DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 14325085

Premium Efficiency Three-Phase

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 32.4 kg

Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm²

Protection degree		: IP55 Moment of inertia (J) : 0.0067 kgm²			67 kgm²
Design		: B			
Output [HP]		2	2	2	2
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		5.58/2.79	3.29	3.18	3.18
L. R. Amperes [A]		49.7/24.8	25.0	24.8	24.8
LRC [A]		8.9x(Code L)	7.6x(Code K)	7.8x(Code K)	7.8x(Code K)
No load current [A]		3.20/1.60	1.60	1.80	2.00
Rated speed [RPM]	1750	1425	1435	1445
Slip [%]		2.78	5.00	4.33	3.67
Rated torque [kgfm]		0.829	1.02	1.01	1.00
Locked rotor torque [%]		270	190	220	240
Breakdown torque [%]		320	220	250	270
Service factor	Service factor		1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%				
Efficiency (%)	50%	84.0	84.0	82.5	82.5
Linciency (70)	75%	85.5	84.0	84.0	84.0
	100%	86.5	82.5	84.0	84.0
	25%				
Power Factor	50%	0.56	0.64	0.59	0.55
I OWELL ACTOL	75%	0.70	0.77	0.73	0.69
	100%	0.78	0.84	0.81	0.78

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6205 2RS 6204 2RS Max. traction : 61 kgf Sealing : Oil Seal Lip Seal Max. compression : 93 kgf

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 6.02A SF 1.15 SFA 6.92A

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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Customer	
Customer	

Thermal protection

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

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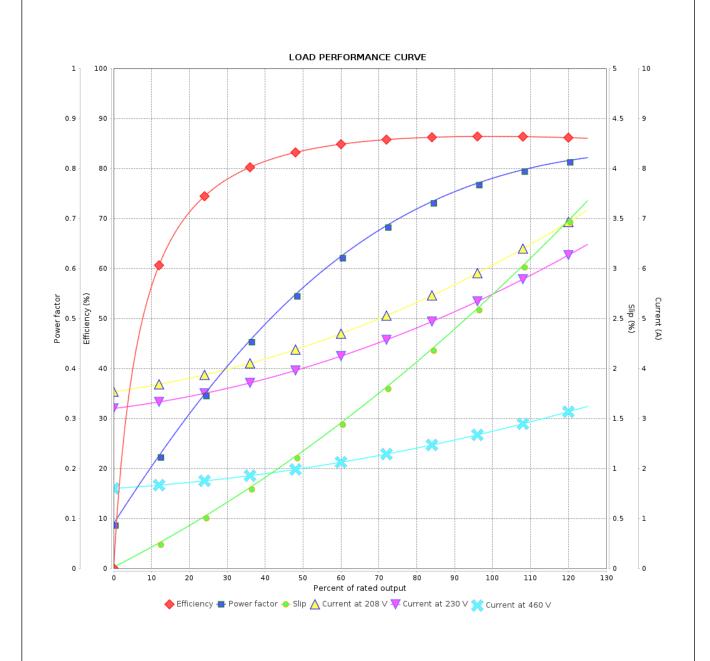


Customer :

Product line : W21 Explosion Proof NEMA

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Performance : 230/460 V 60 Hz 4P					
Rated current	: 5.58/2.79 A	Moment of inertia (J)		: 0.0067 kgm²	
LRC	: 8.9	Duty cycle		: Cont.(S1)	
Rated torque	: 0.829 kgfm	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor Temperature rise		: 1.15 : 80 K	
Breakdown torque	: 320 %				
Rated speed	: 1750 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



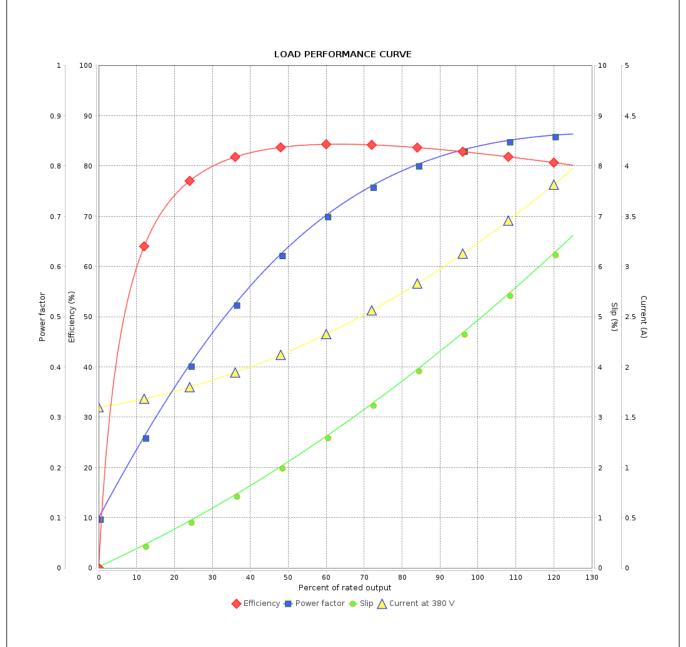
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325085



