

Three Phase Induction Motor - Squirrel Cage



Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10563144

Frame	: 286T	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 65.2-59.0/29.5 A	Protection degree	: IP55
L. R. Amperes	: 457-413/207 A	Cooling method	: IC418 - TEAO
LRC	: 7.0x(Code H)	Mounting	: F-1
No load current	: 20.0-23.3/11.6 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1770 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 74.2 ft.lb	Approx. weight ³	: 400 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 5.11 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	92.2	92.8	92.4	92.4	93.6	91.7	Max. traction	: 777 lb
	92.2	92.2	92.4	92.4	92.4	92.4		
Power Factor	0.45	0.51	0.71	0.76	0.80	0.83	Max. compression	: 1177 lb
	0.47	0.45	0.73	0.71	0.81	0.80		

	<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:

- (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	Revision
Checked by					
Date	28/03/2024				