## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 15488756

Premium Efficiency Three-Phase

: 254T Frame Cooling method : IC411 - TEFC

Insulation class Mounting : F : 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

Approx. weight<sup>3</sup> : 147 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.1436 kgm<sup>2</sup>

Design		: B			(-)	3
Output [HP]		5		5	5	5
Poles		8	8		8	8
Frequency [Hz]		60		50	50	50
Rated voltage [V]		230/460		380	400	415
Rated current [A]		15.9/7.93		9.17	8.92	8.73
L. R. Amperes [A]		84.0/42.0		48.6	47.3	46.3
LRC [A]		5.3x(Code H)	5.3	x(Code H)	5.3x(Code H)	5.3x(Code H)
No load current [A	]	11.0/5.50		5.44	5.77	6.03
Rated speed [RPN	<b>/</b> 1]	880		720	725	730
Slip [%]		2.22		4.00	3.33	2.67
Rated torque [kgfm]		4.12	5.04		5.01	4.97
Locked rotor torque [%]		210		160	180	200
Breakdown torque [%]		270		200	229	250
Service factor	Service factor			1.00	1.00	1.00
Temperature rise		80 K		80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	37s (c	old) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)
Noise level <sup>2</sup>		55.0 dB(A)	53	3.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%					
Efficiency (%)	50%	84.0		82.5	82.5	82.5
Liliciency (70)	75%	86.5		84.0	84.0	84.0
	100%	87.5		84.0	85.5	85.5
	25%					
Power Factor	50%	0.46		0.53	0.50	0.47
1 OWCI I ACIOI	75%	0.58		0.65	0.62	0.60
	100%	0.67		0.73	0.70	0.69

Foundation loads Non drive end Drive end

6309 6209 Bearing type Max. traction : 122 kgf 2RS C3 2RS C3

Sealing Oil Seal Lip Seal Max. compression : 268 kgf Lubrication interval Lubricant amount

Mobil Polyrex EM

Lubricant type

USABLE @208V 17.5A SF 1.15 SFA 20.2A

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

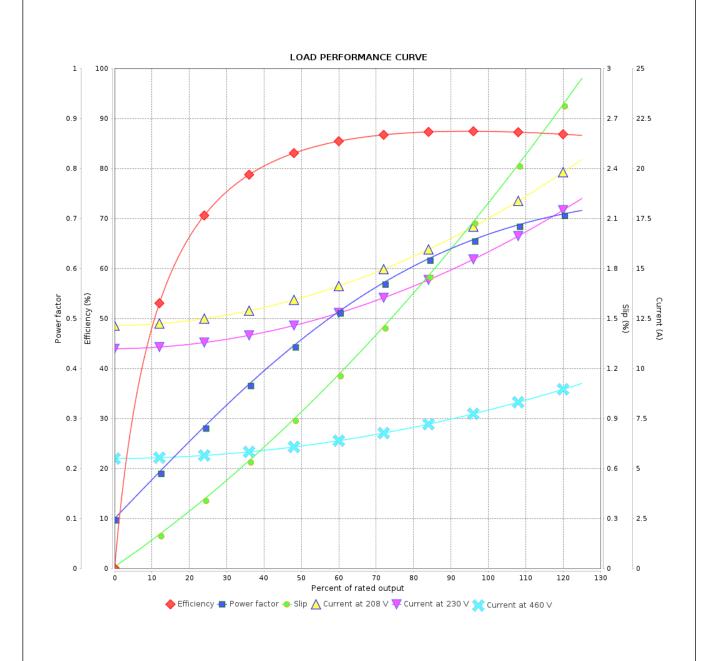


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 15488756



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.9/7.93 A : 5.3 : 4.12 kgfm : 210 % : 270 % : 880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1436 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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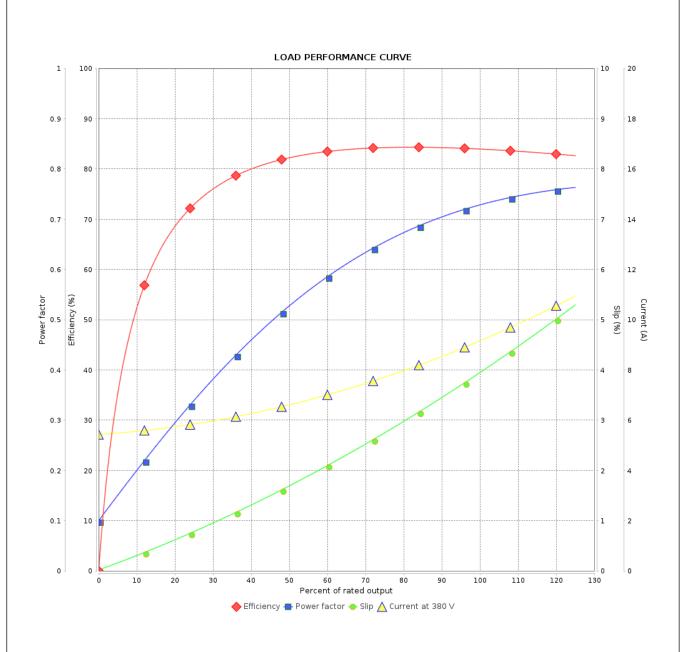
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 15488756



Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.17 A : 5.3 : 5.04 kgfm : 160 % : 200 % : 720 rpm	Moment of Duty cycle Insulation Service far Temperation Design	class ctor	: 0.1436 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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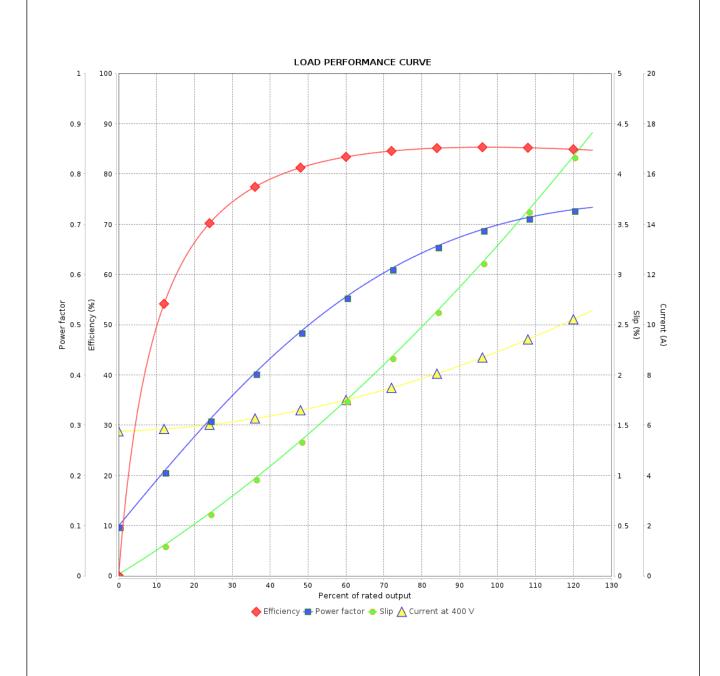


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 15488756



Performance		: 400 V 50 Hz 8P IE	:3			
Rated current LRC Rated torque		: 8.92 A : 5.3 : 5.01 kgfm	Moment Duty cycl		: 0.1436 kgm : Cont.(S1) : F	<b>1</b> 2
Locked rotor tord Breakdown tord Rated speed	•	: 180 % : 229 % : 725 rpm		Service factor Temperature rise		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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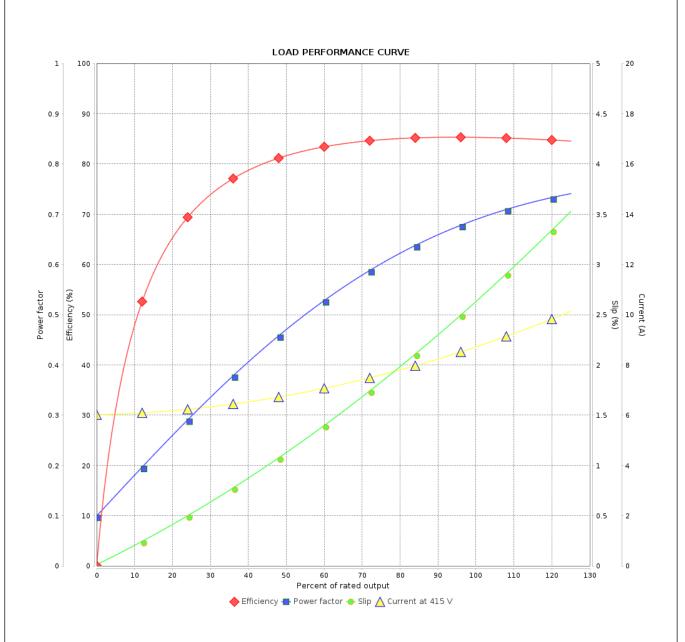
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 4	15 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 4 lue : 2 le : 2	5.73 A 5.3 97 kgfm 90 % 50 % 30 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1436 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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