

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :																												
Product line	: W22 NEMA Premium Efficiency Three-Phase			Product code :	12810716																							
				Catalog # :	12512ET3H445T-W22																							
Frame	: 444/5T	Locked rotor time	: 34s (cold) 19s (hot)																									
Output	: 125 HP	Temperature rise	: 80 K																									
Poles	: 6	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	: 116 A	Protection degree	: IP55																									
L. R. Amperes	: 742 A	Cooling method	: IC411 - TEFC																									
LRC	: 6.4x(Code G)	Mounting	: F-1																									
No load current	: 46.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)																									
Rated speed	: 1188 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)																									
Slip	: 1.00 %	Starting method	: Direct On Line																									
Rated torque	: 553 ft.lb	Approx. weight <sup>3</sup>	: 1796 lb																									
Locked rotor torque	: 210 %																											
Breakdown torque	: 240 %																											
Insulation class	: F																											
Service factor	: 1.15																											
Moment of inertia (J)	: 104 sq.ft.lb																											
Design	: B																											
Output	50%	75%	100%	Foundation loads																								
Efficiency (%)	95.0	95.4	95.0	Max. traction	: 2637 lb																							
Power Factor	0.70	0.79	0.82	Max. compression	: 4433 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)																						
5.2	4.1	3.8	2.7	1.8	1.2	0.8																						
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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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