

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase			
Product code :	12727369			
Catalog # :	01518OT3P254T-S			
Frame : 254/6T Output : 15 HP (11 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 200 V Rated current : 42.8 A L. R. Amperes : 287 A LRC : 6.7x(Code H) No load current : 21.9 A Rated speed : 1775 rpm Slip : 1.39 % Rated torque : 44.4 ft.lb Locked rotor torque : 240 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.82 sq.ft.lb Design : B	Locked rotor time : 30s (cold) 17s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 64.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 189 lb			
Output	25% 50% 75% 100%			
Efficiency (%)	91.0 91.7 92.4 93.0			
Power Factor	0.36 0.62 0.73 0.80			
Foundation loads				
Max. traction	: 544 lb			
Max. compression	: 733 lb			
Bearing type	: <u>Drive end</u> 6309 Z C3 <u>Non drive end</u> 6208 Z C3			
Sealing	: Without Bearing Seal Without Bearing Seal			
Lubrication interval	: 20000 h 20000 h			
Lubricant amount	: 13 g 8 g			
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.				
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Performed by				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



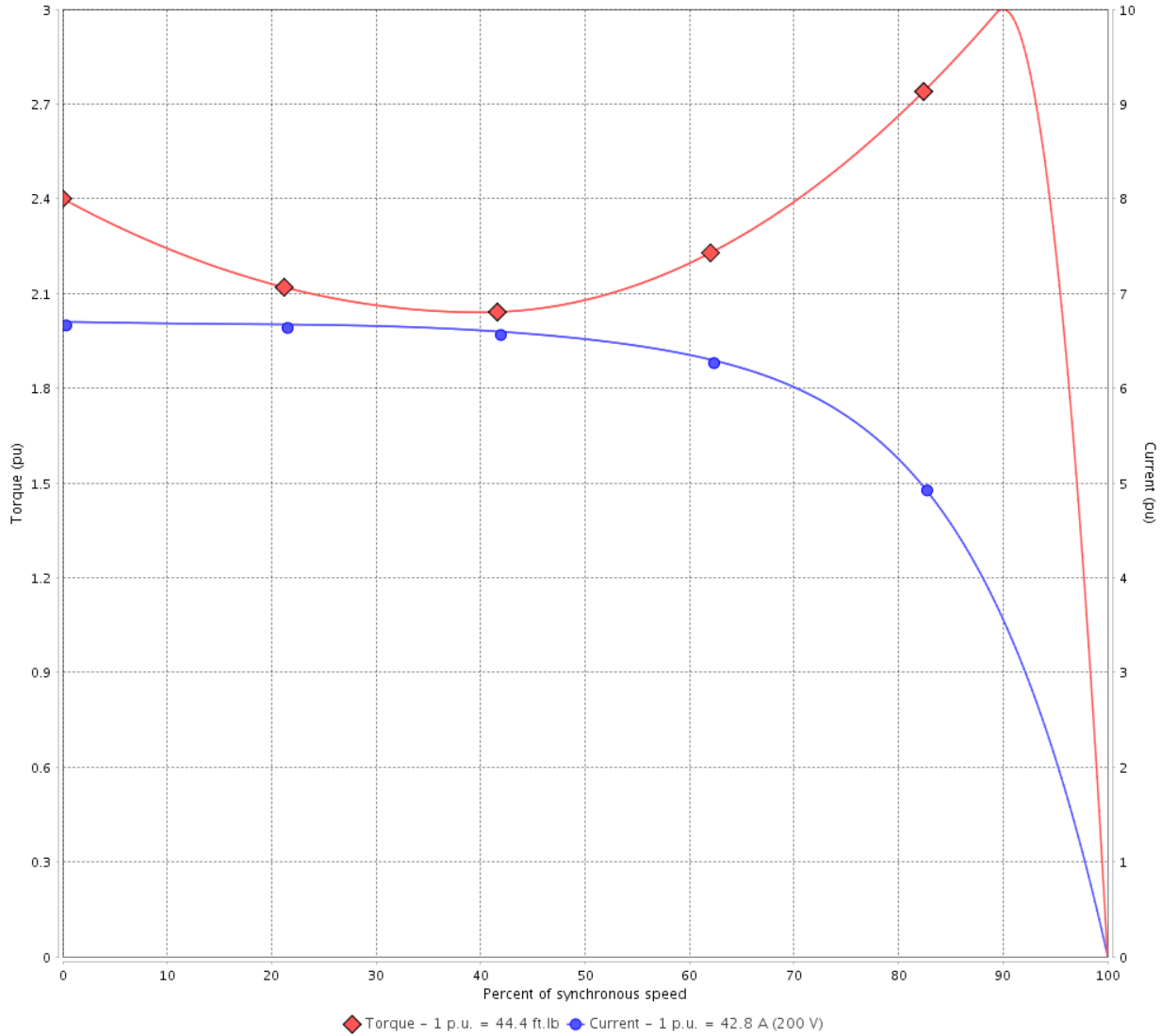
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12727369

