

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 IE3 Three-Phase			Product code : 12862408			
Frame	: 225S/M			Locked rotor time	: 14s (cold) 8s (hot)	
Output	: 45 kW (60 HP)			Temperature rise	: 80 K	
Poles	: 2			Duty cycle	: S1	
Frequency	: 50 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 400/690 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 80.3/46.6 A			Protection degree	: IP55	
L. R. Amperes	: 666/386 A			Cooling method	: IC411 - TEFC	
LRC	: 8.3			Mounting	: B3T	
No load current	: 29.0/16.8 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 2970 rpm			Noise level ²	: 74.0 dB(A)	
Slip	: 1.00 %			Starting method	: Direct On Line	
Rated torque	: 14.8 kgfm			Approx. weight ³	: 393 kg	
Locked rotor torque	: 290 %					
Breakdown torque	: 370 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 0.2861 kgm ²					
Design	: N					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	92.0	93.0	94.0	Max. traction	: 382 kgf
Power Factor	0.00	0.72	0.82	0.86	Max. compression	: 775 kgf
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
6.0	4.6	4.2	3.3	2.0	1.4	0.9
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	5000 h		5000 h		
Lubricant amount	:	27 g		27 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 IEC 60034-1.		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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