

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :		11449318
				Catalog # :		07518ST3HIE365T-W22
Frame : 364/5T Output : 75 HP (55 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 575 V Rated current : 69.8 A L. R. Amperes : 446 A LRC : 6.4x(Code G) No load current : 26.4 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 221 ft.lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.3 sq.ft.lb Design : B			Locked rotor time : 25s (cold) 14s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP56 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 67.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 926 lb			
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	94.0	94.5	95.0	95.4	Max. traction	: 1506 lb
Power Factor	0.44	0.68	0.78	0.83	Max. compression	: 2432 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)
4.7	3.7	3.4	2.4	1.6	1.1	0.7
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6314 C3		6314 C3		
Sealing	:	Inpro/Seal		Inpro/Seal		
Lubrication interval	:	12000 h		12000 h		
Lubricant amount	:	27 g		27 g		
Lubricant type	:	Mobil Polyrex EM				
Notes:						
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
Performed by						
Checked by					Page	Revision
Date	26/03/2024				1 / 1	