

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13472771
Catalog # : 25018ET3G447TS-W22

Frame	: 445/7TS	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 250 HP (185 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 281 A	Protection degree	: IP55
L. R. Amperes	: 1827 A	Cooling method	: IC411 - TEFC
LRC	: 6.5x(Code G)	Mounting	: F-1
No load current	: 90.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1780 rpm	Noise level ²	: 73.0 dB(A)
Slip	: 1.11 %	Starting method	: Direct On Line
Rated torque	: 738 ft.lb	Approx. weight ³	: 2523 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 89.6 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7	95.8	96.2	96.2	Max. traction	: 4177 lb
Power Factor	0.50	0.75	0.83	0.86	Max. compression	: 6700 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)
4.2	3.5	3.1	2.1	1.5	1.0	0.6

	Drive end	Non drive end
Bearing type	: 6314 C3	: 6314 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 12000 h	: 12000 h
Lubricant amount	: 27 g	: 27 g
Lubricant type	: Mobil Polyrex EM	

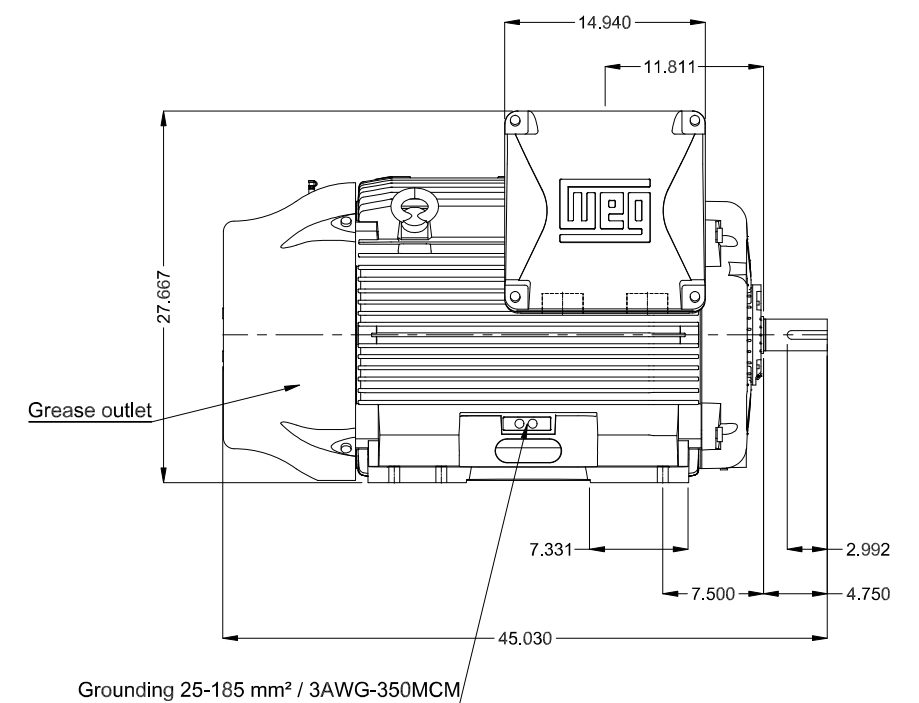
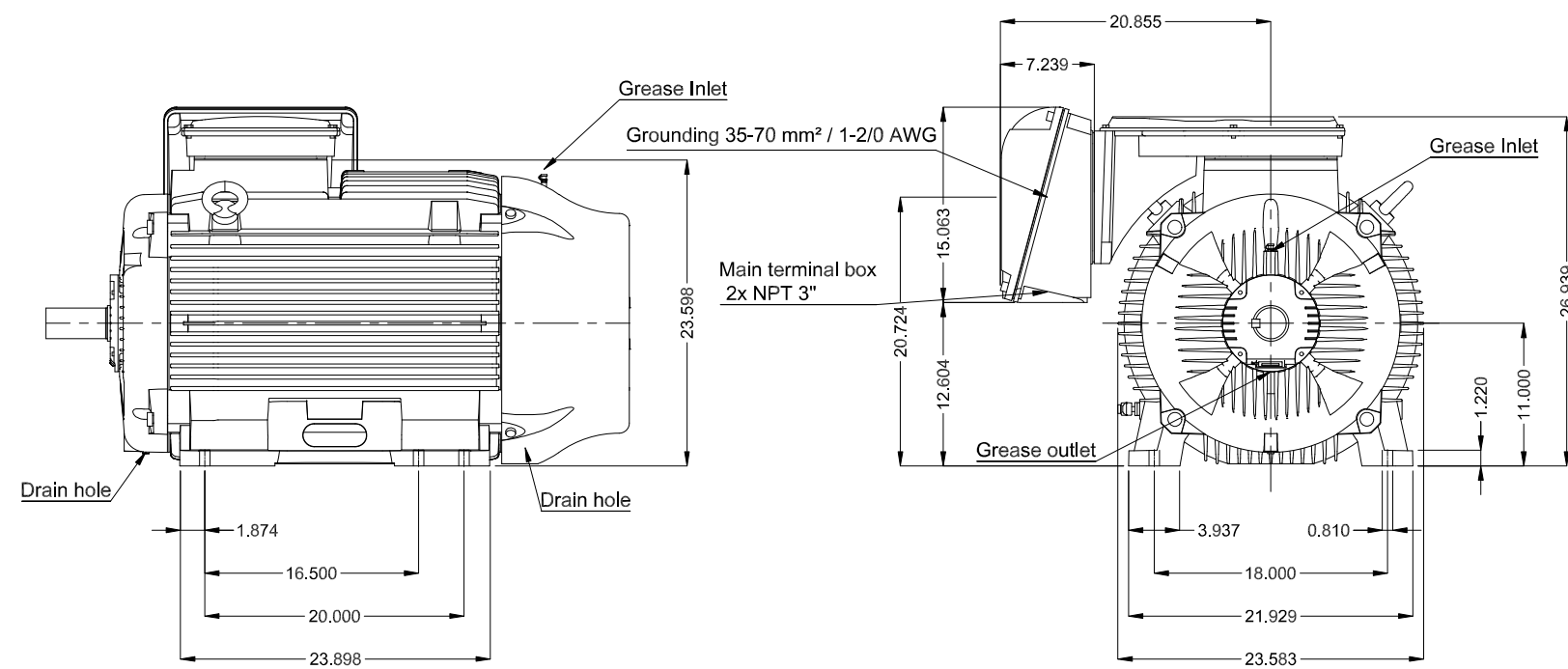
Notes

