40750					
7.50	10.00	ND132M	7.50KNE4TOP_SM3TE	48150					
11	15	ND160M	11KE4TOP_SM3TE	78525					
15	20	ND160L	15KE4TOP_SM3TE	96925					
18.5	25	ND180M	18.5KE4TOP_SM3TE	124025					
22	30	ND180L	22KE4TOP_SM3TE	135850					
30	40	ND200L	30KE4TOP_SM3TE	187425					



**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	57625
7.5	G1R160C1F	59850
10.0	G1R160C1E	64200
12.5	G1R160C2A	68450
15.0	G1R160C2B	74325
20.0	G1R160C3B	86975
25.0	G1R160C4C	99075
30.0	G1R160C5A	112550
35.0	G1R200SE	121675
40.0	G1R200SE	131725
45	G1R200SA	143950
50	G1R200SB	149425
62.5	G1R200SC	175750
63	G1R200SC	175750
75	G1R200MB	193050
82.5	G1R200MD	197100
90	G1R200MDX	232475
100	G1R250SB	233275
110	G1R250SD	246475
125	G1R250SD	257200
140	G1R250MA	282575
160	G1R250MB	307075
180	G1R250LB	323000
200	G1R250LD	344100
225	G1R315SE	385100
250	G1R315SE	414700
275	G1R315SA	441900
300	G1R315SB	472600
320	G1R315SB	498350
380	G1R315MB	572775
400	G1R355SB	623175
415	G1R355SB	624675
437.5	G1R355SE	629950
450	G1R355SE	662950
500	G1R355SE	722400
550	G1R355ME	769825
600	G1R355MA	836700
625	G1R355MA	849775
650	G1R355MB	948850
680	G1R400SB	1257500

1 PHASE - 240V		
KVA	FRAME	List Price
5	G1R160C1F	58450
7.5	G1R160C1E	67075
10	G1R160C2A	74925
12.5	G1R160C3B	87375
15	G1R160C4C	98900
17.5	G1R160C5C	107500
20	G1R160C5A	113075
25	G1R200SF	133400
30	G1R200SA	146800
35	G1R200SC	166575
40	G1R200SD	181225
45	G1R200MB	205725
50	G1R200MD	230250
63	G1R250SD	277775
82.5	G1R250LB	335775

3 PHASE - 415V		
KVA	FRAME	List Price
750	G1R400SC	1273875
1010	G1R400MA	1519900
1250	G1R400MB	1764250
1400	G1R450SB	2236775
1500	G1R450SC	2261775
1750	G1R450MA	2946850
1900	G1R450MB	2993600
2000	G1R450LA	3062300
2250	G1R450LB	3286675

**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	58975
7.5	G1R132MA/2	59825
10	G1R132MC/2	62725
12.5	G1R160S1A/2	66900
15	G1R160S1A/2	74325
20	G1R160SB/2	86975
25	G1R160SC/2	99075
30	G1R160MA/2	112550

1 PHASE - 240V		
KVA	FRAME	List Price
5	G1R132MR/2	58425
6	G1R132MA/2	62100
7.5	G1R132MC/2	67075
10	G1R160S1A/2	74225
12.5	G1R160SB/2	87400
15	G1R160SC/2	98900

**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 +/-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	87250
15.0	G2R160SB	96275
20	G2R160MC	156475
25.0	G2R160M2A	174500
30	G2R200SE	192550
35	G2R200SE	200100
40	G2R200SB	207625
50	G2R200SC	222725
63	G2R200MB	223925
75	G2R250SB	264775
100	G2R250SD	305675
110	G2R250MA	321450
125	G2R250MB	340550
145	G2R250LB	369750
160	G2R250LD	398925
180	G2R315SE	437650
200	G2R315SE	476400

**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	37250
6.5	G2S132MR	37550
7.5	G2S132MA	47525
10	G2S132MC	53125
12.5	G2S132MD	58550
15	G2S160S1B	62875
20	G2S160SC	85450
25	G2S160MC	93400
30	G2S160M2R	104900
32.5	G2S160M2R	107650
35	G2S200SE	113700
40	G2S200SE	121225
45	G2S200SB	135000
50	G2S200SB	138925
63	G2S200SD	164200
75	G2S200MD	183475
82.5	G2S200MD	190225

