

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14380390

Catalog # : 00718XT3H213T

Frame : 213/5T
Output : 7.5 HP (5.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 7.53 A
L. R. Amperes : 50.4 A
LRC : 6.7x(Code H)
No load current : 2.72 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 22.3 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 280 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.38 sq.ft.lb
Design : B

Locked rotor time : 21s (cold) 12s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 58.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 198 lb

Output 25% 50% 75% 100%

Efficiency (%) 89.4 90.2 91.0 91.7
Power Factor 0.40 0.60 0.73 0.80

Foundation loads

Max. traction : 254 lb
Max. compression : 451 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.8	7.3	6.4	4.4	2.9	1.9	1.3

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6308 2RS	6207 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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