

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11961537
Frame	:	444/5TSD		Locked rotor time	:	28s (cold) 16s (hot)
Output	:	200 HP (150 kW)		Temperature rise	:	80 K
Poles	:	4		Duty cycle	:	Cont.(S1)
Frequency	:	60 Hz		Ambient temperature	:	-20°C to +40°C
Rated voltage	:	575 V		Altitude	:	1000 m.a.s.l.
Rated current	:	184 A		Protection degree	:	IP55
L. R. Amperes	:	1251 A		Cooling method	:	IC411 - TEFC
LRC	:	6.8x(Code G)		Mounting	:	W-6
No load current	:	56.0 A		Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1785 rpm		Noise level ²	:	73.0 dB(A)
Slip	:	0.83 %		Starting method	:	Direct On Line
Rated torque	:	81.3 kgfm		Approx. weight ³	:	964 kg
Locked rotor torque	:	229 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	3.21 kgm ²				
Design	:	B				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.8	96.2	96.2	Max. traction	:	1296 kgf
Power Factor	0.73	0.82	0.85	Max. compression	:	2260 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)
4.0	3.2	2.9	2.0	1.3	0.9	0.5
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	6000 h		6000 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 NEMA MG-1.		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	130 °C
2	Winding	Thermistor - 2 wires	1 x Phase	155 °C

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