### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14325310

Premium Efficiency Three-Phase

: 182/4T Frame Cooling method : IC411 - TEFC

Insulation class : F Mounting : 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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 60.4 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0156 kgm<sup>2</sup>

Design	_	: B		( )				
Output [HP]	put [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	<b>/</b> []	1750	1435	1440	1445			
Slip [%]	Slip [%]		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	emperature 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			
Lilloleticy (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			
1 OWCI I ACIOI	75%	0.71	0.77	0.74	0.72			
	100%	0.79	0.83	0.81	0.79			

Non drive end Foundation loads Drive end

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

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

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	
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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

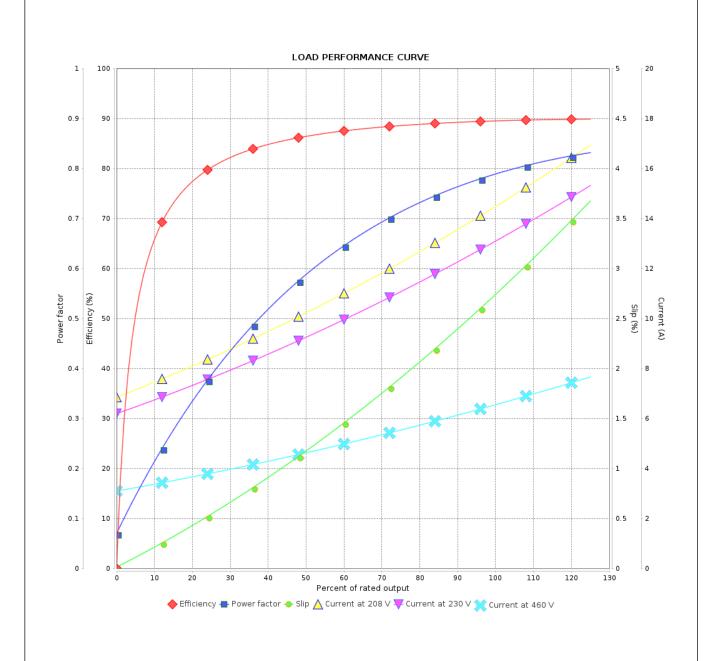


Customer :

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Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 1	3.1/6.57 A	3.1/6.57 A Moment of inertia (J)		: 0.0156 kgm²			
LRC :7		7.1	Duty cycle	<b>;</b>	: Cont.(S1)			
Rated torque : 2		2.07 kgfm	Insulation	class	: F			
•		229 %	Service fa	Service factor				
Breakdown torque	: 3	300 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 1	1750 rpm Desig			: B			
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#### Three Phase Induction Motor - Squirrel Cage



