

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 12823523

Frame	: 145TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.74/2.87 A	Protection degree	: IP55
L. R. Amperes	: 45.9/23.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code L)	Mounting	: W-6
No load current	: 3.50/1.75 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1745 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 3.06 %	Starting method	: Direct On Line
Rated torque	: 6.02 ft.lb	Approx. weight ³	: 72.4 lb
Locked rotor torque	: 240 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1329 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.1	77.7	81.5	77.0	84.0	80.0	84.0	78.5	Max. traction	: 128 lb
	78.1	79.6	78.5	80.0	80.0	81.5	80.0	81.5		
Power Factor	0.32	0.39	0.57	0.66	0.71	0.77	0.78	0.83	Max. compression	: 201 lb
	0.35	0.32	0.62	0.58	0.74	0.71	0.81	0.79		

					<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:				6205 2RS	6204 2RS
Sealing	:				Oil Seal	Lip Seal
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				
Checked by				
Date	27/03/2024			

Page 1 / 2
Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date	27/03/2024				