

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase			Product code :	12198676																							
				Catalog # :	05009ST3HIE404T-W22																							
Frame	: 404/5T	Locked rotor time	: 52s (cold) 29s (hot)																									
Output	: 50 HP (37 kW)	Temperature rise	: 80 K																									
Poles	: 8	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	: 48.2 A	Protection degree	: IP56																									
L. R. Amperes	: 347 A	Cooling method	: IC411 - TEFC																									
LRC	: 7.2x(Code H)	Mounting	: F-1																									
No load current	: 19.6 A	Rotation ¹	: Both (CW and CCW)																									
Rated speed	: 880 rpm	Noise level ²	: 60.0 dB(A)																									
Slip	: 2.22 %	Starting method	: Direct On Line																									
Rated torque	: 298 ft.lb	Approx. weight ³	: 1114 lb																									
Locked rotor torque	: 170 %																											
Breakdown torque	: 260 %																											
Insulation class	: F																											
Service factor	: 1.25																											
Moment of inertia (J)	: 34.6 sq.ft.lb																											
Design	: B																											
Output	25%	50%	75%	100%	Foundation loads																							
Efficiency (%)	92.8	93.0	93.0	93.0	Max. traction	: 1772 lb																						
Power Factor	0.43	0.68	0.78	0.83	Max. compression	: 2885 lb																						
Losses at normative operating points (speed;torque), in percentage of rated output power																												
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7.3	6.3	6.3	3.0	2.2	1.3	0.9																						
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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>																								
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