DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674735
		Catalog # :	00718OT3H213TC-S

Frame	: 213/5TC	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.40 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 53.3 A	Mounting	: F-1
LRC	: 7.2x(Code H)	Rotation[1]	: Both (CW and CCW)
No load current	: 3.51 A	Noise level[2]	: 59.0 dB(A)
Rated speed	: 1770 rpm	Starting method	: Direct On Line
Slip	: 1.67 %	Approx. weight[3]	: 126 lb
Rated torque	: 22.3 ft.lb		
Locked rotor torque	: 240 %		
Breakdown torque	: 320 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.03 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	88.6	89.5	90.2	91.0
Power Factor	0.39	0.65	0.77	0.82

Foundation loads	
Max. traction	: 338 lb
Max. compression	: 465 lb

		Drive end	Non drive end
Bearing type	:	6208 ZZ	6206 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
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

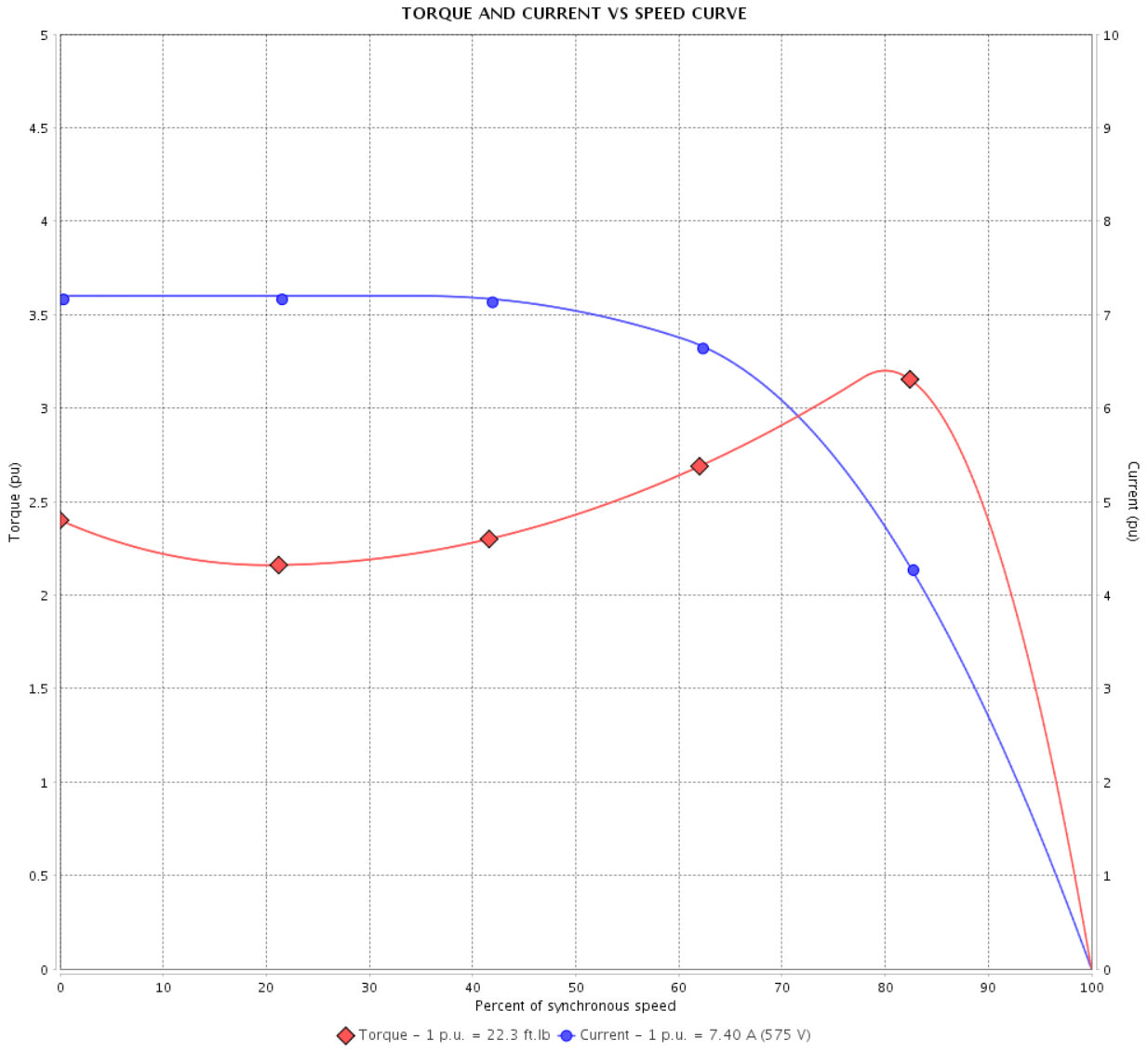
Performed by				
Checked by			Page	Revision
Date	13/04/2022		1 / 6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674735
		Catalog # :	00718OT3H213TC-S



