

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		13870377	
Frame	:	213/5TD		Locked rotor time	:	36s (cold) 20s (hot)	
Output	:	7.5 HP (5.5 kW)		Temperature rise	:	80 K	
Poles	:	4		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	:	7.34 A		Protection degree	:	IP55	
L. R. Amperes	:	52.1 A		Cooling method	:	IC411 - TEFC	
LRC	:	7.1x(Code H)		Mounting	:	F-1	
No load current	:	3.36 A		Rotation ¹	:	Both (CW and CCW)	
Rated speed	:	1765 rpm		Noise level ²	:	58.0 dB(A)	
Slip	:	1.94 %		Starting method	:	Direct On Line	
Rated torque	:	3.08 kgfm		Approx. weight ³	:	78.8 kg	
Locked rotor torque	:	220 %					
Breakdown torque	:	310 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.0566 kgm ²					
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	89.5	91.0	91.7	Max. traction	:	137 kgf	
Power Factor	0.66	0.76	0.82	Max. compression	:	216 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)	
8.8	7.0	6.5	4.9	3.3	2.4	1.6	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6308 ZZ		6207 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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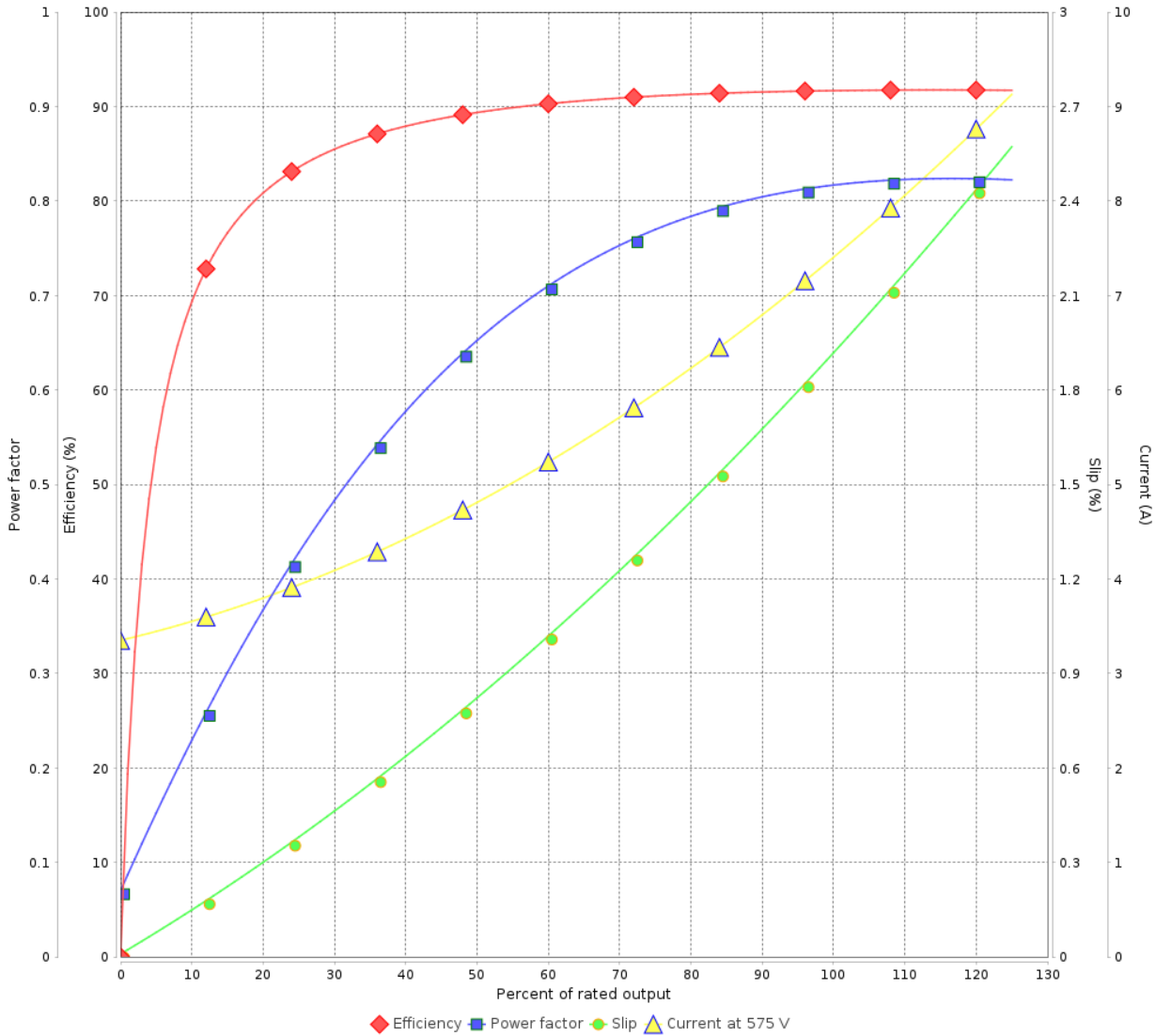
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Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13870377

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Performance : 575 V 60 Hz 4P

Rated current	: 7.34 A	Moment of inertia (J)	: 0.0566 kgm ²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.08 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	18/07/2024			