DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 14480985

Premium Efficiency Three-Phase

Frame : 182/4TC 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 : 57.3 kg

Protection degre	е	: IP55	Moment of ine	inertia (J) : 0.0062 kgm²				
Design		: B						
Output [HP]		3	3	3	3			
Poles		2	2 2 2		2			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		7.52/3.76	4.44	4.27	4.16			
L. R. Amperes [A]		63.2/31.6	29.7	31.6	33.3			
LRC [A]		8.4x(Code K)	6.7x(Code H)	7.4x(Code J)	8.0x(Code J)			
No load current [A]	2.80/1.40	1.30	1.40	1.48			
Rated speed [RPN	/ []	3510	2880	2890	2900			
Slip [%]	lip [%] 2.50		4.00	3.67	3.33			
Rated torque [kgfn	Rated torque [kgfm]		0.756	0.753	0.751			
Locked rotor torqu	Locked rotor torque [%]		210	240	260			
Breakdown torque [%]		400	300	340	370			
Service factor	Service factor		1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		54s (cold) 30s (hot)	77s (cold) 43s (hot)	77s (cold) 43s (hot)	77s (cold) 43s (hot)			
Noise level ²		69.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)			
	25%							
Efficiency (%)	50%	82.5	82.5	82.5	82.5			
Lilicierity (70)	75%	85.5	85.5	85.5	85.5			
	100%	86.5	85.5	86.5	86.5			
	25%							
Power Factor	50%	0.73	0.78	0.75	0.72			
I OWELL ACIOI	75%	0.81	0.85	0.83	0.81			
	100%	0.85	0.88	0.86	0.85			

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

Bearing type : 6307 2RS 6206 2RS Max. traction : 29 kgf Sealing : Oil Seal Lip Seal Max. compression : 86 kgf

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

Notes

USABLE @208V 8.32A SF 1.15 SFA 9.56A

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	
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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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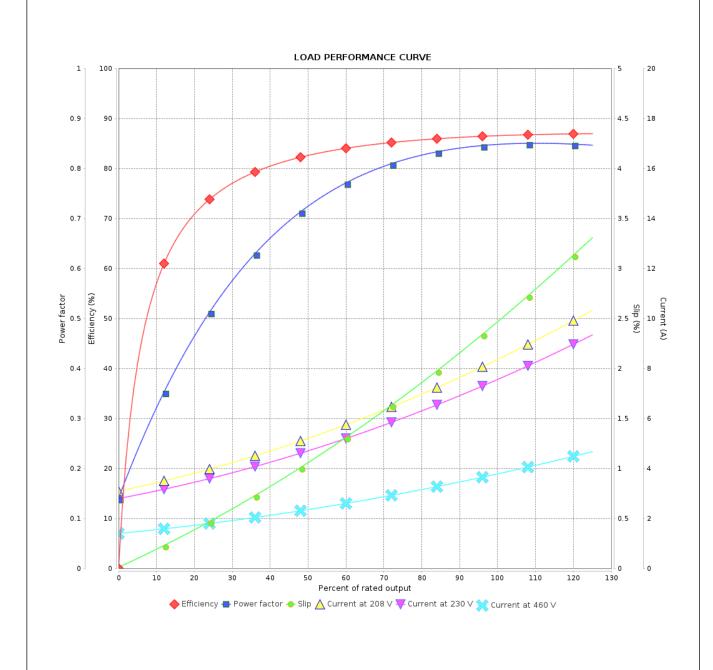


Customer

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Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 8 : 0 ue : 2	.52/3.76 A .4 .620 kgfm 50 % 00 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		!
Rated speed		5510 rpm Design		are rise	: 80 K : B	
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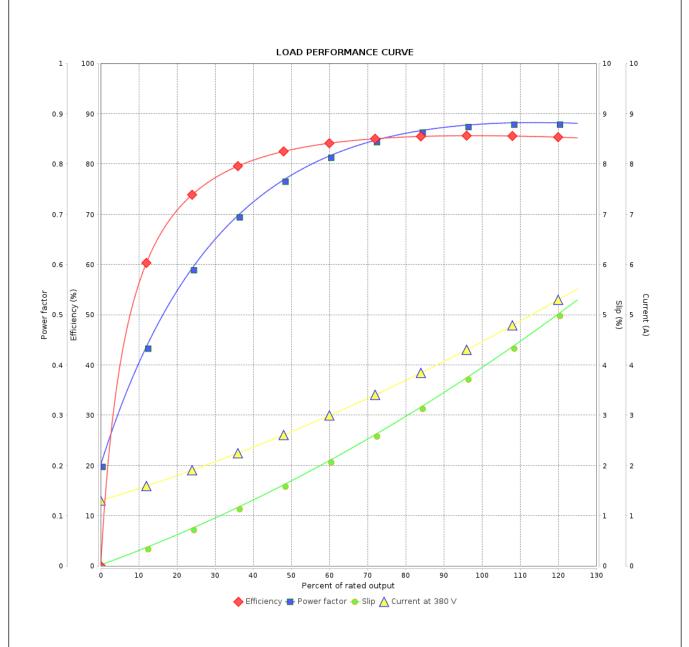


