

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :																
Product line : W22 NEMA Premium Efficiency Three-Phase	Product code : 11355340 Catalog # : 10018ET3E405T-W22															
Frame : 404/5T Output : 100 HP (75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 226/113 A L. R. Amperes : 1650/825 A LRC : 7.3x(Code H) No load current : 76.0/38.0 A Rated speed : 1780 rpm Slip : 1.11 % Rated torque : 295 ft.lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 29.9 sq.ft.lb Design : B	Locked rotor time : 23s (cold) 13s (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> : 1171 lb															
<table border="1"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>94.6</td> <td>95.0</td> <td>95.0</td> <td>95.4</td> </tr> <tr> <td>Power Factor</td> <td>0.51</td> <td>0.77</td> <td>0.84</td> <td>0.87</td> </tr> </table>	Output	25%	50%	75%	100%	Efficiency (%)	94.6	95.0	95.0	95.4	Power Factor	0.51	0.77	0.84	0.87	Foundation loads Max. traction : 2086 lb Max. compression : 3257 lb
Output	25%	50%	75%	100%												
Efficiency (%)	94.6	95.0	95.0	95.4												
Power Factor	0.51	0.77	0.84	0.87												
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	3.8	3.7	2.2	1.5	0.9	0.6										
Drive end Bearing type : 6316 C3 Sealing : WSeal Lubrication interval : 10000 h Lubricant amount : 34 g Lubricant type : Mobil Polyrex EM			Non drive end Bearing type : 6314 C3 Sealing : WSeal Lubrication interval : 12000 h Lubricant amount : 27 g													
Notes USABLE @208V 245A SF 1.10 SFA 270A																
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	03/11/2023				1 / 1											





For use on 60Hz  
 Class I, Div 2, Gr A, B, C and D - T3  
 Class I, Zone 2, IIC - T3  
 Class II, Div 2, Gr F and G - T4  
 For use on PWM: Gr. A, B, C, D and F,  
 VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 10018ET3E405T-W22

Inverter Duty Motor  
 Severe Duty

PH3 60Hz Fr. 404/5T 1000m.a.s.l. IP55 TEFC 1170lb

V 230/460 A 226/113

HP 100 kW 75

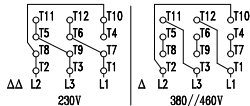
SF 1.25 SFA 283/141

RPM 1780 PF 0.87

AMB 40°C INS cl. F DT80K NEMA NOM EFF 95.4%

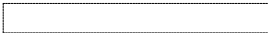
DUTY CONT. DES B Code H

100HP 75kW 50Hz 380V 138A 1470RPM SF 1.00 EFF 93.6% (IE1)



→ 6316-C3 (34g)  
 → 6314-C3 (27g)

MOBIL POLYREX EM (10000h)



MADE IN MEXICO  
 11355340