

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :				
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12675410	
		Catalog # :	00152ET3E182T-S	
Frame	: 182/4T	Cooling method	: IC411 - TEFC	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 69.1 lb	
Protection degree	: IP55	Moment of inertia (J)	: 0.2800 sq.ft.lb	
Design	: B			
Output [HP]	1.5	1.5	1.5	
Poles	6	6	6	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	4.44/2.22	5.18/2.59	4.73/2.51	
L. R. Amperes [A]	30.6/15.3	29.5/14.8	29.8/15.8	
LRC [A]	6.9x(Code K)	5.7x(Code H)	6.3x(Code J)	
No load current [A]	2.73/1.36	2.69/1.34	2.74/1.46	
Rated speed [RPM]	1170	955	960	
Slip [%]	2.50	4.50	4.00	
Rated torque [ft.lb]	6.73	8.25	8.21	
Locked rotor torque [%]	240	190	220	
Breakdown torque [%]	340	260	290	
Service factor	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	
Locked rotor time	99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	50.0 dB(A)	50.0 dB(A)	
Efficiency (%)	25%	82.8	84.4	83.2
	50%	84.0	84.2	83.5
	75%	86.5	85.6	85.5
	100%	87.5	84.9	85.4
Power Factor	25%	0.29	0.34	0.31
	50%	0.50	0.58	0.54
	75%	0.63	0.70	0.66
	100%	0.71	0.76	0.74
Bearing type	: <u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring Without Bearing Seal	Max. traction	: 117 lb	
		Max. compression	: 186 lb	
Lubrication interval	: -			
Lubricant amount	: -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 4.91A SF 1.00 SFA 4.91A				
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	12/04/2022		1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



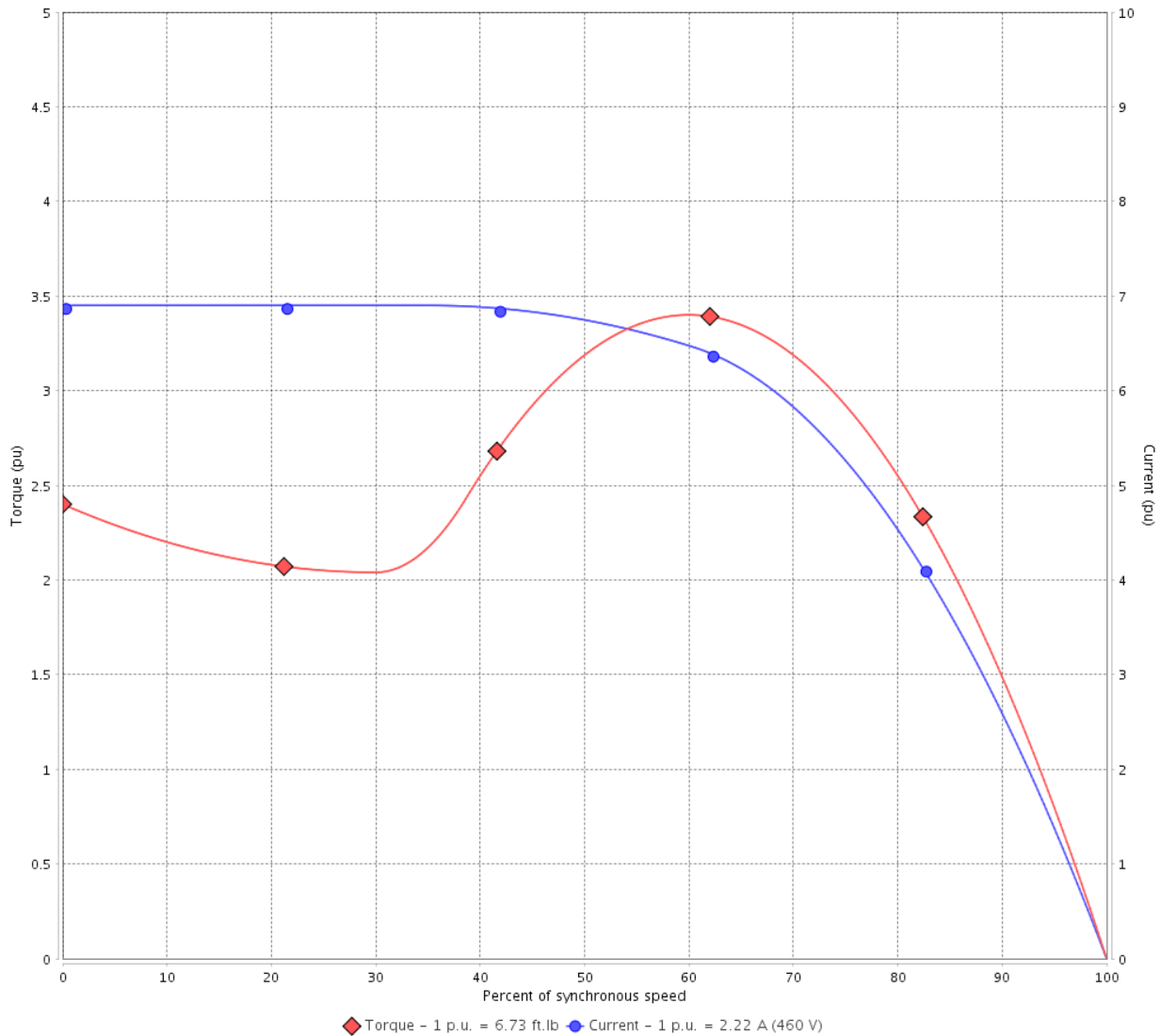
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675410

