

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :													
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11441798 Catalog # : 02036ET3E256T-W22												
Frame : 254/6T Output : 20 HP (15 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 46.5/23.3 A L. R. Amperes : 284/142 A LRC : 6.1x(Code G) No load current : 13.0/6.50 A Rated speed : 3525 rpm Slip : 2.08 % Rated torque : 29.8 ft.lb Locked rotor torque : 200 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.54 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 : IP55 Cooling method : IC411 - TEFC Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 72.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 264 lb												
<table border="1"> <tr> <td>Output</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>90.7</td> <td>91.0</td> <td>91.0</td> </tr> <tr> <td>Power Factor</td> <td>0.80</td> <td>0.87</td> <td>0.89</td> </tr> </table>	Output	50%	75%	100%	Efficiency (%)	90.7	91.0	91.0	Power Factor	0.80	0.87	0.89	Foundation loads Max. traction : 265 lb Max. compression : 529 lb
Output	50%	75%	100%										
Efficiency (%)	90.7	91.0	91.0										
Power Factor	0.80	0.87	0.89										
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)							
9.2	7.1	6.8	4.8	2.8	1.8	1.0							
Bearing type : 6309 C3			Non drive end										
Sealing : V'Ring			6209 C3										
Lubrication interval : 19000 h			V'Ring										
Lubricant amount : 13 g			20000 h										
Lubricant type : Mobil Polyrex EM			9 g										
Notes USABLE @208V 51.3A SF 1.15 SFA 59.0A													
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	23/06/2023				1 / 1								