Catalog # : 01518OT3P254T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 200 V 60 Hz 4P

Rated current	: 42.8 A	Moment of inertia (J)	: 1.82 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 44.4 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1775 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

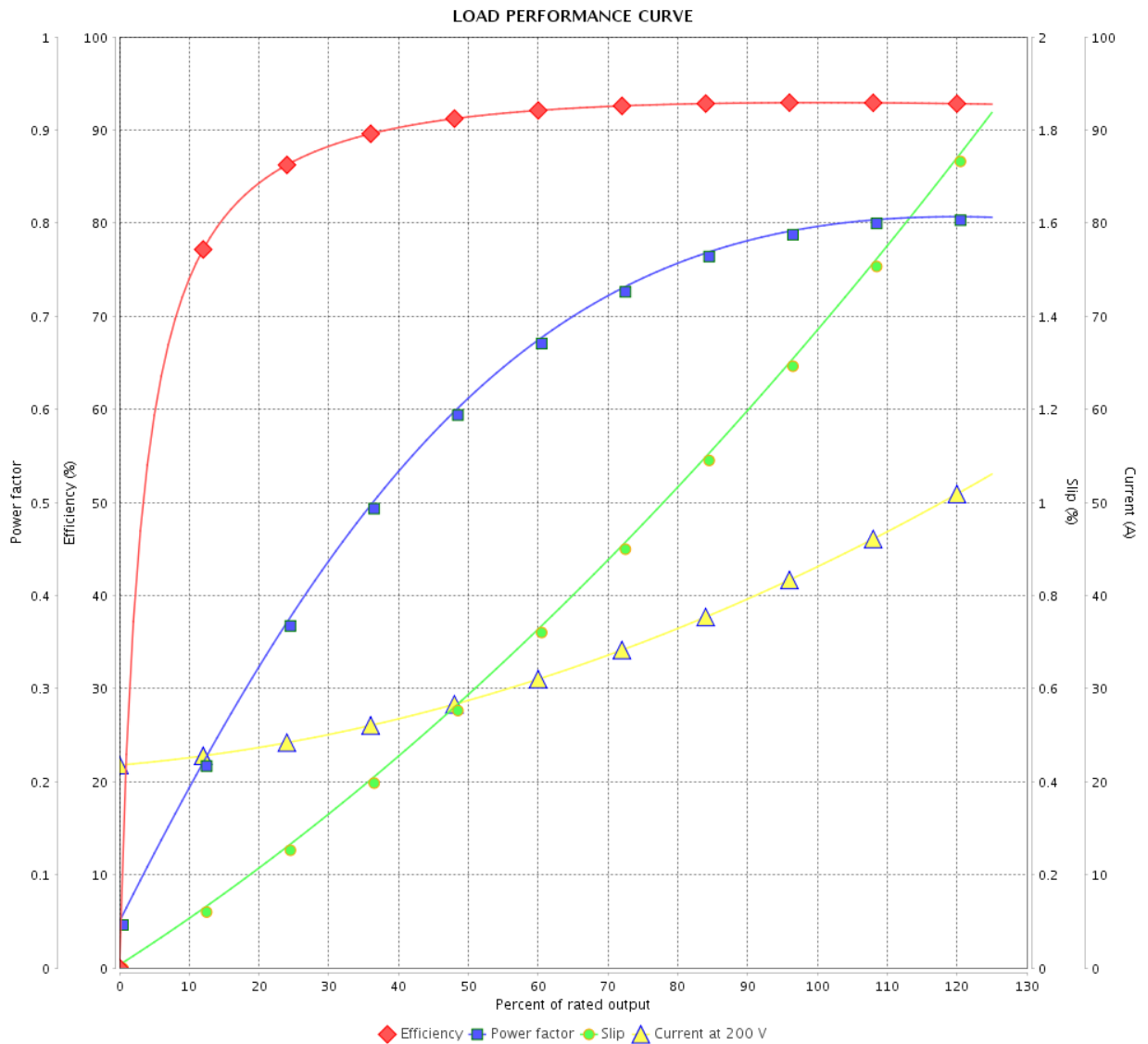


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 Breakdown torque : 300 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 1.82 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

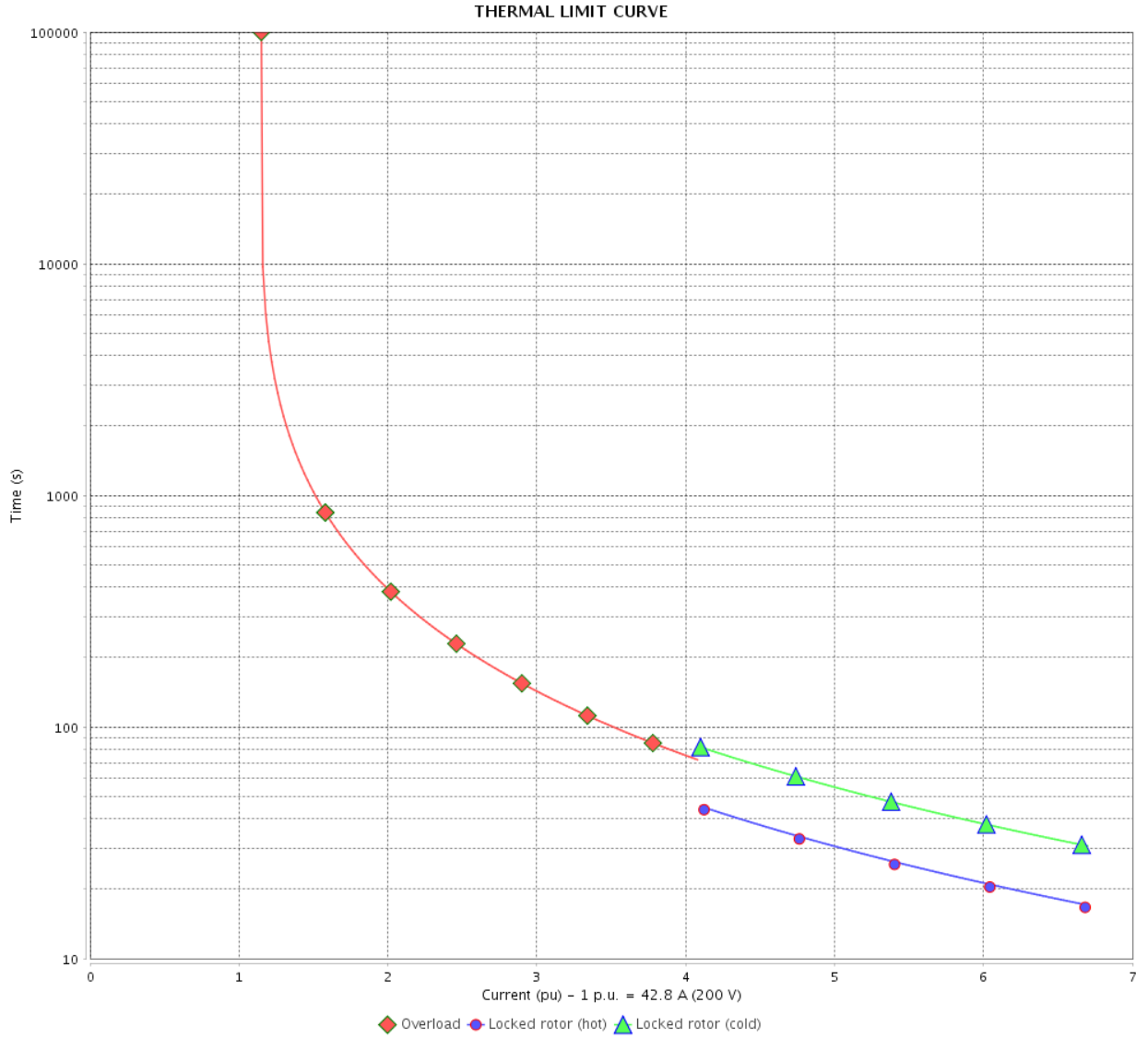
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