Performance	: 575 V 60 Hz 4P

Rated current	: 7.40 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Locked rotor time	: 23s (cold) 13s (hot)

Rev.	Changes Summary	Performed	Checked	Date

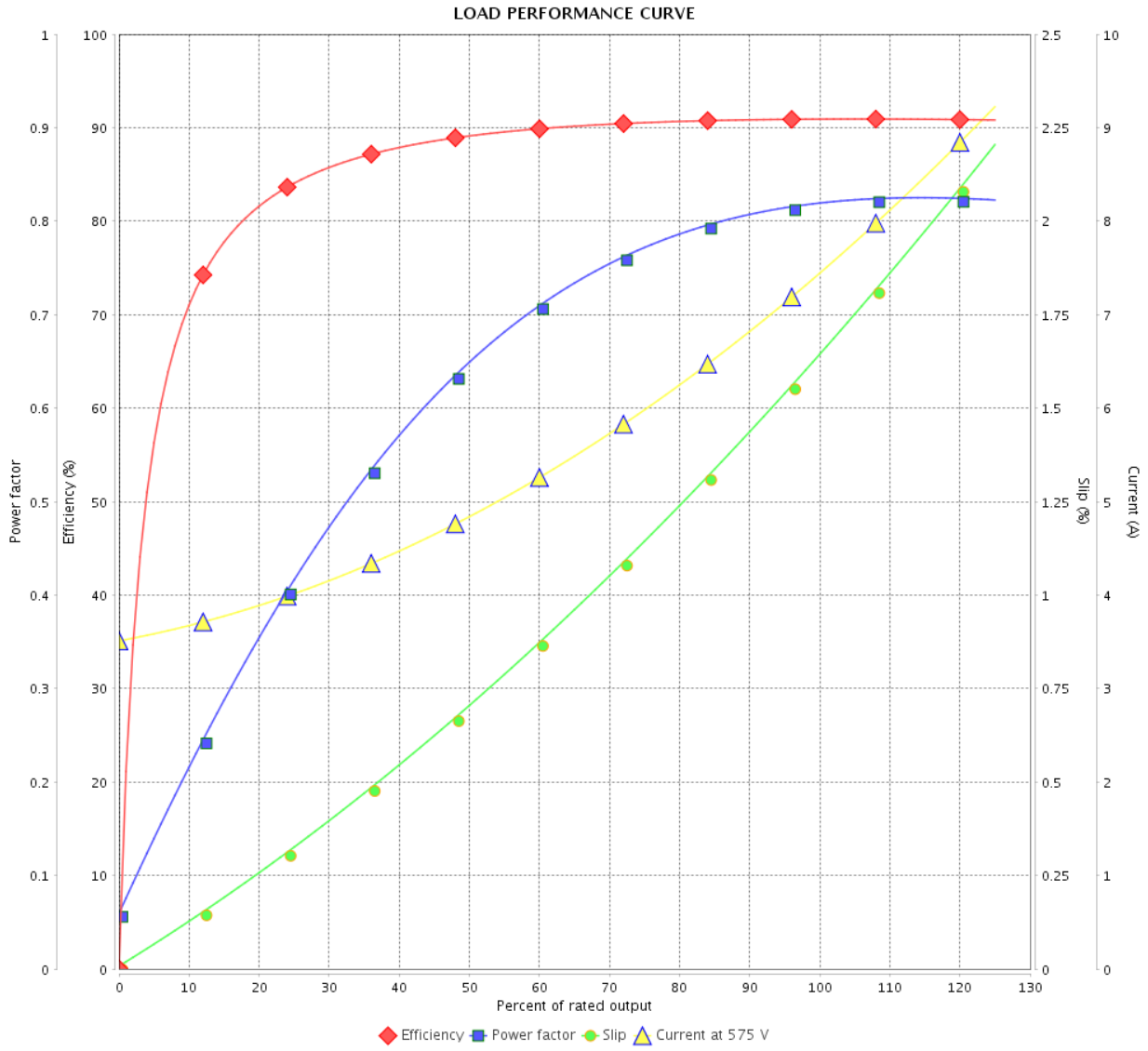
Performed by				
Checked by			Page	Revision
Date	13/04/2022		2 / 6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674735
		Catalog # :	00718OT3H213TC-S



