

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :		12373688
Frame	:	143/5T			Locked rotor time	:	37s (cold) 21s (hot)
Output	:	1.5 HP (1.1 kW)			Temperature rise	:	80 K
Poles	:	2			Duty cycle	:	Cont.(S1)
Frequency	:	60 Hz			Ambient temperature	:	-20°C to +40°C
Rated voltage	:	575 V			Altitude	:	1000 m.a.s.l.
Rated current	:	1.57 A			Protection degree	:	IP56
L. R. Amperes	:	14.0 A			Cooling method	:	IC411 - TEFC
LRC	:	8.9x(Code L)			Mounting	:	F-1
No load current	:	0.664 A			Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	3480 rpm			Noise level <sup>2</sup>	:	68.0 dB(A)
Slip	:	3.33 %			Starting method	:	Direct On Line
Rated torque	:	0.313 kgfm			Approx. weight <sup>3</sup>	:	26.0 kg
Locked rotor torque	:	310 %					
Breakdown torque	:	370 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.0020 kgm <sup>2</sup>					
Design	:	B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	81.1	81.5	84.0	84.0	Max. traction	:	20 kgf
Power Factor	0.43	0.68	0.78	0.84	Max. compression	:	46 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)	
17.7	13.3	12.1	9.8	5.6	3.8	2.4	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6205 C3		6204 C3			
Sealing	:	Inpro/Seal		Inpro/Seal			
Lubrication interval	:	20000 h		20000 h			
Lubricant amount	:	4 g		4 g			
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

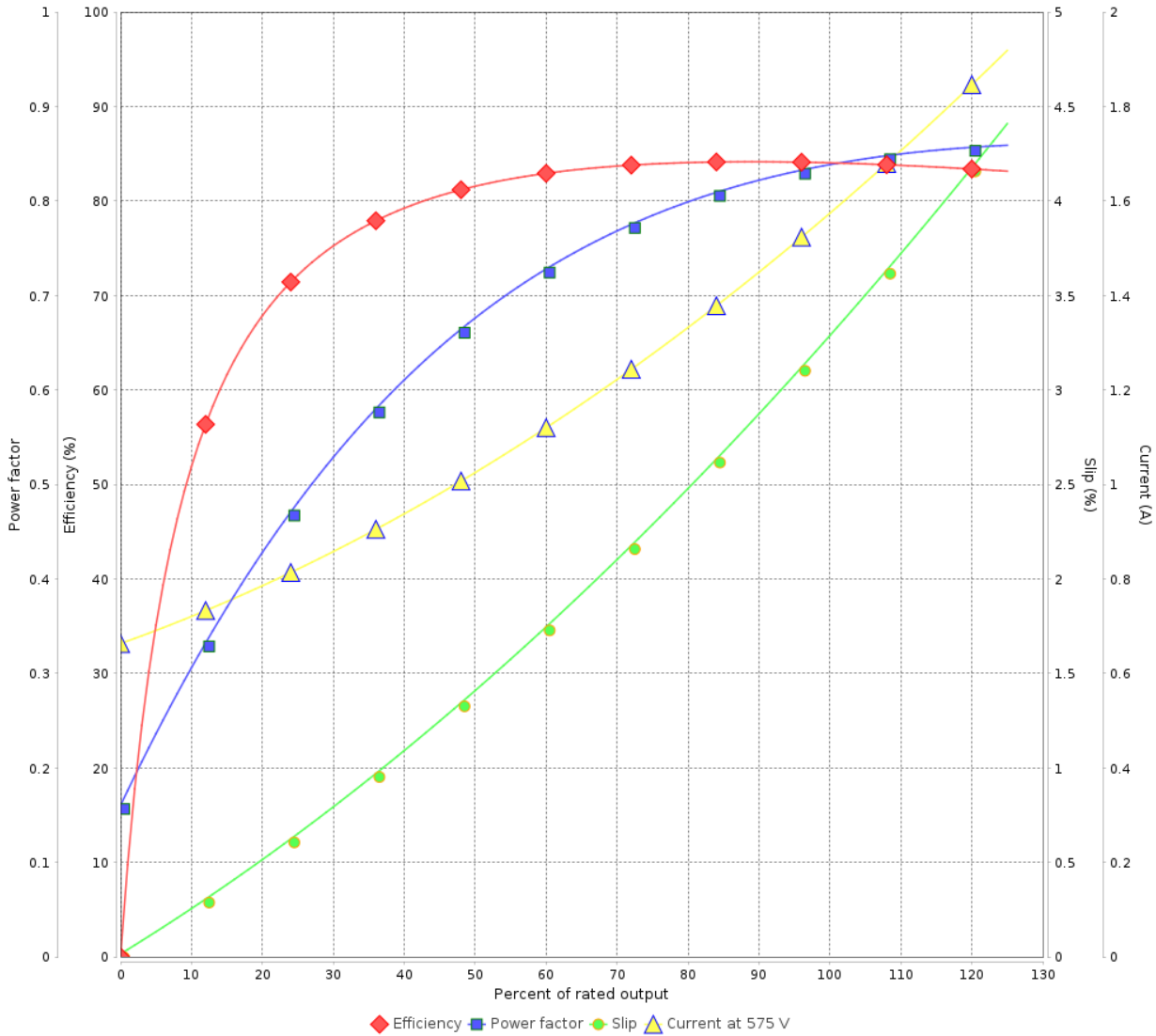
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 12373688

LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 1.57 A	Moment of inertia (J)	: 0.0020 kgm <sup>2</sup>
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.313 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	13/01/2024			