

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	: 39.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1188 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.00 %	Vibration	: B
Rated torque	: 61 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 210 %	Approx. weight ³	: 715 kg
Breakdown torque	: 240 %	Painting plan	: 203A (ISO 12944 - C3)
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.25	Design	: B
Moment of inertia (J)	: 3.68 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	94.5	95.0	95.0	Max. traction	: 924 kgf
Power Factor	0.68	0.78	0.82	Max. compression	: 1641 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	2.7	1.8	1.3	0.9

	Drive end	Non drive end
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

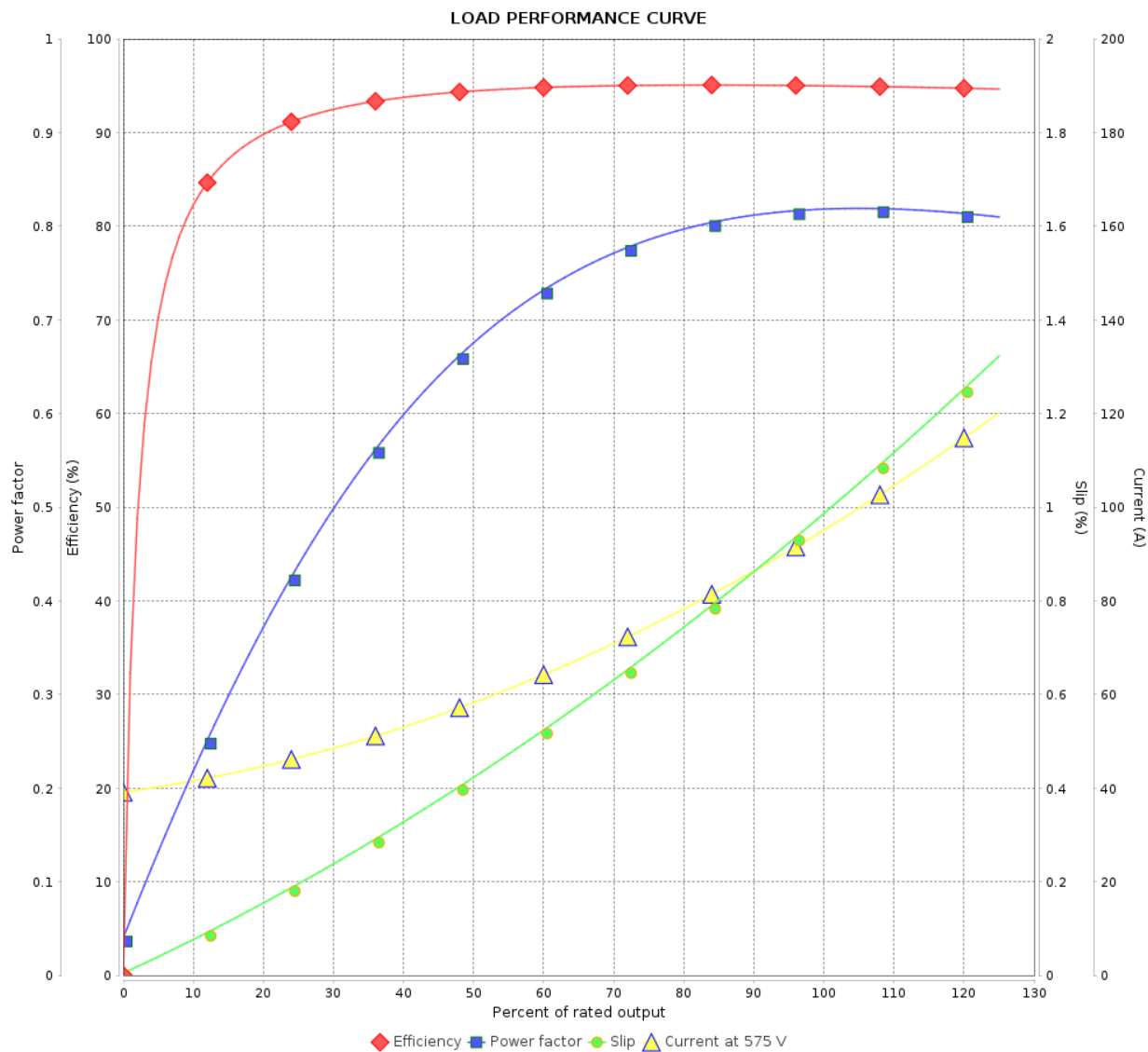
Three Phase Induction Motor - Squirrel Cage



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 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1188 rpm	Design	: B

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