

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase

Product code : 11749946

Frame	: L112M	Locked rotor time	: 59s (cold) 33s (hot)
Output	: 2.2 kW (3 HP)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.63 A	Protection degree	: IP55
L. R. Amperes	: 26.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.4	Mounting	: B3R(E)
No load current	: 2.22 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1165 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.92 %	Starting method	: Direct On Line
Rated torque	: 1.84 kgfm	Approx. weight ³	: 51.9 kg
Locked rotor torque	: 310 %		
Breakdown torque	: 360 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0293 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.2	88.5	89.5	Max. traction	: 113 kgf
Power Factor	0.47	0.60	0.68	Max. compression	: 165 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)
11.1	8.9	8.3	6.7	4.6	3.6	2.7

	Drive end	Non drive end
Bearing type	: 6207 ZZ	: 6206 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
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 IEC 60034-1.

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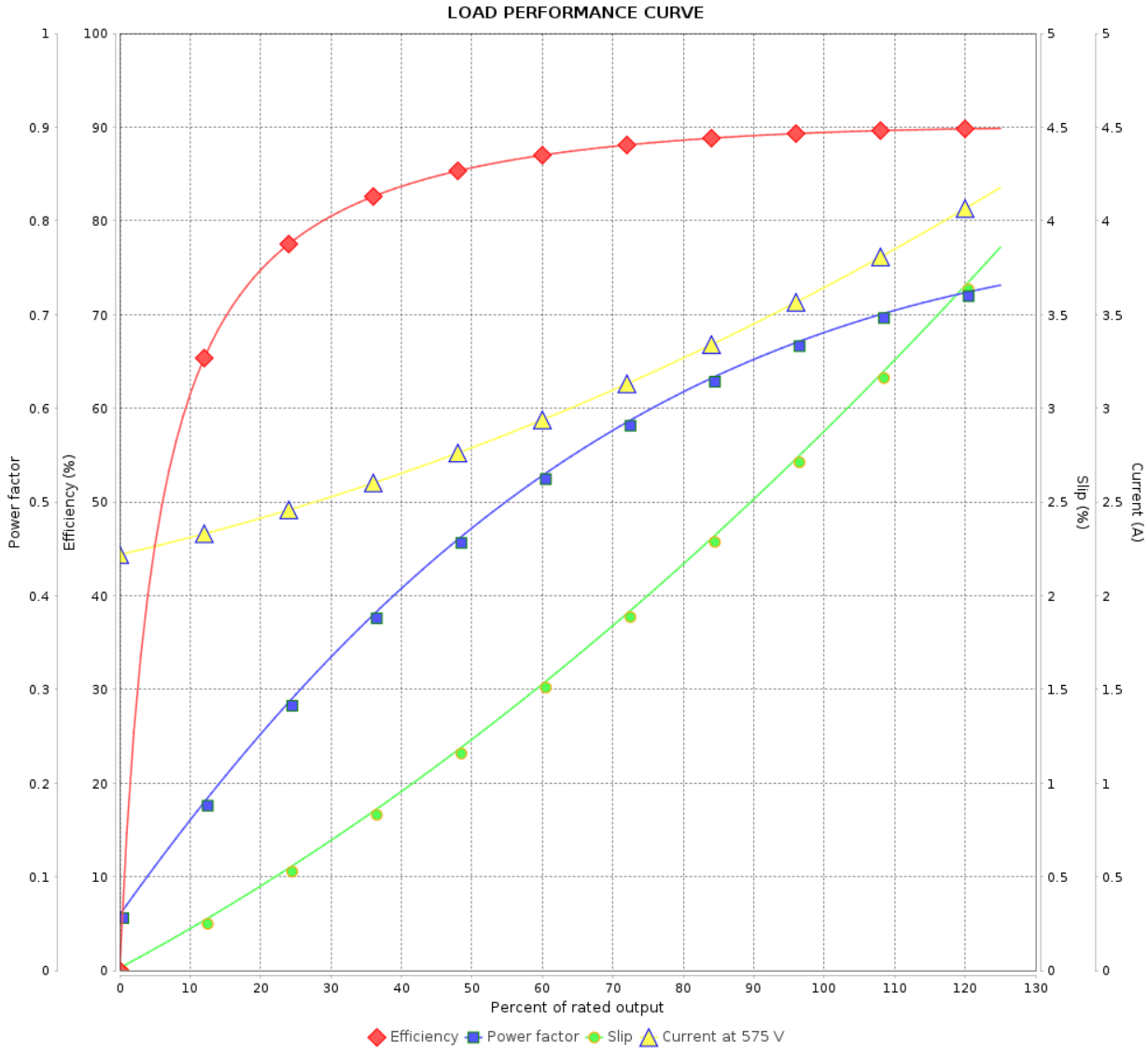
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Performance : 575 V 60 Hz 6P

Rated current : 3.63 A
 LRC : 7.4
 Rated torque : 1.84 kgfm
 Locked rotor torque : 310 %
 Breakdown torque : 360 %
 Rated speed : 1165 rpm

Moment of inertia (J) : 0.0293 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : N

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