

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11943385
Frame	:	364/5TC		Locked rotor time	:	27s (cold) 15s (hot)
Output	:	60 HP (45 kW)		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	:	57.3 A		Protection degree	:	IP55
L. R. Amperes	:	355 A		Cooling method	:	IC411 - TEFC
LRC	:	6.2x(Code G)		Mounting	:	F-1
No load current	:	22.4 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1780 rpm		Noise level ²	:	67.0 dB(A)
Slip	:	1.11 %		Starting method	:	Direct On Line
Rated torque	:	24.5 kgfm		Approx. weight ³	:	428 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	240 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.9448 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.1	94.5	95.0	Max. traction : 445 kgf		
Power Factor	0.71	0.80	0.83	Max. compression : 873 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)
5.1	4.1	3.8	2.6	1.7	1.2	0.8
Bearing type			<u>Drive end</u>		<u>Non drive end</u>	
Sealing			6314 C3		6314 C3	
Lubrication interval			Taconite Labyrinth		Taconite Labyrinth	
Lubricant amount			12000 h		12000 h	
Lubricant type			27 g		27 g	
			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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Date	22/10/2024				1 / 2	

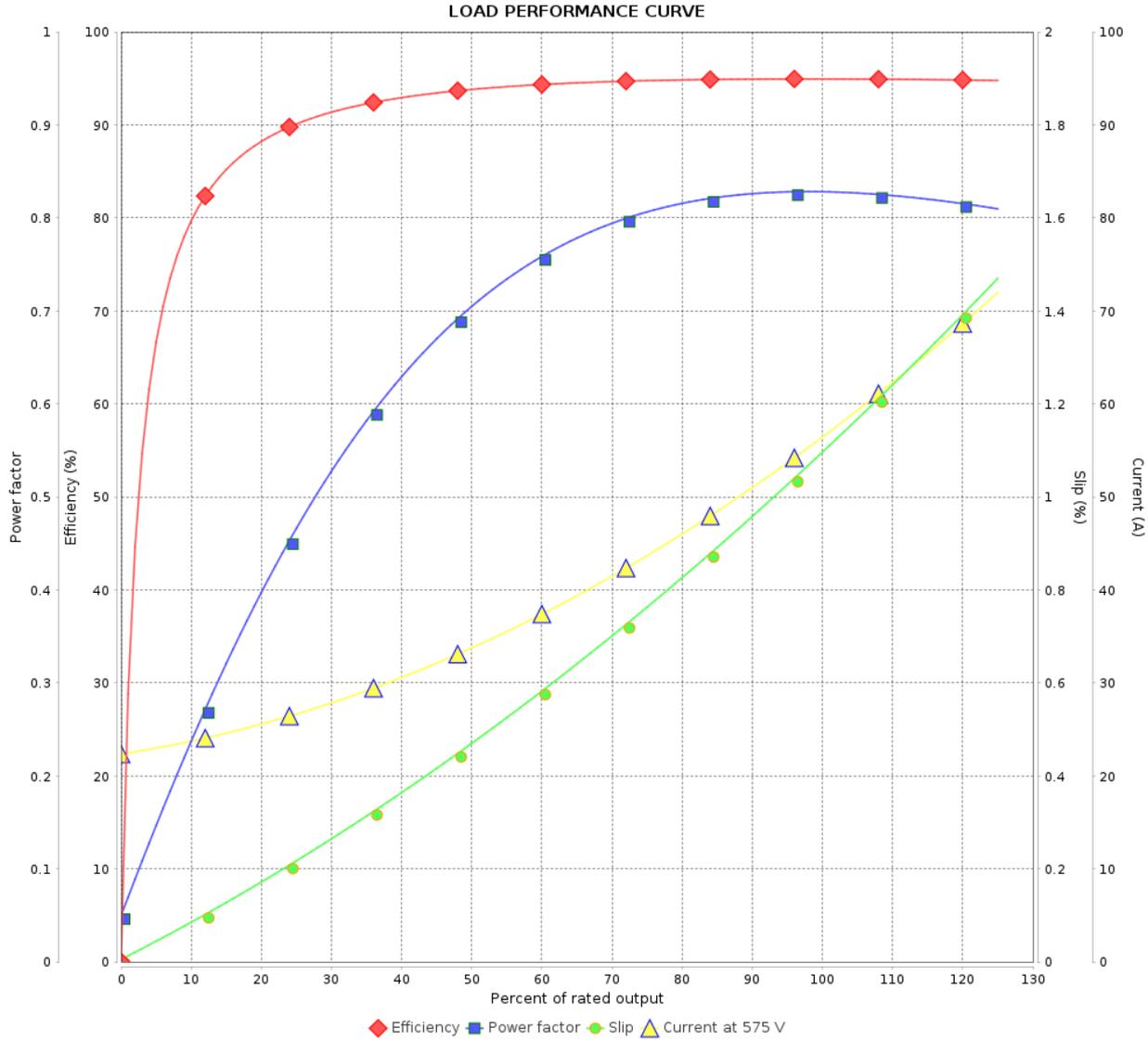
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943385



Performance : 575 V 60 Hz 4P

Rated current	: 57.3 A	Moment of inertia (J)	: 0.9448 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 24.5 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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