

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13811912

Catalog # :

Frame : 182/4T
Output : 3 HP (2.2 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.81/3.91 A
L. R. Amperes : 58.6/29.3 A
LRC : 7.5x(Code J)
No load current : 4.00/2.00 A
Rated speed : 1750 rpm
Slip : 2.78 %
Rated torque : 9.00 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 340 %
Insulation class : H
Service factor : 1.00
Moment of inertia (J) : 0.3987 sq.ft.lb
Design : B

Locked rotor time : 45s (cold) 25s (hot)
Temperature rise : 105 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC410 - TENV
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : VFD
Approx. weight³ : 90.4 lb

Output	25%	50%	75%	100%
Efficiency (%)	0.000	89.0	89.5	89.5
Power Factor	0.00	0.59	0.72	0.79

Foundation loads
Max. traction : 150 lb
Max. compression : 241 lb

	Drive end	Non drive end
Bearing type	6207 ZZ C3	6207 ZZ C3
Sealing	V'Ring	V'Ring
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.

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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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