

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11567172
Catalog # : 11018ET3Y280S/M-W22

Frame	: 280S/M	Locked rotor time	: 48s (cold) 27s (hot)
Output	: 150 HP (110 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: S1
Frequency	: 50 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 380 V	Altitude	: 1000 m.a.s.l.
Rated current	: 206 A	Protection degree	: IP55
L. R. Amperes	: 1566 A	Cooling method	: IC411 - TEFC
LRC	: 7.6	Mounting	: B3L(E)
No load current	: 61.5 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1483 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 1.13 %	Starting method	: Direct On Line
Rated torque	: 531 ft.lb	Approx. weight ³	: 1809 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 210 %		
Insulation class	: F		
Service factor	: 1.00		
Moment of inertia (J)	: 77.1 sq.ft.lb		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.2	95.3	95.4	Max. traction	: 2269 lb
Power Factor	0.77	0.83	0.85	Max. compression	: 4078 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)
4.8	3.5	2.9	2.8	1.7	1.2	0.7

	Drive end	Non drive end
Bearing type	: 6316 C3	6316 C3
Sealing	: WSeal	WSeal
Lubrication interval	: 10000 h	10000 h
Lubricant amount	: 34 g	34 g
Lubricant type	Mobil Polyrex EM	

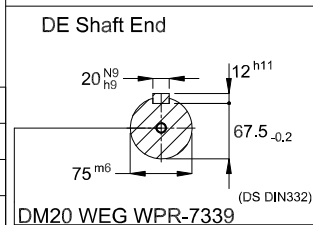
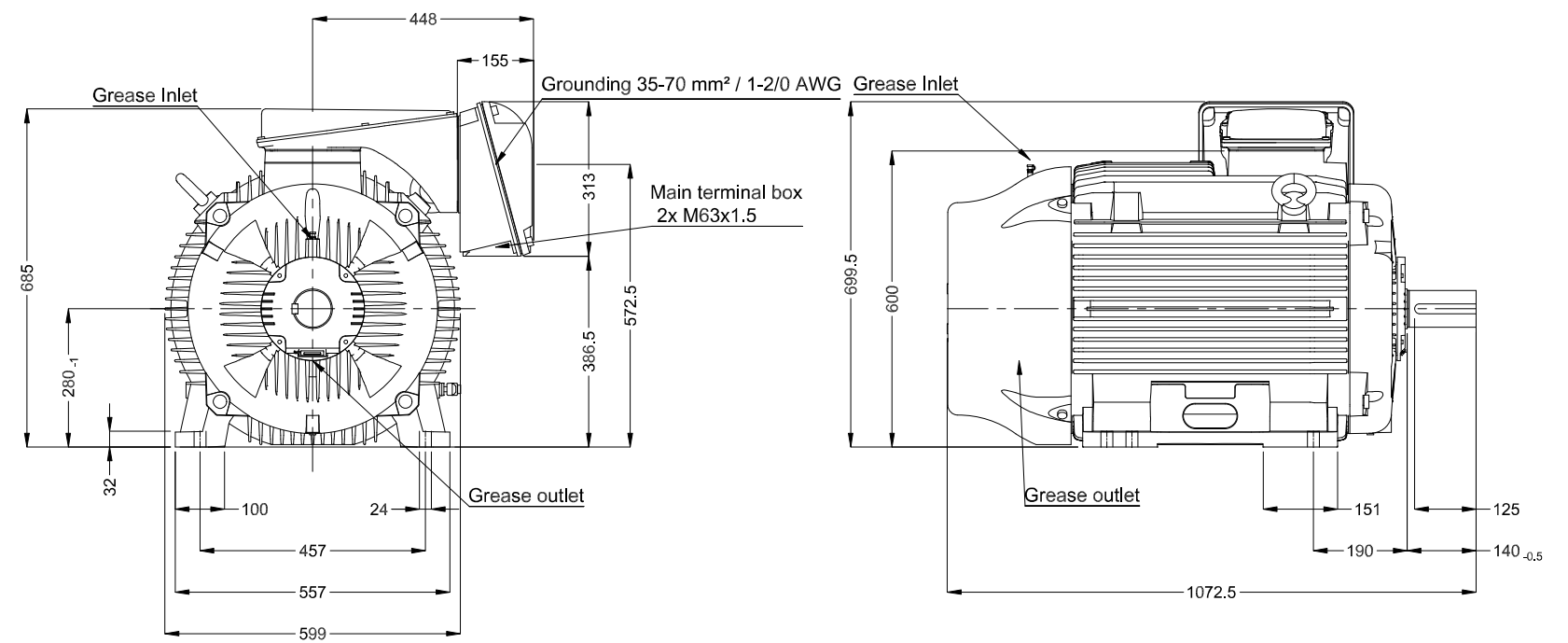
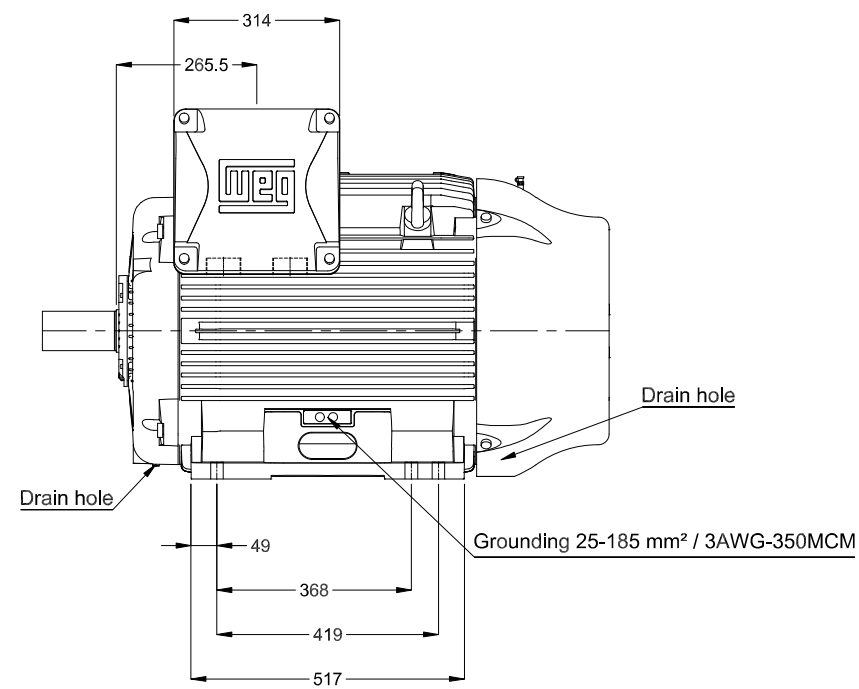
Notes

