### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14325085

Premium Efficiency Three-Phase

: 143/5T 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

: 32.4 kg Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm<sup>2</sup>

Design		: B			(-)	3
Output [HP]		2		2	2	2
Poles		4		4	4	4
Frequency [Hz]		60		50	50	50
Rated voltage [V]		230/460		380	400	415
Rated current [A]		5.58/2.79		3.29	3.18	3.18
L. R. Amperes [A]		49.7/24.8		25.0 24.8		24.8
LRC [A]		8.9x(Code L)	7.6	Sx(Code K)	7.8x(Code K)	7.8x(Code K)
No load current [A		3.20/1.60		1.60	1.80	2.00
Rated speed [RPN	<b>/</b> 1]	1750		1425	1435	1445
Slip [%]		2.78		5.00	4.33	3.67
Rated torque [kgfm]		0.829		1.02	1.01	1.00
Locked rotor torque [%]		270		190	220	240
Breakdown torque [%]		320		220	250	270
Service factor		1.15		1.00	1.00	1.00
Temperature rise		80 K		80 K	80 K	80 K
Locked rotor time		19s (cold) 11s (hot)	21s (c	cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level <sup>2</sup>		51.0 dB(A)	4	9.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%					
Efficiency (%)	50%	84.0		84.0	82.5	82.5
Liliciency (70)	75%	85.5		84.0	84.0	84.0
	100%	86.5		82.5	84.0	84.0
	25%					
Power Factor	50%	0.56		0.64	0.59	0.55
I OWELL ACIOI	75%	0.70		0.77	0.73	0.69
	100%	0.78		0.84	0.81	0.78

Non drive end Foundation loads Drive end

6205 2RS 6204 2RS Bearing type Max. traction : 61 kgf Sealing Oil Seal Lip Seal Max. compression : 93 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 6.02A SF 1.15 SFA 6.92A

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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# DATA SHEET

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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

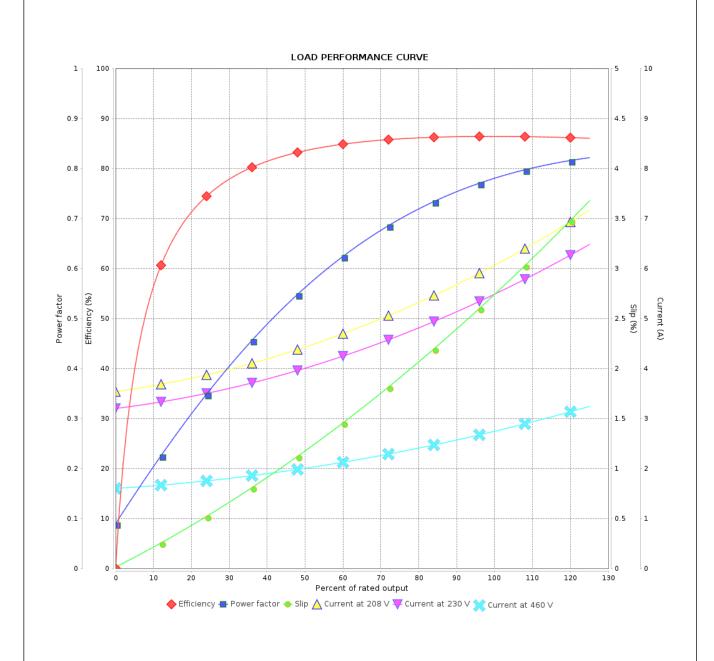


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Performance	:	230/460 V 60 Hz 4P				
Rated current		5.58/2.79 A	Moment o	Moment of inertia (J)		
LRC	:	8.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque : 0.829 kgfm Insulation class		class	: F			
Locked rotor torque		270 %	Service factor		: 1.15	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	1750 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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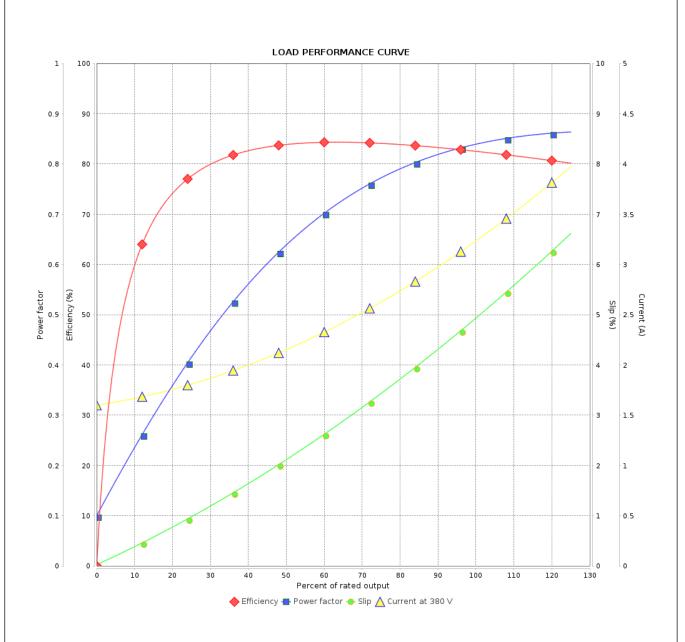
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	::	380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	3.29 A 7.6 1.02 kgfm 190 % 220 % 1425 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

