

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12744548			
Frame	: 182/4TC	Locked rotor time	: 28s (cold) 16s (hot)			
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K			
Poles	: 6	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	: 2.03 A	Protection degree	: IP55			
L. R. Amperes	: 15.8 A	Cooling method	: IC411 - TEFC			
LRC	: 7.8x(Code M)	Mounting	: F-1			
No load current	: 1.30 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1170 rpm	Noise level ²	: 52.0 dB(A)			
Slip	: 2.50 %	Starting method	: Direct On Line			
Rated torque	: 0.930 kgfm	Approx. weight ³	: 43.6 kg			
Locked rotor torque	: 320 %					
Breakdown torque	: 400 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0206 kgm ²					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	84.0	86.5	87.5			
Power Factor	0.45	0.54	0.62			
Foundation loads		Max. traction	: 56 kgf			
		Max. compression	: 99 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)
13.4	10.3	9.3	8.8	5.8	4.8	3.5
		<u>Drive end</u>	<u>Non drive end</u>			
Bearing type	:	6207 ZZ	6206 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.		
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LOAD PERFORMANCE CURVE

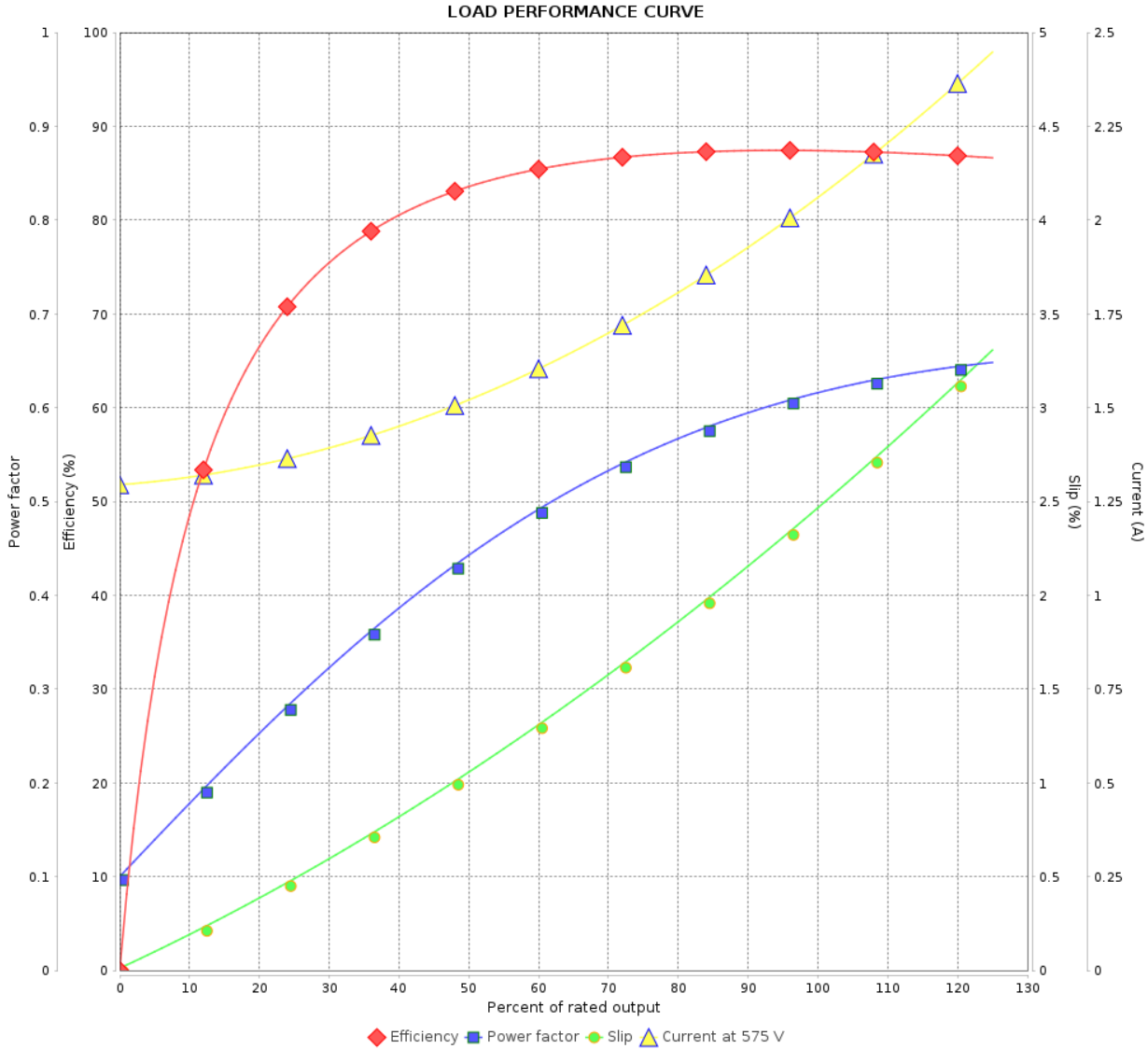
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Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12744548



Performance : 575 V 60 Hz 6P

Rated current : 2.03 A
 LRC : 7.8
 Rated torque : 0.930 kgfm
 Locked rotor torque : 320 %
 Breakdown torque : 400 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0206 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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