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



150 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 IE3 FRAME 280S/M IP55 TEFC			PREVIEW				
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		



Premium

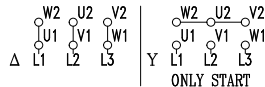
W22 Tru-metric

MODEL 11018ET3Y280S/M-W22

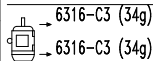
Inverter Duty Motor
Severe DutyFOR SAFE AREA
Mod. TE1BFOX0\$
CC029A

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 - T3C
 60Hz: For use on PWM: Gr. A, B, C, D and F,
 VT 1000:1, CT 20:1, 1.00SF - T3A

PH3 Fr. 280S/M DUTY CONT. IP55 DES N Code J IEC 60034-1
 1808lb 1000m.a.s.l. INS cl. F DT 80K AMB 40°C SF 1.25//1.00



V		Hz	kW	HP	RPM	A		SFA		PF	IE code	NEMA NOM EFF η 100%/75%/50%
460Δ	—	60	110	150	1787	172	—	215	—	0.84	IE3	95.8/95.4/94.5
380Δ	—	50	110	150	1483	206	—	206	—	0.85	IE3	95.4/95.3/95.2
415Δ	—	50	110	150	1486	190	—	190	—	0.84	IE3	96.1/95.8/95.3
—	—	—	—	—	—	—	—	—	—	—	—	—



MOBIL POLYREX EM (10000h)