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%
Efficiency (%)	95.2	95.3	95.4
Power Factor	0.77	0.83	0.85

Foundation loads

Max. traction	: 2269 lb
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

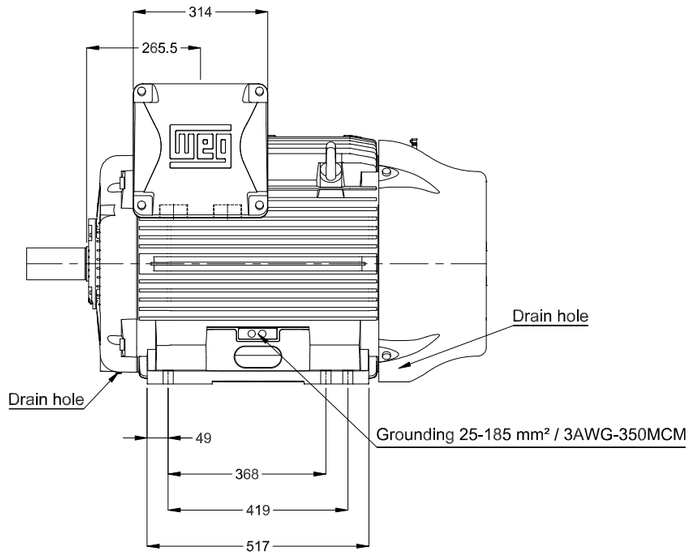
This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.
(2) Measured at 1m and with tolerance of +3dB(A).
(3) Approximate weight subject to changes after manufacturing process.
(4) At 100% of full load.

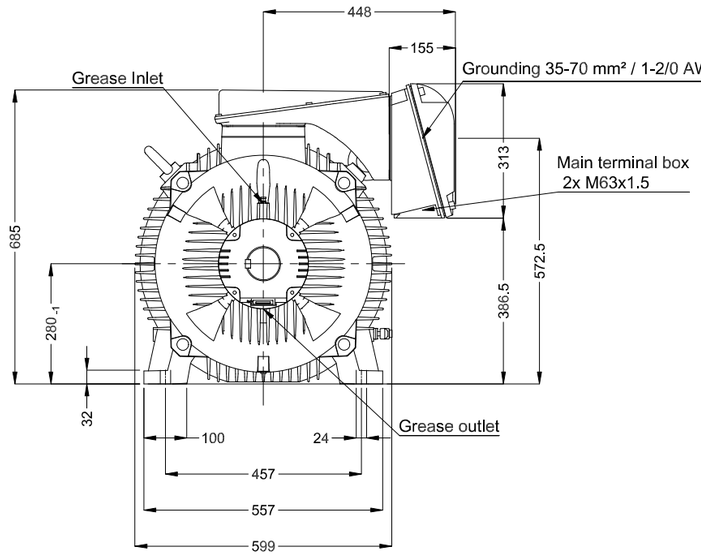
These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

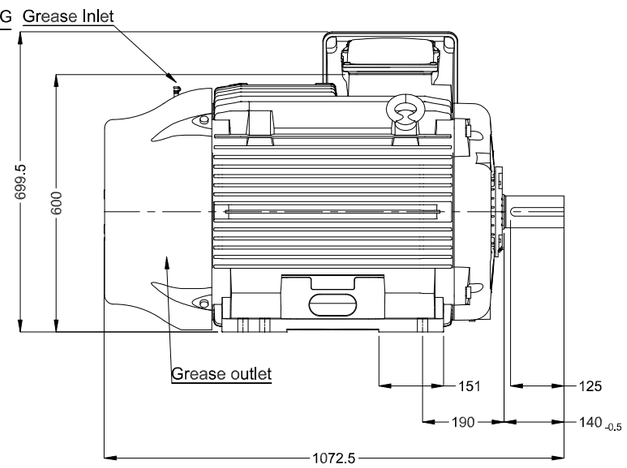
Rev.	Changes Summary	Performed	Checked	Date

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

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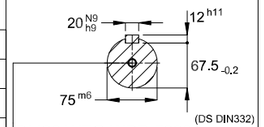






Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3L(E)

DE Shaft End



DM20 WEG WPR-7339

150 HP 04 Poles 60 Hz | A

Scale 1 : 14

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3
FRAME 280S/M IP55 TEFC

PREVIEW
WDD 00
SHEET 1 / 1

Dimensions in mm

A3

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WEG Premium

W22 Tru-metric

MODEL 11018ET3Y280S/M-W22

Inverter Duty Motor
Severe Duty

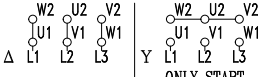
FOR SAFE AREA
Mod.TE1BF0X0$
CC029A

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

MADE IN BRAZIL
11567172

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
–	–	–	–	–	–	–	–	–	–	–	–	–



6316-C3 (34g)

6316-C3 (34g)

MOBIL POLYREX EM (10000h)