

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165758

Catalog # : 05012ET3H365T-W22

Frame : 364/5T  
Output : 50 HP (37 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 45.9 A  
L. R. Amperes : 294 A  
LRC : 6.4x(Code G)  
No load current : 16.0 A  
Rated speed : 1183 rpm  
Slip : 1.42 %  
Rated torque : 222 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 240 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 32.4 sq.ft.lb  
Design : B

Locked rotor time : 32s (cold) 18s (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  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 66.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 889 lb

Output	50%	75%	100%
Efficiency (%)	93.6	94.1	94.1
Power Factor	0.74	0.83	0.86

Foundation loads  
Max. traction : 1379 lb  
Max. compression : 2268 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)
6.2	5.2	4.6	2.8	1.9	1.2	0.8

	Drive end	Non drive end
Bearing type	6314 C3	6314 C3
Sealing	WSeal	WSeal
Lubrication interval	17000 h	17000 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	29/03/2024			