

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency Three-Phase  
 Product code : 12197395  
 Catalog # : 07536ET3E365TSC-W22

Frame : 364/5TSC	Locked rotor time : 18s (cold) 10s (hot)
Output : 75 HP (55 kW)	Temperature rise : 80 K
Poles : 2	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 : 164/81.9 A	Protection degree : IP55
L. R. Amperes : 1097/549 A	Cooling method : IC411 - TEFC
LRC : 6.7x(Code G)	Mounting : F-1
No load current : 40.0/20.0 A	Rotation <sup>1</sup> : Both (CW and CCW)
Rated speed : 3555 rpm	Noise level <sup>2</sup> : 79.0 dB(A)
Slip : 1.25 %	Starting method : Direct On Line
Rated torque : 111 ft.lb	Approx. weight <sup>3</sup> : 879 lb
Locked rotor torque : 200 %	
Breakdown torque : 250 %	
Insulation class : F	
Service factor : 1.25	
Moment of inertia (J) : 11.9 sq.ft.lb	
Design : B	

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	92.2	92.4	93.6	93.6	Max. traction : 657 lb
Power Factor	0.60	0.83	0.88	0.90	Max. compression : 1536 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)
6.4	4.8	4.5	3.2	1.8	1.1	0.6

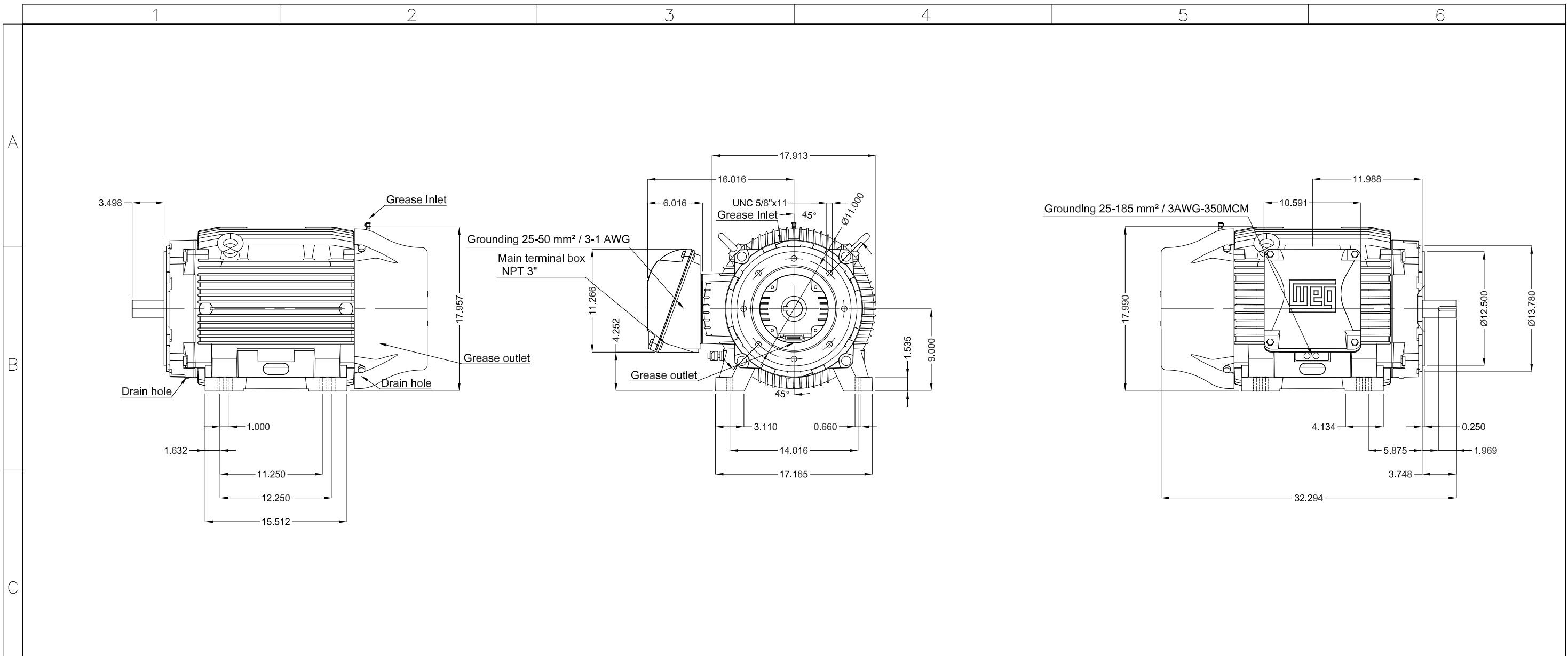
	<u>Drive end</u>	<u>Non drive end</u>
Bearing type :	6314 C3	6314 C3
Sealing :	WSeal	WSeal
Lubrication interval :	4000 h	4000 h
Lubricant amount :	27 g	27 g
Lubricant type :	Mobil Polyrex EM	

