

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 13416636	
Frame	: 404/5T		Locked rotor time	: 23s (cold) 13s (hot)		
Output	: 100 HP (75 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	: 92.8 A		Protection degree	: IP56		
L. R. Amperes	: 575 A		Cooling method	: IC411 - TEFC		
LRC	: 6.2x(Code G)		Mounting	: F-1		
No load current	: 25.6 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1775 rpm		Noise level ²	: 68.0 dB(A)		
Slip	: 1.39 %		Starting method	: Direct On Line		
Rated torque	: 40.9 kgfm		Approx. weight ³	: 565 kg		
Locked rotor torque	: 240 %					
Breakdown torque	: 220 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.26 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.0	95.4	Max. traction : 603 kgf	
Power Factor	0.54	0.77	0.84	0.85	Max. compression : 1168 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)
4.6	3.8	3.7	2.0	1.4	0.8	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-316 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	7000 h		12000 h		
Lubricant amount	:	34 g		27 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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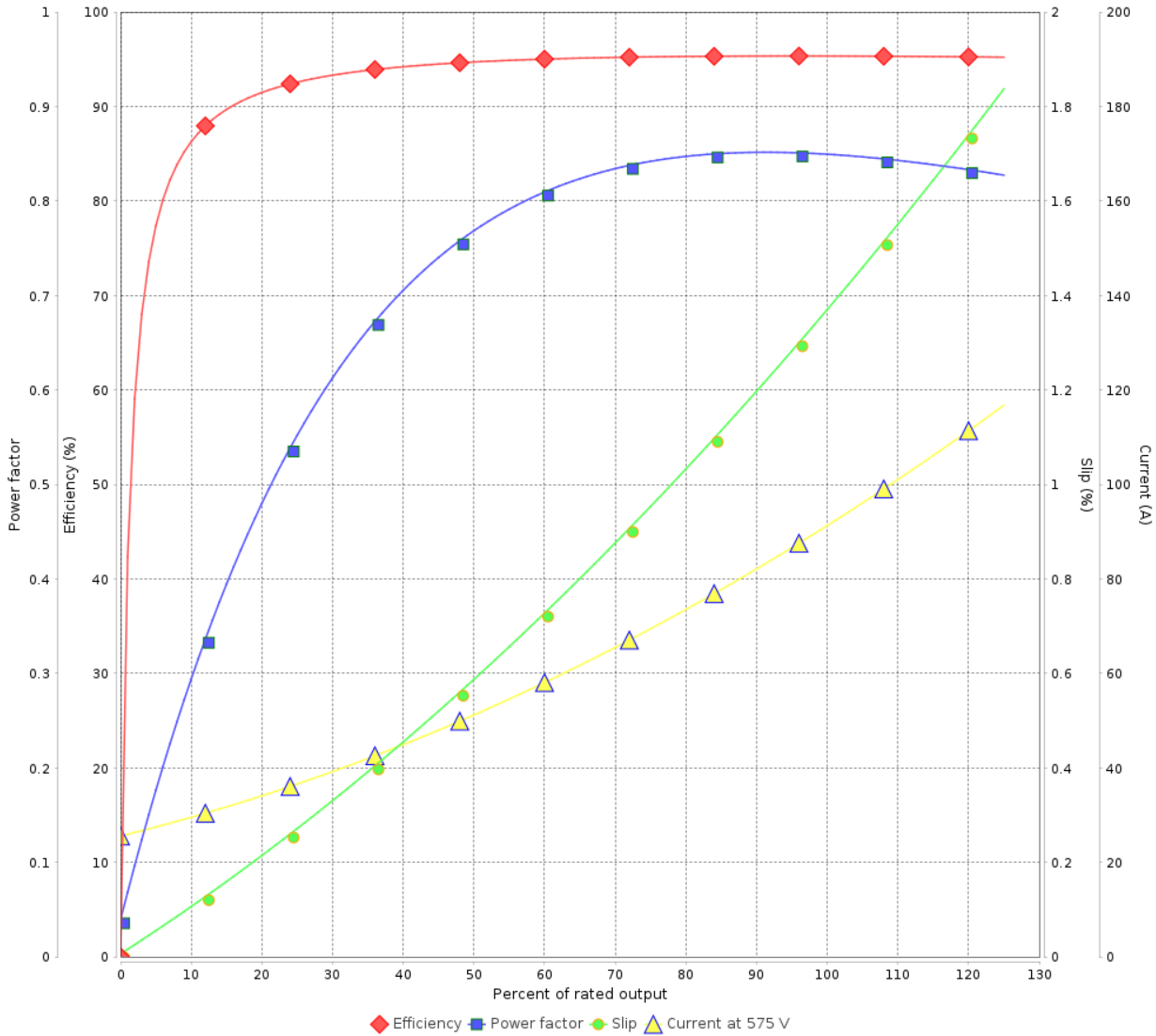
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Performance : 575 V 60 Hz 4P

Rated current	: 92.8 A	Moment of inertia (J)	: 1.26 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 40.9 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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