

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase      Product code : 12723850

Frame	: 145TC	Locked rotor time	: 50s (cold) 28s (hot)
Output	: 1 HP (0.75 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 3.26/1.63 A	Protection degree	: IP55
L. R. Amperes	: 20.2/10.1 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code K)	Mounting	: F-1
No load current	: 2.00/1.00 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1150 rpm	Noise level <sup>2</sup>	: 50.0 dB(A)
Slip	: 4.17 %	Starting method	: Direct On Line
Rated torque	: 4.57 ft.lb	Approx. weight <sup>3</sup>	: 76.8 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1595 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	76.0	76.1	77.0	77.0	82.0	78.0
	74.6	73.0	75.5	74.0	78.0	78.0
Power Factor	0.29	0.35	0.51	0.58	0.63	0.70
	0.32	0.29	0.54	0.50	0.67	0.64

		<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.

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Customer :

Thermal protection

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

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