DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

: IP55

Product code:

14679505

Efficiency Three-Phase

: 256T Frame Insulation class : F

Protection degree

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Mounting Rotation¹ Starting method

Cooling method

: F-1 : Both (CW and CCW)

: IC411 - TEFC

: Direct On Line Approx. weight³ : 160 kg

Moment of inertia (J) : 0.1751 kgm²

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Design		: B				
Output [HP]		7.5		7.5		
Poles		8		8		
Frequency [Hz]		60		50		
Rated voltage [V]		208-230/460		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 [RPN	Л]	880		715		
Slip [%]		2.22		4.67		
Rated torque [kgfr	n]	6.19		7.61		
Locked rotor torque [%]		210		150		
Breakdown torque	: [%]	280		200		
Service factor		1.15		1.00		
Temperature rise		80 K		80 K		
Locked rotor time		41s (cold) 23s (hot)		41s (cold) 23s (hot)		
Noise level ²		55.0 dB(A)		53.0 dB(A)		
	25%	0.000		0.000		
Efficiency (%)	50%	86.5		84.0		
Efficiency (70)	75%	87.5		84.0		
	100%	87.5		82.5		
	25%	0.00		0.00		
Power Factor	50%	0.48		0.56		
	75%	0.60		0.66		
	100%	0.68		0.73		
		Drive end Non drive end	Foundation loads			

Bearing type 6309 6209 2RS C3 2RS C3 Sealing Oil Seal Lip Seal 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 g Mobil Polyrex EM

Max. traction : 159 kgf

Max. compression : 319 kgf

Notes

Lubricant type

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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Thermal protection

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

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Three Phase Induction Motor - Squirrel Cage

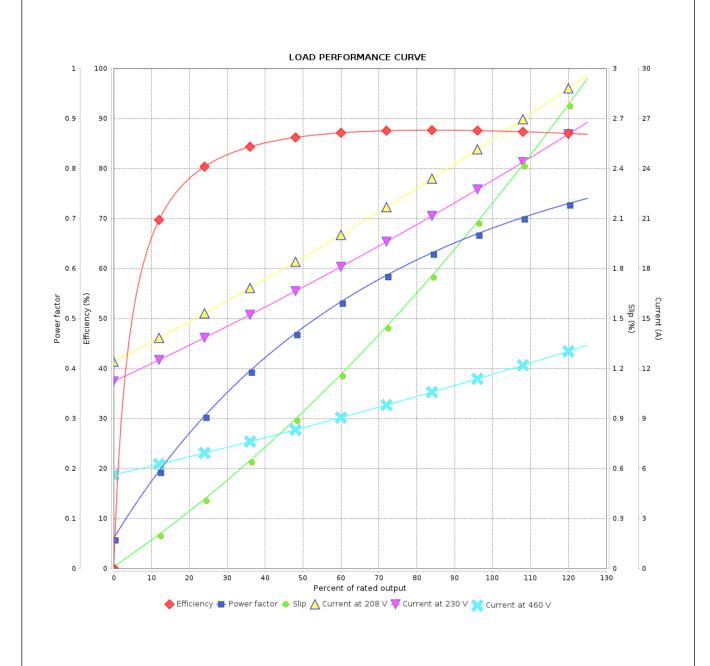


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Performance	: 2	: 208-230/460 V 60 Hz 8P					
Rated current LRC Rated torque Locked rotor torque		5.7-23.2/11.6 A .3 .19 kgfm 10 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.1751 kgm² : Cont.(S1) : F : 1.15		
Breakdown torque Rated speed		280 % Temperature rise 380 rpm Design		: 80 K : B			
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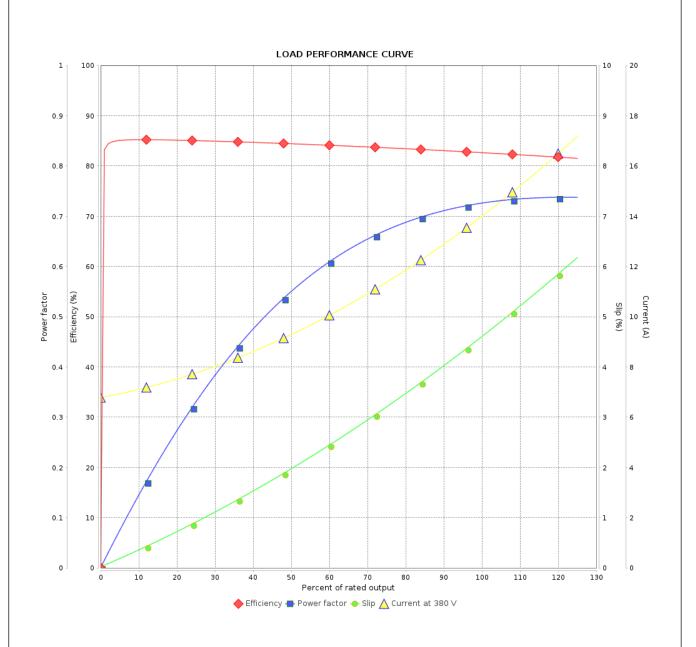


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Performance : 380 V 50 Hz 8P : 13.9 A : 0.1751 kgm² Rated current Moment of inertia (J) **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.61 kgfm : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 200 % Temperature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