

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13942724			
Frame	: 444/5TC		Locked rotor time	: 36s (cold) 20s (hot)		
Output	: 100 HP (75 kW)		Temperature rise	: 80 K		
Poles	: 6		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	: 96.7 A		Protection degree	: IP55		
L. R. Amperes	: 599 A		Cooling method	: IC411 - TEFC		
LRC	: 6.2x(Code G)		Mounting	: F-1		
No load current	: 36.0 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1189 rpm		Noise level ²	: 69.0 dB(A)		
Slip	: 0.92 %		Starting method	: Direct On Line		
Rated torque	: 61.0 kgfm		Approx. weight ³	: 771 kg		
Locked rotor torque	: 220 %					
Breakdown torque	: 250 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 3.68 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	94.5	95.0	95.0	Max. traction : 949 kgf		
Power Factor	0.68	0.78	0.82	Max. compression : 1720 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)
5.2	4.2	3.8	2.8	1.8	1.3	0.9
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6319 C3		6316 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	13000 h		16000 h		
Lubricant amount	:	45 g		34 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

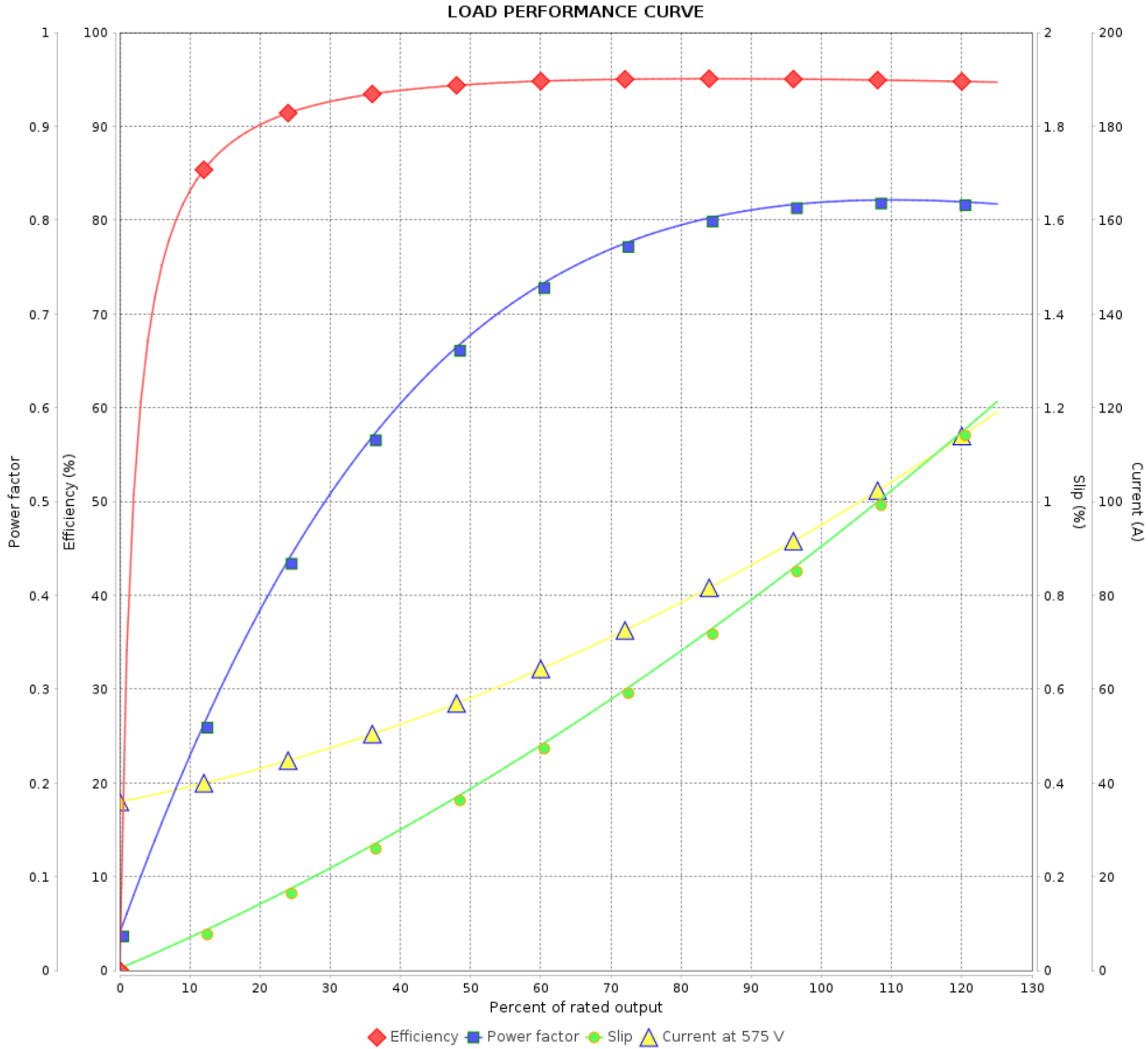
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13942724



Performance : 575 V 60 Hz 6P

Rated current	: 96.7 A	Moment of inertia (J)	: 3.68 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 61.0 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1189 rpm	Design	: B

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