

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 11807185  
 Catalog # : 01536ET3E254TF3-W22

Frame	: 254T	Locked rotor time	: 45s (cold) 25s (hot)
Output	: 15 HP (11 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	: 34.4/17.2 A	Protection degree	: IP55
L. R. Amperes	: 230/115 A	Cooling method	: IC411 - TEFC
LRC	: 6.7x(Code G)	Mounting	: F-3
No load current	: 10.6/5.30 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level <sup>2</sup>	: 72.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 22.3 ft.lb	Approx. weight <sup>3</sup>	: 266 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 1.26 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads
Efficiency (%)	89.5 90.3 90.1 89.9 89.5 90.2 90.2	91.0 90.5 90.7 90.8 90.2 90.2 91.0	91.0 90.5 90.7 90.8 89.5 90.2 90.2	Max. traction : 177 lb
Power Factor	0.77 0.73 0.69 0.67 0.83 0.81 0.79	0.85 0.83 0.80 0.78 0.88 0.87 0.86	0.88 0.87 0.85 0.84 0.90 0.90 0.89	Max. compression : 443 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	Normative operating points						
		9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P2 (0,5;1,0)	7.5	7.5	7.5	7.5	7.5	7.5	7.5
	P3 (0,25;1,0)	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	P4 (0,9;0,5)	4.8	4.8	4.8	4.8	4.8	4.8	4.8
	P5 (0,5;0,5)	2.8	2.8	2.8	2.8	2.8	2.8	2.8
	P6 (0,5;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	P7 (0,25;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1

	Drive end	Non drive end
Bearing type	: 6309 C3	6209 C3
Sealing	: V'Ring	V'Ring
Lubrication interval	: 19000 h	20000 h
Lubricant amount	: 13 g	9 g
Lubricant type	: Mobil Polyrex EM	

