

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12321387

Catalog # : 07512ET3H405TC-W22

Frame : 404/5TC
Output : 75 HP (55 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 67.9 A
L. R. Amperes : 435 A
LRC : 6.4x(Code G)
No load current : 24.0 A
Rated speed : 1184 rpm
Slip : 1.33 %
Rated torque : 333 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 40.2 sq.ft.lb
Design : B

Locked rotor time : 30s (cold) 17s (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 : 68.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 1217 lb

Output 50% 75% 100%

Efficiency (%) 94.1 94.5 94.5
Power Factor 0.74 0.83 0.86

Foundation loads

Max. traction : 1688 lb
Max. compression : 2905 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.3	5.0	4.5	3.5	2.3	1.7	1.1

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6316 C3	6314 C3
Sealing :	Oil Seal	Oil Seal
Lubrication interval :	16000 h	17000 h
Lubricant amount :	34 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 Revision 1 / 1		
Checked by				
Date	29/03/2024			