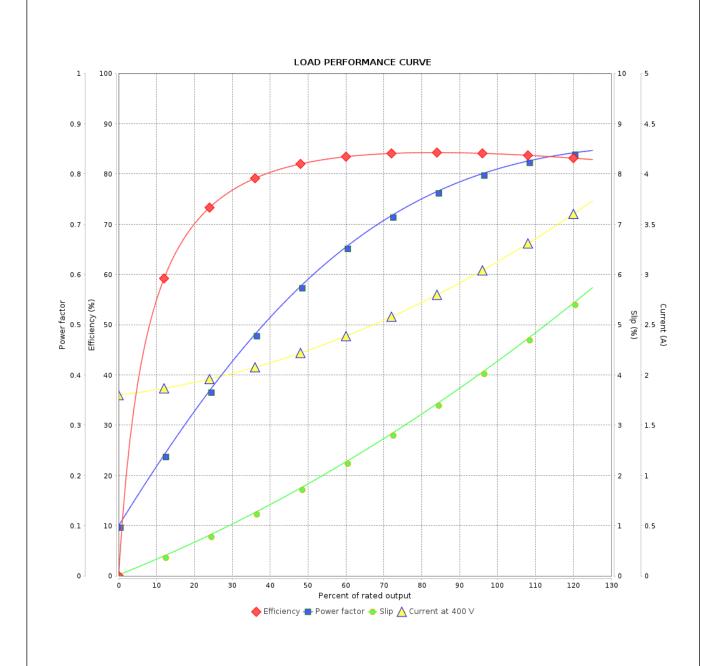


Customer :

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Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 3.18 A	Moment of inertia (J)		: 0.0067 kgm²	
LRC	: 7.8	Duty cycle		: Cont.(S1)	
Rated torque	: 1.01 kgfm	Insulation class		: F	
Locked rotor torque	: 220 %	Service factor Temperature rise Design		: 1.00	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 1435 rpm			: B	
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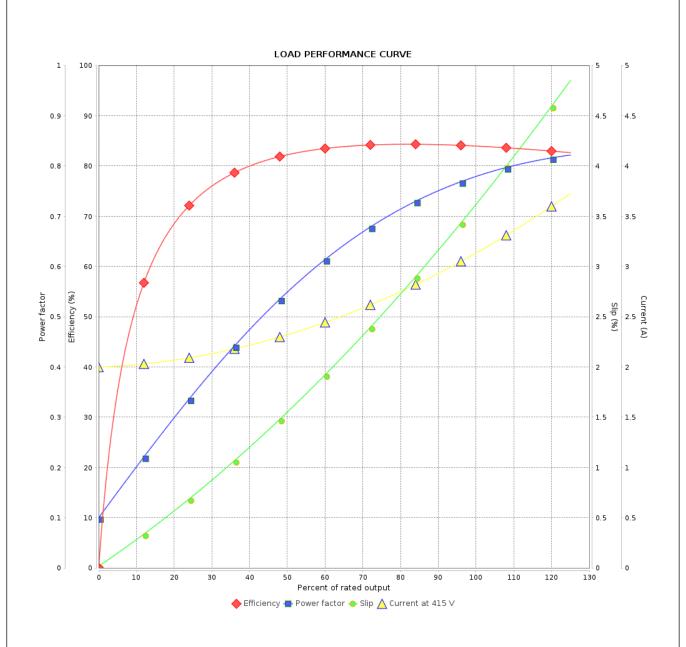
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 14325085



Performance : 415 V 50 Hz 4P IE2 : 0.0067 kgm<sup>2</sup> Rated current : 3.18 A Moment of inertia (J) **LRC** : 7.8 Duty cycle : Cont.(S1) : 1.00 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by