

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14282771

Frame	: 404/5TS	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 2	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	: 110 A	Protection degree	: IP23
L. R. Amperes	: 724 A	Cooling method	: IC01 - ODP
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 26.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3545 rpm	Noise level ²	: 84.0 dB(A)
Slip	: 1.53 %	Starting method	: Direct On Line
Rated torque	: 25.6 kgfm	Approx. weight ³	: 398 kg
Locked rotor torque	: 180 %		
Breakdown torque	: 229 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3384 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.0	93.6	93.6	Max. traction	: 387 kgf
Power Factor	0.80	0.86	0.88	Max. compression	: 770 kgf

	Drive end	Non drive end
Bearing type	: 6314 C3	6212 Z C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 14418 h	20000 h
Lubricant amount	: 27 g	13 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		
Checked by				
Date	14/07/2026			

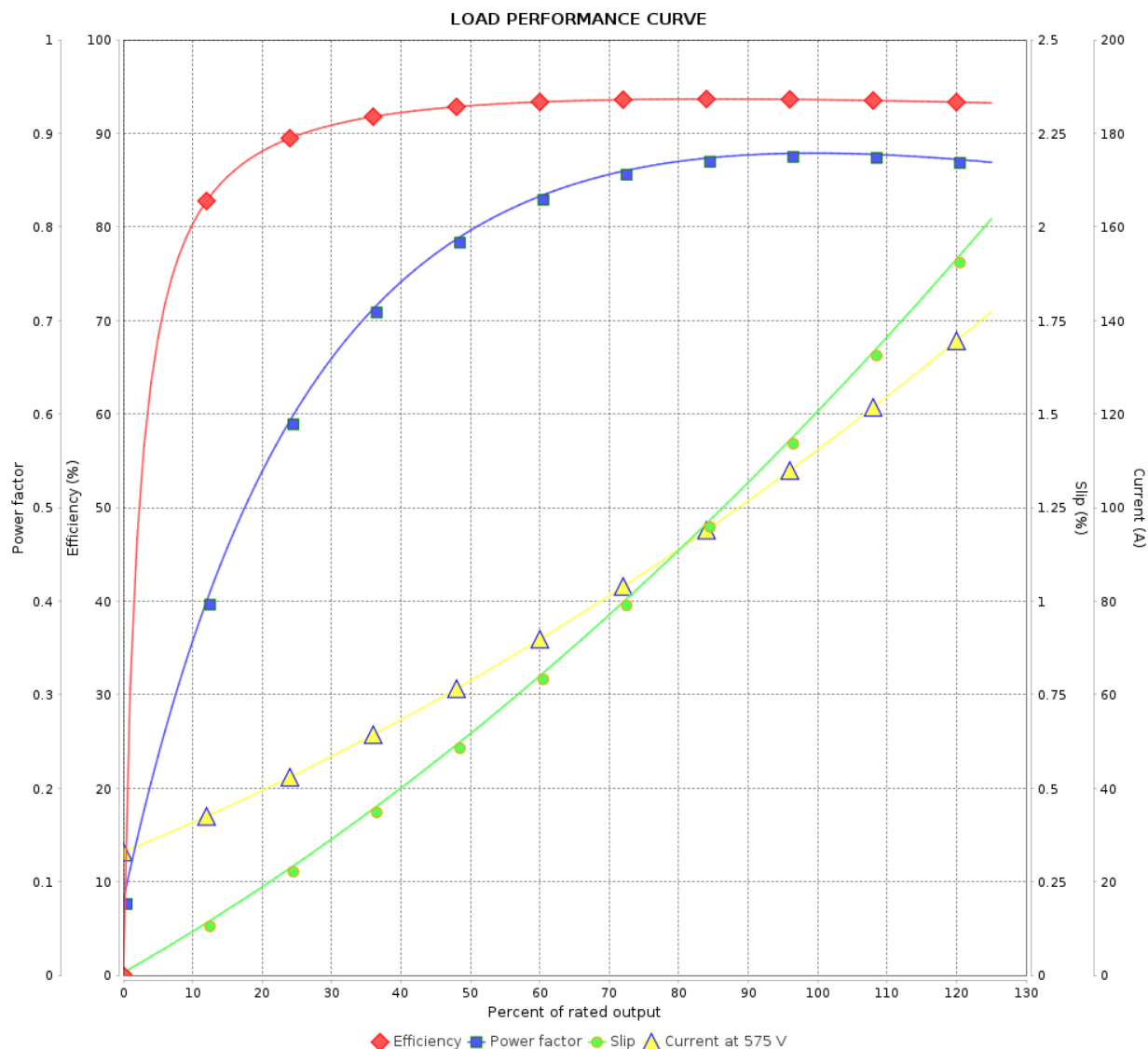
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14282771



Performance : 575 V 60 Hz 2P

Rated current : 110 A
LRC : 6.6
Rated torque : 25.6 kgfm
Locked rotor torque : 180 %
Breakdown torque : 229 %
Rated speed : 3545 rpm

Moment of inertia (J) : 0.3384 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 2 / 2	Revision
Checked by					
Date	14/07/2026				