

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		12183769
Frame	:	213/5TC		Locked rotor time	:	32s (cold) 18s (hot)
Output	:	10 HP (7.5 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	:	9.28 A		Protection degree	:	IP55
L. R. Amperes	:	66.8 A		Cooling method	:	IC411 - TEFC
LRC	:	7.2x(Code H)		Mounting	:	F-1
No load current	:	2.88 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	3520 rpm		Noise level ²	:	68.0 dB(A)
Slip	:	2.22 %		Starting method	:	Direct On Line
Rated torque	:	2.06 kgfm		Approx. weight ³	:	76.4 kg
Locked rotor torque	:	220 %				
Breakdown torque	:	290 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.0268 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	89.5	90.2	90.2	Max. traction	:	72 kgf
Power Factor	0.79	0.87	0.90	Max. compression	:	148 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)
10.5	8.5	7.4	5.1	3.2	2.0	1.2
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6308 C3		6207 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	11 g		7 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.		
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				1 / 2	

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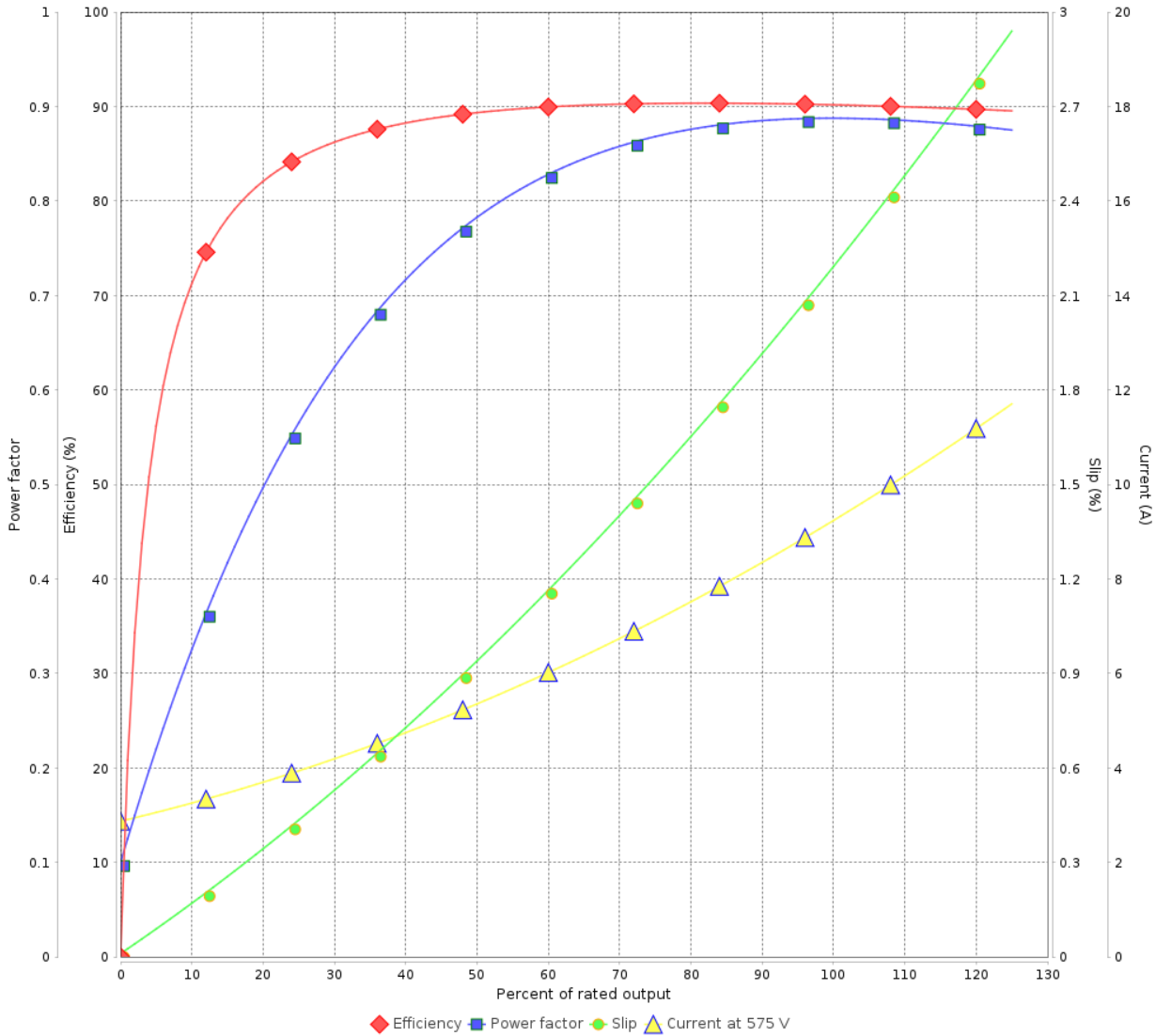
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Performance : 575 V 60 Hz 2P

Rated current : 9.28 A	Moment of inertia (J) : 0.0268 kgm ²
LRC : 7.2	Duty cycle : Cont.(S1)
Rated torque : 2.06 kgfm	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.25
Breakdown torque : 290 %	Temperature rise : 80 K
Rated speed : 3520 rpm	Design : B

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Performed by			Page 2 / 2	Revision
Checked by				
Date	13/01/2024			