

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10722304

Frame	: E143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 1.5 HP (1.1 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	: 1.76 A	Protection degree	: IP21
L. R. Amperes	: 15.8 A	Cooling method	: IC01 - ODP
LRC	: 9.0x(Code M)	Mounting	: F-1
No load current	: 1.12 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1740 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 0.626 kgfm	Approx. weight ³	: 19.7 kg
Locked rotor torque	: 360 %		
Breakdown torque	: 340 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0067 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	85.5	86.5	Max. traction	: 51 kgf
Power Factor	0.52	0.66	0.75	Max. compression	: 70 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
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 NEMA MG-1.

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Date	19/10/2024			

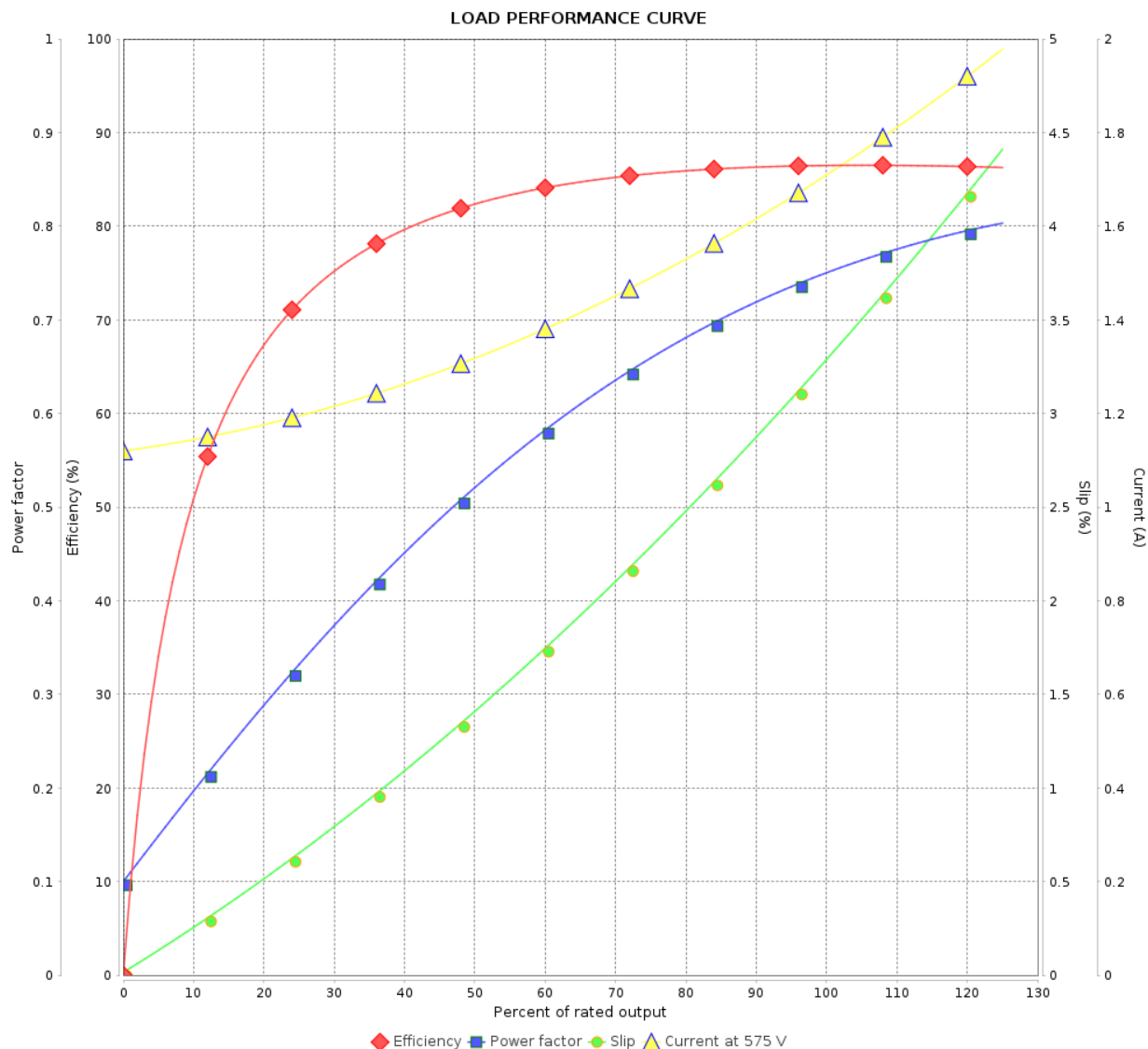
LOAD PERFORMANCE CURVE

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Performance : 575 V 60 Hz 4P

Rated current : 1.76 A
LRC : 9.0
Rated torque : 0.626 kgfm
Locked rotor torque : 360 %
Breakdown torque : 340 %
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0067 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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