## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325310

400/47

Frame : 182/4T 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 : 60.2 kg

Protection degree : IP55 Moment of inertia (J) : 0.0156 kgm²

Design : B

Design		: B			
Output [HP]		5	5	5	5
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		13.1/6.57	7.83	7.54	7.45
L. R. Amperes [A]		93.3/46.6	47.8	51.3	53.6
LRC [A]		7.1x(Code J)	6.1x(Code G)	6.8x(Code J)	7.2x(Code J)
No load current [A	]	6.20/3.10	3.10	3.40	3.80
Rated speed [RPN	<i>/</i> 1]	1750	1435	1440	1445
Slip [%]		2.78	4.33	4.00	3.67
Rated torque [kgfm]		2.07	2.53	2.52	2.51
Locked rotor torque [%]		229	210	229	250
Breakdown torque [%]		300	229	260	290
Service factor	Service factor		1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		43s (cold) 24s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	34s (cold) 19s (hot)
Noise level <sup>2</sup>		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%				
Efficiency (%)	50%	86.5	86.0	86.5	86.5
Linciency (70)	75%	88.5	86.5	87.0	87.0
	100%	89.5	86.5	87.5	87.5
	25%				
Power Factor	50%	0.59	0.67	0.63	0.59
i ower i actor	75%	0.71	0.77	0.74	0.72
	100%	0.79	0.83	0.81	0.79

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

Bearing type : 6307 2RS 6206 2RS Max. traction : 122 kgf Sealing : Oil Seal Lip Seal Max. compression : 183 kgf

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

Notes

USABLE @208V 14.5A SF 1.15 SFA 16.7A

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	

#### 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

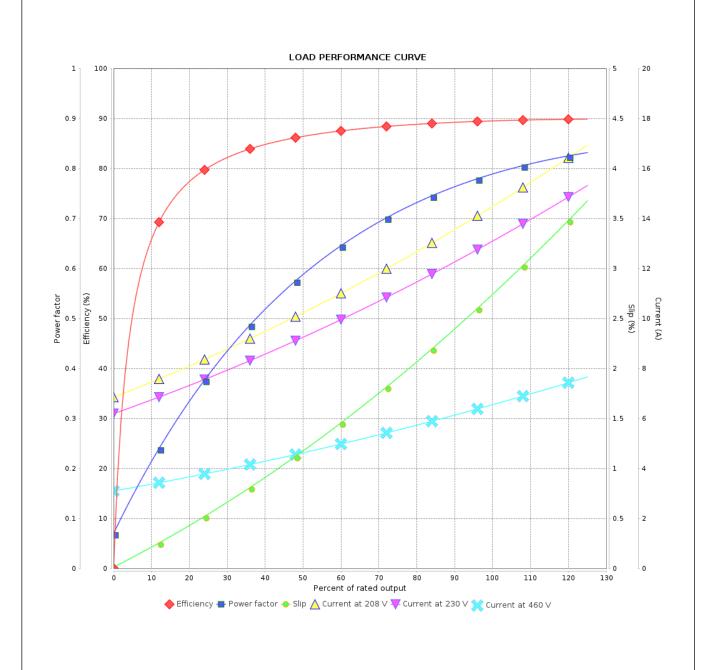


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325310



Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7 : 2 jue : 2	3.1/6.57 A .1 .07 kgfm 29 % 00 % 750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0156 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

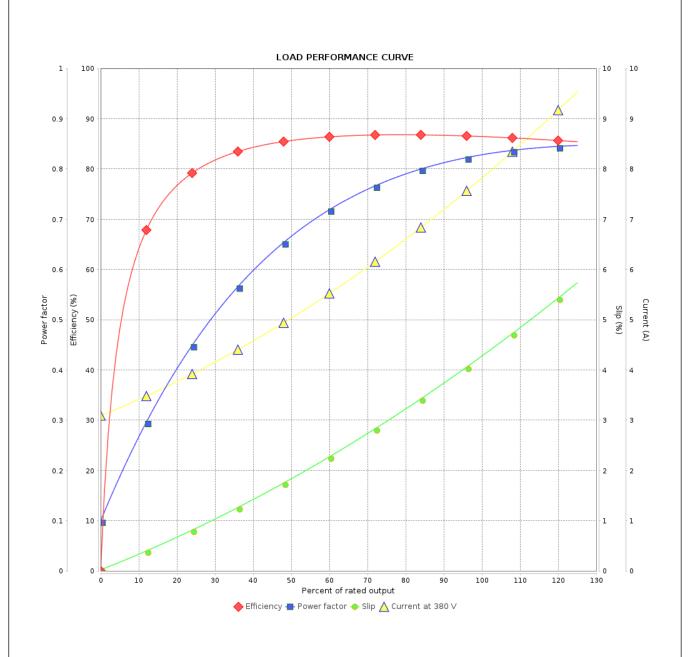


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325310



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.83 A : 6.1 : 2.53 kgfm : 210 % : 229 % : 1435 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0156 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
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Date

