

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22Xec Medium Voltage Three-Phase Product code : 13299252
Catalog # : 20036ET3XL449-W22MV

Frame	: L447/9TS	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 200 HP (150 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 2300 V	Altitude	: 1000 m.a.s.l.
Rated current	: 47.1 A	Protection degree	: IP55
L. R. Amperes	: 410 A	Cooling method	: IC411 - TEFC
LRC	: 8.7x(Code K)	Mounting	: F-1
No load current	: 19.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3580 rpm	Noise level ²	: 88.0 dB(A)
Slip	: 0.56 %	Starting method	: Direct On Line
Rated torque	: 293 ft.lb	Approx. weight ³	: 2783 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 37.7 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	0.000	92.4	92.1	93.6	93.4	94.1	94.0	Max. traction	: 953 lb	
	0.000									
Power Factor	0.00	0.00	0.72	0.70	0.82	0.80	0.85	0.84	Max. compression	: 3736 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	4000 h	4000 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 / 2		
Checked by				
Date	27/03/2024			
			Revision	

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	PT100 - 3 wires	2 x Phase	-
2	DE bearing	PT100 - 3 wires	1 x Bearing	-
3	NDE bearing	PT100 - 3 wires	1 x Bearing	-

Space heater information

Voltage: 110 - 127 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	27/03/2024				