

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11416577
Catalog # : 00218ET3E145T-W22

Frame	: 143/5T	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 2 HP (1.5 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	: 5.58/2.79 A	Protection degree	: IP55
L. R. Amperes	: 46.3/23.2 A	Cooling method	: IC411 - TEFC
LRC	: 8.3x(Code L)	Mounting	: F-1
No load current	: 3.26/1.63 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 51.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 6.00 ft.lb	Approx. weight ³	: 50.0 lb
Locked rotor torque	: 270 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1561 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.5	86.5	86.5	Max. traction	: 158 lb
Power Factor	0.57	0.70	0.78	Max. compression	: 208 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)
15.0	12.8	12.1	8.4	6.0	4.7	3.5

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6205 ZZ	: 6204 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

Notes

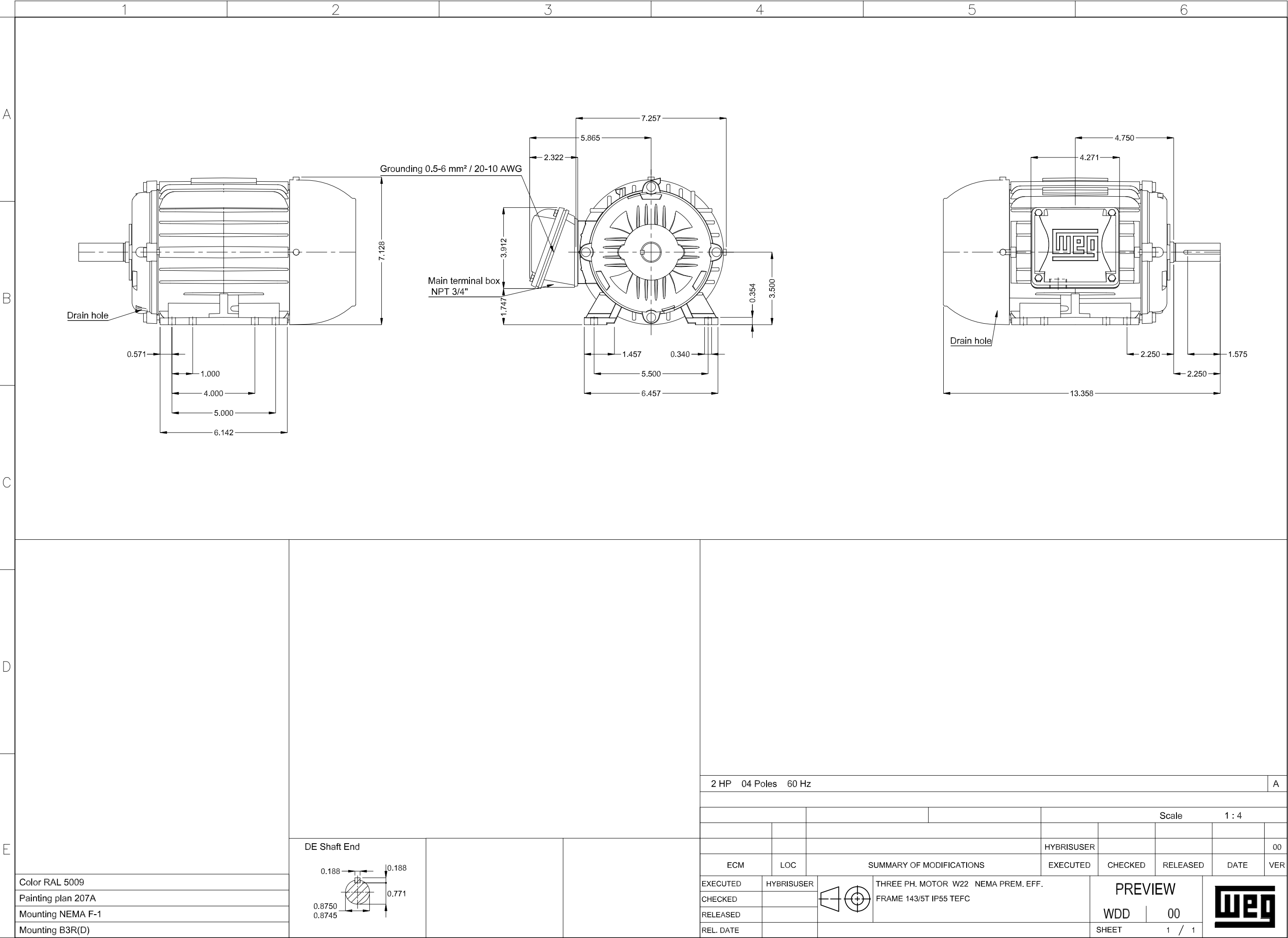
USABLE @208V 5.85A SF 1.15 SFA 6.73A

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	12/03/2025			



W22

NEMA
Premium



Class I, Div 2, Gr A, B, C, D, 1.15SF - T3
Class II, Zone 2, IIC, 1.15SF - T3
Class II, Div 2, Gr F, G - T5
60Hz: For use on PWM: Gr. A, B, C, D, F,
G, VT 1000:1, CT 20:1, 1.00SF - T4A



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 143/5T 1000m.a.s.l. IP55 TEFC 50lb

V 230/460

A 5.58/2.79

HP 2.0

kW 1.5

SF 1.25

SFA 6.97/3.49

RPM 1750

PF 0.78

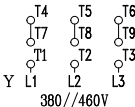
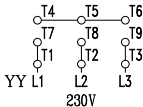
AMB 40°C

INS cl. F DT80K NEMA NOM EFF 86.5%

DUTY CONT.

DES B Code L

2.0HP 1.5kW 50Hz 380V 3.33A 1435RPM SF 1.25 SFA 4.16 EFF 82.5% (IE1)



MOBIL POLYREX EM



MADE IN MEXICO
11416577