Performance	: 575 V 60 Hz 4P

Rated current	: 7.40 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/04/2022		3 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674735
		Catalog # :	00718OT3H213TC-S

Performance	: 575 V 60 Hz 4P

Rated current	: 7.40 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Heating constant	
Cooling constant	

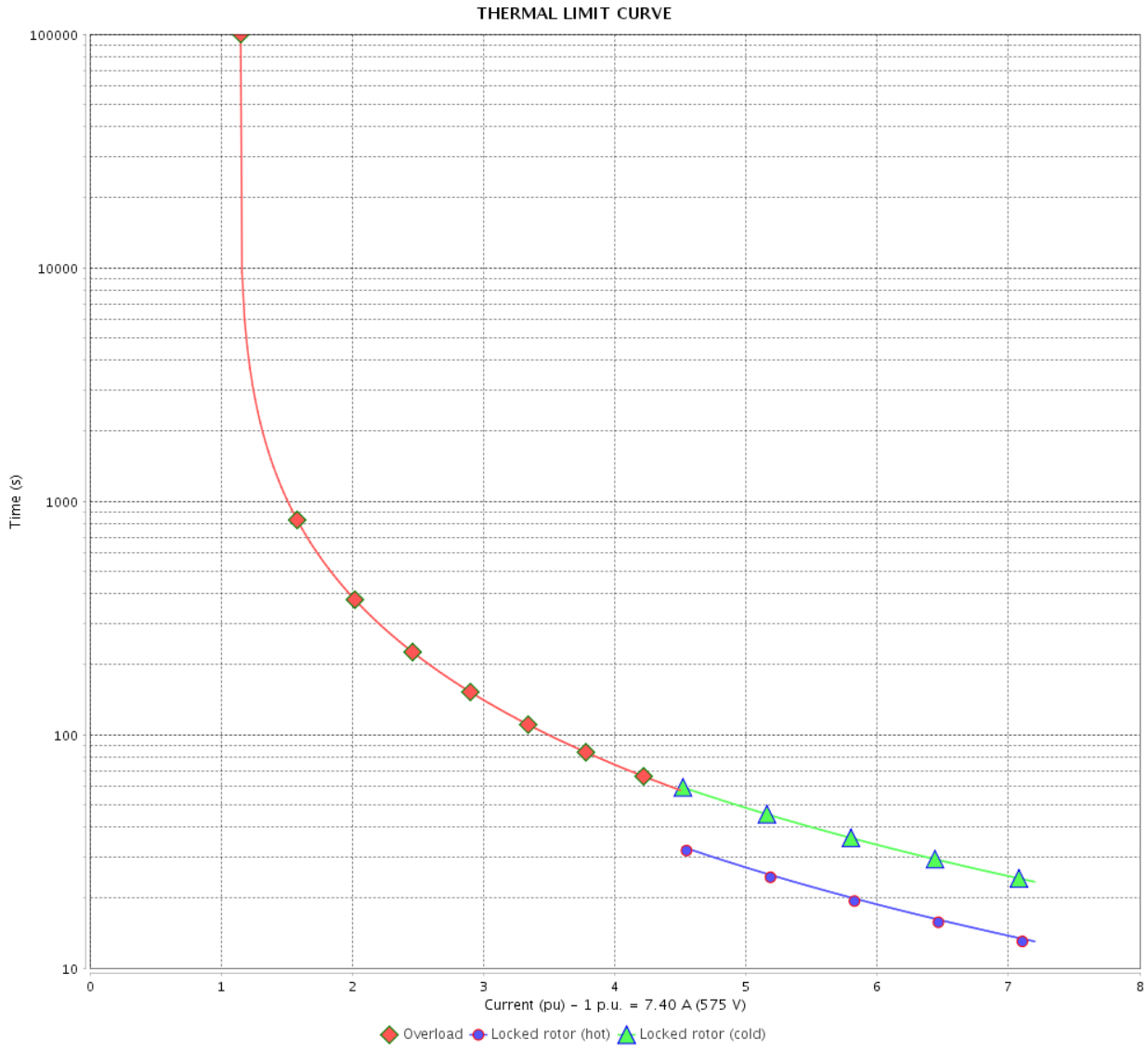
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/04/2022		4 / 6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

