

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : General NEMA Premium Efficiency Three-Phase
Product code : 11524020

Frame	: E143/5TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 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	: 2.32 A	Protection degree	: IP21
L. R. Amperes	: 19.0 A	Cooling method	: IC01 - ODP
LRC	: 8.2x(Code L)	Mounting	: F-1
No load current	: 1.28 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1730 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 0.839 kgfm	Approx. weight ³	: 20.6 kg
Locked rotor torque	: 350 %		
Breakdown torque	: 330 %		
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	: 68 kgf
Power Factor	0.58	0.70	0.78	Max. compression	: 89 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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	05/05/2024		1 / 2	

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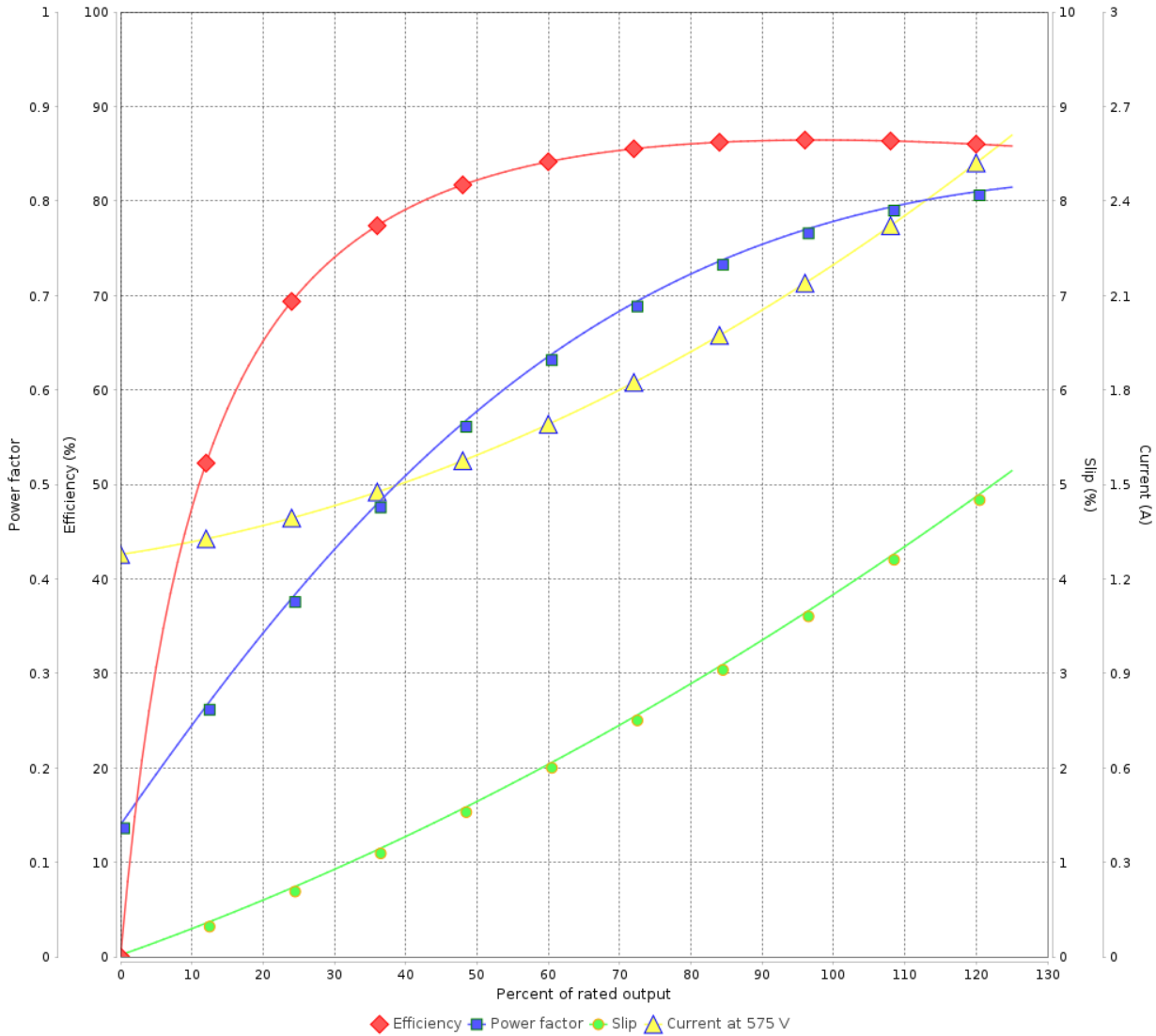
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LOAD PERFORMANCE CURVE



Performance : 575 V 60 Hz 4P

Rated current	: 2.32 A	Moment of inertia (J)	: 0.0067 kgm ²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.839 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1730 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	05/05/2024			