

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W60 Standard Efficiency Three-Phase Product code : 16166554

Frame	: 5010/11	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 500 HP (370 kW)	Temperature rise	: 80 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	: 568 A	Protection degree	: IP24
L. R. Amperes	: 3693 A	Mounting	: F-1
LRC	: 6.5x(Code G)	Rotation ¹	: CW
No load current	: 210 A	Noise level ²	: 82.0 dB(A)
Rated speed	: 1782 rpm	Starting method	: Direct On Line
Slip	: 1.00 %	Approx. weight ³	: 4719 lb
Rated torque	: 1470 ft.lb		
Locked rotor torque	: 100 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 142 sq.ft.lb		
Design	: A		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	95.0	95.2	96.2	96.2	Max. traction
Power Factor	0.50	0.79	0.83	0.85	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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	27/03/2024			

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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

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