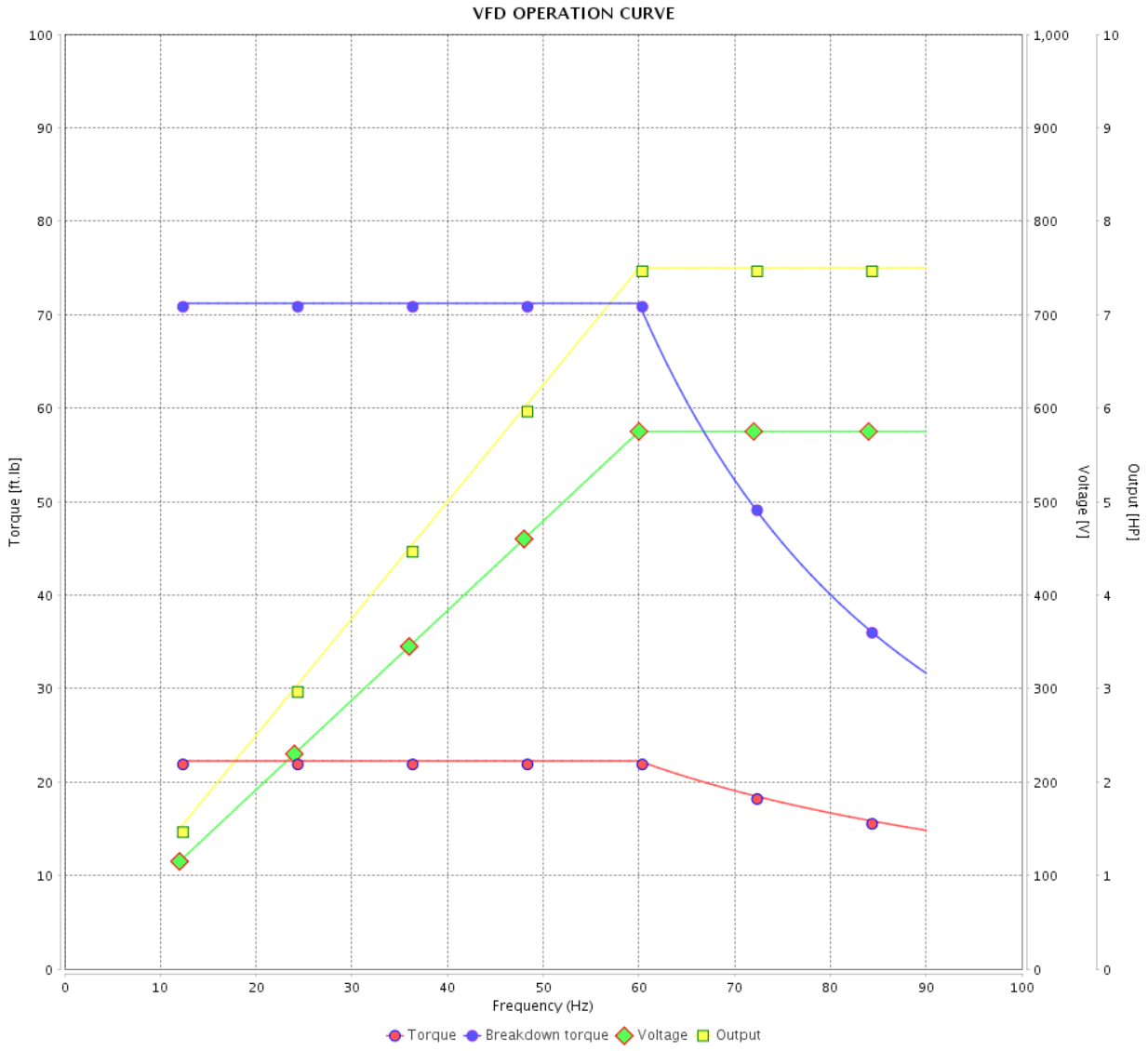
Performed by				
Checked by			Page	Revision
Date	13/04/2022		5 / 6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12674735
		Catalog # :	00718OT3H213TC-S

