

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		14014596
Frame	:	444/5TC		Locked rotor time	:	48s (cold) 27s (hot)
Output	:	125 HP		Temperature rise	:	80 K
Poles	:	4		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	:	111 A		Protection degree	:	IP55
L. R. Amperes	:	723 A		Cooling method	:	IC411 - TEFC
LRC	:	6.5x(Code G)		Mounting	:	F-1
No load current	:	32.0 A		Rotation <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1785 rpm		Noise level <sup>2</sup>	:	73.0 dB(A)
Slip	:	0.83 %		Starting method	:	Direct On Line
Rated torque	:	50.8 kgfm		Approx. weight <sup>3</sup>	:	768 kg
Locked rotor torque	:	200 %				
Breakdown torque	:	229 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	2.41 kgm <sup>2</sup>				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.0	95.4	95.4	Max. traction : 638 kgf		
Power Factor	0.74	0.82	0.85	Max. compression : 1406 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)
4.5	3.4	3.1	2.4	1.4	0.9	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6319 C3		6316 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	8000 h		10000 h		
Lubricant amount	:	45 g		34 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.		
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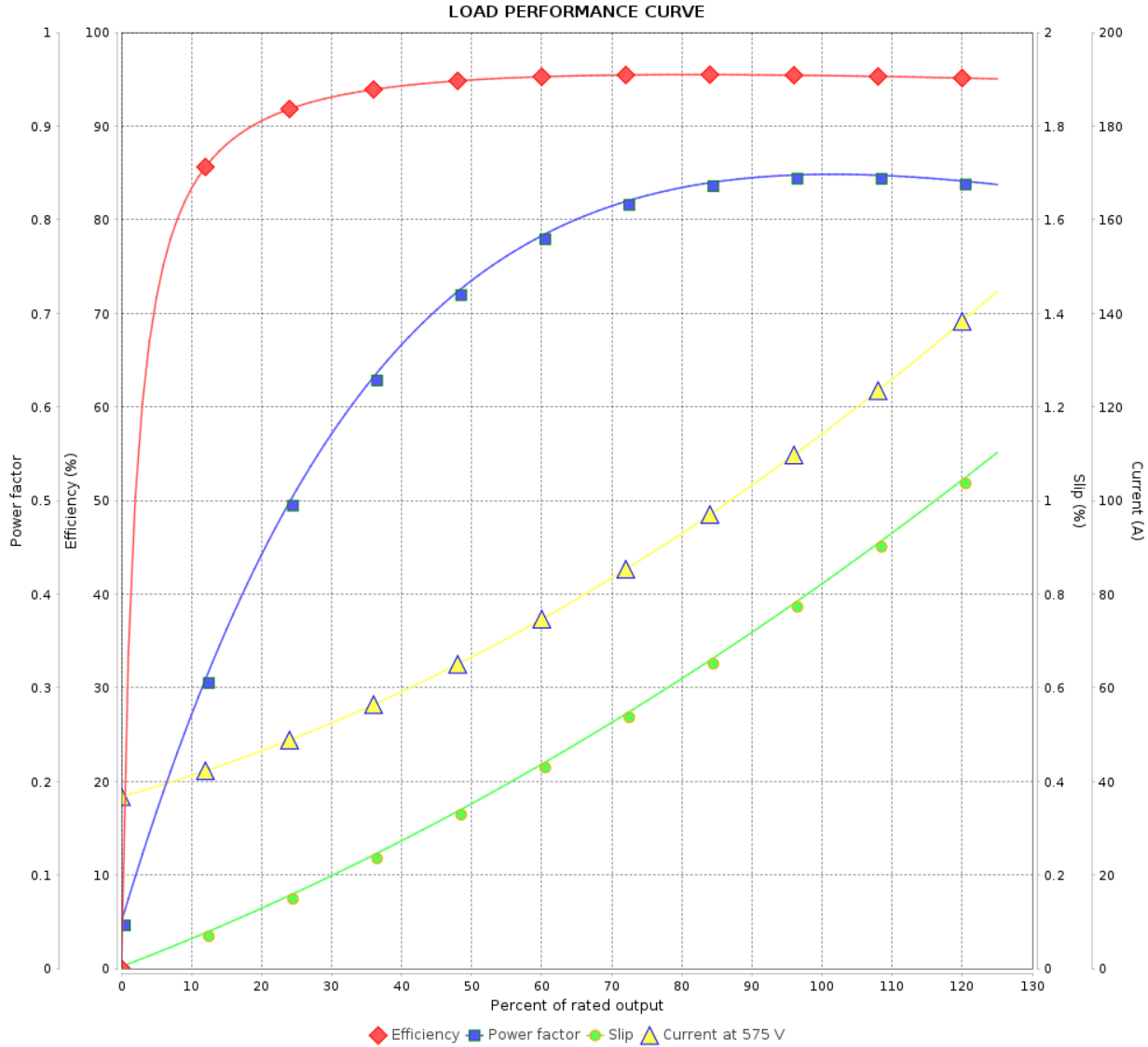
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase      Product code : 14014596



Performance : 575 V 60 Hz 4P

Rated current	: 111 A	Moment of inertia (J)	: 2.41 kgm <sup>2</sup>
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 50.8 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: B

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