

Three Phase Induction Motor - Squirrel Cage



Product line : W21 NEMA Premium Efficiency Three-Phase Product code : 10363745

Frame	: 145T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 4.37-3.95/1.98 A	Protection degree	: IP55
L. R. Amperes	: 40.2-36.3/18.2 A	Cooling method	: IC418 - TEAO
LRC	: 9.2x(Code L)	Mounting	: F-1
No load current	: 1.40-1.63/0.813 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3495 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 2.92 %	Starting method	: Direct On Line
Rated torque	: 2.25 ft.lb	Approx. weight ³	: 43.1 lb
Locked rotor torque	: 300 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0486 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.1	83.4	81.5	81.5	84.0	82.5	84.0	80.0	Max. traction	: 66 lb
	83.2	82.3	81.5	81.5	84.0	84.0	81.5	82.5		
Power Factor	0.45	0.51	0.70	0.76	0.80	0.85	0.83	0.86	Max. compression	: 109 lb
	0.46	0.43	0.72	0.69	0.82	0.80	0.85	0.83		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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	Revision
Checked by				1 / 1	
Date	28/03/2024				