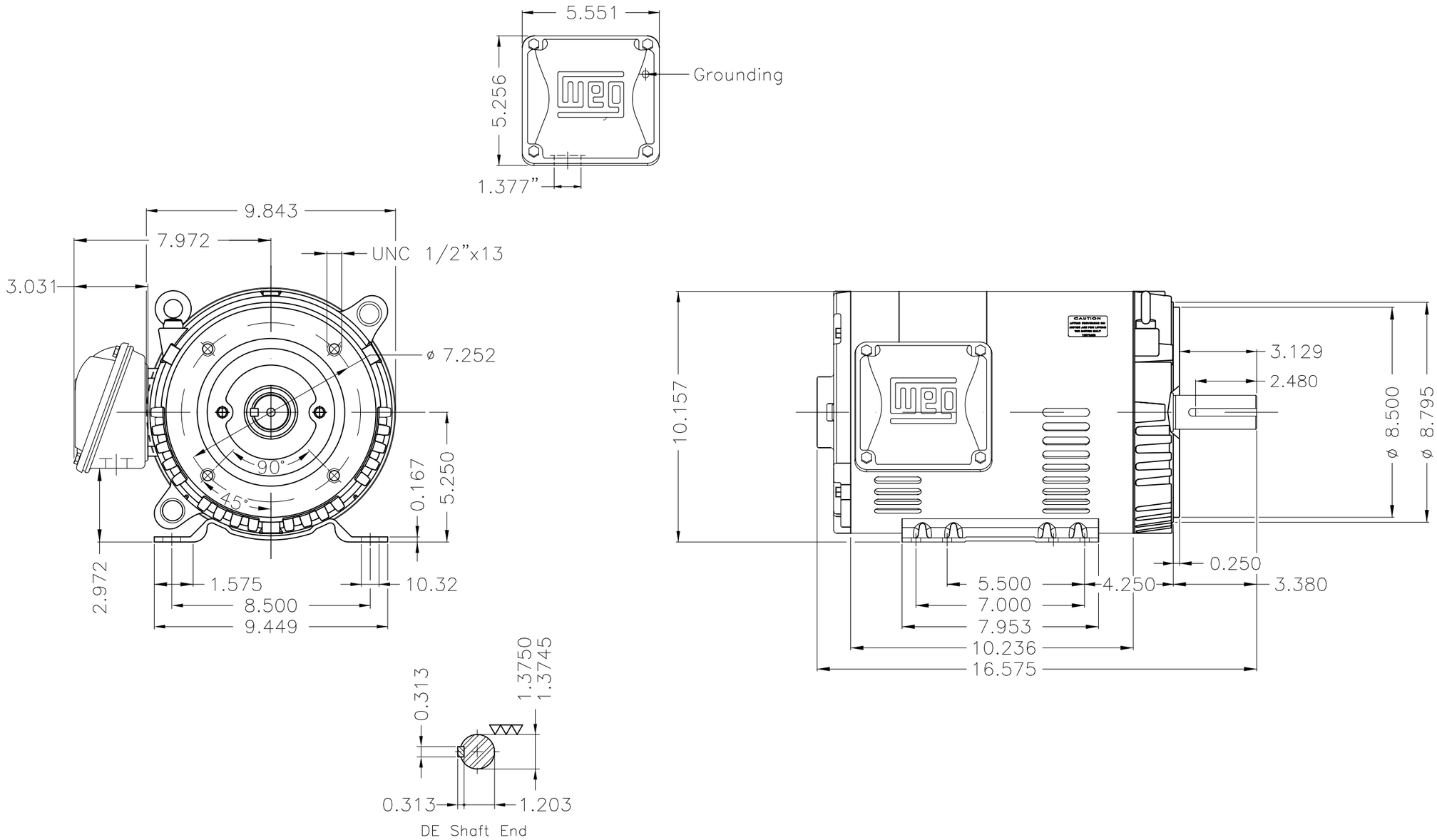


Performance	: 575 V 60 Hz 4P

Rated current	: 7.40 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	13/04/2022		6 / 6	



Color Munsell N 1 matte black

Painting plan 207N

Mounting F-1/B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER

EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.	PREVIEW
CHECKED		FRAME 213/5TC IP21 ODP	WDD
RELEASED			
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

7.5 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

NEMA Premium®

3PT9 LISTED

Energy Verified

