

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10482383

Frame	: 286T	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: 40°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 53.4-48.2/24.1 A	Protection degree	: IP55
L. R. Amperes	: 411-372/186 A	Cooling method	: IC418 - TEAO
LRC	: 7.7x(Code J)	Mounting	: F-1
No load current	: 17.9-20.8/10.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level ²	: 59.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 89.0 ft.lb	Approx. weight ³	: 420 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 9.16 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.7	91.3	90.0	90.2	91.7	91.0	91.7	89.5	Max. traction	: 1011 lb
	90.7	89.9	90.2	89.5	91.0	91.0	90.2	90.2		
Power Factor	0.43	0.49	0.70	0.76	0.80	0.84	0.85	0.88	Max. compression	: 1432 lb
	0.46	0.43	0.73	0.70	0.82	0.80	0.86	0.85		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6311 C3	6211 C3
Sealing	:				V'Ring	V'Ring
Lubrication interval	:				20000 h	20000 h
Lubricant amount	:				18 g	11 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	