

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	16050237			
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	: IP56			
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	: 50.0 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 : 53 kgf				
		Max. compression : 103 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 C3		6206 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	7 g		5 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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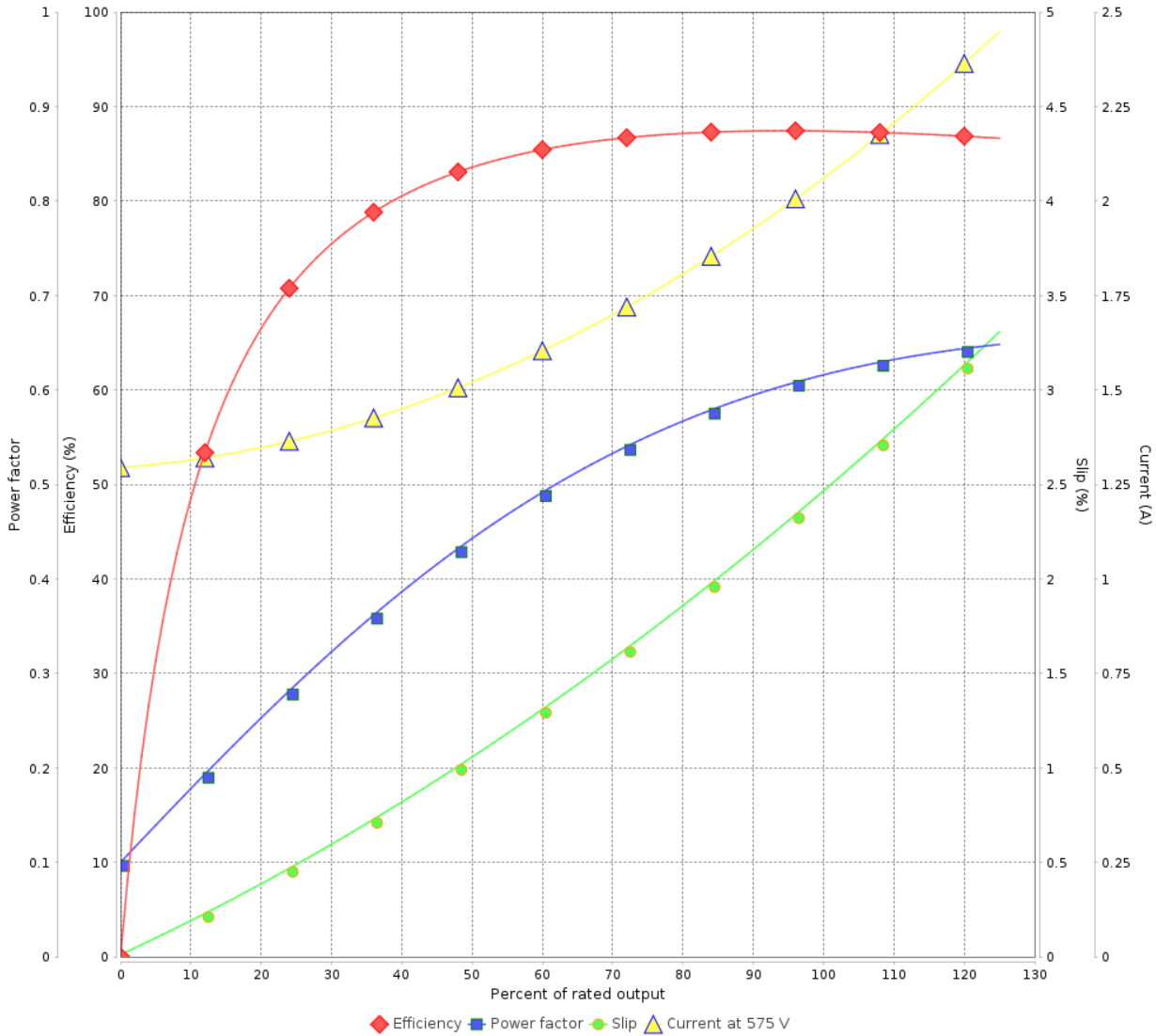
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Customer : _____

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Performance : 575 V 60 Hz 6P

Rated current	: 2.03 A	Moment of inertia (J)	: 0.0206 kgm ²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0.930 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

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