#### Three Phase Induction Motor - Squirrel Cage

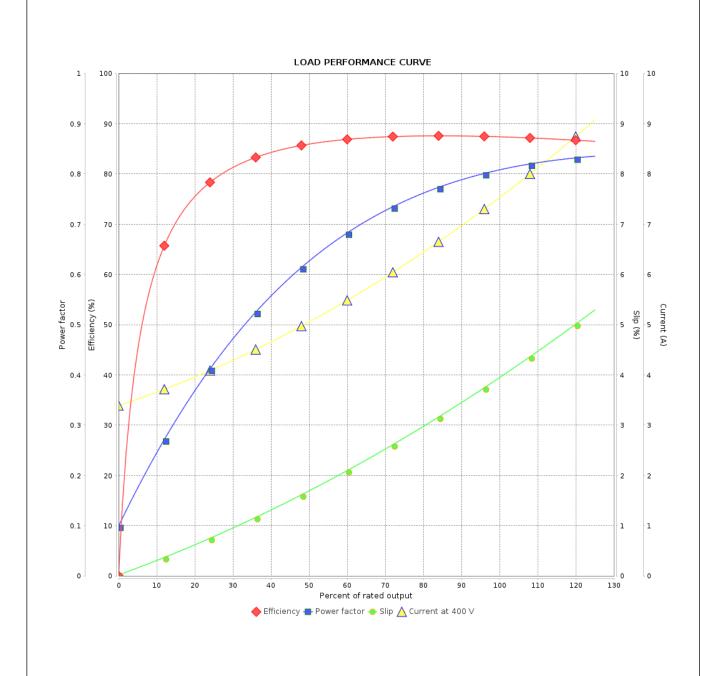


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325310



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	tated current : 7.54 A		Moment o	f inertia (J)	: 0.0156 kgm²	
LRC	: 6	.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	.52 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	440 rpm	Design		: B	
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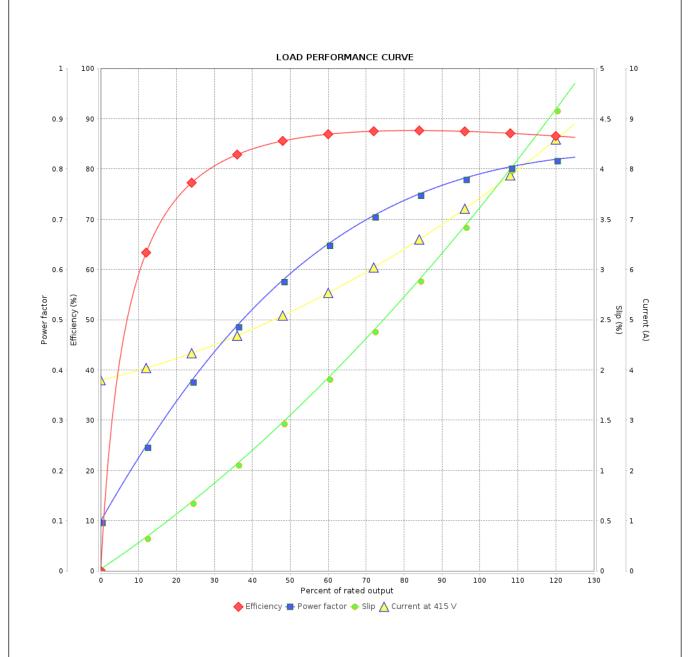


Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14325310



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current : 7.45 A		.45 A	Moment of	Moment of inertia (J)		2
LRC	: 7	.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	.51 kgfm	Insulation	class	: F	
Locked rotor torg	jue : 2	50 %	Service fa	actor	: 1.00	
Breakdown torqu	·		: 80 K			
Rated speed	: 1	445 rpm	Design		: B	
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