DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W21 Explosion Proof NEMA Product code: 14679505 Premium Efficiency Three-Phase : 256T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 160 kg Protection degree : IP55 Moment of inertia (J) : 0.1751 kgm² Design : B Output [HP] 7.5 7.5 Poles 8 8 Frequency [Hz] 60 50 208-230/460 Rated voltage [V] 380 Rated current [A] 25.7-23.2/11.6 13.9 L. R. Amperes [A] 136-123/61.5 72.3 LRC [A] 5.3x(Code H) 5.2x(Code H) No load current [A] 12.4-14.4/7.20 6.80 Rated speed [RPM] 880 715 Slip [%] 2.22 4.67 Rated torque [kgfm] 6.19 7.61 Locked rotor torque [%] 210 150 Breakdown torque [%] 280 200 Service factor 1.00 1.15 Temperature rise 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 41s (cold) 23s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 25% 0.000 0.000 50% 86.5 84.0 Efficiency (%) 75% 87.5 84.0 100% 87.5 82.5 25% 0.00 0.00 50% 0.48 0.56 Power Factor 75% 0.60 0.66 100% 0.68 0.73 Non drive end Foundation loads Drive end 6309 6209 Bearing type Max. traction : 159 kgf 2RS C3 2RS C3 Sealing Oil Seal Lip Seal Max. compression : 319 kgf 20000 h Lubrication interval 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.

	Rev. Changes Summary		Changes Summary		Performed	Checked	Date	
	Performed by							
	Checked by					Page	Revision	
	Date	29/10/2024				1 / 4		

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Customer	

Thermal protection

•						
ID	Application	Туре	Quantity	Sensing Temperature		
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C		

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	29/10/2024			2/4	

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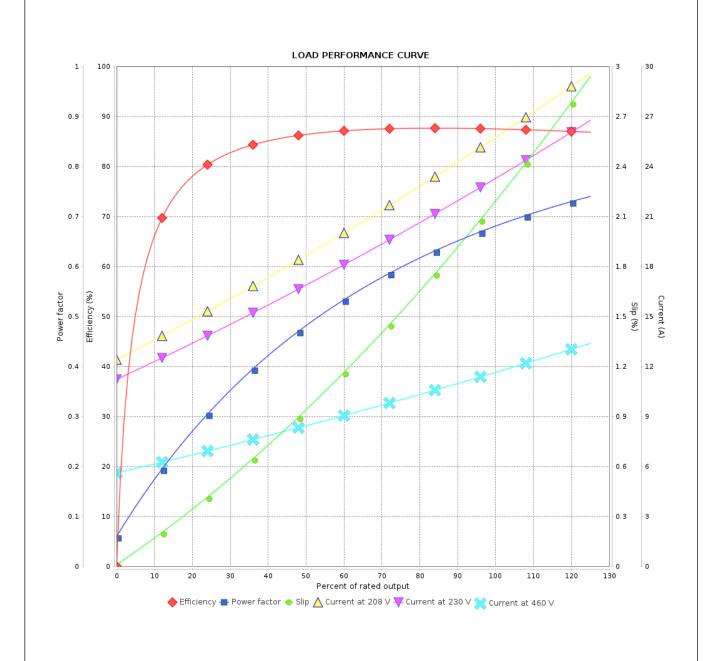


Customer

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14679505



Performance	: 2	208-230/460 V 60 Hz	8P			
Rated current	: 2	: 25.7-23.2/11.6 A Moment of inertia (J) : 5.3 Duty cycle : 6.19 kgfm Insulation class : 210 % Service factor : 280 % Temperature rise		f inertia (J)	: 0.1751 kgm²	
LRC	: 5			;	: Cont.(S1)	
Rated torque	: 6			class : F		
Locked rotor torqu	ie : 2			: 1.15		
Breakdown torque	: 2			ıre rise	: 80 K	
Rated speed	: 8	380 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	29/10/2024				3 / 4	

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Three Phase Induction Motor - Squirrel Cage

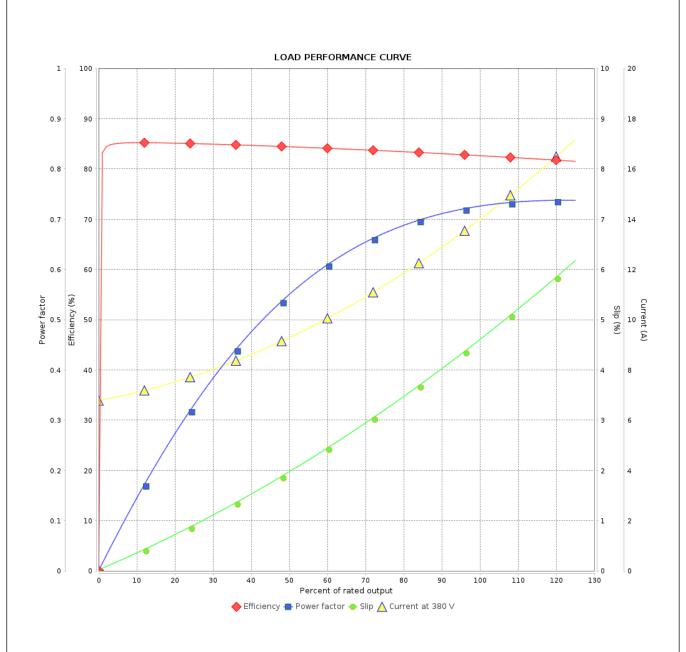


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14679505



Performance : 380 V 50 Hz 8P : 13.9 A : 0.1751 kgm² Rated current Moment of inertia (J) **LRC** : 5.2 Duty cycle : Cont.(S1) : 7.61 kgfm Insulation class : F Rated torque Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 715 rpm Design : B Rev Changes Summary Performed Checked Date

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Checked by				Page	Revision
Date	29/10/2024			4/4	
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