

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase
 Product code : 13472721
 Catalog # : 03036ET3ER286TSC-W22

Frame : 286TSC Output : 30 HP (22 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 68.4/34.2 A L. R. Amperes : 431/216 A LRC : 6.3x(Code G) No load current : 18.2/9.10 A Rated speed : 3545 rpm Slip : 1.53 % Rated torque : 44.4 ft.lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.37 sq.ft.lb Design : B	Locked rotor time : 27s (cold) 15s (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 : W-6 Rotation ¹ : Both (CW and CCW) Noise level ² : 72.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 389 lb
---	--

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	91.6	91.7	91.7	91.7	Max. traction : 367 lb
Power Factor	0.57	0.80	0.86	0.88	Max. compression : 756 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)
8.5	6.5	5.6	4.3	2.5	1.6	0.9

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6311 C3	6211 C3
Sealing :	V'Ring	V'Ring
Lubrication interval :	7000 h	8000 h
Lubricant amount :	18 g	11 g
Lubricant type :	Mobil Polyrex EM	

Notes:
 USABLE @208V 76.7A SF 1.10 SFA 84.4A

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	05/01/2024		1 / 1	



FOR SAFE AREA
Mod. TE1BFOXON
CC029A



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 03036ET3ER286TSC-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 286TSC 1000m.a.s.l. IP55 TEFC 389lb

V 230/460 A 68.4/34.2

HP 30 kW 22

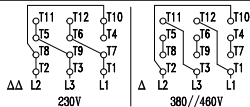
SF 1.25 SFA 85.5/42.8


RPM 3545 PF 0.88

AMB 40°C INS cl. F DT80K NEMA NOM EFF 91.7%

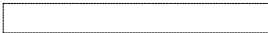
DUTY CONT. DES B Code G

30HP 22kW 50Hz 380V 42.0A 2910RPM SF 1.00 EFF 89.5%



 → 6311-C3 (18g)
→ 6211-C3 (11g)

 MOBIL POLYREX EM (7000h)



MADE IN BRAZIL
13472721