

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	:				
Product line	: W22 Super Premium Efficiency Three-Phase	Product code : 11792548 Catalog # : 15012EG3G449T-W22			
Frame	: 447/9T	Locked rotor time : 39s (cold) 22s (hot)			
Output	: 150 HP (110 kW)	Temperature rise : 80 K			
Poles	: 6	Duty cycle : Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature : -20°C to +40°C			
Rated voltage	: 460 V	Altitude : 1000 m.a.s.l.			
Rated current	: 179 A	Protection degree : IP55			
L. R. Amperes	: 1343 A	Cooling method : IC411 - TEFC			
LRC	: 7.5x(Code J)	Mounting : F-1			
No load current	: 86.0 A	Rotation ¹ : Both (CW and CCW)			
Rated speed	: 1190 rpm	Noise level ² : 70.0 dB(A)			
Slip	: 0.83 %	Starting method : Direct On Line			
Rated torque	: 662 ft.lb	Approx. weight ³ : 2835 lb			
Locked rotor torque	: 260 %				
Breakdown torque	: 320 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 145 sq.ft.lb				
Design	: A				
Output	25% 50% 75% 100%	Foundation loads			
Efficiency (%)	94.5 94.9 95.0 95.0 95.8 95.4 96.2 95.4 95.3 95.3 95.4 95.4 95.8 95.8 95.8 95.8	Max. traction : 5370 lb			
Power Factor	0.37 0.43 0.62 0.68 0.74 0.78 0.80 0.83 0.40 0.37 0.65 0.62 0.76 0.74 0.81 0.80	Max. compression : 8205 lb			
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	4.2	5.2	4.7	4.7
	P2 (0,5;1,0)	3.2	3.9	3.5	3.5
	P3 (0,25;1,0)	2.6	3.2	2.9	2.9
	P4 (0,9;0,5)	2.7	3.3	3.0	3.0
	P5 (0,5;0,5)	1.8	2.1	2.0	2.0
	P6 (0,5;0,25)	1.4	1.7	1.6	1.6
	P7 (0,25;0,25)	0.9	1.0	1.0	1.0
Bearing type	:	<u>Drive end</u>	<u>Non drive end</u>		
Sealing	:	6322 C3	6319 C3		
Lubrication interval	:	WSeal	WSeal		
Lubricant amount	:	11000 h	13000 h		
Lubricant type	:	60 g	45 g		
		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				Page	Revision
Date	29/03/2024			1 / 1	