

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 11432605	
Frame	: 143/5T			Locked rotor time	: 30s (cold) 17s (hot)	
Output	: 2 HP (1.5 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	: 2.05 A			Protection degree	: IP56	
L. R. Amperes	: 18.2 A			Cooling method	: IC411 - TEFC	
LRC	: 8.9x(Code L)			Mounting	: F-1	
No load current	: 0.720 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3475 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 3.47 %			Starting method	: Direct On Line	
Rated torque	: 0.418 kgfm			Approx. weight ³	: 26.6 kg	
Locked rotor torque	: 350 %					
Breakdown torque	: 380 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.0026 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	82.0	82.5	85.5	85.5	Max. traction	: 32 kgf
Power Factor	0.47	0.71	0.80	0.86	Max. compression	: 58 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)
15.9	12.2	10.9	8.2	4.8	3.1	1.9
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6205 C3		6204 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	4 g		4 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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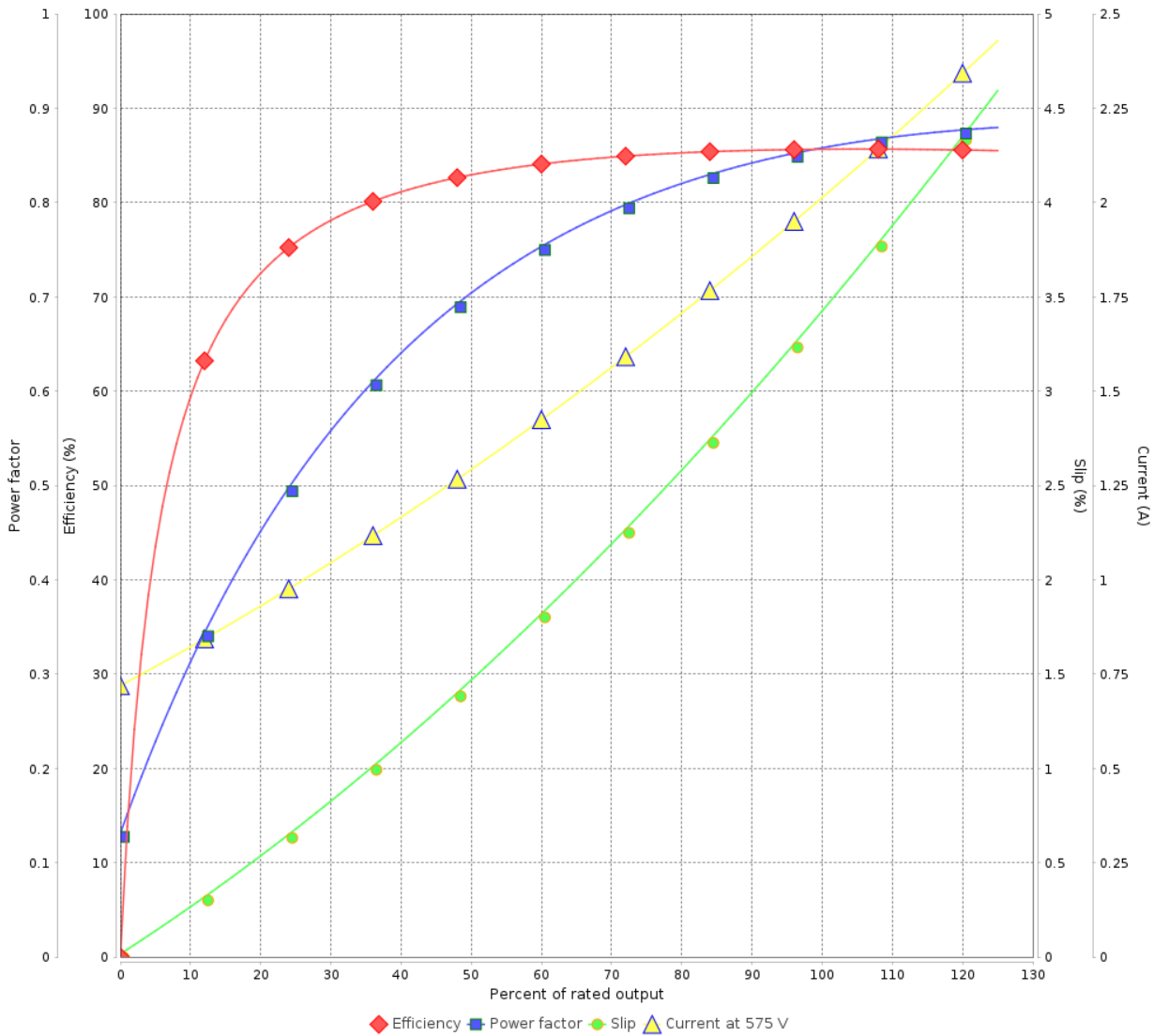
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Performance : 575 V 60 Hz 2P

Rated current	: 2.05 A	Moment of inertia (J)	: 0.0026 kgm ²
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 0.418 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3475 rpm	Design	: B

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