

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W60 Three-Phase

Product code : 16166696

Frame	: 5010/11	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 450 HP (330 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 4160 V	Altitude	: 1000 m.a.s.l.
Rated current	: 55.8 A	Protection degree	: IP24
L. R. Amperes	: 363 A	Mounting	: F-1
LRC	: 6.5x(Code G)	Rotation ¹	: CW
No load current	: 19.4 A	Noise level ²	: 78.0 dB(A)
Rated speed	: 1783 rpm	Starting method	: Direct On Line
Slip	: 0.94 %	Approx. weight ³	: 4335 lb
Rated torque	: 1330 ft.lb		
Locked rotor torque	: 100 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 136 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	94.2	94.4	95.4	95.4	Max. traction
Power Factor	0.51	0.77	0.84	0.86	Max. compression

	Drive end	Non drive end
Bearing type	: 6220 C3	6218 C3
Sealing	: Without Bearing Seal	Without Bearing Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 31 g	24 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	PT100 - 3 wires	2 x Phase	-
2	DE bearing	PT100 - 3 wires	1 x Bearing	-
3	NDE bearing	PT100 - 3 wires	1 x Bearing	-

Space heater information

Voltage: 110-127/200-240 V

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