

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase		Product code :	11165330
			Catalog # :	25018ET3H447T-W22
Frame	: 445/7T	Locked rotor time	: 27s (cold) 15s (hot)	
Output	: 250 HP (185 kW)	Temperature rise	: 80 K	
Poles	: 4	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 225 A	Protection degree	: IP55	
L. R. Amperes	: 1461 A	Cooling method	: IC411 - TEFC	
LRC	: 6.5x(Code G)	Mounting	: F-1	
No load current	: 72.0 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1780 rpm	Noise level ²	: 73.0 dB(A)	
Slip	: 1.11 %	Starting method	: Direct On Line	
Rated torque	: 738 ft.lb	Approx. weight ³	: 2556 lb	
Locked rotor torque	: 229 %			
Breakdown torque	: 240 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 89.6 sq.ft.lb			
Design	: B			
Output	50%	75%	100%	Foundation loads
Efficiency (%)	95.8	96.2	96.2	Max. traction : 3441 lb
Power Factor	0.75	0.83	0.86	Max. compression : 5997 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)
4.2	3.5	3.1	2.1	1.5	1.0	0.6

		Drive end	Non drive end
Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	8000 h	10000 h
Lubricant amount	:	45 g	34 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			
			Page	Revision
			1 / 1	