

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 11766590

Frame	: 586/7T	Locked rotor time	: 63s (cold) 35s (hot)
Output	: 500 HP (370 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 564 A	Protection degree	: IP54
L. R. Amperes	: 3610 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 140 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1790 rpm	Noise level ²	: 83.0 dB(A)
Slip	: 0.56 %	Starting method	: Direct On Line
Rated torque	: 1470 ft.lb	Approx. weight ³	: 4755 lb
Locked rotor torque	: 180 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 256 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.6	95.0	95.4	95.8	Max. traction	: 4049 lb
Power Factor	0.59	0.82	0.85	0.86	Max. compression	: 8804 lb

		Drive end	Non drive end
Bearing type	:	6322 C3	6319 C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	5138 h	7038 h
Lubricant amount	:	60 g	45 g
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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