DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 15764579

Premium Efficiency Three-Phase

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

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 31.8 kg

Protection degree : IP55 Moment of inertia (J) : 0.0017 kgm²

Protection degree		: IP55	: IP55 Moment of inertia (J		(J) : 0.0017 kgm^2		
Design		: B	.,				
Output [HP]	Output [HP]		1.5	1.5	1.5		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		4.10/2.05	2.36	2.32	2.29		
L. R. Amperes [A]		37.7/18.9	18.9	19.5	19.9		
LRC [A]		9.2x(Code M)	8.0x(Code K)	8.4x(Code L)	8.7x(Code L)		
No load current [A		2.00/1.00	0.900	1.00	1.10		
Rated speed [RPN	<i>/</i> I]	3500	2860	2885	2895		
Slip [%]		2.78	4.67	3.83	3.50		
Rated torque [kgfm]		0.311	0.381	0.377	0.376		
Locked rotor torque [%]		340	280	320	360		
Breakdown torque [%]		440	300	330	360		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise	Temperature rise		80 K	80 K	80 K		
Locked rotor time	Locked rotor time		19s (cold) 11s (hot)	19s (cold) 11s (hot)	19s (cold) 11s (hot)		
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)		
	25%						
Efficiency (%)	50%	78.5	79.5	80.0	81.5		
Liliciency (70)	75%	82.5	82.5	82.5	84.0		
	100%	84.0	82.5	82.5	82.5		
	25%						
Power Factor	50%	0.62	0.70	0.66	0.63		
1 OWELL ACTOL	75%	0.73	0.81	0.77	0.74		
	100%	0.80	0.86	0.83	0.81		

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

Bearing type : 6205 2RS 6204 2RS Max. traction : 22 kgf Sealing : Oil Seal Lip Seal Max. compression : 55 kgf

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

Notes

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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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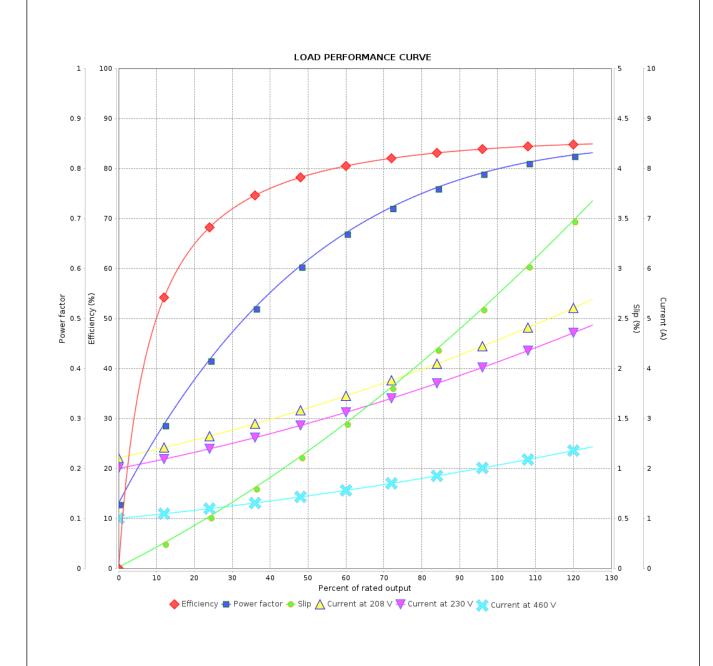


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Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 4	.10/2.05 A	10/2.05 A Moment of inertia (J)		: 0.0017 kgm²	
LRC).2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 0).311 kgfm	Insulation	class	: F	
Locked rotor torqu	e : 3	40 %	Service factor		: 1.15	
Breakdown torque	: 4	: 440 % Temperature : 3500 rpm Design		Temperature rise : 80 K Design : B		
Rated speed	: 3					
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Customer :

