

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :																																																
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	11164700																																											
				Catalog # :	15018ET3H445T-W22																																											
Frame	: 444/5T	Locked rotor time	: 48s (cold) 27s (hot)																																													
Output	: 150 HP (110 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	: 136 A	Protection degree	: IP55																																													
L. R. Amperes	: 898 A	Cooling method	: IC411 - TEFC																																													
LRC	: 6.6x(Code G)	Mounting	: F-1																																													
No load current	: 46.4 A	Rotation ¹	: Both (CW and CCW)																																													
Rated speed	: 1784 rpm	Noise level ²	: 73.0 dB(A)																																													
Slip	: 0.89 %	Starting method	: Direct On Line																																													
Rated torque	: 442 ft.lb	Approx. weight ³	: 1733 lb																																													
Locked rotor torque	: 200 %																																															
Breakdown torque	: 250 %																																															
Insulation class	: F																																															
Service factor	: 1.15																																															
Moment of inertia (J)	: 66.7 sq.ft.lb																																															
Design	: B																																															
Output	50%	75%	100%	Foundation loads																																												
Efficiency (%)	95.4	95.8	95.8	Max. traction	: 2076 lb																																											
Power Factor	0.74	0.82	0.85	Max. compression	: 3809 lb																																											
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)																																										
4.5	3.5	3.1	2.4	1.5	1.1	0.6																																										
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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.																																												
Rev.	Changes Summary			Performed	Checked	Date																																										
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Date	28/03/2024				1 / 1																																											