

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :		12845391
Frame	:	182/4TC		Locked rotor time	:	45s (cold) 25s (hot)
Output	:	3 HP (2.2 kW)		Temperature rise	:	80 K
Frequency	:	60 Hz		Duty cycle	:	Cont.(S1)
Rated voltage	:	575 V		Ambient temperature	:	-20°C to +40°C
Poles	:	2		Altitude	:	1000 m.a.s.l.
Rated current	:	3.01 A		Protection degree	:	IP55
	:	8.8x(Code K)		Cooling method	:	IC411 - TEFC
Rated speed	:	3515 rpm		Mounting	:	F-1
Rated torque	:	0.619 kgfm		Rotation ¹	:	Both (CW and CCW)
Insulation class	:	F		Noise level ²	:	68.0 dB(A)
Service factor	:	1.15		Starting method	:	Direct On Line
Moment of inertia (J)	:	0.0066 kgm ²		Approx. weight ³	:	28.5 kg
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	84.0	86.5	86.5	Max. traction	:	31 kgf
Power Factor	0.70	0.80	0.85	Max. compression	:	59 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
14.2	10.4	10.2	8.6	4.8	3.5	2.2
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6206 ZZ		6205 ZZ		
Sealing	:	V'Ring		Without Bearing Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
Lubricant type	:	Mobil Polyrex EM				
Notes						
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
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LOAD PERFORMANCE CURVE

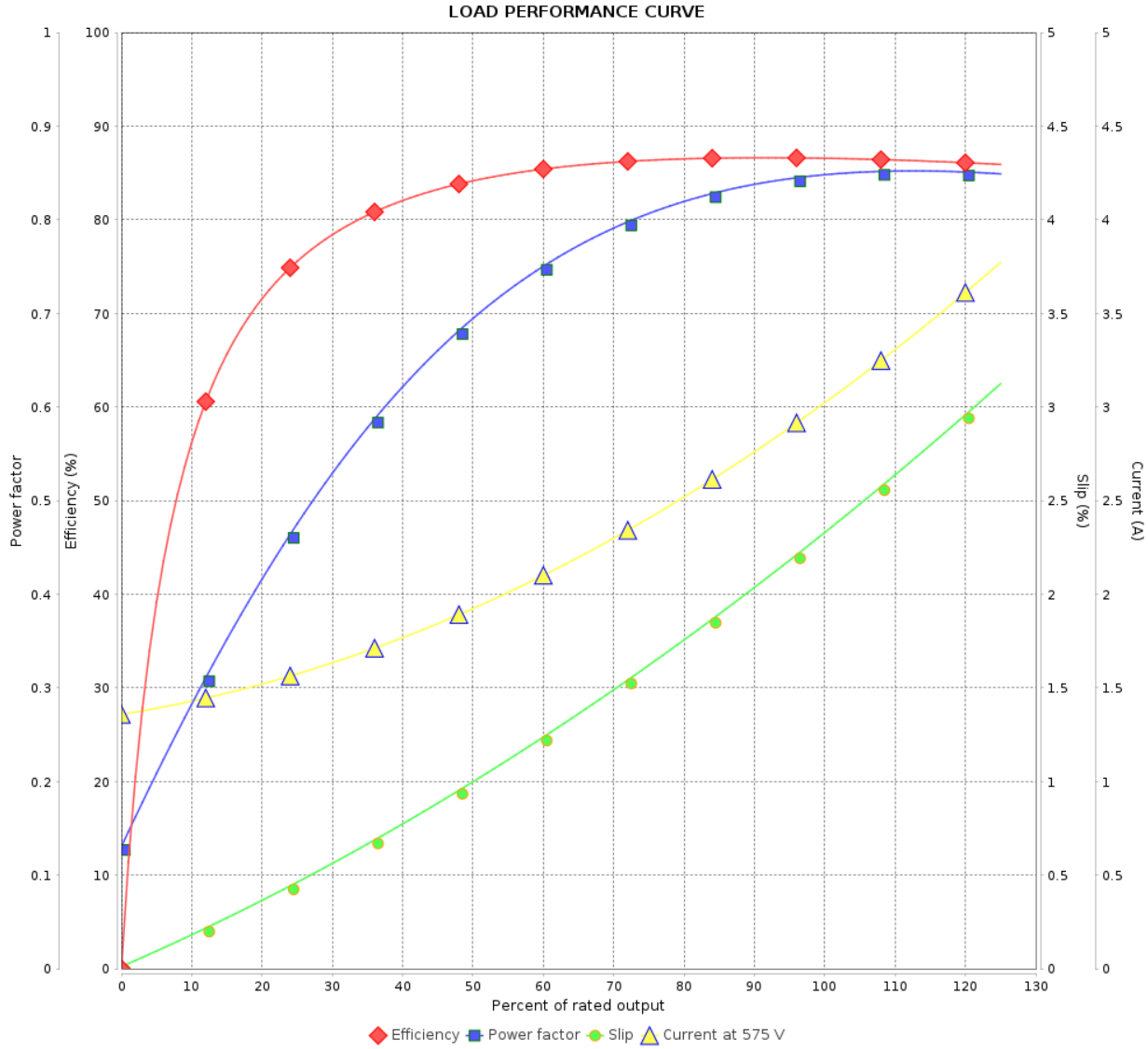
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Efficiency Three-Phase

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