## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 14319266

Premium Efficiency Three-Phase

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1
Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 32.5 kg

Protection degre	е	: IP55	Moment of ine	t of inertia (J) : 0.0055 kgm²			
Design		: B					
Output [HP]		1.5	1.5	1.5	1.5		
Poles		4	4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		4.10/2.05	2.40	2.33	2.27		
L. R. Amperes [A]		36.5/18.2	15.8	16.8	17.5		
LRC [A]		8.9x(Code L)	6.6x(Code H)	7.2x(Code J)	7.7x(Code K)		
No load current [A	.]	2.40/1.20	1.20	1.30	1.40		
Rated speed [RPN		1755	1440	1445 1450			
Slip [%]	%] 2.50 4.00 3.67 3		3.33				
Rated torque [kgfr	n]	0.620 0.756 0.753 0.751		0.751			
Locked rotor torqu	ıe [%]	270	200	229	250		
Breakdown torque	: [%]	350	260	290 320			
Service factor		1.15	1.00	1.00 1.00			
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)		
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)		
	25%	80.2	83.7	83.7	80.9		
Efficiency (0/.)	50%	81.5	84.0	84.0	82.5		
Efficiency (%)	75%	85.5	84.0	84.0	84.0		
	100%	86.5	84.0	84.0	85.5		
	25%	0.34	0.39	0.35	0.33		
Power Factor	50%	0.58	0.66	0.62	0.58		
FOWEI FACIOI	75%	0.70	0.77	0.74	0.71		
	100%	0.78	0.83	0.81	0.79		

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

Bearing type : 6205 2RS 6204 2RS Max. traction : 52 kgf Sealing : Oil Seal Lip Seal Max. compression : 85 kgf

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

Notes

USABLE @208V 4.53A SF 1.15 SFA 5.21A

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	
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

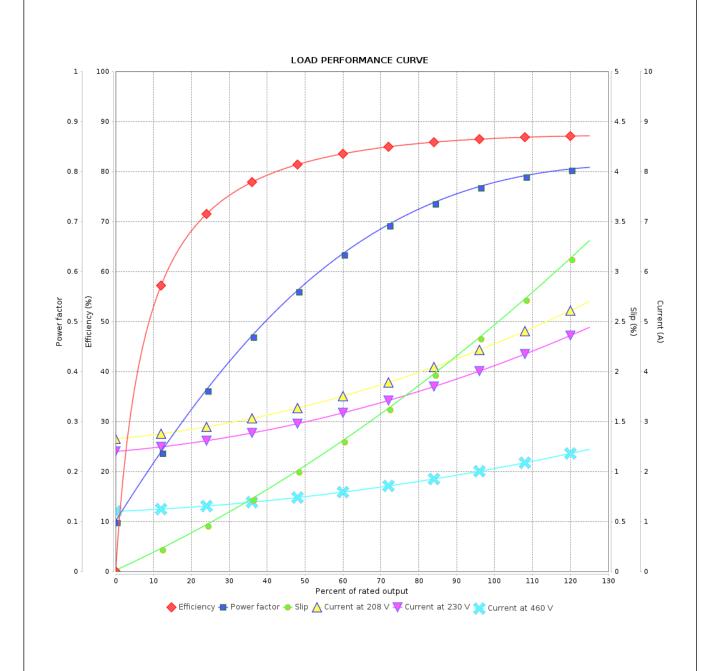


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Performance		: 230/460 V 60 Hz 4F	•				
	LRC		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0055 kgm² : Cont.(S1) : F : 1.15	
Breakdown torque : 350 % Rated speed : 1755 rpm		Temperati Design	ure rise	: 80 K : B			
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#### Three Phase Induction Motor - Squirrel Cage



