

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 11431380

Catalog # : 12536ST3QIE444TS-W22

Frame : 444/5TS
Output : 125 HP
Poles : 2
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 134 A
L. R. Amperes : 884 A
LRC : 6.6x(Code G)
No load current : 34.0 A
Rated speed : 3570 rpm
Slip : 0.83 %
Rated torque : 184 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 33.5 sq.ft.lb
Design : B

Locked rotor time : 52s (cold) 29s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP56
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 81.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1625 lb

Output	50%	75%	100%
Efficiency (%)	93.6 93.2	94.5 94.3	95.0 94.7
	93.2 92.8	94.3 94.3	94.7 94.8
	94.0 94.0	94.5 94.5	94.5 94.5
	94.0	94.5	95.0
Power Factor	0.82 0.79	0.87 0.87	0.89 0.89
	0.77 0.75	0.87 0.85	0.89 0.89
	0.85 0.84	0.88 0.88	0.89 0.89
	0.82	0.87	0.89

Foundation loads
Max. traction : 601 lb

Max. compression : 2226 lb

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

Losses (%)	P1 (0,9;1,0)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P2 (0,5;1,0)	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	P3 (0,25;1,0)	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	1.4	1.4	1.4	1.4	1.4	1.4	1.4
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.5	0.5	0.5	0.5	0.5	0.5	0.5

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	Inpro/Seal	Inpro/Seal
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 / 1 Revision		
Checked by				
Date	25/03/2024			