### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



12310134

Customer

Product line : W21 Explosion Proof NEMA Product code:

Premium Efficiency Three-Phase

: 364/5TS Frame Cooling method : IC411 - TEFC

Insulation class Mounting : F : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 480 kg Protection degree : IP55 Moment of inertia (J) : 0.4198 kgm<sup>2</sup>

Design					
Output [HP]		60	50	50	50
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		137/68.6	68.7	65.3	63.6
L. R. Amperes [A]		878/439	419	438	458
LRC [A]		6.4x(Code G)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)
No load current [A	]	30.0/15.0	15.0	16.0	17.0
Rated speed [RPN	<i>/</i> I]	3550	2950	2960	2960
Slip [%]		1.39	1.67	1.33	1.33
Rated torque [kgfm]		12.3	12.3	12.3	12.3
Locked rotor torque [%]		200	190	210	229
Breakdown torque [%]		250	240	260	290
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		108s (cold) 60s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)
Noise level <sup>2</sup>		85.0 dB(A)	82.0 dB(A)	82.0 dB(A)	82.0 dB(A)
	25%				
Efficiency (%)	50%	92.4	92.0	92.0	92.0
Liliciency (70)	75%	93.0	92.8	92.8	92.8
	100%	93.6	93.0	93.0	93.0
	25%				
Power Factor	50%	0.79	0.79	0.77	0.76
1 OWCI I actor	75%	0.86	0.86	0.85	0.85
	100%	0.88	0.88	0.88	0.87
		Drive and Non dr	ive and Faundation les	ada.	

Foundation loads Drive end Non drive end

Bearing type 6314 C3 6314 C3 Max. traction : 161 kgf Sealing Oil Seal Lip Seal Max. compression : 638 kgf

Lubrication interval 3604 h 3604 h Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 151A SF 1.00 SFA 151A

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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#### Three Phase Induction Motor - Squirrel Cage

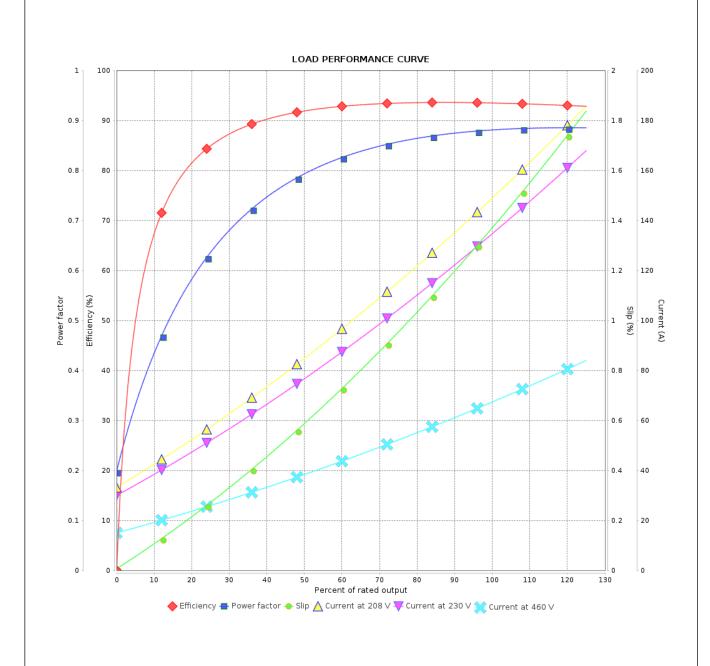


Customer :

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 137/68.6 A : 6.4 : 12.3 kgfm : 200 % : 250 % : 3550 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4198 kgm <sup>2</sup> : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

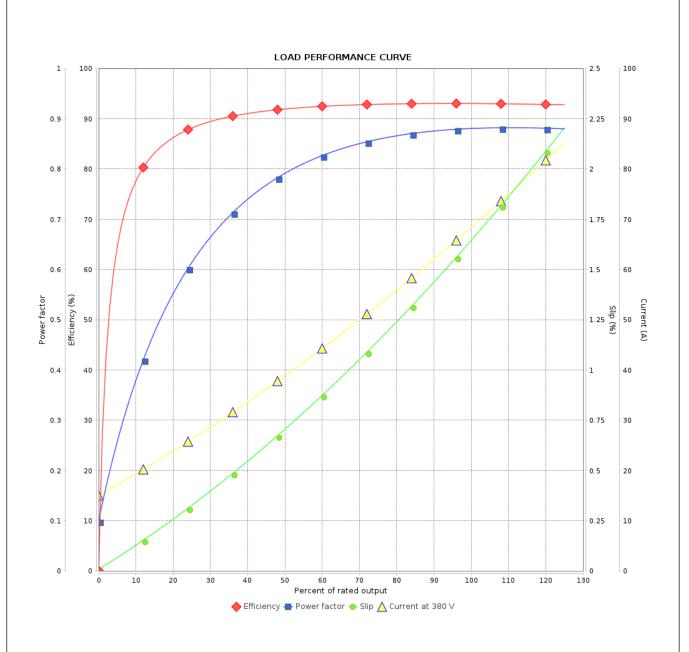


Customer :