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			1 / 2	
Date	25/02/2025			

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

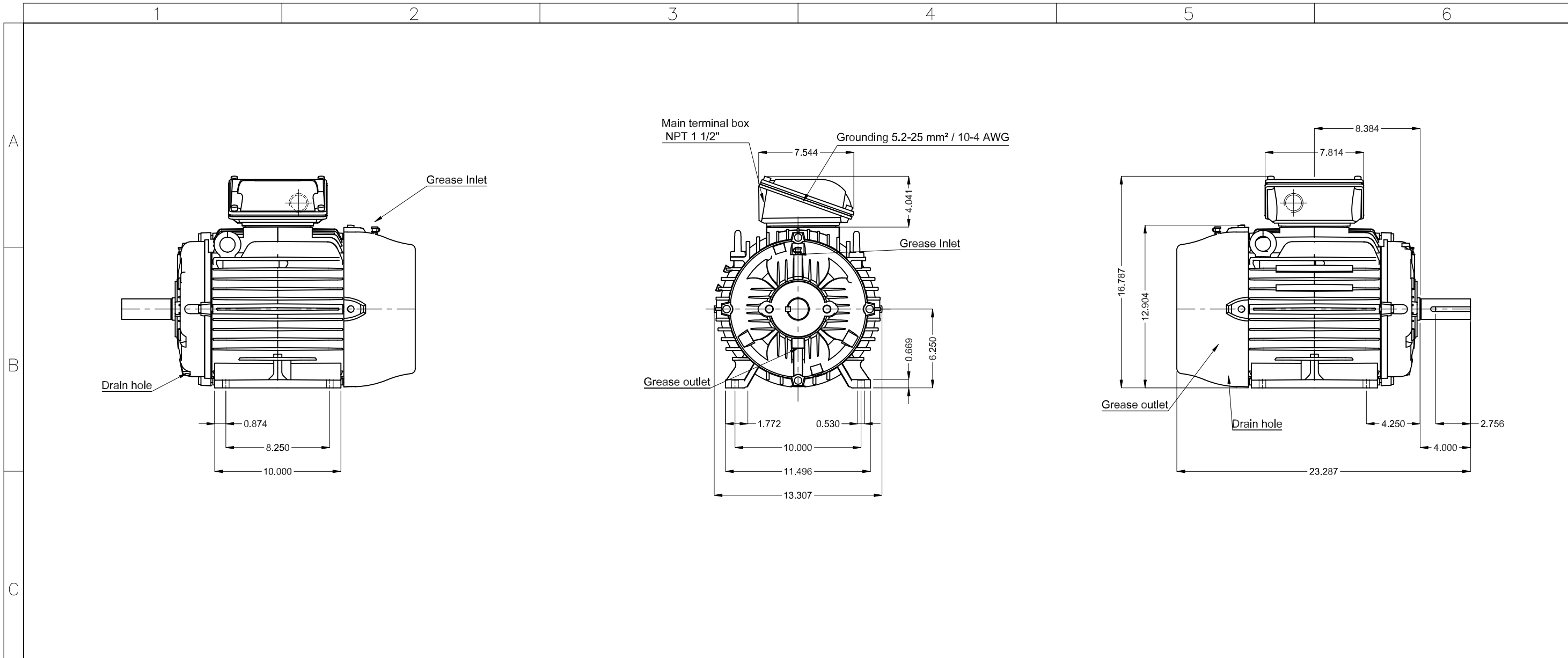
Notes

This revision replaces and cancel the previous one, which must be eliminated.

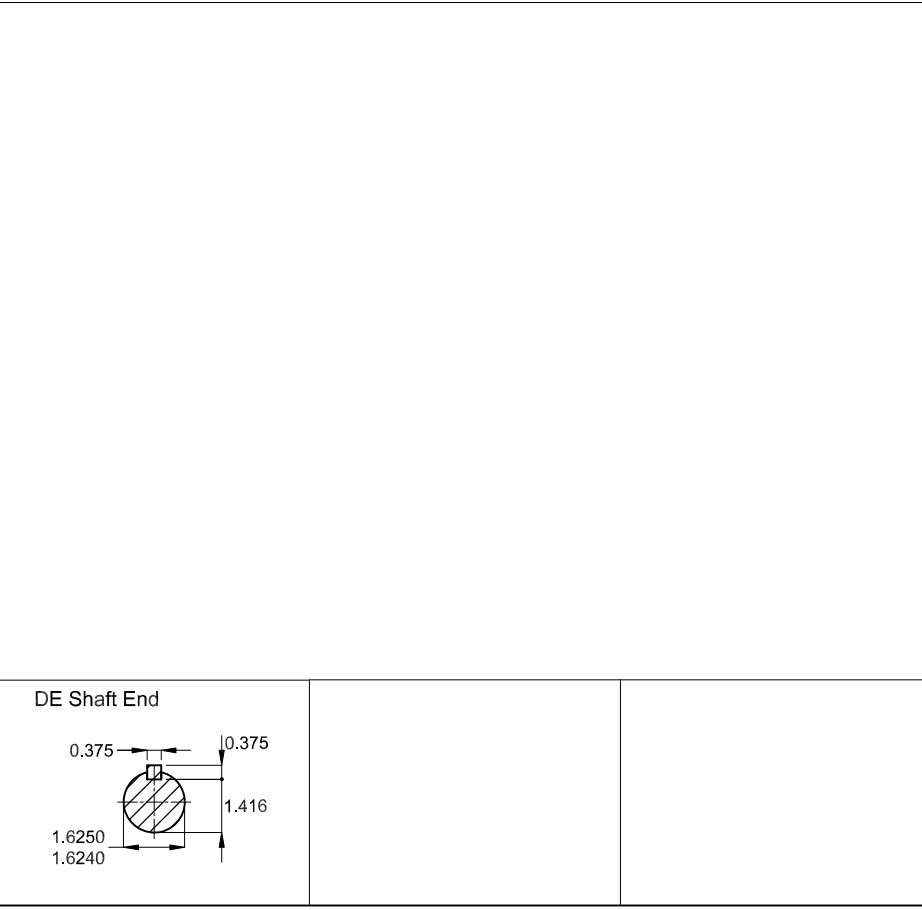
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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
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Checked by			Page	Revision
Date	25/02/2025		2 / 2	



Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3T



15 HP 02 Poles 60 Hz										A	
Scale 1 : 8											
HYBRISUSER										00	
ECM	LOC	SUMMARY OF MODIFICATIONS					EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.						PREVIEW			
CHECKED		FRAME 254T IP55 TEFC						WDD	00		
RELEASED								SHEET	1 / 1		
REL. DATE											