## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium Product code:

14751226

Efficiency Three-Phase

: 254T Frame Insulation class : F

: Cont.(S1) : -20°C to +40°C

6309 C3

Oil Seal

15797 h

13 g

Mobil Polyrex EM

Cooling method : IC411 - TEFC Mounting : F-1 Rotation<sup>1</sup>

Duty cycle Ambient temperature : 1000 m.a.s.l. Altitude

: Both (CW and CCW) Starting method : Direct On Line

Protection degree : IP55 Design : B

Approx. weight<sup>3</sup> : 144 kg Moment of inertia (J) : 0.0500 kgm<sup>2</sup>

Output [HP]		15	15
Poles		2	2
Frequency [Hz]		60	50
Rated voltage [V]		230/460	380
Rated current [A]		34.8/17.4	21.0
L. R. Amperes [A]		237/118	113
LRC [A]		6.8x(Code G)	5.4x(Code E)
No load current [A]	]	12.0/6.00	5.90
Rated speed [RPN	1]	3540	2915
Slip [%]		1.67	2.83
Rated torque [kgfn		3.08	3.73
Locked rotor torqu		200	150
Breakdown torque [%]		270	210
Service factor		1.15	1.00
Temperature rise		80 K	80 K
Locked rotor time		55s (cold) 31s (hot)	55s (cold) 31s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	70.0 dB(A)
	25%	0.000	0.000
Efficiency (%)	50%	90.0	91.0
Lincichoy (70)	75%	90.5	90.2
	100%	91.0	89.5
	25%	0.00	0.00
Power Factor	50%	0.74	0.80
1 OWCI I doloi	75%	0.83	0.86
	100%	0.87	0.89
		<u>Drive end</u> <u>Non drive end</u> Founda	ation loads

6209 C3

Lip Seal

18447 h

9 g

Max. traction

Max. compression

Lubricant type Notes

Sealing

Bearing type

Lubrication interval

Lubricant amount

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.

: 51 kgf

: 195 kgf

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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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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

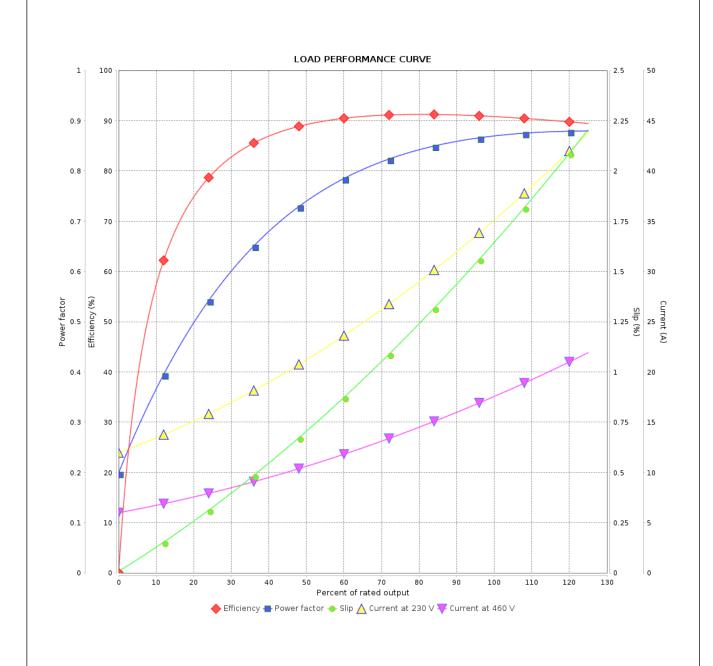


Customer

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14751226



Performance	: 2	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6 : 3 ue : 2 e : 2	Moment of inertia (J) 34.8/17.4 A Buty cycle Buty cycle Insulation class Service factor Temperature rise Design		e class actor	: 0.0500 kgm² : Cont.(S1) : F : 1.15 : 80 K : B			
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

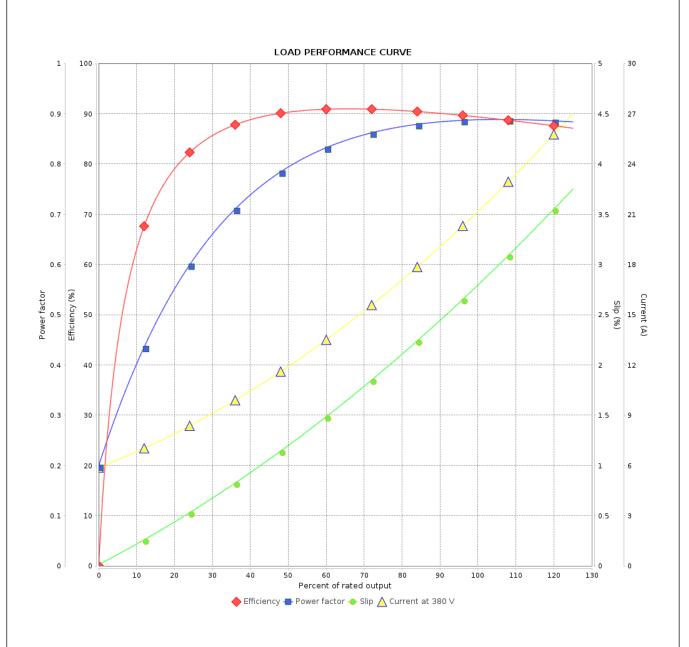
Date

15/01/2024

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14751226



Performance	: 3	380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 3 uue : 1 ie : 2	21.0 A 5.4 3.73 kgfm 150 % 210 % 2915 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0500 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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