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Performance	: 380 V 50 Hz 2P IE2	,			
Performance	. 300 V 30 HZ 2P IEZ				
Rated current LRC	: 68.7 A : 6.1	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.4198 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated torque Locked rotor torque Breakdown torque	: 12.3 kgfm : 190 % : 240 %				
Rated speed	: 2950 rpm	Design		: B	
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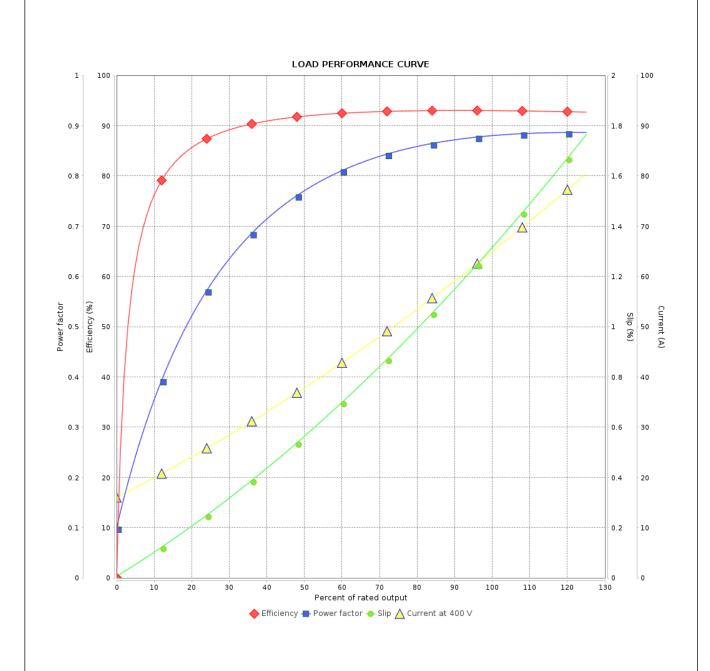


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Performance : 400 V 50 Hz 2P IE2 Rated current : 65.3 A Moment of inertia (J) : 0.4198 kgm<sup>2</sup> **LRC** : 6.7 Duty cycle : Cont.(S1) : F Rated torque : 12.3 kgfm Insulation class Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

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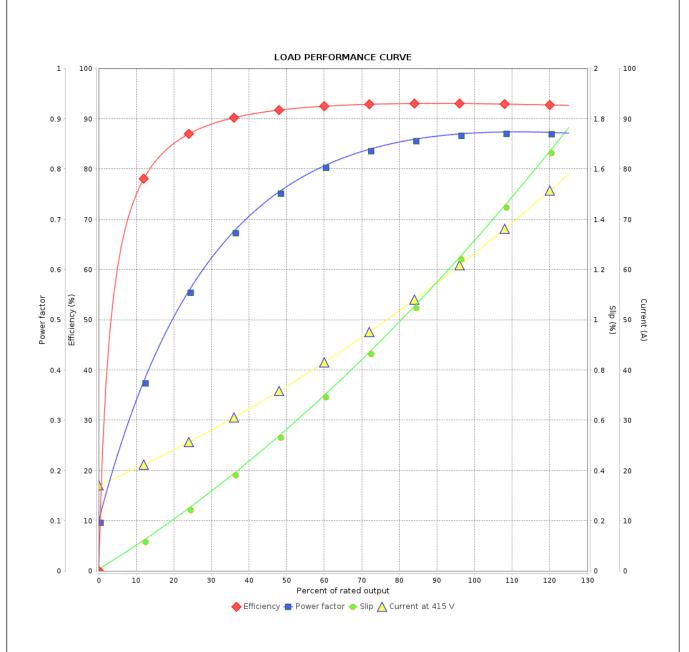


Customer :

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 63.6 A : 7.2 : 12.3 kgfm : 229 % : 290 % : 2960 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 0.4198 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2
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