

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 13465763

Catalog # : 35018ST3QIE449T-W22

Frame : L447/9T
Output : 350 HP (260 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 460 V
Rated current : 394 A
L. R. Amperes : 2719 A
LRC : 6.9x(Code G)
No load current : 115 A
Rated speed : 1787 rpm
Slip : 0.72 %
Rated torque : 1030 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 131 sq.ft.lb
Design : B

Locked rotor time : 81s (cold) 45s (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 : 77.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 3198 lb

Output	25%		50%		75%		100%	
Efficiency (%)	95.7	96.1	95.8	96.2	96.2	96.3	96.2	96.3
	95.8	95.5	95.9	95.6	96.3	96.2	96.3	96.2
Power Factor	0.52	0.52	0.76	0.74	0.83	0.82	0.86	0.86
	0.48	0.45	0.70	0.66	0.80	0.78	0.85	0.84

Foundation loads
Max. traction : 6293 lb
Max. compression : 9491 lb

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

Losses (%)	P1 (0,9;1,0)	4.5	4.4	4.4	4.5
	P2 (0,5;1,0)	3.3	3.2	3.2	3.3
	P3 (0,25;1,0)	2.7	2.6	2.6	2.7
	P4 (0,9;0,5)	2.5	2.5	2.5	2.5
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.0	1.0	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	6000 h	8000 h
Lubricant amount	:	60 g	45 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		
Checked by				
Date	25/03/2024			
		Revision		