DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 11950119

Premium Efficiency Three-Phase

Frame : 444/5TS 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 : 929 kg
Protection degree : IP55 Moment of inertia (J) : 1.31 kgm²

Design	-	: B	Women of the	Montent of menta (3) . 1.31 kgm				
Output [HP]		125	100	100	100			
Poles		2	2	2	2			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		268/134	134	128	125			
L. R. Amperes [A]		1769/884	831	870	925			
LRC [A]		6.6x(Code G)	6.2x(Code F)	6.8x(Code G)	7.4x(Code H)			
No load current [A]		65.0/32.5	32.1	34.1	35.5			
Rated speed [RPM	1]	3575	2975	2975	2980			
Slip [%]		0.69	0.83	0.83	0.67			
Rated torque [kgfm]		25.4	24.4	24.4	24.4			
Locked rotor torque [%]		200	190	210	229			
Breakdown torque [%]		250	229	260	290			
Service factor		1.15	1.00	1.00	1.00			
Temperature rise	Temperature rise		80 K	80 K	80 K			
Locked rotor time		39s (cold) 22s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)			
Noise level ²		86.0 dB(A)	83.0 dB(A)	83.0 dB(A)	83.0 dB(A)			
	25%							
Efficiency (%)	50%	93.0	93.6	93.6	93.0			
Efficiency (70)	75%	94.5	94.5	94.5	94.5			
	100%	95.0	94.5	95.0	95.0			
	25%							
Power Factor	50%	0.83	0.83	0.81	0.79			
I OWEI FACIOI	75%	0.88	0.88	0.87	0.86			
	100%	0.89	0.90	0.89	0.88			

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

Bearing type : 6314 C3 6314 C3 Max. traction : 153 kgf
Sealing : Oil Seal Lip Seal
Lubrication interval : 3604 h 3604 h

Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 303A SF 1.00 SFA 303A

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

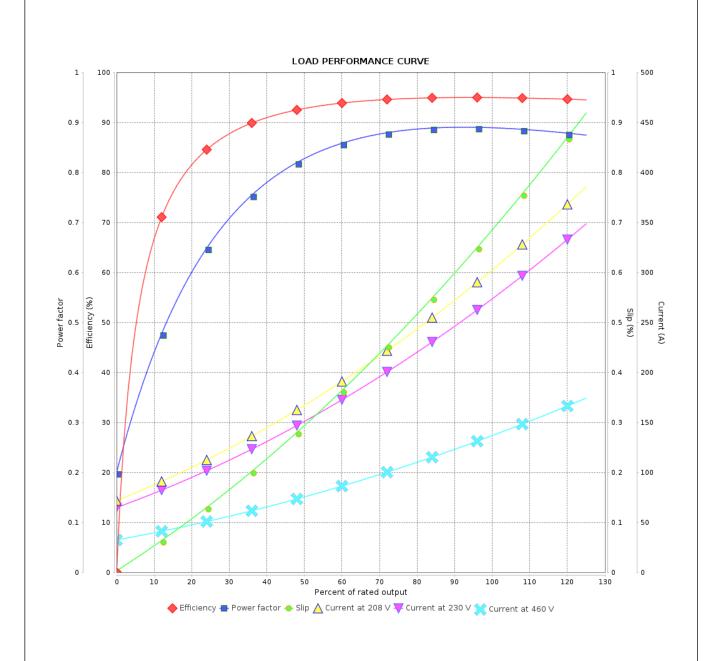


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Performance	. 2	30/460 V 60 Hz 2P				
renormance	. 2	230/460 V 60 HZ 2P				
Rated current	: 2	68/134 A	Moment	of inertia (J)	: 1.31 kgm²	
LRC	: 6	.6	Duty cycle		: Cont.(S1)	
Rated torque	: 2	5.4 kgfm	Insulation class		: F	
Locked rotor torq			actor	: 1.15		
Breakdown torque		50 %	Tempera	Temperature rise		
Rated speed	: 3	575 rpm	Design	Design		
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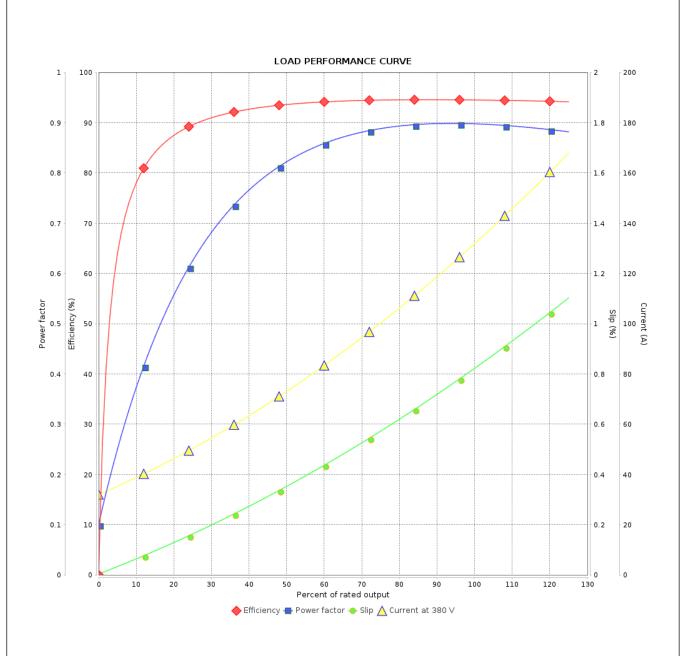


