DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11441798
		Catalog # :	02036ET3E256T-W22

Frame	: 254/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 294 lb
Protection degree	: IP55	Moment of inertia (J)	: 1.54 sq.ft.lb
Design	: B		

Output [HP]		20	20
Poles		2	2
Frequency [Hz]		60	50
Rated voltage [V]		230/460	380
Rated current [A]		46.5/23.3	28.9
L. R. Amperes [A]		284/142	148
LRC [A]		6.1x(Code G)	5.1x(Code E)
No load current [A]		13.0/6.50	6.20
Rated speed [RPM]		3525	2885
Slip [%]		2.08	3.83
Rated torque [ft.lb]		29.8	36.4
Locked rotor torque [%]		200	160
Breakdown torque [%]		240	190
Service factor		1.25	1.00
Temperature rise		80 K	105 K
Locked rotor time		25s (cold) 14s (hot)	10s (cold) 6s (hot)
Noise level²		72.0 dB(A)	67.0 dB(A)
Efficiency (%)	25%	90.5	86.9
	50%	90.7	87.2
	75%	91.0	87.5
	100%	91.0	87.5
Power Factor	25%	0.56	0.64
	50%	0.80	0.85
	75%	0.87	0.89
	100%	0.89	0.90

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

Losses (%)	P1 (0,9;1,0)	9.0	13.0
	P2 (0,5;1,0)	6.6	9.6
	P3 (0,25;1,0)	6.2	8.9
	P4 (0,9;0,5)	4.9	7.1
	P5 (0,5;0,5)	2.7	3.9
	P6 (0,5;0,25)	1.8	2.6
	P7 (0,25;0,25)	1.0	1.5

		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	

Foundation loads

Max. traction : 250 lb

Max. compression : 544 lb

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).

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
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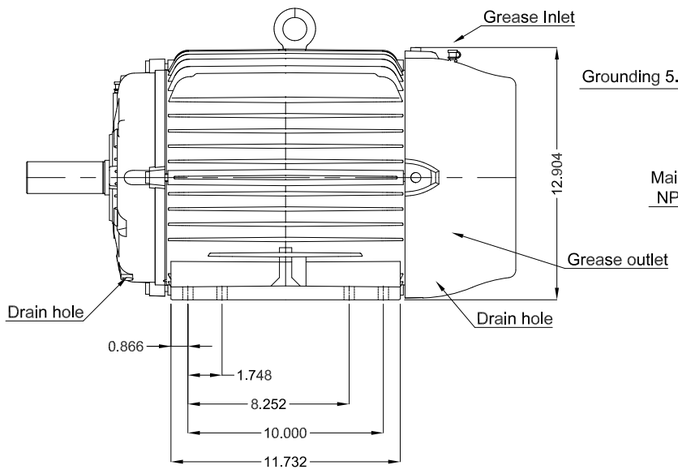
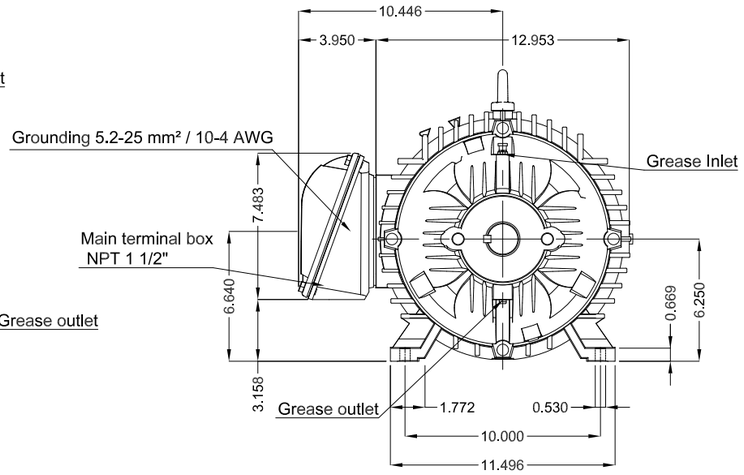
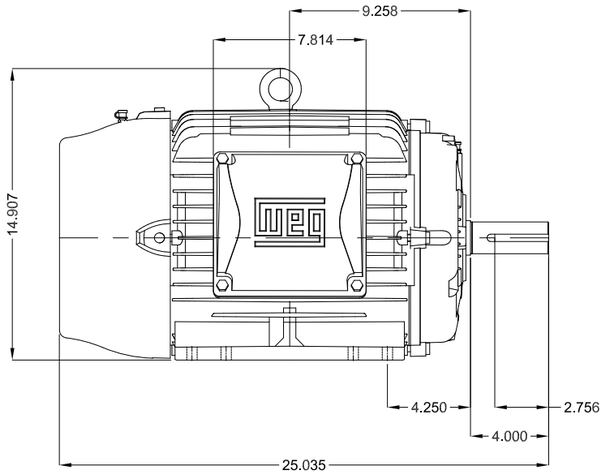
Notes
USABLE @208V 51.3A SF 1.15 SFA 59.0A

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	11/10/2023		2 / 2	

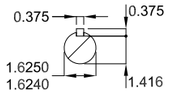






Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)

DE Shaft End



20 HP 02 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 NEMA PREM. EFF.
FRAME 254/6T IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

MADE IN MEXICO
11441798

MODEL 02036ET3E256T-W22

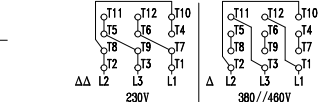
Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 254/6T 1000m.a.s.l.		IP55 TEFC 294lb
V 230/460	A 46.5/23.3	
HP 20	kW 15	
SF 1.25	SFA 58.1/29.1	
RPM 3525	PF 0.89	
AMB 40°C	INS cl. F DT80K	NEMA NOM EFF 91.0%
DUTY CONT.	DES B Code G	

20HP 15kW 50Hz 380V 28.9A 2885RPM SF 1.00 EFF 87.5%

3PT9 LISTED FOR SAFE AREA
Mod.TE1BFOXON
CCO29A

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



→ 6309-C3 (13g)
→ 6209-C3 (9g)

MOBIL POLYREX EM (19000h)