

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 NEMA Premium Efficiency Three-Phase							
Product code :	11442149							
Frame : 213T Output : 7.5 HP (5.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 17.5/8.76 A L. R. Amperes : 126/63.1 A LRC : 7.2x(Code H) No load current : 6.00/3.00 A Rated speed : 3530 rpm Slip : 1.94 % Rated torque : 11.2 ft.lb Locked rotor torque : 210 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4665 sq.ft.lb Design : B	Locked rotor time : 36s (cold) 20s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 68.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 140 lb							
Output            25%    50%    75%    100% Efficiency (%)    87.2 86.4 87.5 86.7 89.5 88.2 89.5 88.2 86.1 85.8 86.4 86.1 88.3 88.5 88.3 88.5 89.2 87.3 88.5 87.5 88.5 87.5 87.5 87.5 87.2    87.5    88.5    88.5 Power Factor    0.50 0.48 0.75 0.74 0.84 0.83 0.88 0.88 0.44 0.42 0.70 0.67 0.81 0.78 0.86 0.84 0.56 0.53 0.80 0.77 0.87 0.86 0.90 0.89 0.50    0.74    0.84    0.88	Foundation loads Max. traction : 142 lb Max. compression : 282 lb							
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	P2 (0,5;1,0)	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	P3 (0,25;1,0)	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	P4 (0,9;0,5)	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Bearing type	:	Drive end		Non drive end				
Sealing	:	6308 ZZ		6207 ZZ				
Lubrication interval	:	V'Ring		V'Ring				
Lubricant amount	:	-		-				
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	29/03/2024		1 / 1					