

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 High Efficiency Three-Phase Product code : 10672504

Frame	: 145T	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: 40°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.20/2.60 A	Protection degree	: IP55
L. R. Amperes	: 48.9/24.4 A	Cooling method	: IC418 - TEAO
LRC	: 9.4x(Code L)	Mounting	: F-1
No load current	: 2.24/1.12 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3480 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)
Slip	: 3.33 %	Starting method	: Direct On Line
Rated torque	: 3.02 ft.lb	Approx. weight <sup>3</sup>	: 44.6 lb
Locked rotor torque	: 280 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0489 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	78.4	79.2	80.0	78.5	82.5	81.5	84.0	80.0	Max. traction	: 76 lb
	78.0	80.4	78.5	80.0	81.5	82.5	81.5	81.5		
Power Factor	0.44	0.47	0.70	0.73	0.81	0.82	0.86	0.87	Max. compression	: 121 lb
	0.43	0.39	0.69	0.65	0.79	0.76	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:

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 / 1		
Checked by				
Date	28/03/2024			
			Revision	