

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA Premium Efficiency Three-Phase Product code : 14893765

Frame	: 404/5LP	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 100 HP (75 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	: 90.7 A	Protection degree	: IP55
L. R. Amperes	: 653 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: W-6
No load current	: 34.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 75.0 dB(A)
Slip	: 1.11 %	Starting method	: VFD
Rated torque	: 40.8 kgfm	Approx. weight ³	: 554 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.11 kgm ²		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	94.5	95.0	95.4	Max. traction
Power Factor	0.00	0.72	0.82	0.87	Max. compression

	Drive end	Non drive end
Bearing type	: 6314 C3	7315BECB
Sealing	: Oil Seal	Lip Seal
Lubrication interval	: 4895 h	3268 h
Lubricant amount	: 27 g	30 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	29/10/2024			

LOAD PERFORMANCE CURVE

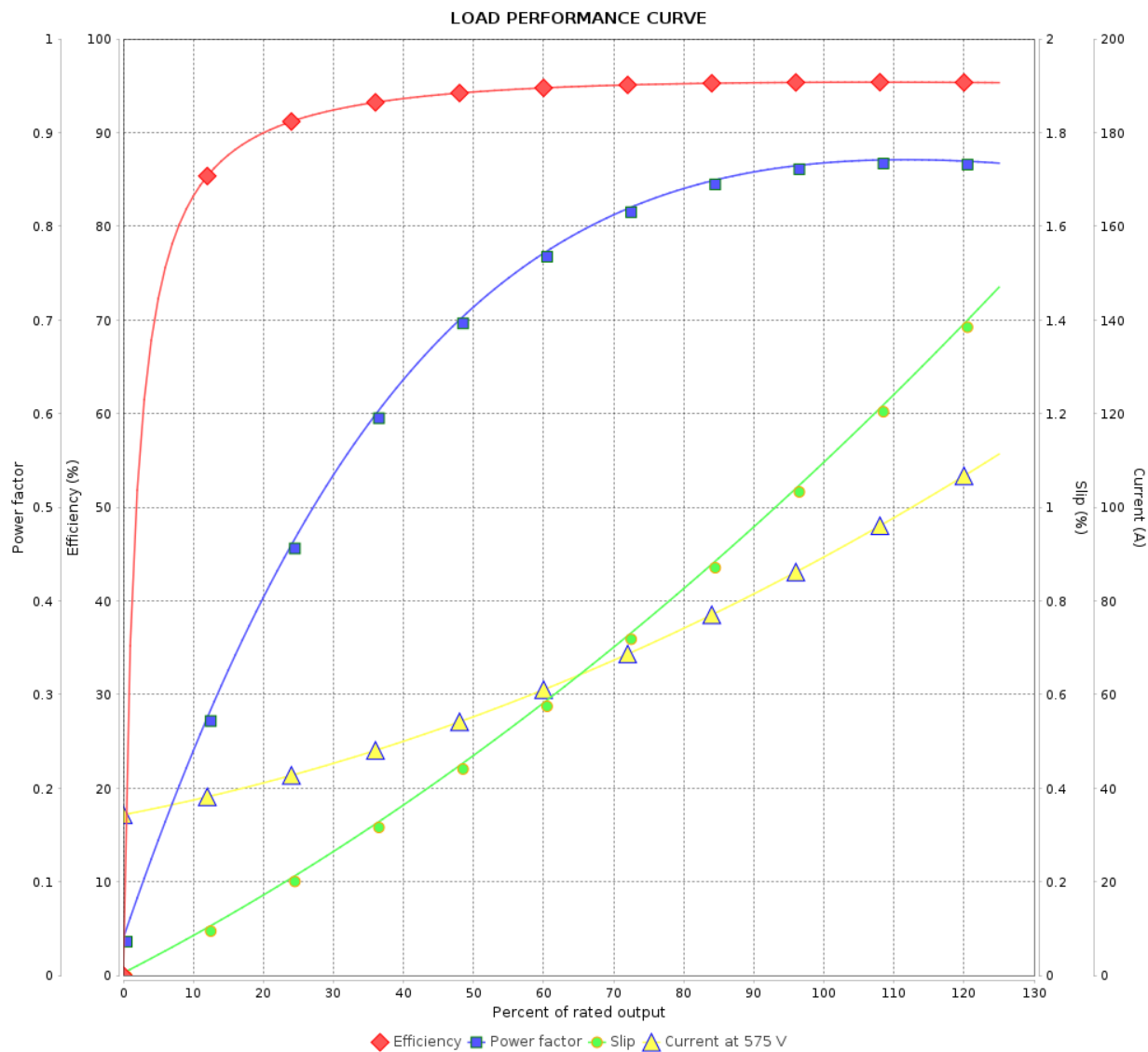
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 In Line Extra Thrust NEMA
Premium Efficiency Three-Phase

Product code : 14893765



Performance : 575 V 60 Hz 4P

Rated current : 90.7 A
LRC : 7.2
Rated torque : 40.8 kgfm
Locked rotor torque : 270 %
Breakdown torque : 300 %
Rated speed : 1780 rpm

Moment of inertia (J) : 1.11 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : A

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

