

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 12710849			
Frame	: 143/5TC			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	: IP55	
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 ¹	: Both (CW and CCW)	
Rated speed	: 3480 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 3.33 %			Starting method	: Direct On Line	
Rated torque	: 0.313 kgfm			Approx. weight ³	: 21.9 kg	
Locked rotor torque	: 310 %					
Breakdown torque	: 370 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0020 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	81.5	84.0	84.0	Max. traction : 22 kgf		
Power Factor	0.68	0.78	0.84	Max. compression : 44 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 ZZ		6204 ZZ		
Sealing	:	V'Ring		V'Ring		
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.		
Rev.	Changes Summary			Performed	Checked	Date
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LOAD PERFORMANCE CURVE

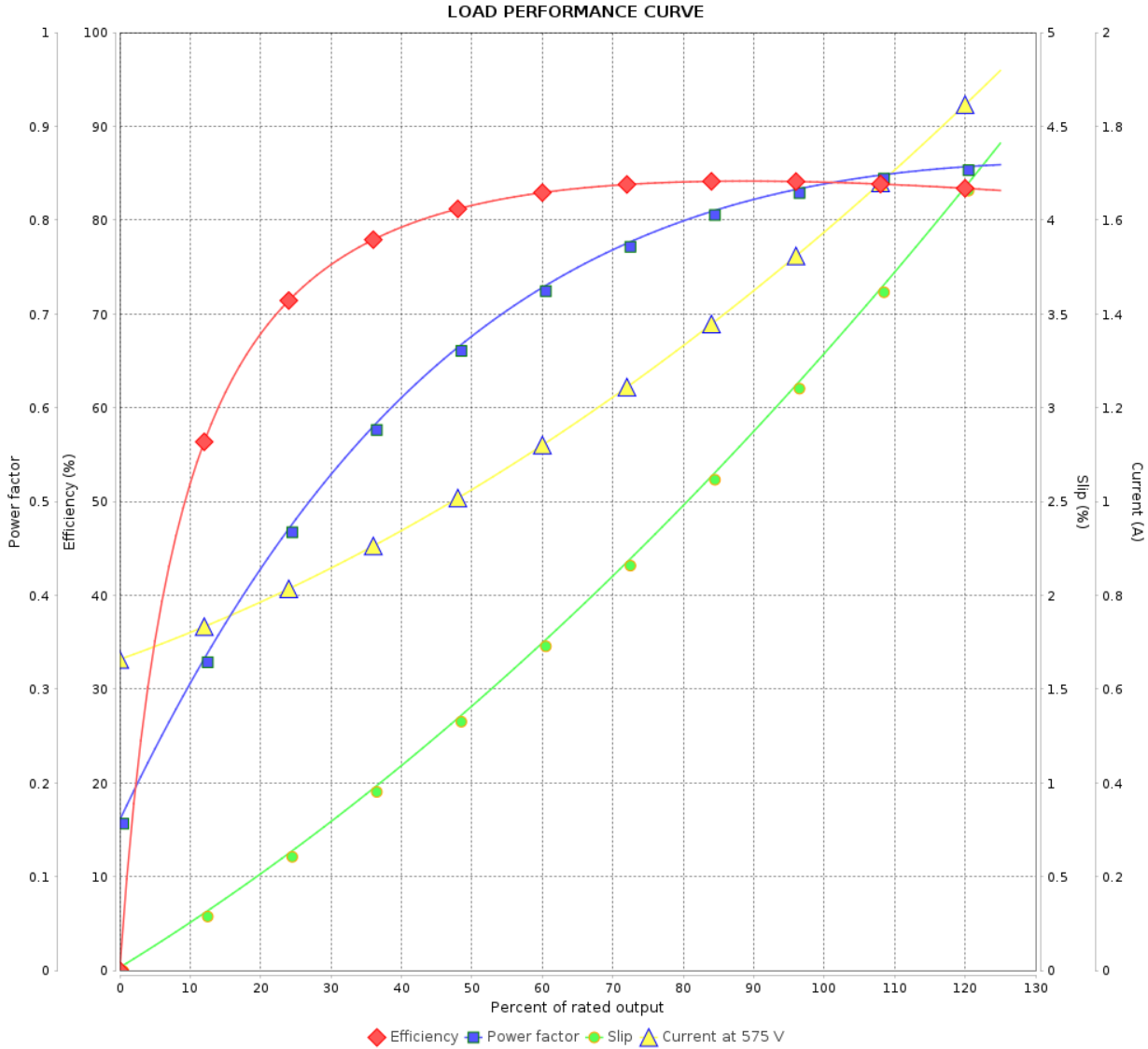
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Product code : 12710849



Performance : 575 V 60 Hz 2P

Rated current : 1.57 A
 LRC : 8.9
 Rated torque : 0.313 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 370 %
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0020 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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