Customer :

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Premium Efficiency Three-Phase

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Performance : 380 V 50 Hz 2P IE2 : 0.0062 kgm² Rated current : 4.44 A Moment of inertia (J) **LRC** : 6.7 Duty cycle : Cont.(S1) : 0.756 kgfm Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B

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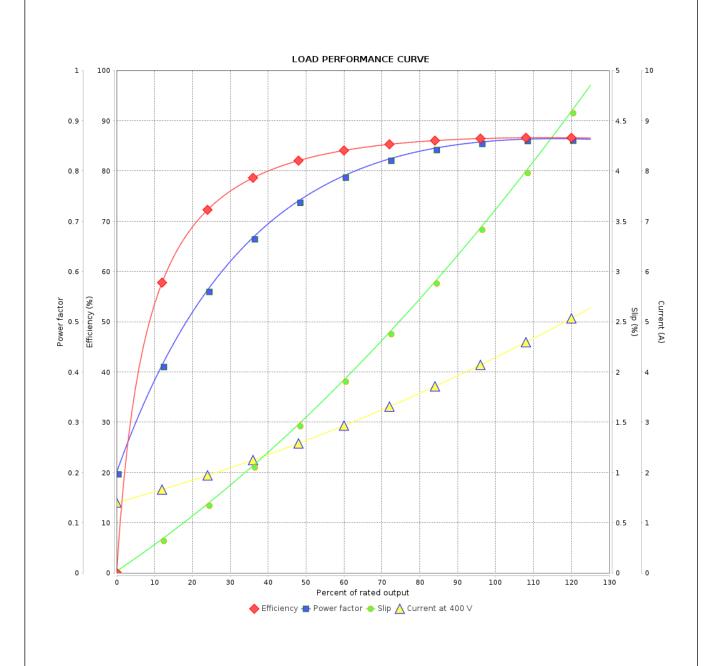
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Product line : W21 Explosion Proof NEMA

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Performance	: 400 V 50 Hz 2P IE3					
Rated current	: 4.27 A	Moment of inertia (J)		inertia (J) : 0.0062 kgm²		
LRC	: 7.4	Duty cycle		: Cont.(S1)		
Rated torque	: 0.753 kgfm	Insulation	Insulation class		:F	
Locked rotor torque	: 240 %	Service fa	Service factor			
Breakdown torque	: 340 %	Temperati	ıre rise	: 80 K		
Rated speed	: 2890 rpm	Design		: B		
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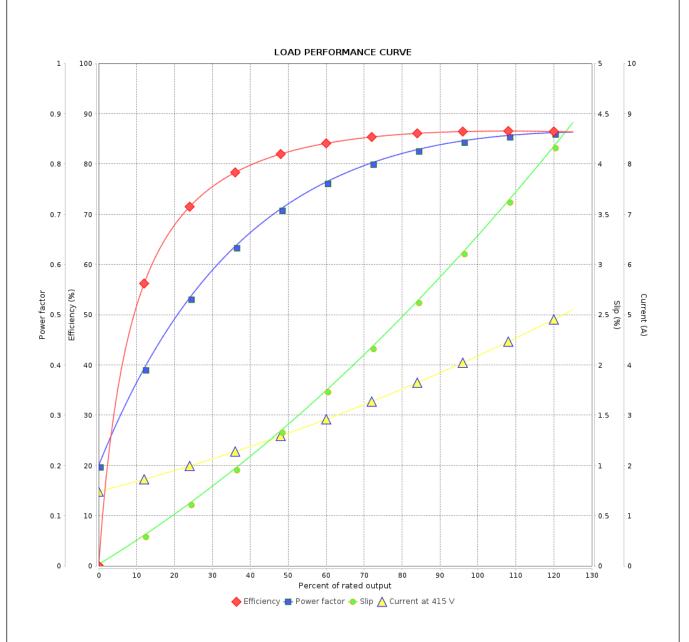
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Product line : W21 Explosion Proof NEMA

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Performance	: 4	415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: (: (: (: (: (4.16 A 8.0 0.751 kgfm 260 % 370 % 2900 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0062 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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