

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12789604
Catalog # : 00718ET3ER213TC-W22

Frame	: 213TC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 18.4/9.18 A	Protection degree	: IP55
L. R. Amperes	: 130/65.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.1x(Code H)	Mounting	: W-6
No load current	: 8.40/4.20 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight ³	: 162 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.34 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	89.5	91.0	91.7	Max. traction	: 359 lb
Power Factor	0.66	0.76	0.82	Max. compression	: 521 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)
8.8	7.0	6.5	4.9	3.3	2.4	1.6

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6308 ZZ	: 6207 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 19.9A SF 1.15 SFA 22.9A

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				
Date	12/03/2025		Page 1 / 1	Revision



Class I, Div 2, Gr A, B, C, D, 1.15SF - T3
 Class II, Div 2, IIC, 1.15SF - T3
 Class II, Div 2, Gr F, G - T4
 60Hz: For use on PWM: Gr. A, B, C, D, F,
 VT 1000:1, CT 20:1, 1.00SF - T3A



FOR SAFE AREA
 Mod. TE1BFOXON
 CC029A

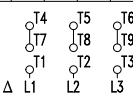
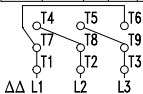
MADE IN MEXICO
 12789604

MODEL 00718ET3ER213TC-W22

Inverter Duty Motor
 Severe Duty
 IEC 60034-1

PH3 Fr. 213TC DUTY CONT. TEFC IP55 DES B(N) Code H
 162lb 1000m.a.s.l. INS cl. F DT 80K AMB 40°C SF 1.25//1.25

V		Hz	kW	HP	RPM	A		SFA		PF	IE code	NEMA NOM EFF η 100%/75%/50%
230ΔΔ	460Δ	60	5.5	7.5	1765	18.4	9.18	23.0	11.5	0.82	IE3	91.7/91.0/89.5
380Δ	-	50	5.5	7.5	1455	11.0	-	13.8	-	0.85	IE3	89.6/89.5/89.5
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-



MOBIL POLYREX EM

