

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof Standard Three-Phase Product code : 13000389

Frame	: 280S/M	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 110 kW (150 HP-cv)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 220/380/440 V	Altitude	: 1000 m.a.s.l.
Rated current	: 374/217/187 A	Protection degree	: IP55
L. R. Amperes	: 3179/1840/1590 A	Cooling method	: IC411 - TFVE
LRC	: 8.5	Mounting	: B3D
No load current	: 150/86.8/75.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1788 rpm	Noise level ²	: 80.0 dB(A)
Slip	: 0.67 %	Starting method	: Direct On Line
Rated torque	: 59.9 kgfm	Approx. weight ³	: 809 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 290 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 2.57 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.0	94.0	94.1	Max. traction	: 1116 kgf
Power Factor	0.69	0.78	0.82	Max. compression	: 1925 kgf

		Drive end	Non drive end
Bearing type	:	6316 C3	6316 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	8569 h	8569 h
Lubricant amount	:	34 g	34 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 ABNT NBR 17094.

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	130 °C

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