

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 16583197

Frame	: 324/6T	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	: 48.1 A	Protection degree	: IP23
L. R. Amperes	: 289 A	Cooling method	: IC01 - ODP
LRC	: 6.0x(Code G)	Mounting	: F-1
No load current	: 17.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Vibration	: A
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 20 kgfm	Approx. weight ³	: 226 kg
Locked rotor torque	: 200 %		: 203A (ISO 12944 - C3)
Breakdown torque	: 220 %		: RAL 5009
Insulation class	: F	Design	: B
Service factor	: 1.15		
Moment of inertia (J)	: 0.2520 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	93.0	Max. traction	: 0 kgf
Power Factor	0.67	0.78	0.83	Max. compression	: 0 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6312 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	11 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
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Date	25/09/2026			

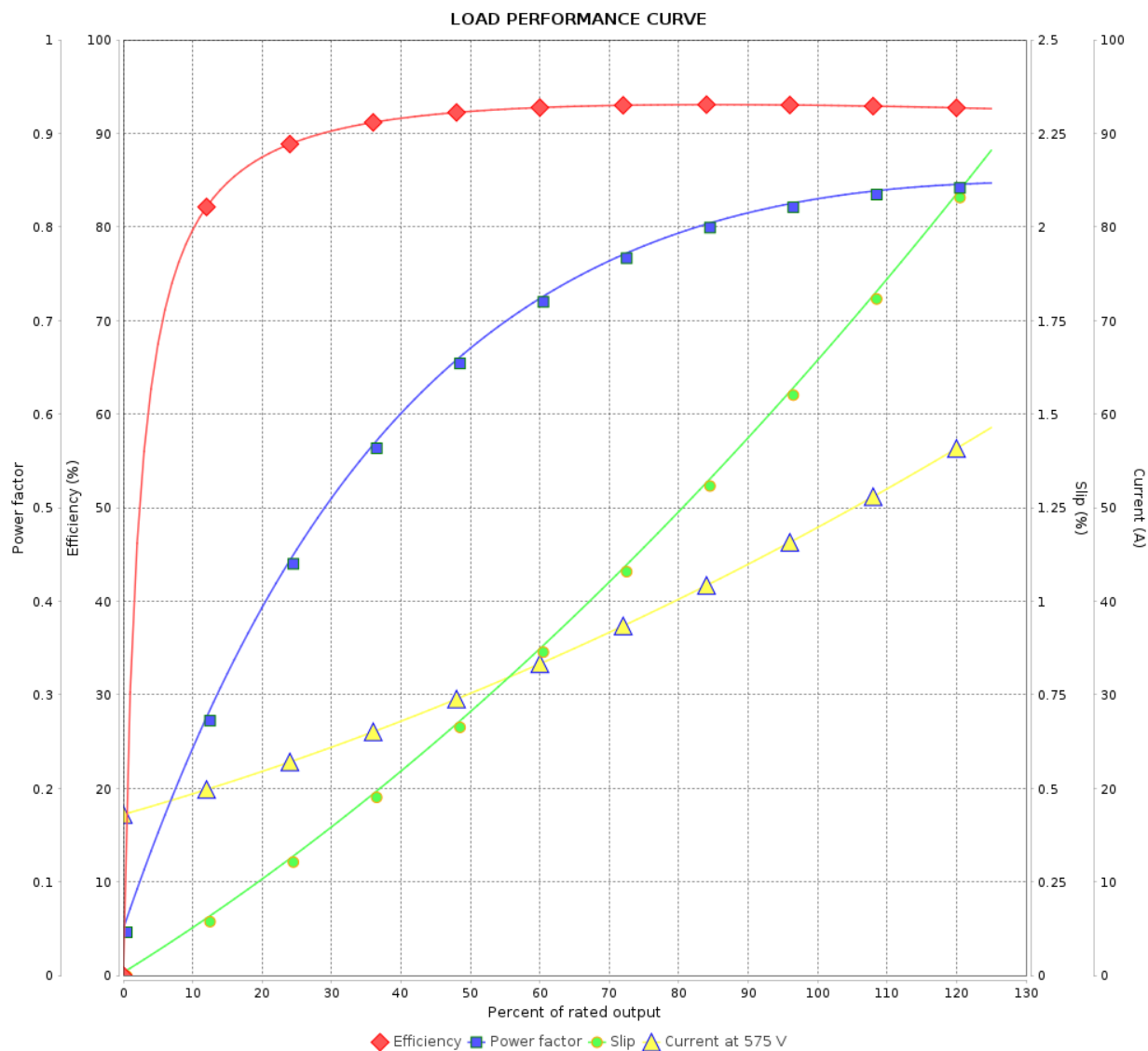
LOAD PERFORMANCE CURVE

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Customer :

Product line : W40 High Efficiency Three-Phase Product code : 16583197



Performance : 575 V 60 Hz 4P

Rated current	: 48.1 A	Moment of inertia (J)	: 0.2520 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 20 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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