

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 14284619

Frame	: L215TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 104 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0563 kgm ²
Design	: B		

Output [HP]	10	10
Poles	4	4
Frequency [Hz]	50	60
Rated voltage [V]	380	208-230/460
Rated current [A]	15.3	28.0-25.3/12.7
L. R. Amperes [A]	87.2	182-164/82.5
LRC [A]	5.7x(Code G)	6.5x(Code H)
No load current [A]	5.30	9.48-11.0/5.50
Rated speed [RPM]	1450	1765
Slip [%]	3.33	1.94
Rated torque [kgfm]	5.01	4.11
Locked rotor torque [%]	165	210
Breakdown torque [%]	220	270
Service factor	1.00	1.15
Temperature rise	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	27s (cold) 15s (hot)
Noise level ²	56.0 dB(A)	58.0 dB(A)
Efficiency (%)	25%	0.000
	50%	90.2
	75%	89.5
	100%	88.5
Power Factor	25%	0.00
	50%	0.70
	75%	0.80
	100%	0.84

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6308 2RS	6207 2RS	Max. traction : 153 kgf
Sealing	: Oil Seal	Lip Seal	Max. compression : 257 kgf
Lubrication interval	: 0 h	0 h	
Lubricant amount	: 0 g	0 g	
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
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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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