Notes:  
 USABLE @208V 181A SF 1.10 SFA 199A

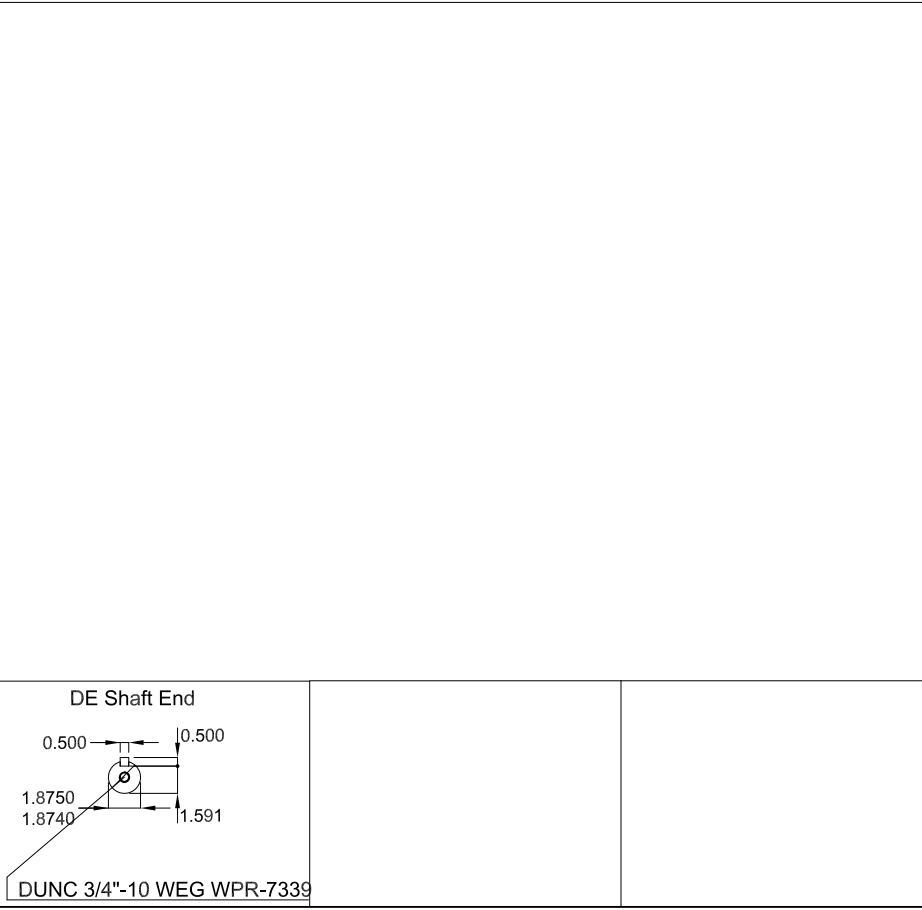
This revision replaces and cancel the previous one, which must be eliminated.  
 (1) Looking the motor from the shaft end.  
 (2) Measured at 1m and with tolerance of +3dB(A).  
 (3) Approximate weight subject to changes after manufacturing process.  
 (4) At 100% of full load.

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	Revision
Checked by			1 / 1	
Date	08/01/2024			



Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)




75 HP 02 Poles 60 Hz										A	
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME 364/5TSC IP55 TEFC					EXECUTED	CHECKED	RELEASED	DATE	VER
RELEASED							EXECUTED	CHECKED	RELEASED	DATE	VER
REL. DATE							EXECUTED	CHECKED	RELEASED	DATE	VER
						PREVIEW		WDD 00		SHEET /	
						WEG					

MADE IN MEXICO  
12197395



MODEL 07536ET3E365TSC-W22

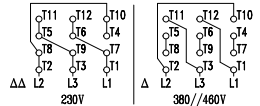





For use on 60Hz  
 Class I, Div 2, Gr A, B, C and D - T3  
 Class I, Zone 2, IIC - T3  
 Class II, Div 2, Gr F and G - T4  
 For use on PWM: Gr. A, B, C, D and F,  
 VT 1000:1, CT 20:1, 1.00SF - T3A


Inverter Duty Motor  
Severe Duty

PH3	60Hz	Fr. 364/5TSC	1000m.a.s.l.	IP55	TEFC	879lb
V	230/460			A	164/81.9	
HP	75			kW	55	
SF	1.25			SFA	205/102	
RPM	3555			PF	0.90	
AMB	40°C			INS cl.	F DT80K	NEMA NOM EFF 93.6%
DUTY	CONT.			DES	B Code G	

75HP 55kW 50Hz 380V 100A 2930RPM SF 1.00 EFF 92.4% (IE1)



-  → 6314-C3 (27g)
-  → 6314-C3 (27g)

 MOBIL POLYREX EM (4000h)