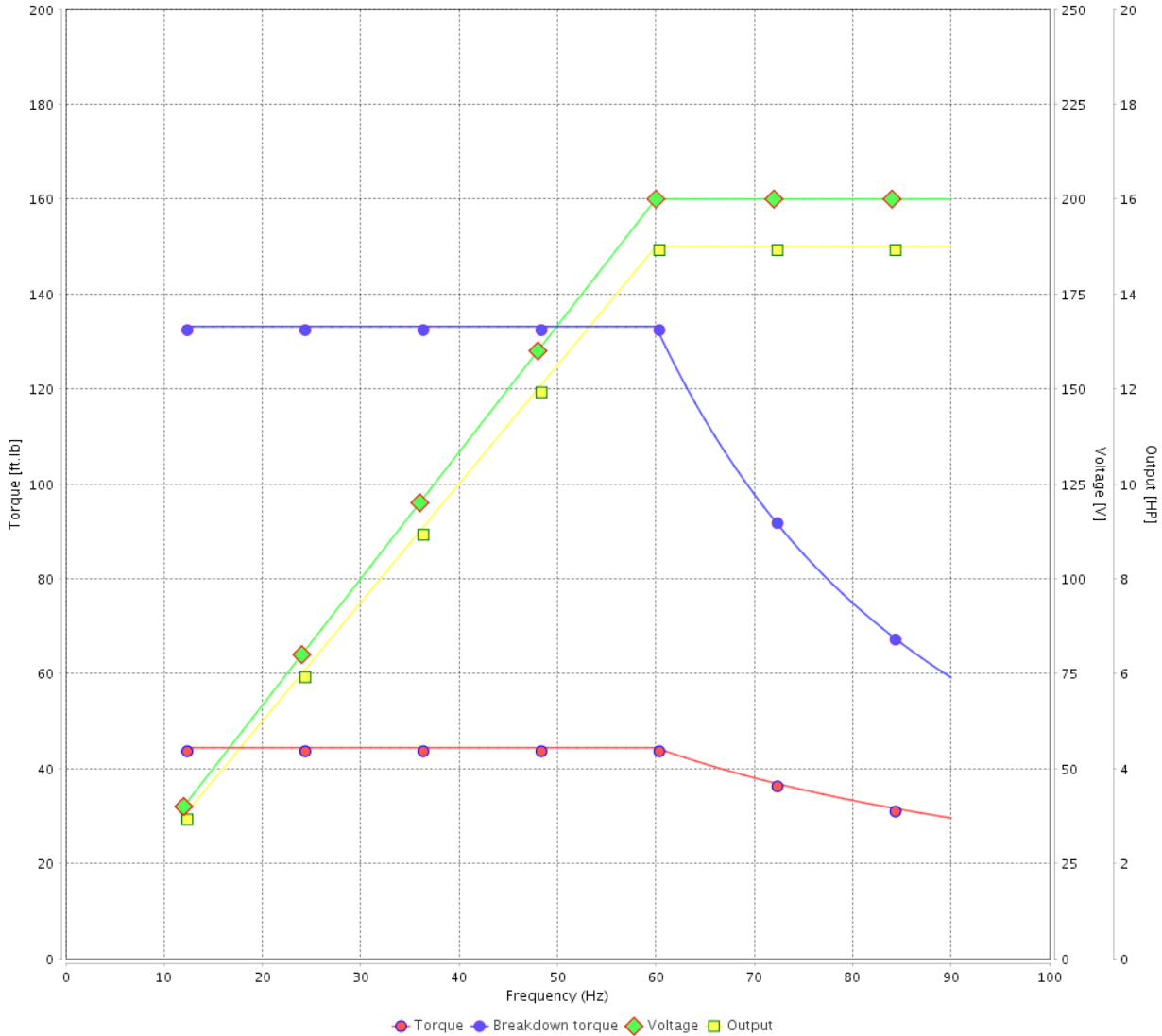
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VFD OPERATION CURVE



