

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 12823465

Frame	: 254TC	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 15 HP (11 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	: 36.2/18.1 A	Protection degree	: IP55
L. R. Amperes	: 232/116 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: W-6
No load current	: 14.6/7.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 44.8 ft.lb	Approx. weight ³	: 330 lb
Locked rotor torque	: 250 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.38 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	90.0	86.9	90.2	86.5	91.0	88.5
	91.0	87.5	88.0	88.8	87.5	88.5
Power Factor	0.44	0.50	0.69	0.73	0.79	0.82
	0.84	0.85	0.46	0.43	0.70	0.67
	0.80	0.78	0.84	0.83		

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 2RS C3	6209 2RS C3
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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