1 PHASE - 240V		
KVA	FRAME	List Price
5	G2S132MA	42900
6	G2S132MC	48875
7.5	G2S160S1E	53175
10	G2S160S1B	60475
12.5	G2S160SC	74025
15	G2S160MC	87275
20	G2S200SE	118350

UPF ALTERNATORS		
1 PHASE - 240V		
KVA	FRAME	List Price
5	G2S132MA	44625
6	G2S132MC	49900
7.5	G2S132MD	53175
10	G2S160S1E	60475
15.0	G2S160S1B	83325

<b>CASH EXTRA FOR SPECIAL FEATURES : ALTERNATORS</b>									
<b>1 ) Additional prices for accessories</b>									
<b>Frame</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>	<b>315</b>	<b>355</b>	<b>400S C</b>	<b>400MA/E/ B</b>	<b>450</b>
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 Analogue input	Not Offered		4000/-	STD	STD	STD	STD	STD	STD
<b>NOTE :</b>	RTD , BTD, Space Heaters are without controls. DC Injection Parallel operation Facility standard from 100 kVA And Above Droop CT facility 100 kVA to 380 kVA and 400 kVA to 2250 kVA Factory fitted CT For supply side CT's customer needs to give rating of the CT's Upto 250 Frame alternators are with AL shell construction								

<b>2) Inspection Charges</b>					
Type Test	6000/-	9600/-	12000/-	15000/-	20000/-
Routine Test	2400/-	4800/-		6000/-	8000/-
<p><b>* 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.</b></p>					
<b>Notes :</b>	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	47000
3.7	100M	49650
5.5	100L	57025
On enquiry	112S	74525
7.5	112M	77025
On enquiry	112L	74525
11.0	132S	86800
15.0	132M	102500
22.5	132L	112975
30.0	160A	177825
40.0	160S	197200
50.0	160M	222950
56.0	160M	234425
60.0	160L	255700
On enquiry	180A	74525
75.0	180S	308400
100.0	180M	327050
On enquiry	200A	74525
115.0	200S	387100
On enquiry	200SX	74525
150.0	200M	484425
On enquiry	225A	74525
180.0	225S	573925
On enquiry	225SX	74525
225.0	225M	656600
On enquiry	250A	74525
295.0	250S	810925

SOLID YOKE DC MOTORS	
Frame Size	List Price
AES160U	168575
AES160A	182550
AES160S	218725
AES160M	264700
AFS180U	195075
AFS180A	215950
AFS180S	250775
AFS180M	296725
AFS180SPL-S	300325
AFS180SPL-M	321800
AFS180SPL-L	329450
AFS180SPL-X	371800
AFS225S	399800
AFS225M	487575
AFS225L	536325
AFS225LX	620350
AFS225X	615725
AFS250S	681650
AFS250M	719325
AFS250L	727650
AFS280A	752275
AFS280S	791275
AFS280M	908250
AFS315SX	1153300
AFS315S	1244500
AFS315M	1307350
AFS315L	1378275

LAMINATED YOKE DC MOTORS			LAMINATED YOKE DC MOTORS		
KW	ASBG Frame	List Price	KW	ASBG Frame	List Price
On enquiry	250SX	834075	On enquiry	315S	1266650
325.0	250M	854400	On enquiry	315M	1297475
On enquiry	250MX	858875	On enquiry	315L	1428075
On enquiry	250L	882675	On enquiry	315LX	1527725
400.0	280S	On Request	On enquiry	315LL	1655500
450.0	280M	On Request	On enquiry	355S	1815625
On enquiry	280MX	1084650	On enquiry	355M	1839950
On enquiry	280L	1135900	On enquiry	355L	1938925
On enquiry	280LX	1183150	On enquiry	355LX	2045150
On enquiry	280LY	1242675	On enquiry	400S	2099975
			On enquiry	400M	2148250
			On enquiry	400L	2333625



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Mill Duty DC Motors ( Non Split Type )		
Frame Size	List Price	LP(Forced Cooled)
ABS802	357225	420075
ABS803	442925	510075
ABS804	557225	645100
ABS806	814400	900100
ABS808	957250	1080125
ABS810	1100150	1230150
ABS812	1851625	2040200
ABS814	2194500	2415275
ABS816	2548825	2775300

**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 Thermisters 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 then 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.

