

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11573072

Catalog # : 10018ET3H405T-W22

Frame : 404/5T
 Output : 100 HP (75 kW)
 Poles : 4
 Frequency : 60 Hz
 Rated voltage : 575 V
 Rated current : 90.4 A
 L. R. Amperes : 660 A
 LRC : 7.3x(Code H)
 No load current : 30.4 A
 Rated speed : 1780 rpm
 Slip : 1.11 %
 Rated torque : 295 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 260 %
 Insulation class : F
 Service factor : 1.25
 Moment of inertia (J) : 29.9 sq.ft.lb
 Design : B

Locked rotor time : 23s (cold) 13s (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 : 1162 lb

Output 25% 50% 75% 100%

Efficiency (%) 0.000 95.0 95.0 95.4
 Power Factor 0.00 0.77 0.84 0.87

Foundation loads

Max. traction : 1721 lb
 Max. compression : 2883 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)
4.7	3.8	3.7	2.2	1.5	0.9	0.6

	Drive end	Non drive end
Bearing type :	6316 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	10000 h	12000 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	28/03/2024			