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		Page 1 / 1 Revision		
Checked by				
Date	11/03/2025			



250 HP 04 Poles 60 Hz										A
						Scale 1 : 14				
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 445/7TS IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		

MADE IN MEXICO

13472771


NEMA
Premium
W22

MODEL 25018ET3G447TS-W22

 Inverter Duty Motor
 Severe Duty

PH3 60Hz Fr. 445/7TS 1000m.a.s.l. IP55 TEFC 2411lb

V 460

A 281

HP 250

kW 185

SF 1.15

SFA 323

RPM 1780

PF 0.86

AMB 40°C

INS cl. F DT80K

NEMA NOM EFF 96.2%

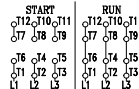
DUTY CONT.

DES B Code G

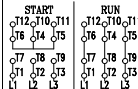

 FOR SAFE AREA
 Mod. TE1BFOXON
 CC029A

 Class I, Div 2, Gr A, B, C, D - T3
 Class I, Zone 2, IIC - T3
 Class II, Div 2, Gr F, G - T3C
 For use on PWM: Gr. A, B, C, D, F,
 VT 1000:1, CT 20:1, 1.00SF - T3

PART-WINDING



WYE-DELTA



→ 6314-C3 (27g)

→ 6314-C3 (27g)



MOBIL POLYREX EM (12000h)

