

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code : 13585405	
Frame	:	324/6TC			Locked rotor time	: 27s (cold) 15s (hot)
Output	:	50 HP (37 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	:	47.4 A			Protection degree	: IP55
L. R. Amperes	:	294 A			Cooling method	: IC411 - TEFC
LRC	:	6.2x(Code G)			Mounting	: F-1
No load current	:	18.8 A			Rotation ¹	: Both (CW and CCW)
Rated speed	:	1775 rpm			Noise level ²	: 70.0 dB(A)
Slip	:	1.39 %			Starting method	: Direct On Line
Rated torque	:	20.4 kgfm			Approx. weight ³	: 281 kg
Locked rotor torque	:	229 %				
Breakdown torque	:	270 %				
Insulation class	:	F				
Service factor	:	1.25				
Moment of inertia (J)	:	0.3861 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	93.0	94.1	94.5	Max. traction : 554 kgf		
Power Factor	0.66	0.77	0.83	Max. compression : 835 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)
5.7	4.9	4.7	2.7	1.9	1.2	0.9
			<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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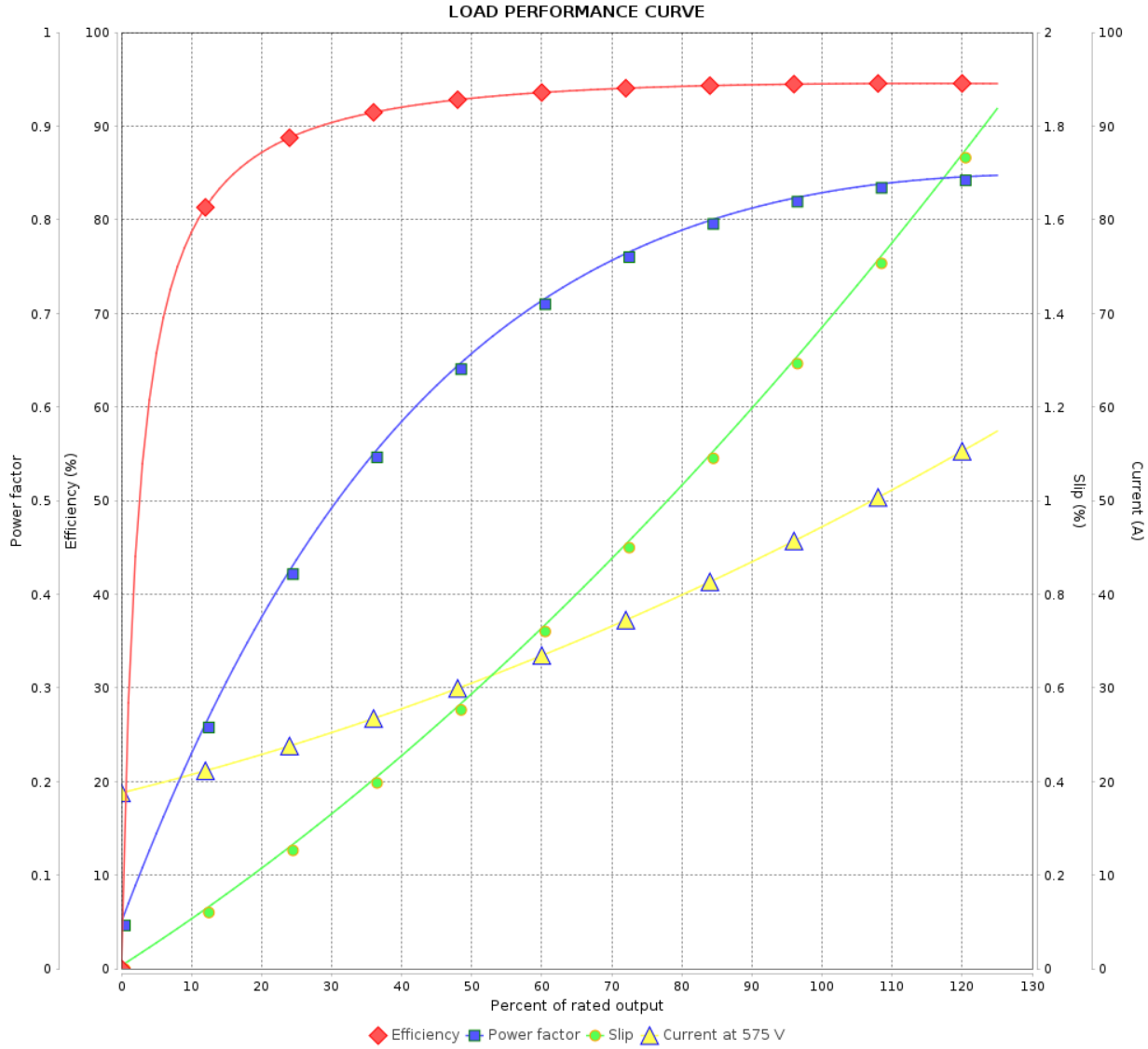
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 13585405



Performance : 575 V 60 Hz 4P

Rated current	: 47.4 A	Moment of inertia (J)	: 0.3861 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 20.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

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