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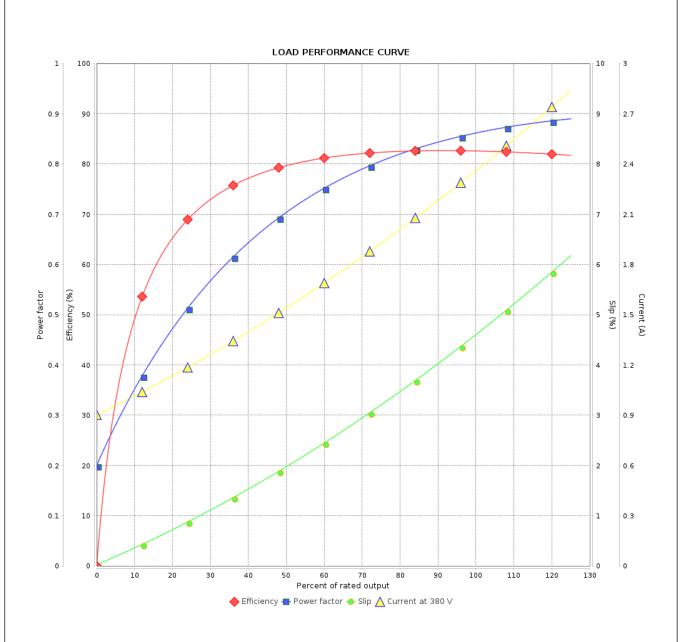
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Performance	: 3	80 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 0 que : 2 ue : 3	.36 A .0 .381 kgfm 80 % 00 % 860 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0017 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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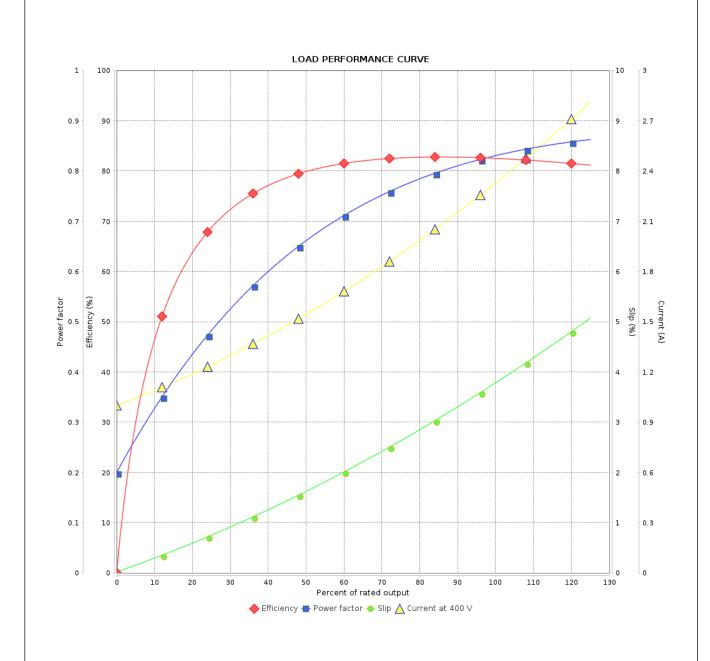


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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC	: 2.32 A : 8.4	Moment of iner Duty cycle	tia (J)	: 0.0017 kgm² : Cont.(S1)	
Rated torque	: 0.377 kgfm	kgfm Insulation class Service factor		: F : 1.00	
Locked rotor torque	: 320 %				
Breakdown torque	: 330 %			: 80 K	
Rated speed	: 2885 rpm	Design		: B	
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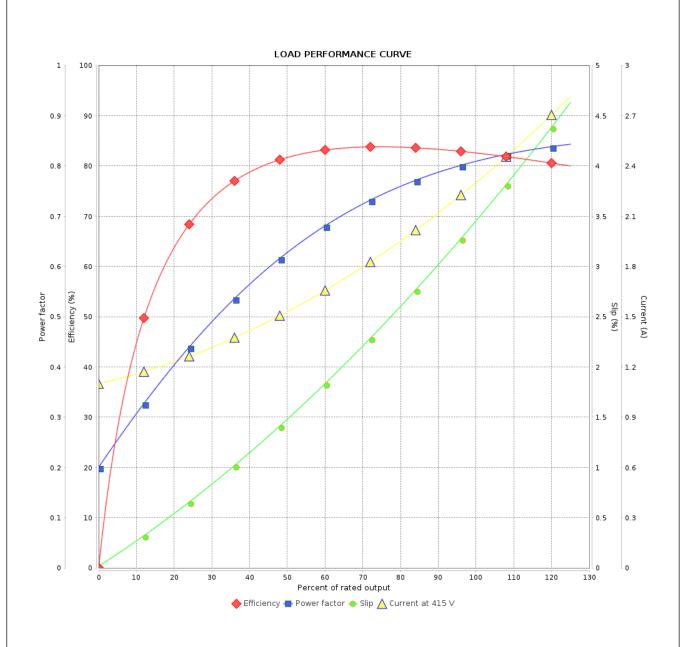


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Performance : 415 V 50 Hz 2P IE2 : 2.29 A : 0.0017 kgm² Rated current Moment of inertia (J) **LRC** : 8.7 Duty cycle : Cont.(S1) : 0.376 kgfm Insulation class : F Rated torque Locked rotor torque : 360 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

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