

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		12739947
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	:	IP55
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	:	23.9 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	50%	75%	100%	Foundation loads		
Efficiency (%)	82.5	85.5	85.5	Max. traction	:	33 kgf
Power Factor	0.71	0.80	0.86	Max. compression	:	57 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	:	Taconite Labyrinth		Taconite Labyrinth		
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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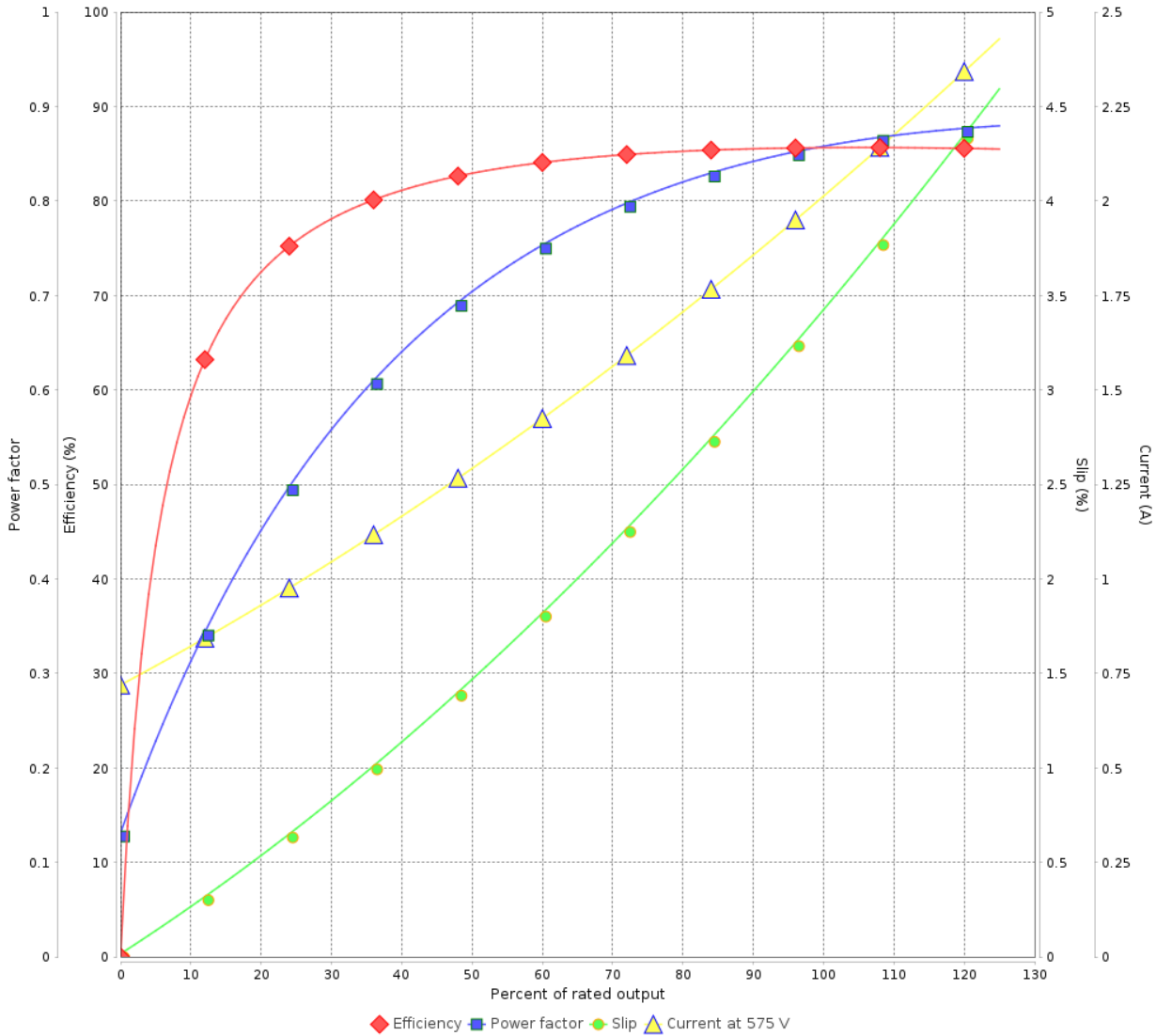
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Performance : 575 V 60 Hz 2P

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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