

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: W22 High Efficiency Three-Phase		Product code :	11356433
Frame	: 447/9T		Locked rotor time	: 25s (cold) 14s (hot)
Output	: 300 HP (220 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	: 337 A		Protection degree	: IP55
L. R. Amperes	: 2191 A		Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)		Mounting	: F-1
No load current	: 105 A		Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm		Noise level ²	: 75.0 dB(A)
Slip	: 1.11 %		Starting method	: Direct On Line
Rated torque	: 885 ft.lb		Approx. weight ³	: 2427 lb
Locked rotor torque	: 229 %			
Breakdown torque	: 229 %			
Insulation class	: F			
Service factor	: 1.15			
Moment of inertia (J)	: 105 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	95.6	95.3	95.4	95.0
	95.3	95.3	95.0	95.0
Power Factor	0.52	0.52	0.76	0.77
	0.50	0.48	0.75	0.74
			0.83	0.82
			0.86	0.85
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	4.9	5.4	5.4
	P2 (0,5;1,0)	4.1	4.5	4.5
	P3 (0,25;1,0)	3.8	4.1	4.1
	P4 (0,9;0,5)	2.4	2.6	2.6
	P5 (0,5;0,5)	1.7	1.8	1.8
	P6 (0,5;0,25)	1.1	1.2	1.2
	P7 (0,25;0,25)	0.7	0.7	0.7
Drive end				
Bearing type	:	6322 C3	6319 C3	
Sealing	:	WSeal	WSeal	
Lubrication interval	:	6000 h	8000 h	
Lubricant amount	:	60 g	45 g	
Lubricant type	:	Mobil Polyrex EM		
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
(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.				
Rev.	Changes Summary			Performed
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