

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	13950649			
Frame	: 324/6TD	Locked rotor time	: 36s (cold) 20s (hot)			
Output	: 40 HP (30 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	: 37.7 A	Protection degree	: IP55			
L. R. Amperes	: 230 A	Cooling method	: IC411 - TEFC			
LRC	: 6.1x(Code G)	Mounting	: F-1			
No load current	: 13.6 A	Rotation ¹	: Both (CW and CCW)			
Rated speed	: 1775 rpm	Noise level ²	: 66.0 dB(A)			
Slip	: 1.39 %	Starting method	: Direct On Line			
Rated torque	: 16.4 kgfm	Approx. weight ³	: 280 kg			
Locked rotor torque	: 229 %					
Breakdown torque	: 240 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.3861 kgm ²					
Design	: B					
Output	50%	75%	100%			
Efficiency (%)	93.6	94.1	94.1			
Power Factor	0.72	0.80	0.85			
Foundation loads						
Max. traction		: 354 kgf				
Max. compression		: 634 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)
6.1	5.1	4.9	2.8	1.9	1.2	0.8
		<u>Drive end</u>			<u>Non drive end</u>	
Bearing type	:	6312 C3			6212 C3	
Sealing	:	Inpro/Seal			Inpro/Seal	
Lubrication interval	:	20000 h			20000 h	
Lubricant amount	:	21 g			13 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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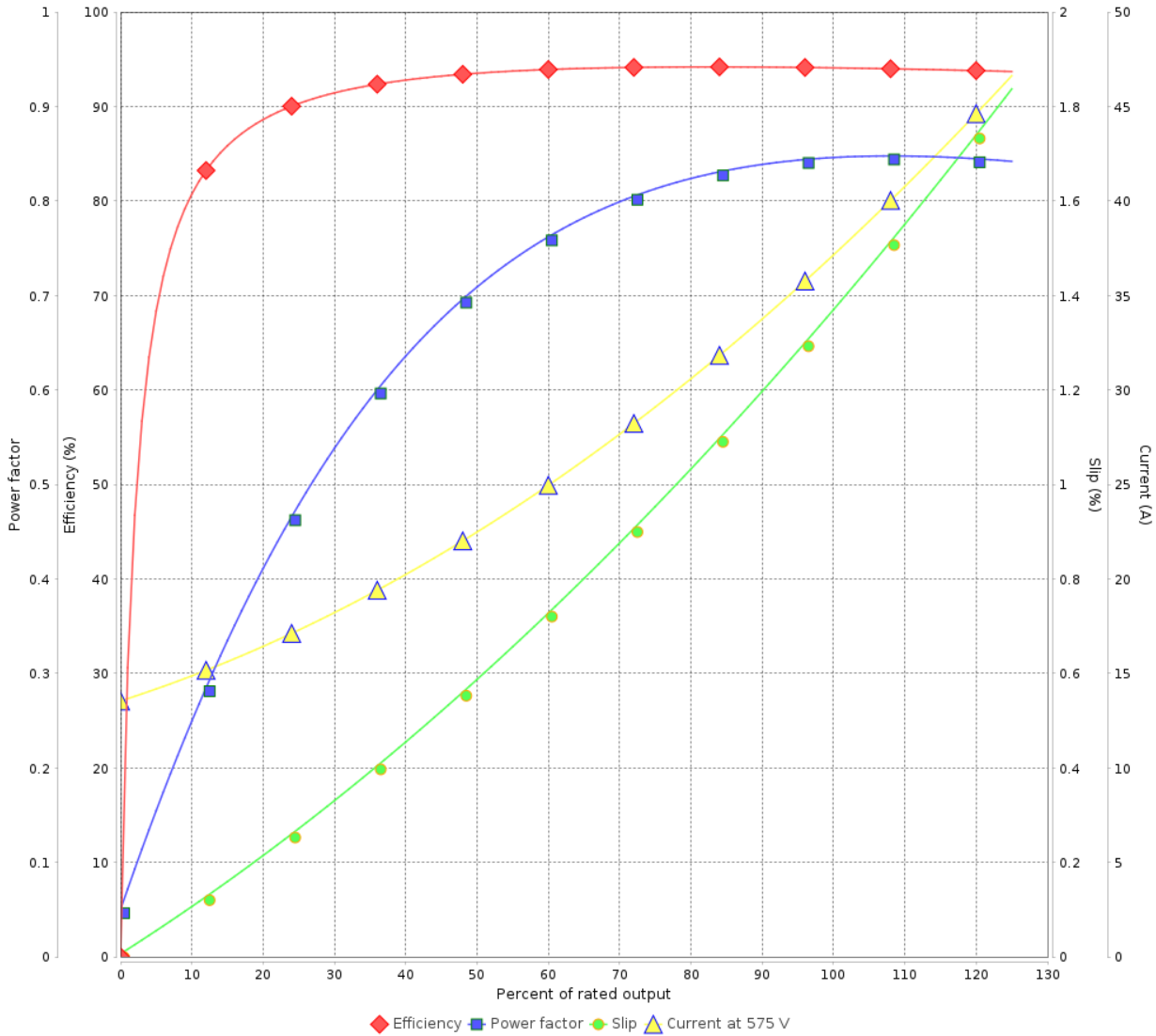
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Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13950649

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Performance : 575 V 60 Hz 4P

Rated current	: 37.7 A	Moment of inertia (J)	: 0.3861 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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