

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12592403

Catalog # : 00158NT3FVD145TC-W22

Frame : 143/5TC
Output : 1.5 HP (1.1 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 3.99/2.00 A
L. R. Amperes : 34.3/17.2 A
LRC : 8.6x(Code L)
No load current : 2.15/1.08 A
Rated speed : 1755 rpm
Slip : 2.50 %
Rated torque : 4.49 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 310 %
Insulation class : H
Service factor : 1.00
Moment of inertia (J) : 0.1424 sq.ft.lb
Design : B

Locked rotor time : 25s (cold) 14s (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 : 55.1 lb

Output	25%	50%	75%	100%
Efficiency (%)	0.000	85.5	86.0	86.5
Power Factor	0.00	0.60	0.73	0.80

Foundation loads

Max. traction : 93 lb
Max. compression : 148 lb

	Drive end	Non drive end
Bearing type	6205 ZZ	6205 ZZ
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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