

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 14603955

Frame	: 143/5T	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.15 A	Protection degree	: IP55
L. R. Amperes	: 19.8 A	Cooling method	: IC411 - TEFC
LRC	: 9.2x(Code L)	Mounting	: F-1
No load current	: 0.960 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3495 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 2.92 %	Starting method	: Direct On Line
Rated torque	: 0.416 kgfm	Approx. weight <sup>3</sup>	: 32.4 kg
Locked rotor torque	: 370 %		
Breakdown torque	: 420 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0023 kgm <sup>2</sup>		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	80.0	84.0	85.5	Max. traction	: 33 kgf
Power Factor	0.64	0.76	0.82	Max. compression	: 66 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 2RS	6204 2RS
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

### Notes

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 :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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# LOAD PERFORMANCE CURVE

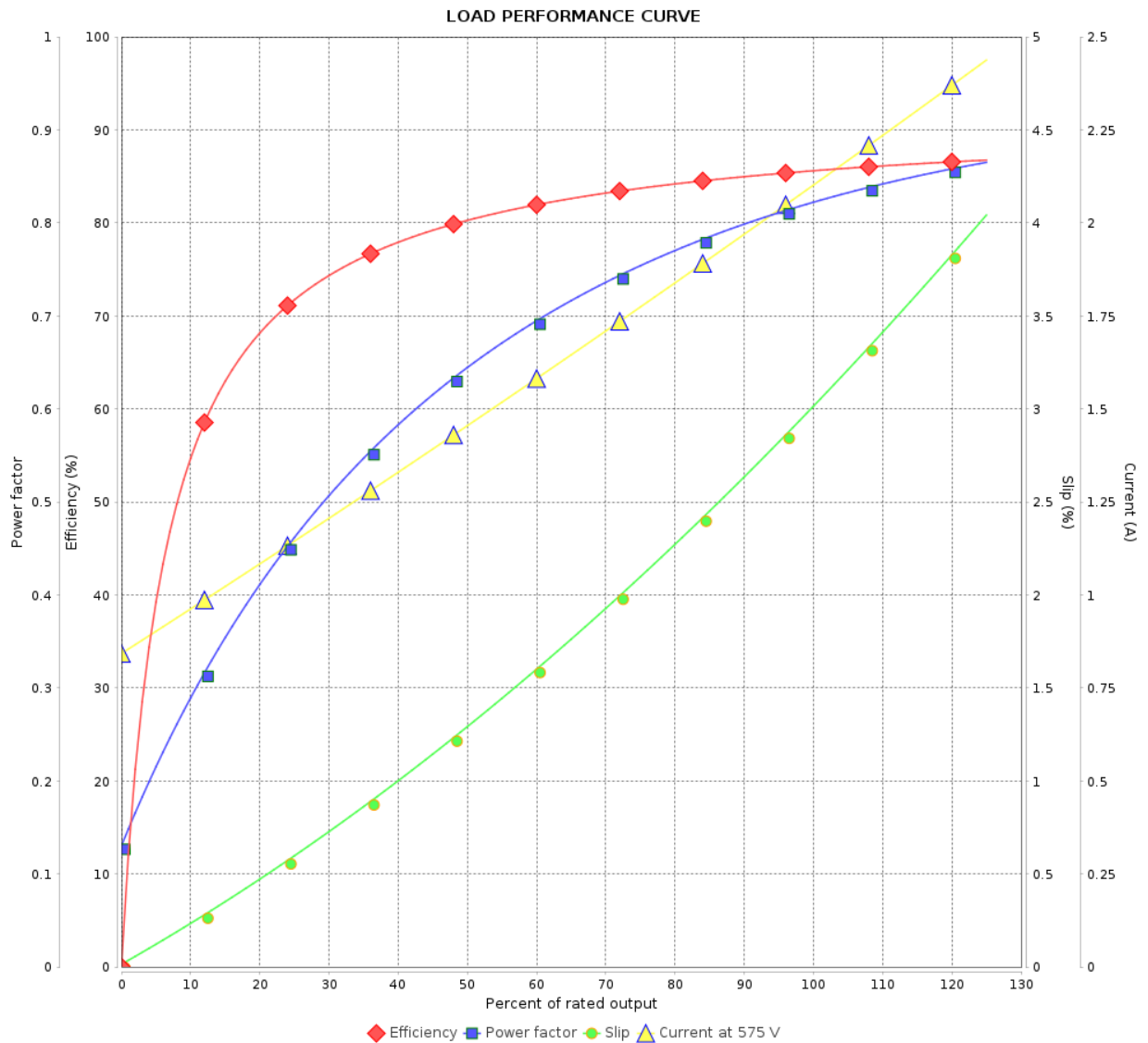
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA  
Premium Efficiency Three-Phase

Product code : 14603955



Performance : 575 V 60 Hz 2P

Rated current	: 2.15 A	Moment of inertia (J)	: 0.0023 kgm <sup>2</sup>
LRC	: 9.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.416 kgfm	Insulation class	: F
Locked rotor torque	: 370 %	Service factor	: 1.15
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 3495 rpm	Design	: B

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