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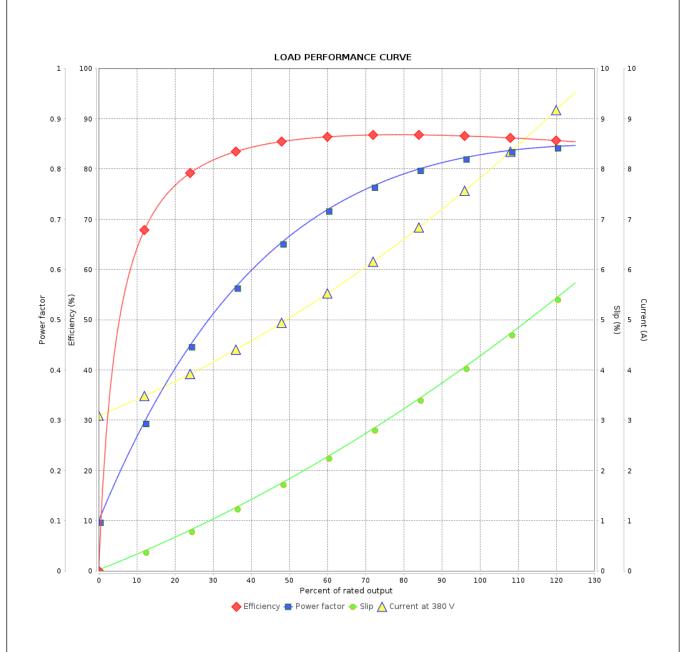
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 3	80 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2 ie : 2	.83 A .1 .53 kgfm 10 % 29 % 435 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 0.0156 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	: Cont.(S1) : F : 1.00 : 80 K	
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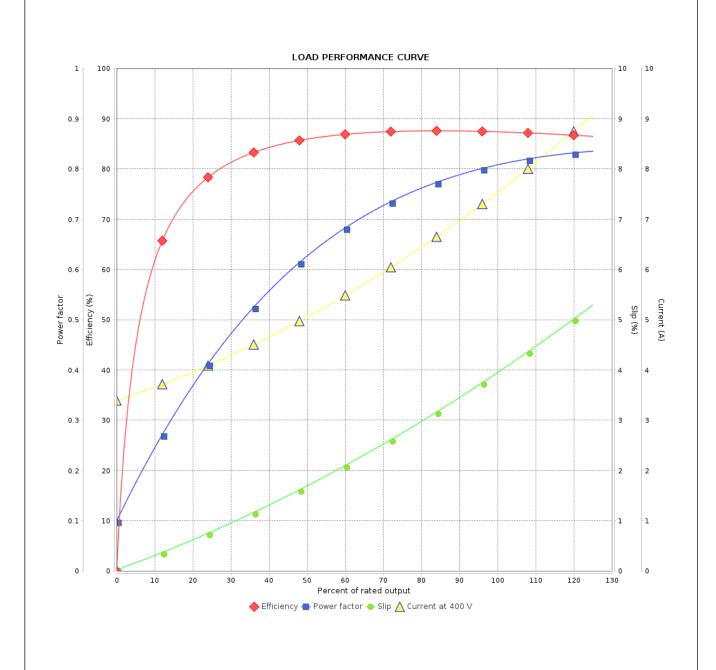


Customer :

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Performance : 400 V 50 Hz 4P IE2 : 7.54 A Rated current Moment of inertia (J) : 0.0156 kgm<sup>2</sup> **LRC** : 6.8 Duty cycle : Cont.(S1) : F Rated torque : 2.52 kgfm Insulation class Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B

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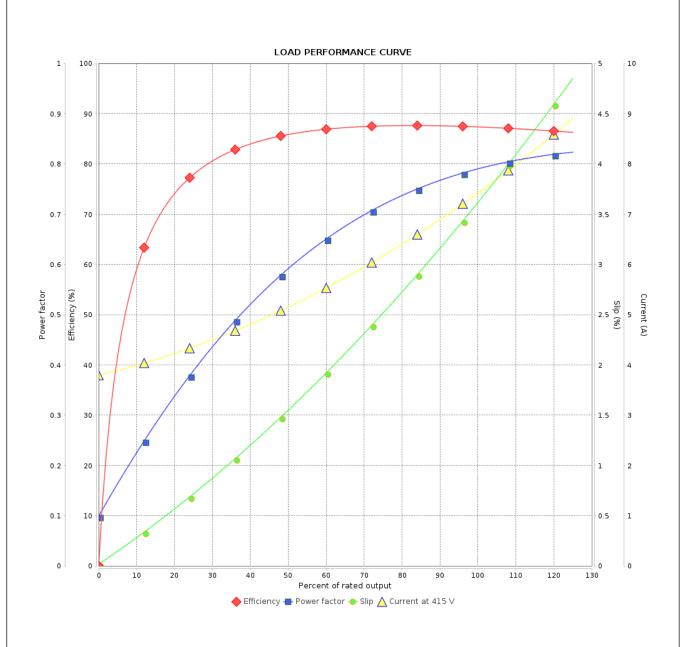


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Performance	: 4	415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : : : : : : : : : : : :	7.45 A 7.2 2.51 kgfm 250 % 290 % 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0156 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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