### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 14323498

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. weight : 30.8 kg

Protection degree : IP55 Moment of inertia (J) : 0.0041 kgm²

Protection degre	e	: IP55	Moment of ine	ertia (J)	41 kgm²
Design		: B		. ,	•
Output [HP]		1	1	1	1
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		2.94/1.47	1.73	1.68	1.66
L. R. Amperes [A]		25.3/12.6	11.6	12.4	13.1
LRC [A]		8.6x(Code M)	6.7x(Code J)	7.4x(Code K)	7.9x(Code L)
No load current [A	]	1.88/0.940	0.920	0.990	1.06
Rated speed [RPN	<i>/</i> I]	1755	1445	1450	1455
Slip [%]		2.50	3.67	3.33	3.00
Rated torque [kgfn	n]	0.414	0.502	0.501	0.499
Locked rotor torqu	e [%]	280	210	240	260
Breakdown torque	[%]	360	250	280	310
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		32s (cold) 18s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%				
Efficiency (%)	50%	80.0	81.5	81.0	80.0
Liliciency (70)	75%	82.5	82.5	82.5	82.5
	100%	85.5	82.5	82.5	84.0
	25%				
Power Factor	50%	0.57	0.62	0.58	0.55
Breakdown torque Service factor Temperature rise Locked rotor time	75%	0.68	0.74	0.70	0.68
	100%	0.75	0.80	0.78	0.75

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

Bearing type : 6205 2RS 6204 2RS | Max. traction : 28 kgf Sealing : Oil Seal Lip Seal | Max. compression : 60 kgf

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

Notes

USABLE @208V 3.16A SF 1.15 SFA 3.64A

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

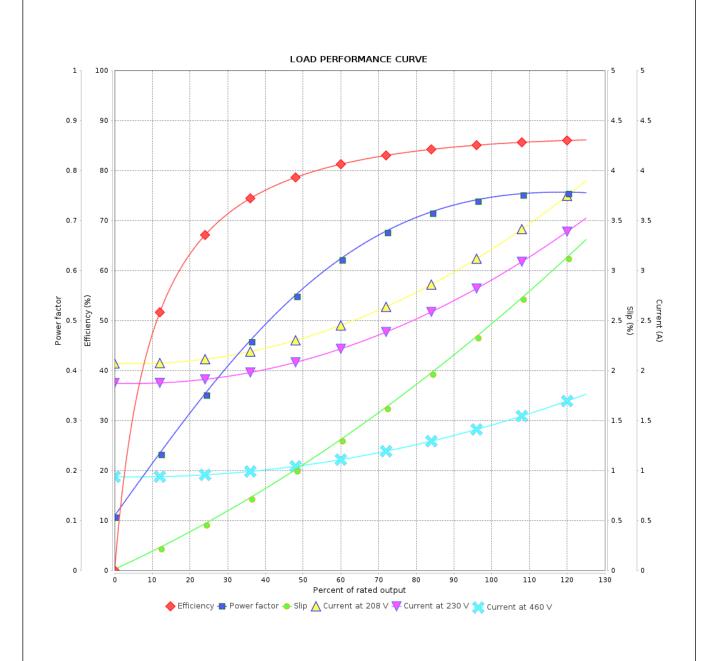


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LRC: 8.6Duty cycle: Cont.(S1)Rated torque: 0.414 kgfmInsulation class: FLocked rotor torque: 280 %Service factor: 1.15				)	: 230/460 V 60 Hz 4P	Performance	
Rated torque : 0.414 kgfm Insulation class : F Locked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B  Rev. Changes Summary Performed Checked	2	: 0.0041 kgm²	f inertia (J)	Moment o	: 2.94/1.47 A	Rated current LRC	
Locked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B  Rev. Changes Summary Performed Checked		: Cont.(S1)	•	Duty cycle	: 8.6		
Locked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B  Rev. Changes Summary Performed Checked		: F	Insulation class		: 0.414 kgfm	Rated torque Locked rotor torque	
Rated speed : 1755 rpm Design : B  Rev. Changes Summary Performed Checked		: 1.15			: 280 %		
Rev. Changes Summary Performed Checked		: 80 K	ure rise	Temperati	: 360 %	Breakdown torque	
		: B		Design	: 1755 rpm	Rated speed	
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Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