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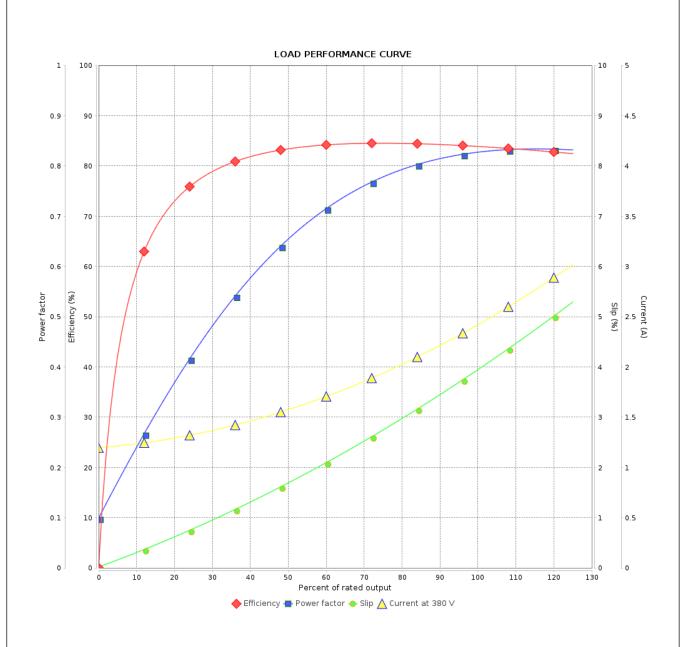
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Product line : W21 Explosion Proof NEMA

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Performance : 380 V 50 Hz 4P IE2 : 2.40 A : 0.0055 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** : 6.6 Duty cycle : Cont.(S1) : 0.756 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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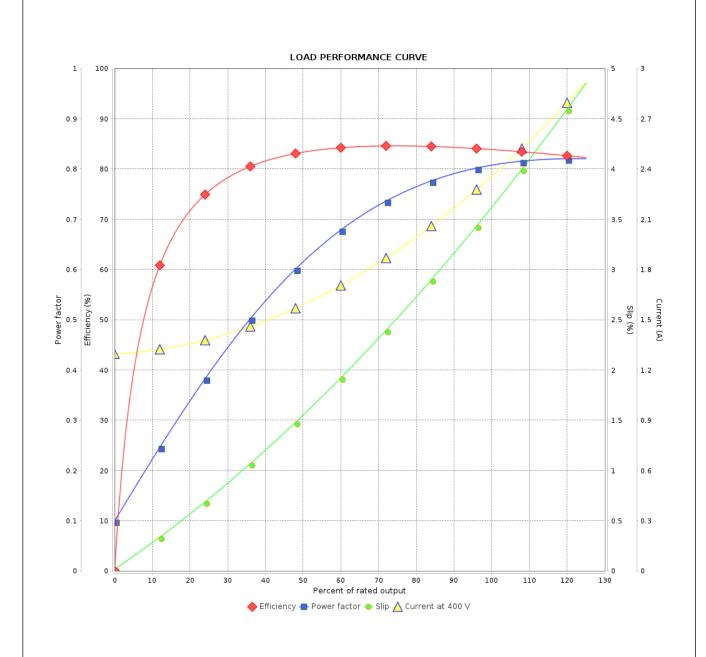
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Performance		: 400 V 50 Hz 4P IE	<b>E</b> 2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 2.33 A : 7.2 : 0.753 kgfm : 229 % : 290 % : 1445 rpm	Duty cycl Insulation Service for	Duty cycle : ( Insulation class : I Service factor : ( Temperature rise : (		: 0.0055 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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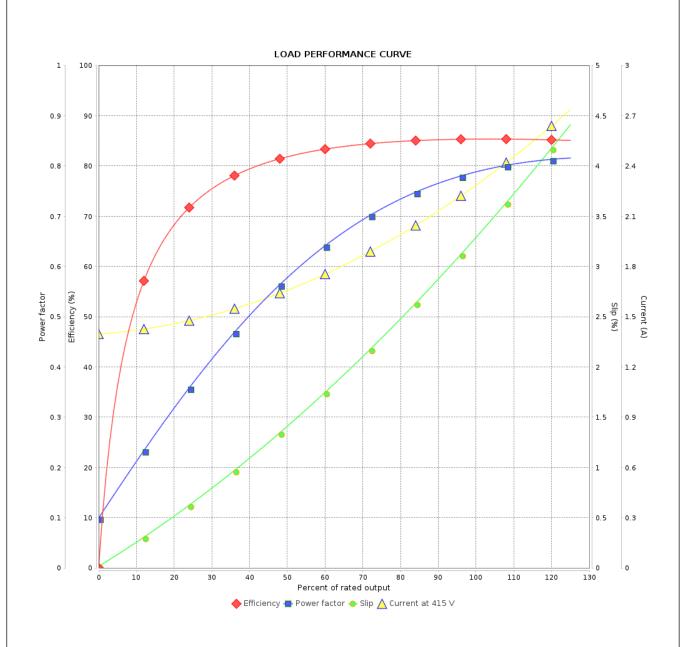
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Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : :	2.27 A 7.7 0.751 kgfm 250 % 320 % 1450 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0055 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
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