

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: W22 High Efficiency Three-Phase			Product code :	11356200																							
Frame	: 447/9TS			Locked rotor time	: 25s (cold) 14s (hot)																							
Output	: 300 HP (220 kW)			Temperature rise	: 80 K																							
Poles	: 2			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	: 322 A			Protection degree	: IP55																							
L. R. Amperes	: 2093 A			Cooling method	: IC411 - TEFC																							
LRC	: 6.5x(Code F)			Mounting	: F-1																							
No load current	: 65.0 A			Rotation ¹	: Both (CW and CCW)																							
Rated speed	: 3575 rpm			Starting method	: Direct On Line																							
Slip	: 0.69 %			Approx. weight ³	: 2784 lb																							
Rated torque	: 441 ft.lb																											
Locked rotor torque	: 250 %																											
Breakdown torque	: 240 %																											
Insulation class	: F																											
Service factor	: 1.15																											
Moment of inertia (J)	: 58.1 sq.ft.lb																											
Design	: B																											
Output	25%	50%	75%	100%	Foundation loads																							
Efficiency (%)	95.3	95.4	95.4	95.4																								
Power Factor	0.65	0.86	0.89	0.90																								
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)																						
5.1	4.0	3.5	2.7	1.8	1.2	0.7																						
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<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>				<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>																								
Rev.	Changes Summary			Performed	Checked	Date																						
Performed by																												
Checked by					Page	Revision																						
Date	28/03/2024				1 / 1																							