

# Three Phase Induction Motor - Squirrel Cage



Product line : W21 NEMA Premium Efficiency Three-Phase      Product code : 10671806

Frame	: 145T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 1 HP (0.75 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	: 3.15-2.85/1.43 A	Protection degree	: IP55
L. R. Amperes	: 27.7-25.1/12.5 A	Cooling method	: IC418 - TEAO
LRC	: 8.8x(Code L)	Mounting	: F-1
No load current	: 1.61-1.87/0.935 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level <sup>2</sup>	: 51.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 2.98 ft.lb	Approx. weight <sup>3</sup>	: 42.8 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1196 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%)	78.4	81.2	80.0	81.5	84.0	82.5	85.5	82.5	Max. traction : 85 lb
	80.7	78.4	81.0	80.0	82.5	82.5	82.5	84.0	
Power Factor	0.32	0.37	0.58	0.65	0.71	0.77	0.77	0.82	Max. compression : 128 lb
	0.34	0.32	0.61	0.58	0.74	0.72	0.80	0.78	

	<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	

- (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.

	Performed	Checked	Date
		Page 1 / 1	Revision