

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 11943530	
Frame	: 364/5TC		Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 75 HP (55 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	: 69.8 A		Protection degree	: IP55		
L. R. Amperes	: 446 A		Cooling method	: IC411 - TEFC		
LRC	: 6.4x(Code G)		Mounting	: F-1		
No load current	: 26.4 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	: 30.6 kgfm		Approx. weight ³	: 436 kg		
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.9798 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.5	95.0	95.4	Max. traction : 675 kgf		
Power Factor	0.68	0.78	0.83	Max. compression : 1111 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)
4.7	3.7	3.4	2.4	1.6	1.1	0.7
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:		6314 C3	6314 C3		
Sealing	:		Taconite Labyrinth	Taconite Labyrinth		
Lubrication interval	:		12000 h	12000 h		
Lubricant amount	:		27 g	27 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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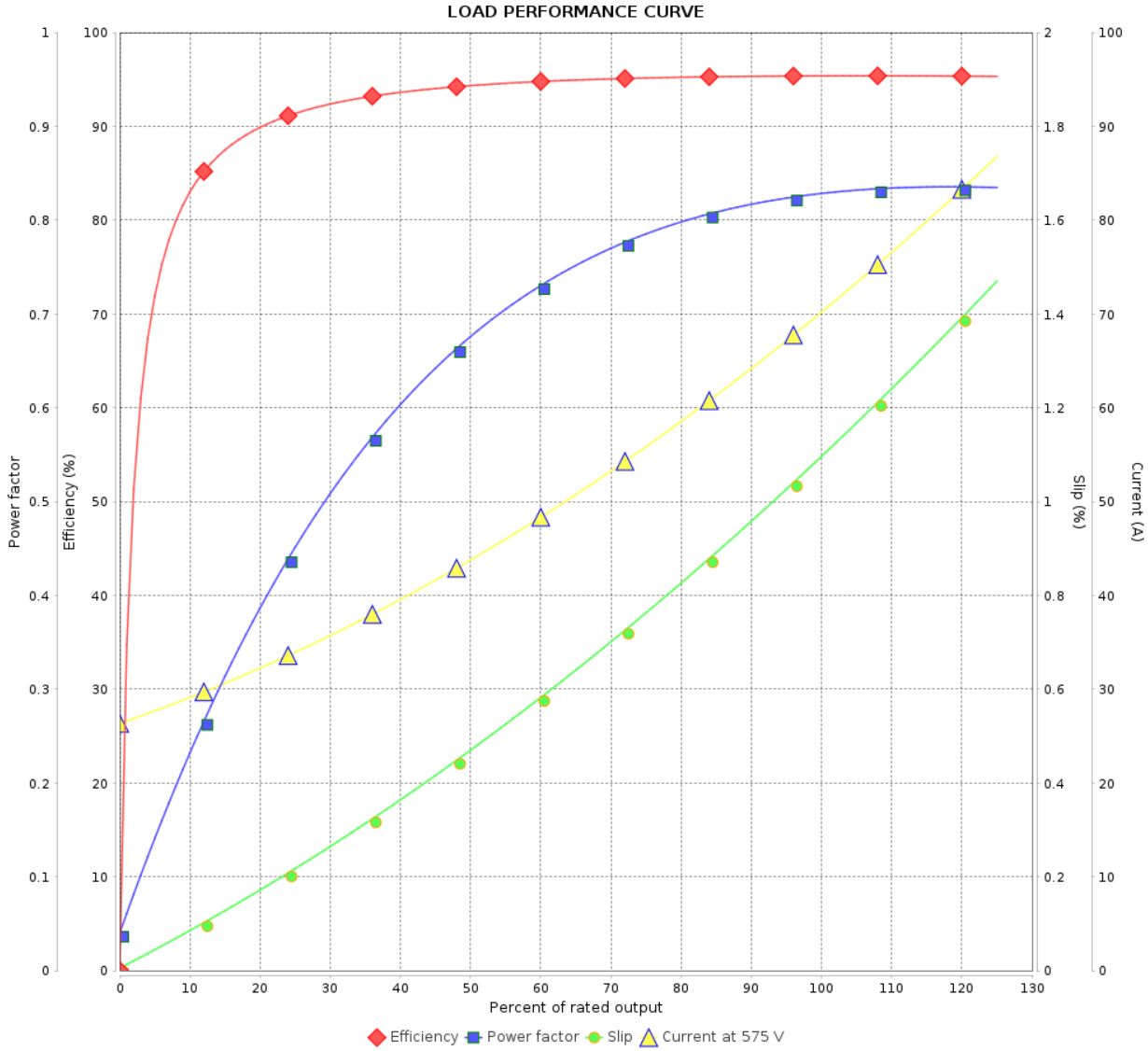
LOAD PERFORMANCE CURVE

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Customer : _____

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11943530



Performance : 575 V 60 Hz 4P

Rated current : 69.8 A
 LRC : 6.4
 Rated torque : 30.6 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 0.9798 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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