MADE IN MÉXICO

MAT: 12674735 CC029A

W01.TO0IC0X0N

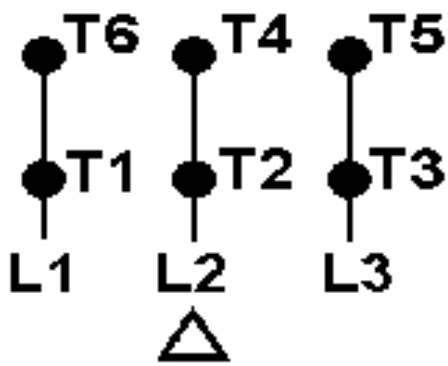
MODEL 00718OT3H213TC-S

21JAN2022 S/N:

PH 3	Hz 60	HP	7.5
FR 213/5TC		kW	5.5
DUTY CONT.		V	575
ALT 1000 m.a.s.l		A	7.40
INS CL F ΔT 80K		SFA	8.51
AMB 40°C	DES B	SF	1.15
ENCL ODP	CODE H	PF	0.82
		RPM	1770
		NEMA NOM. EFF	91.0%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT

DE 6208-ZZ	ODE 6206-ZZ	MOBIL POLYREX EM	



T1-BLU
T2-WHT
T3-ORG
T4-YEL
T5-BLK
T6-GRY

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.

AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine.