

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		11164525
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	: 90.4 A			Protection degree	: IP55	
L. R. Amperes	: 660 A			Cooling method	: IC411 - TEFC	
LRC	: 7.3x(Code H)			Mounting	: F-1	
No load current	: 30.4 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1780 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 1.11 %			Starting method	: Direct On Line	
Rated torque	: 40.8 kgfm			Approx. weight ³	: 531 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
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 (%)	0.000	95.0	95.0	95.4	Max. traction : 778 kgf	
Power Factor	0.00	0.77	0.84	0.87	Max. compression : 1310 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)
4.7	3.8	3.7	2.2	1.5	0.9	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	NU-316 C3		6314 C3		
Sealing	:	WSeal		WSeal		
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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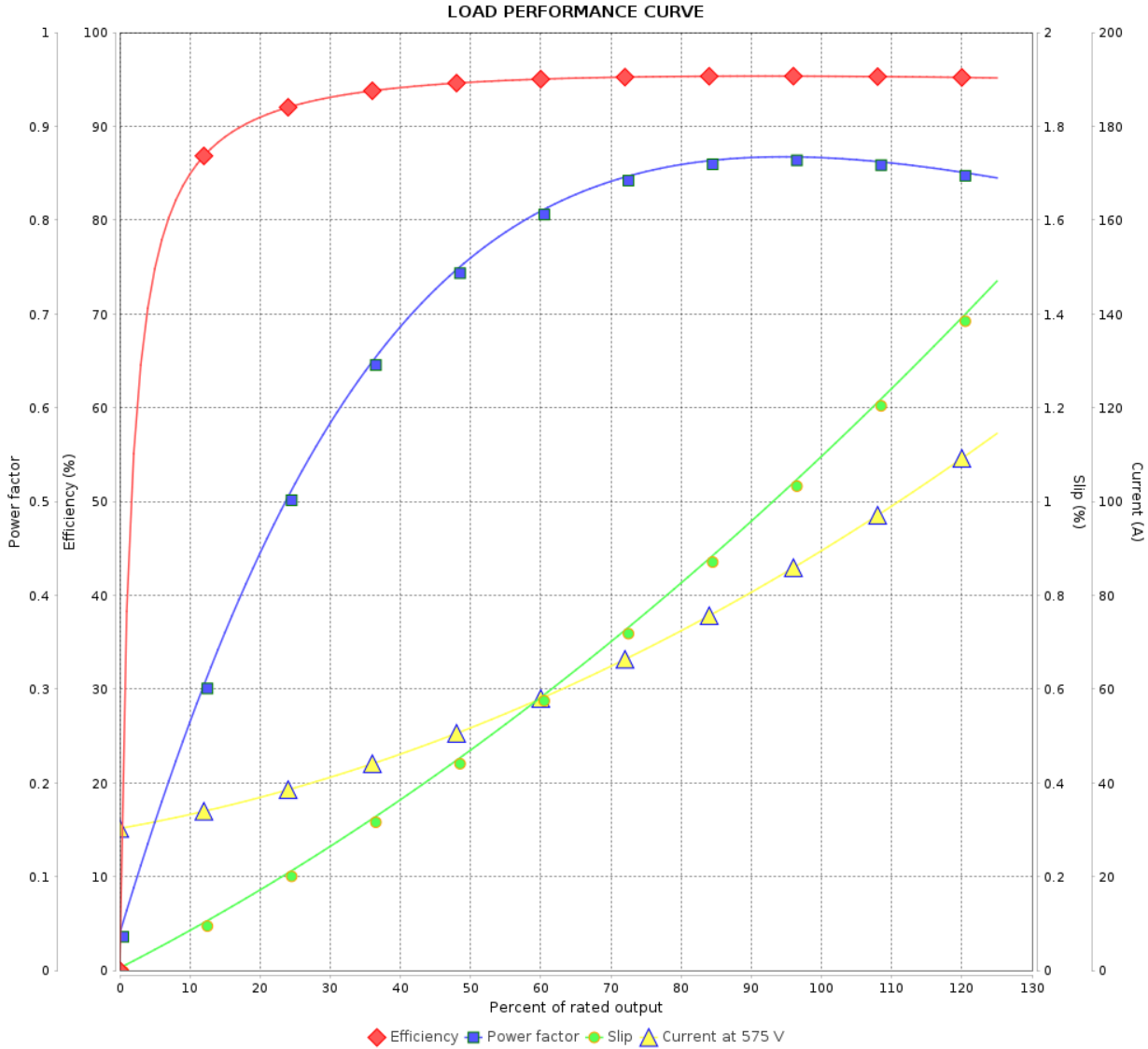
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11164525



Performance : 575 V 60 Hz 4P

Rated current	: 90.4 A	Moment of inertia (J)	: 1.26 kgm ²
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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