

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11355296

Catalog # : 07536ET3E365TS-W22

Frame : 364/5TS
Output : 75 HP (55 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 164/81.9 A
L. R. Amperes : 1097/549 A
LRC : 6.7x(Code G)
No load current : 40.0/20.0 A
Rated speed : 3555 rpm
Slip : 1.25 %
Rated torque : 111 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 11.9 sq.ft.lb
Design : B

Locked rotor time : 18s (cold) 10s (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 : 79.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 866 lb

Output	50%	75%	100%
Efficiency (%)	92.4 91.2 91.5 91.8 92.4 92.4 93.0	93.6 92.5 93.0 93.1 93.0 93.0 93.6	93.6 94.0 94.0 94.0 92.4 93.0 93.0
Power Factor	0.83 0.75 0.72 0.70 0.86 0.84 0.83	0.88 0.85 0.83 0.82 0.89 0.89 0.88	0.90 0.90 0.88 0.88 0.90 0.90 0.90

Foundation loads
Max. traction : 664 lb

Max. compression : 1529 lb

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	4000 h	4000 h
Lubricant amount :	27 g	27 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		Page 1 / 2 Revision		
Checked by				
Date	29/03/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	29/03/2024				