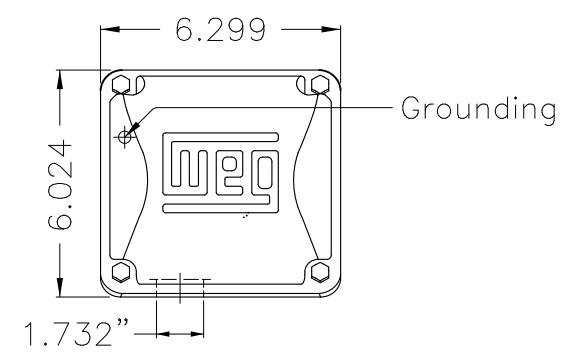
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Rated current : 42.8 A
 LRC : 6.7
 Rated torque : 44.4 ft.lb
 Locked rotor torque : 240 %
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 Rated speed : 1775 rpm

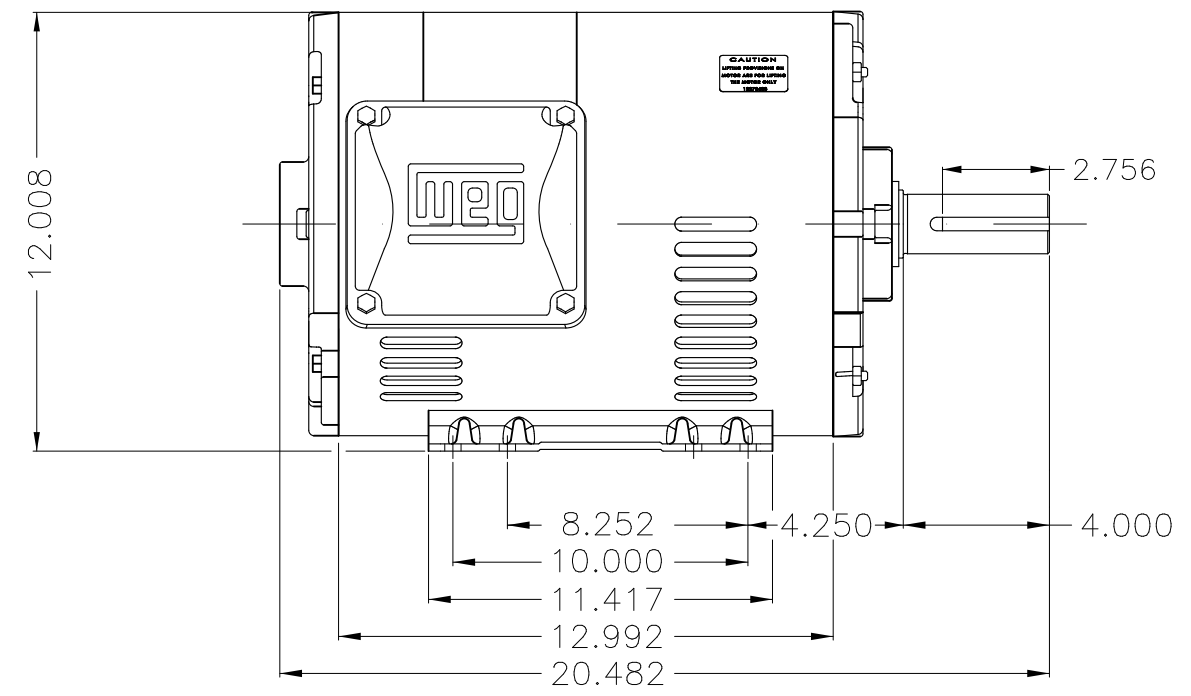
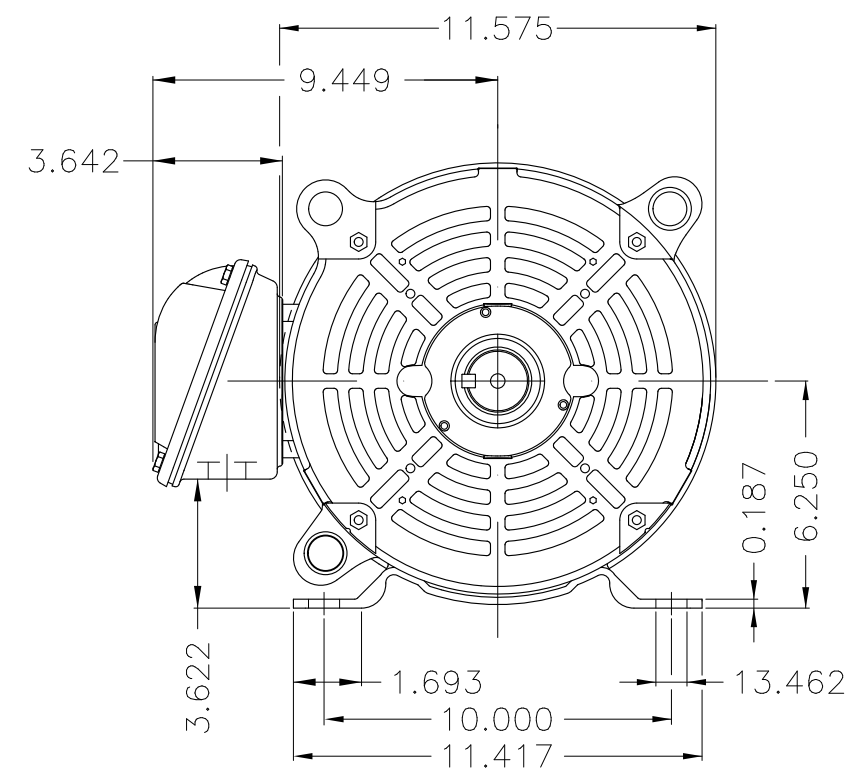
Moment of inertia (J) : 1.82 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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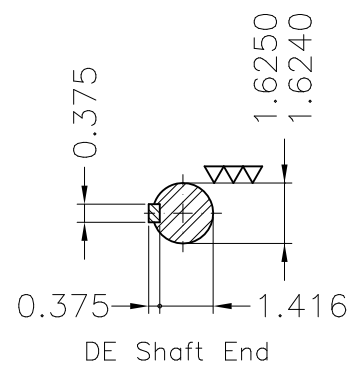
A



B



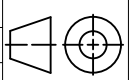
C



D

E

Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 254/6T IP21 ODP					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

15 HP 04 Poles 60 Hz

A

PREVIEW
WDD



**NEMA**
Premium

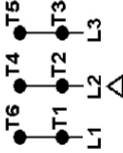
MADE IN MEXICO

MAT: 12727369 CC029A
W01.T00IC0X0N
MODEL 01518OT3P254T-S
21APR2022 S/N:

PH 3	Hz 60	HP 15
FR 254/6T		KW 11
DUTY CONT.		V 200
ALT 1000 m.a.s.l.		A 42.8
INS CL F AT 80K		SFA 49.2
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE H	PF 0.80
		RPM 1775
		NEMA NOM. EFF 93.0%

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

DE 6309-Z-C3	ODE 6208-Z-C3	MOBIL POLYREX EM	20000h
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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.

