

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11996630

Frame	: 254TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 105 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	: 19.4 A	Protection degree	: IP23
L. R. Amperes	: 113 A	Cooling method	: IC01 - ODP
LRC	: 5.8x(Code G)	Mounting	: F-1
No load current	: 6.56 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3525 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 2.08 %	Starting method	: Direct On Line
Rated torque	: 4.12 kgfm	Approx. weight ³	: 92.8 kg
Locked rotor torque	: 160 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0338 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	90.2	90.2	Max. traction	: 115 kgf
Power Factor	0.74	0.83	0.86	Max. compression	: 208 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 Z C3	6209 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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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Date	13/09/2025			

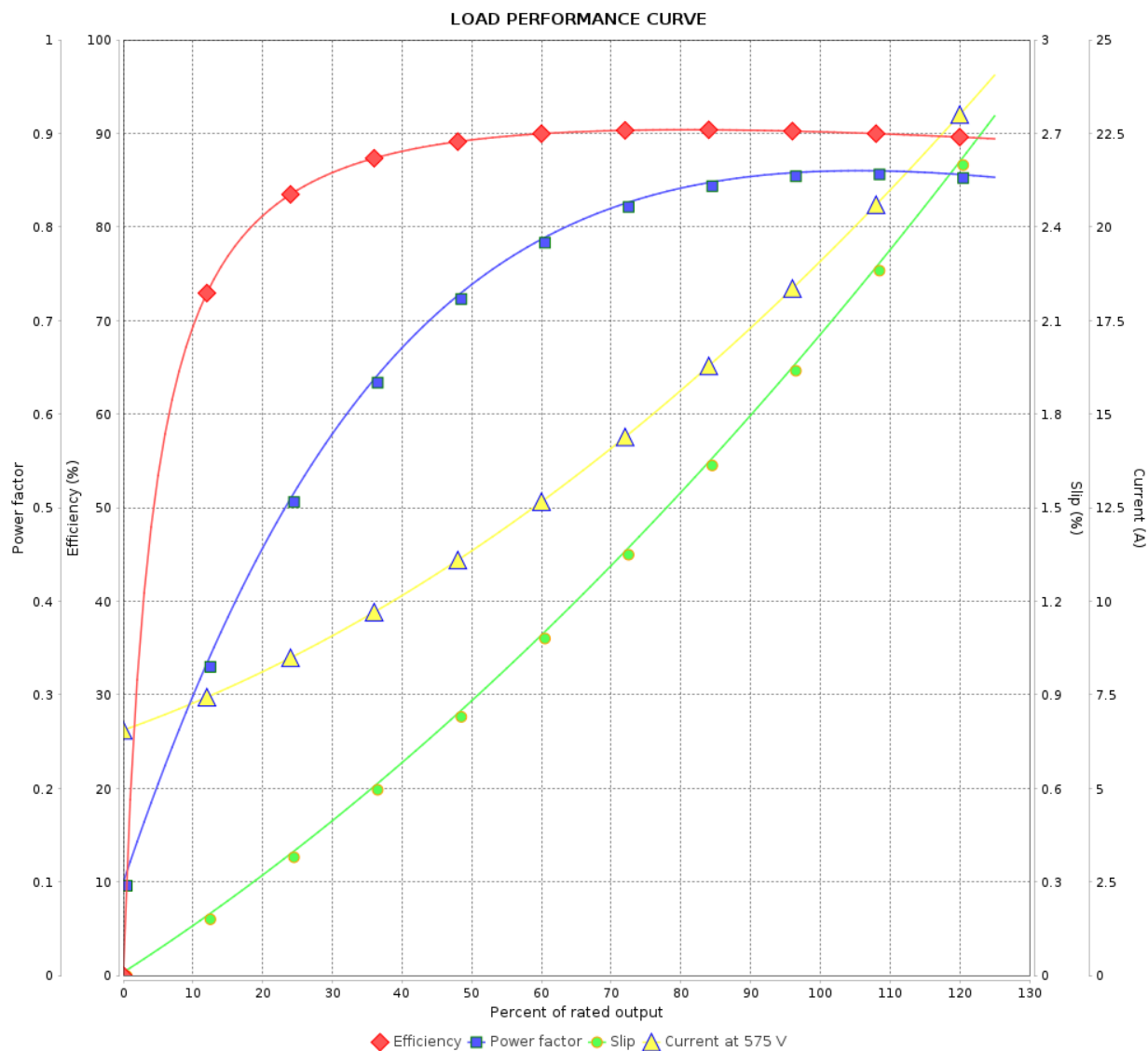
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP High Efficiency Three-Phase Product code : 11996630



Performance : 575 V 60 Hz 2P

Rated current : 19.4 A
LRC : 5.8
Rated torque : 4.12 kgfm
Locked rotor torque : 160 %
Breakdown torque : 250 %
Rated speed : 3525 rpm

Moment of inertia (J) : 0.0338 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

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