Customer :

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Performance : 380 V 50 Hz 2P IE2 : 134 A Rated current Moment of inertia (J) : 1.31 kgm² **LRC** Duty cycle : Cont.(S1) : 6.2 : 24.4 kgfm Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2975 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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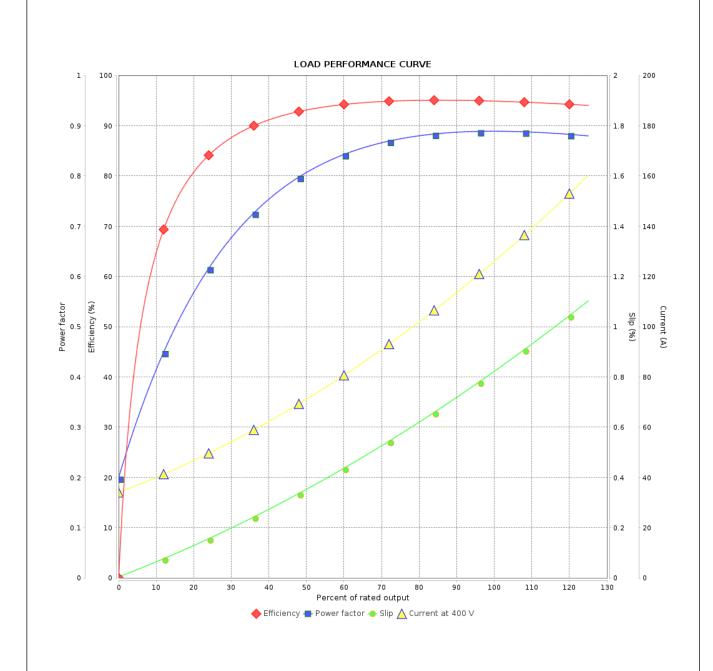


Customer :

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Performance : 400 V 50 Hz 2P IE3 : 128 A Rated current Moment of inertia (J) : 1.31 kgm² **LRC** : 6.8 Duty cycle : Cont.(S1) : F Rated torque : 24.4 kgfm Insulation class Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2975 rpm Design : B

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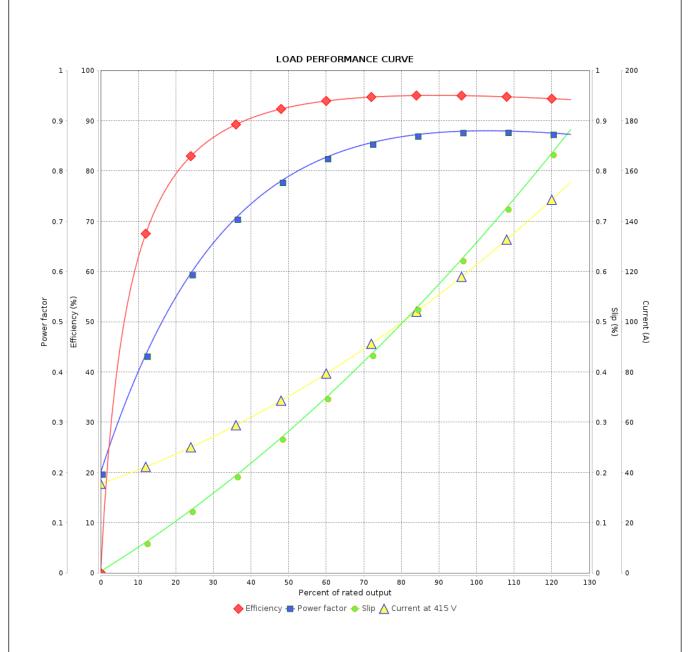


Customer :

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Performance	: 4	415 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2 ue : 2	125 A 7.4 24.4 kgfm 229 % 290 % 2980 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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