NEXORA

Smart solutions.
Strong relationships.

ENERGY EFFICIENT MOTORS

IE3 Premium

IE4 Super Premium

Every Challenge. One Solution.



Pioneering Innovation for a Sustainable Future

- PREMIUM EFFICIENCY
- LOW CARBON FOOTPRINT
- LOWER LIFECYCLE COST
- INDUSTRIAL RELIABILITY

NEXORA

Performance Parameters of Squirrel Cage Induction Motors

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Voltage : 415V ± 10%
Frequency : 50Hz ± 5%
Combined Variation : 10% (Absolute Sum)
Material of Construction: Cast Iron
Ambient Temperature : 50°C
Insulation Class : F

Thermal Class : B
Degree of Protection : IP 55
Duty : S1
Method of Cooling :TEFC / IC411
Altitude : <= 1000m above MSL
Applicable IS/IEC Standards : IS 12615:2026 / IEC60034-30-1 : 2025
IS 15999-1

IE3

Product Code	kW	Pole	Frame	RPM Rev/min	FLA Amp	FLT kg-m	Efficiency FL %	Efficiency ¾L %	Efficiency ½L %	Power Factor FL p.u.	STT %	SCC %	POT %	Gd^2 kg-m^2
75P2GT	75	2	CG280SM	2972	122	24.6	94.9	95.0	94.8	0.90	200	700	300	2.28
90P2GT	90	2	CG280SM	2975	146	29.5	95.2	95.6	95.0	0.90	200	770	300	2.64
75P4GT	75	4	CG280SM	1485	134	49.2	95.3	95.4	94.9	0.82	225	700	300	5.36
90P4GT	90	4	CG280SM	1488	160	58.9	95.3	95.3	94.9	0.82	225	750	300	6.04
45P6GT	45	6	CG280SM	992	80	44.2	94.0	94.0	93.7	0.83	200	700	300	8.00
55P6GT	55	6	CG280SM	992	98	54.0	94.3	94.6	94.1	0.83	200	750	300	8.24
37P8GT	37	8	CG280SM	740	73	48.7	92.1	92.7	91.8	0.77	180	600	275	6.96
45P8GT	45	8	CG280SM	740	87	59.2	92.5	92.8	92.2	0.78	200	600	275	7.80

IE4

Product Code	kW	Pole	Frame	RPM Rev/min	FLA Amp	FLT kg-m	Efficiency FL %	Efficiency ¾L %	Efficiency ½L %	Power Factor FL p.u.	STT %	SCC %	POT %	Gd^2 kg-m^2
75S2GT	75	2	CG280SM	2980	120	24.5	95.7	95.8	95.4	0.91	200	890	300	2.64
90S2GT	90	2	CG280SM	2975	144	29.5	95.8	95.9	95.5	0.91	200	800	300	2.76
75S4GT	75	4	CG280SMX	1490	132	49.0	96.1	96.1	95.2	0.82	225	850	300	7.20
90S4GT	90	4	CG280SMX	1490	159	58.8	96.1	96.1	95.4	0.82	250	850	300	7.84
45S6GT	45	6	CG280SM	992	82	44.2	94.9	95.1	94.8	0.80	200	800	300	9.00
55S6GT	55	6	CG280SM	992	97	54.0	95.1	95.2	94.9	0.83	200	800	300	9.52
37S8GT	37	8	CG280SM	740	72	48.7	93.3	93.3	93.2	0.77	180	600	275	6.96
45S8GT	45	8	CG280SM	740	86	59.2	93.5	93.8	93.4	0.78	180	600	275	8.08

All performance parameters are subject to tolerances as per IS 15999 / IEC 60034.

Why Choose NEXORA Motors?

ADVANCED TECHNOLOGY

IE3 & IE4 EFFICIENCY CLASS
High operating efficiency
CE compliant

UNIQUE INSULATION SCHEME
Enhanced insulation
Reliable performance

ADVANCED C3M PROTECTION
Corrosion protection
Longer motor life

PERFORMANCE & RELIABILITY

OPTIMIZED THERMAL MANAGEMENT
Better cooling
Reliable operations

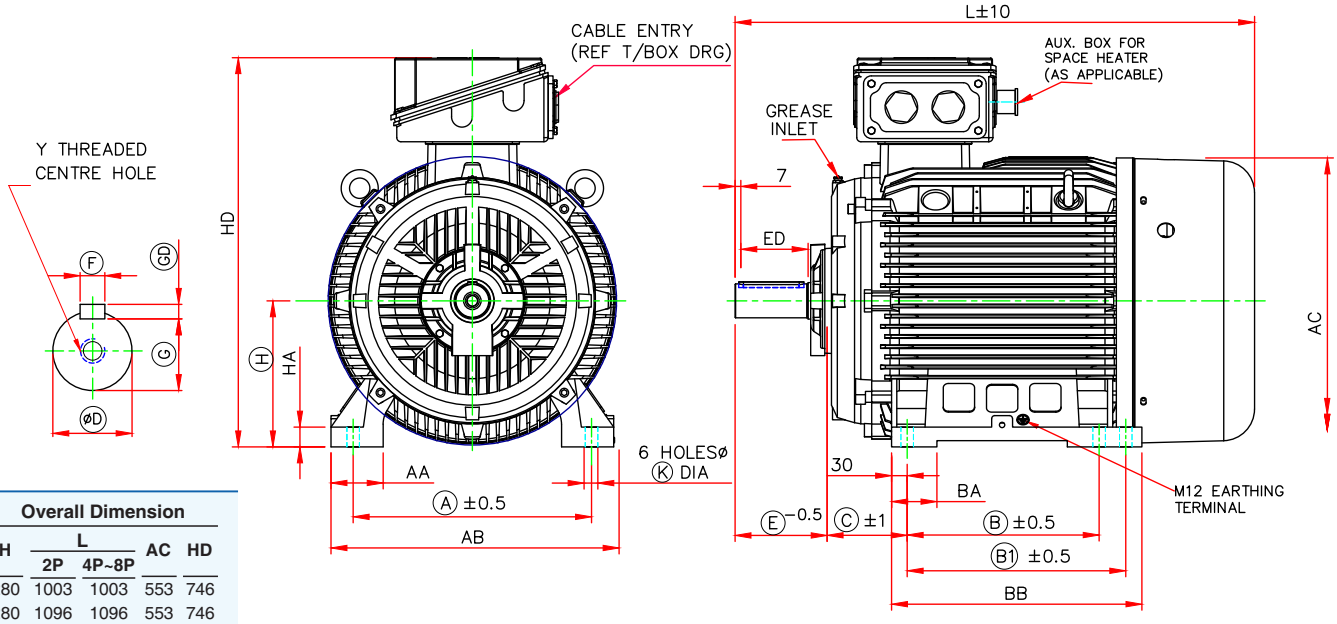
LOW NOISE MOTOR PLATFORM
Quiet design
Smooth performance

