

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13526368

Catalog # : 01512ET3E284TS-W22

Frame : 284/6TS
Output : 15 HP (11 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 35.8/17.9 A
L. R. Amperes : 229/115 A
LRC : 6.4x(Code G)
No load current : 14.0/7.00 A
Rated speed : 1175 rpm
Slip : 2.08 %
Rated torque : 67.0 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 260 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 7.85 sq.ft.lb
Design : B

Locked rotor time : 36s (cold) 20s (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 : 59.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 410 lb

Output	25%		50%		75%		100%	
Efficiency (%)	90.8	88.8	91.0	89.0	91.7	89.4	91.7	89.4
	89.0	89.0	89.1	89.1	89.5	89.5	89.5	89.5
	92.4	90.6	91.0	90.2	90.2	90.2	88.5	89.5
	90.7	90.2	91.0	90.2				
Power Factor	0.44	0.39	0.69	0.64	0.80	0.76	0.84	0.82
	0.36	0.34	0.61	0.58	0.73	0.71	0.80	0.78
	0.50	0.47	0.75	0.72	0.83	0.81	0.86	0.85
	0.45	0.70	0.80	0.84				

Foundation loads
Max. traction : 676 lb
Max. compression : 1086 lb

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

Losses (%)	P1 (0,9;1,0)	8.6	11.2	11.1	11.1	12.3	11.1	10.3
	P2 (0,5;1,0)	6.9	9.1	9.0	9.0	10.0	9.0	8.3
	P3 (0,25;1,0)	6.2	8.1	8.0	8.0	8.9	8.0	7.4
	P4 (0,9;0,5)	4.3	5.6	5.6	5.6	6.2	5.6	5.2
	P5 (0,5;0,5)	2.8	3.6	3.6	3.6	4.0	3.6	3.3
	P6 (0,5;0,25)	1.8	2.4	2.4	2.4	2.6	2.4	2.2
	P7 (0,25;0,25)	1.2	1.6	1.6	1.6	1.8	1.6	1.5

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6311 C3	6211 C3
Sealing :	V'Ring	V'Ring
Lubrication interval :	20000 h	20000 h
Lubricant amount :	18 g	11 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				
Date	28/03/2024			

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Revision