: 380 V 50 Hz 4P IE1 Performance : 0.0067 kgm² Rated current : 3.29 A Moment of inertia (J) **LRC** : 7.6 Duty cycle : Cont.(S1) : 1.02 kgfm Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1425 rpm Design : B Rev. **Changes Summary** Performed Checked Date Рe

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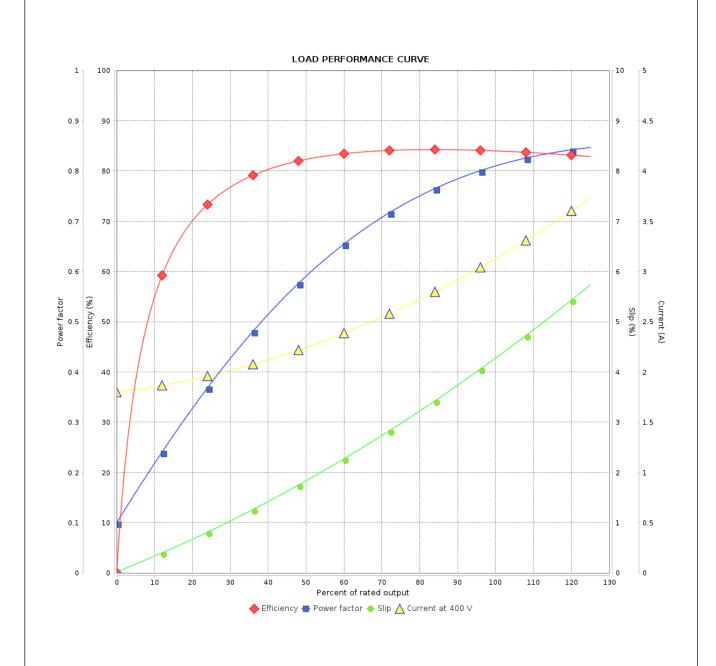
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance		: 400 V 50 Hz 4P IE2	2				
Rated current		: 3.18 A	Moment o	Moment of inertia (J)		2	
LRC		: 7.8	Duty cycle	Duty cycle			
Rated torque		: 1.01 kgfm	Insulation	Insulation class		:F	
Locked rotor torque : 220 %		: 220 %	Service fa	Service factor			
Breakdown torque : 250 %		Temperati	Temperature rise		: 80 K		
Rated speed : 1435 rpm		Design	Design : B				
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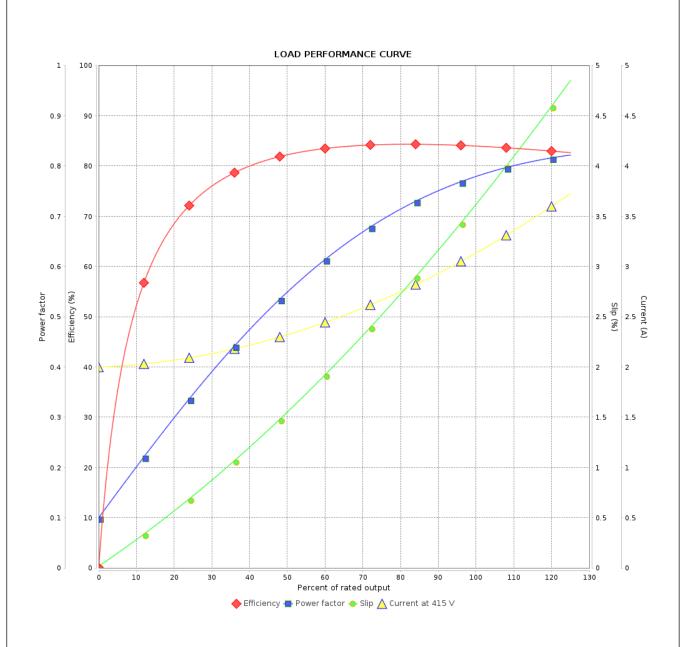
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325085



Performance : 415 V 50 Hz 4P IE2 : 0.0067 kgm² Rated current : 3.18 A Moment of inertia (J) **LRC** : 7.8 Duty cycle : Cont.(S1) : 1.00 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

