

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase			Product code : 14323484				
Frame	: 182/4TC		Locked rotor time	: 50s (cold) 28s (hot)			
Output	: 3 HP (2.2 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	: 3.17 A		Protection degree	: IP55			
L. R. Amperes	: 25.3 A		Cooling method	: IC411 - TEFC			
LRC	: 8.0x(Code K)		Mounting	: F-1			
No load current	: 1.68 A		Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1760 rpm		Noise level ²	: 56.0 dB(A)			
Slip	: 2.22 %		Starting method	: Direct On Line			
Rated torque	: 1.24 kgfm		Approx. weight ³	: 57.6 kg			
Locked rotor torque	: 250 %						
Breakdown torque	: 320 %						
Insulation class	: F						
Service factor	: 1.15						
Moment of inertia (J)	: 0.0117 kgm ²						
Design	: B						
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	87.5	88.5	89.5	Max. traction	: 54 kgf		
Power Factor	0.59	0.71	0.78	Max. compression	: 111 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)	
11.0	8.6	8.3	6.3	4.1	3.0	2.2	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6307 2RS		6206 2RS			
Sealing	:	Oil Seal		Lip 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.			
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

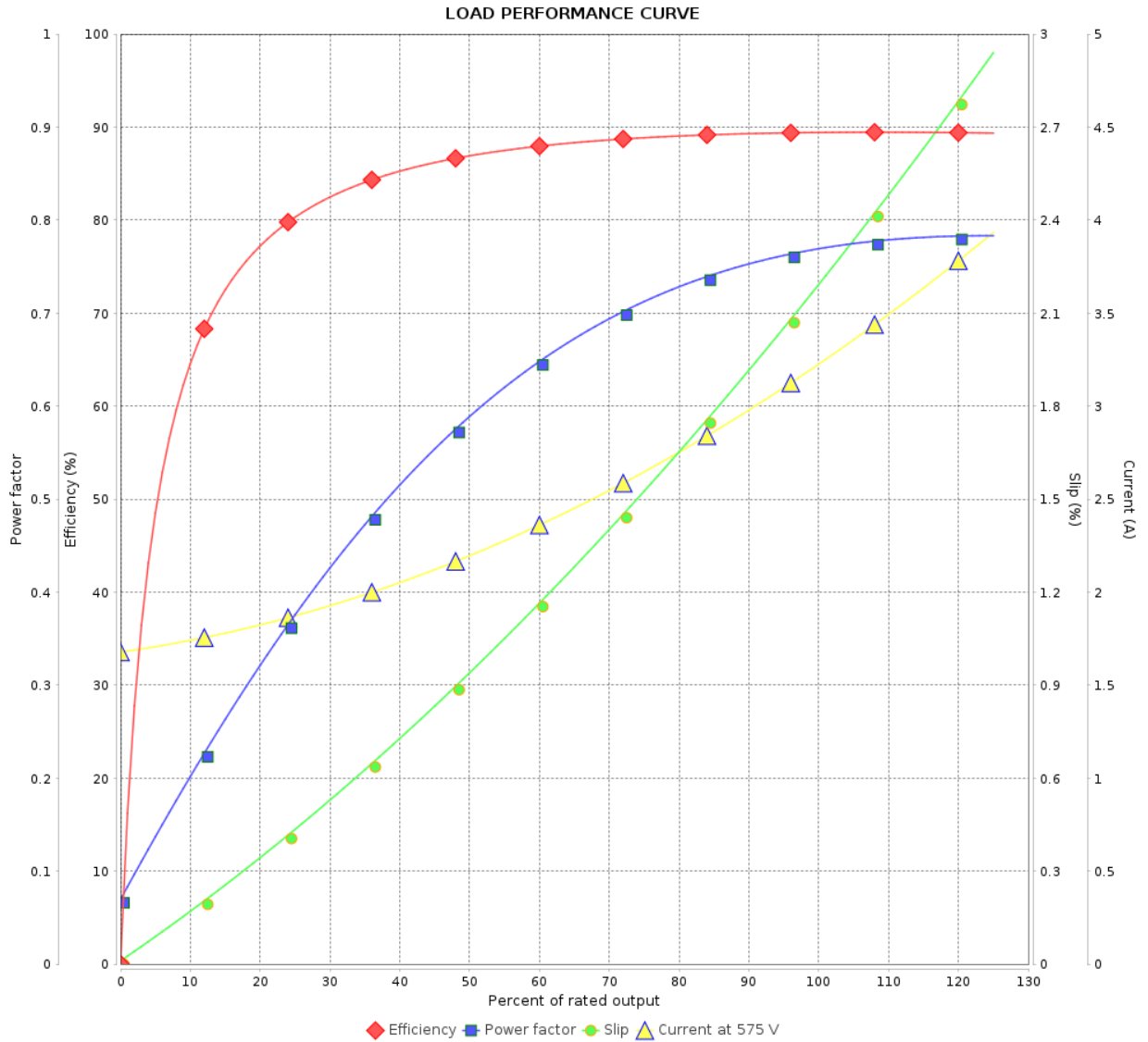
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Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14323484



Performance : 575 V 60 Hz 4P

Rated current : 3.17 A
 LRC : 8.0
 Rated torque : 1.24 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 320 %
 Rated speed : 1760 rpm

Moment of inertia (J) : 0.0117 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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