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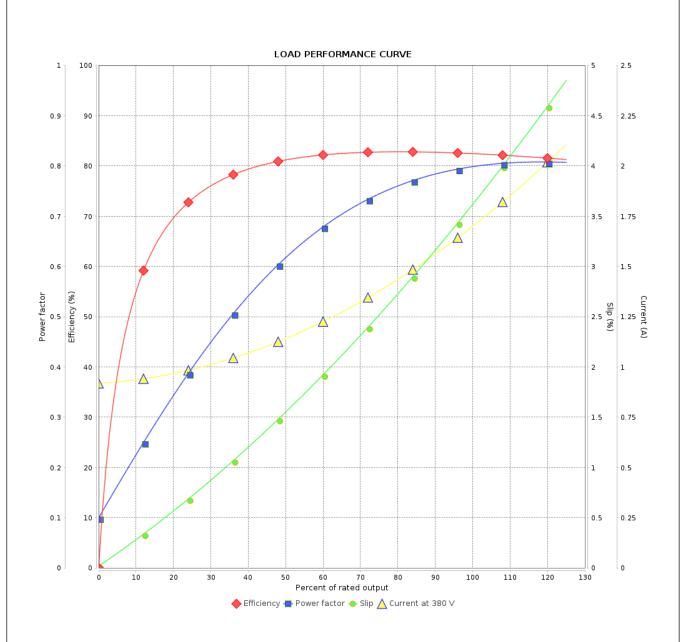
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Product line : W21 Explosion Proof NEMA

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				<del>,</del>	
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1.73 A : 6.7 : 0.502 kgfm : 210 % : 250 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0041 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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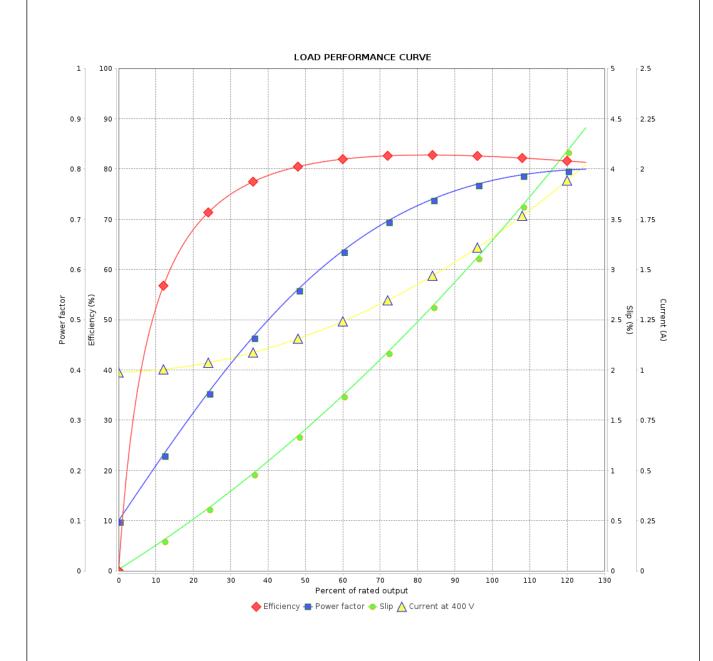


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Performance	:	: 400 V 50 Hz 4P IE3					
Rated current		: 1.68 A	Moment o	f inertia (J)	: 0.0041 kgm²		
LRC	:	: 7.4	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque	:	: 0.501 kgfm	Insulation	class	: F		
Locked rotor torque		: 240 %	Service factor		: 1.00		
Breakdown torque		: 280 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	: 1450 rpm	Design		: B		
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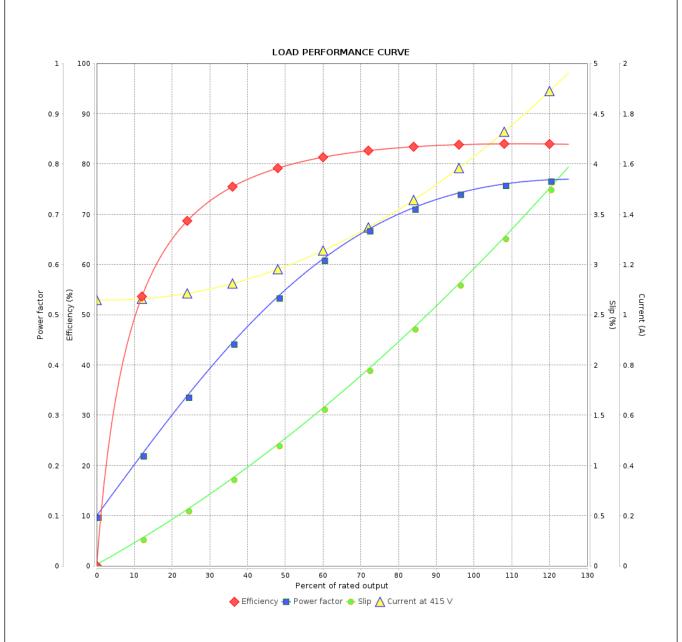
Date

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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14323498



Performance : 415 V 50 Hz 4P IE3 : 1.66 A : 0.0041 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) : 0.499 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by