LOW VIBRATION
Less Vibration
Higher reliability

PREMIUM EFFICIENCY
BUILT FOR DURABILITY
OPTIMIZED FOR PERFORMANCE
LOWER TOTAL COST OF OWNERSHIP

DIMENSION DRAWING

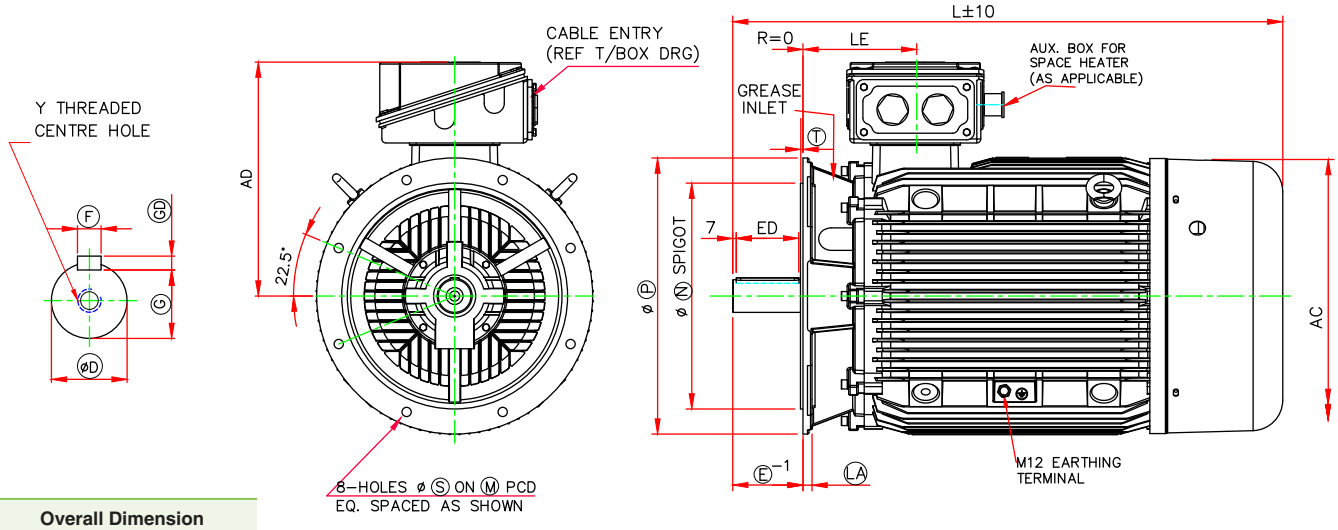
General Performance
Induction Motor - B3-TB TOP



Frame Size	Overall Dimension				
	H	L		AC	HD
		2P	4P~8P		
CG280SM	280	1003	1003	553	746
CG280SMX	280	1096	1096	553	746

Frame Size	Shaft Dimension										Y	Foot Dimension									
	D		E		F		GA		GD			A	AA	AB	B	B1	BA	BB	AA	C	K
	2P	4P~8P	2P	4P~8P	2P	4P~8P	2P	4P~8P	2P	4P~8P											
CG280SM	65.011 / 65.030	75.011 / 75.030	140	140	17.095 / 18.0	19.948 / 20.0	69	79.5	10.91 / 11.0	11.91 / 12.0	M20x40	457	100	542	368	419	87	480	38	190	24
CG280SMX	65.011 / 65.030	75.011 / 75.030	140	140	17.095 / 18.0	19.948 / 20.0	69	79.5	10.91 / 11.0	11.91 / 12.0	M20x40	457	100	542	368	419	102	524	38	190	24

General Performance
Inductions Motor - B5 FLG



Frame Size	Overall Dimension				
	H	L		AC	HD
		2P	4P~8P		
CG280SMX	280	1096	1096	553	746

Frame Size	Shaft Dimension										Y	B5 Specific						
	D		E		F		GA		GD			M	N	P	T	S	LA	LE
	2P	4P~8P	2P	4P~8P	2P	4P~8P	2P	4P~8P	2P	4P~8P								
CG280SMX	65.011 / 65.030	75.011 / 75.030	140	140	17.095 / 18.0	19.948 / 20.0	69	79.5	10.91 / 11.0	11.91 / 12.0	M20x40	500	449.96 / 450	550	5	18.5	18	224

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Strong relationships.

Pioneering Innovation for a Sustainable Future

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