Catalog # : 00152ET3E182T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 4.44/2.22 A
 LRC : 6.9
 Rated torque : 6.73 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 340 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.2800 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 99s (cold) 55s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 16	Revision
Checked by				
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



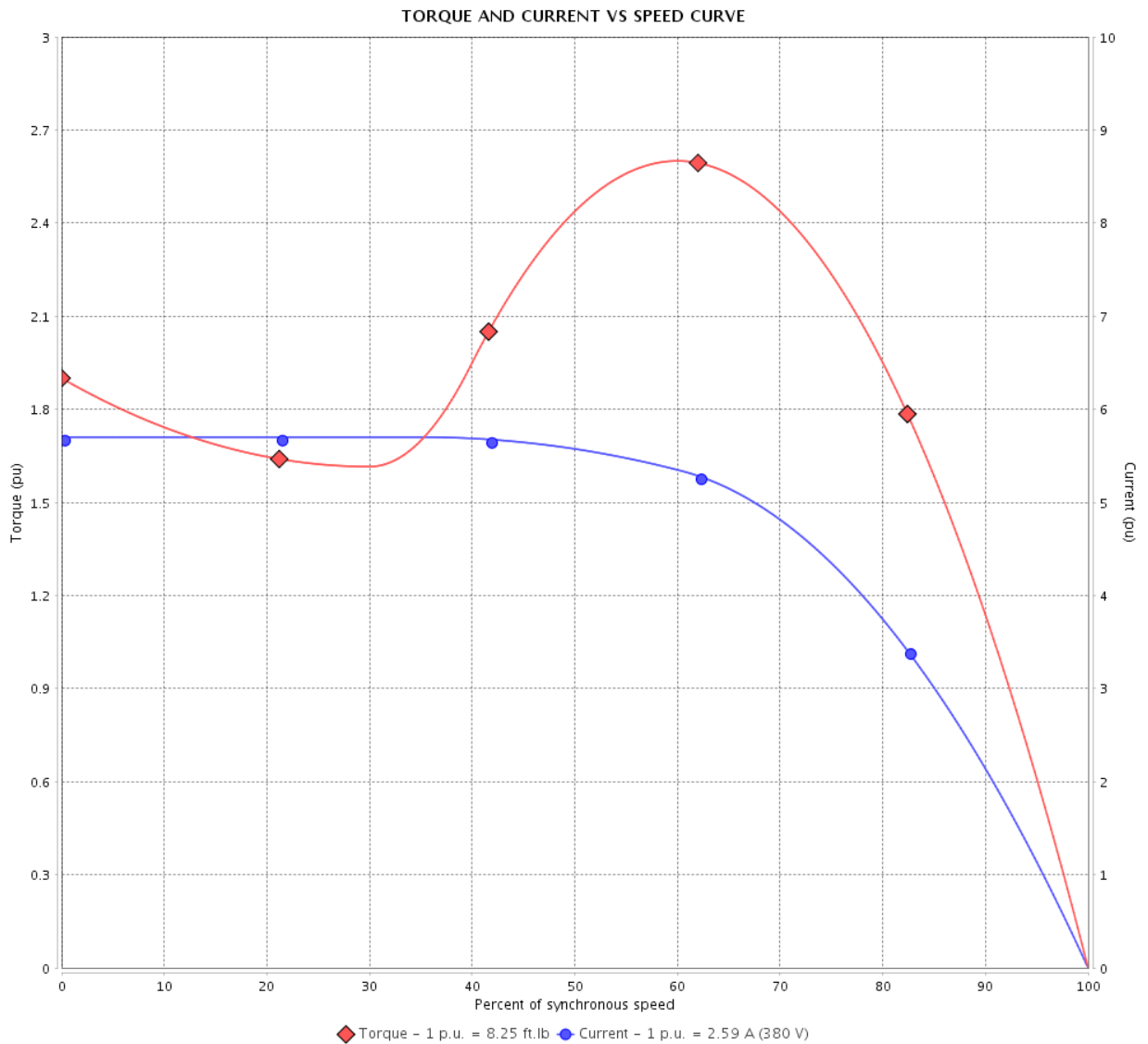
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12675410

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Performance : 190/380 V 50 Hz 6P

Rated current : 5.18/2.59 A
 LRC : 5.7
 Rated torque : 8.25 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 260 %
 Rated speed : 955 rpm

Moment of inertia (J) : 0.2800 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 0s (cold) 0s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		3 / 16		
Date	12/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

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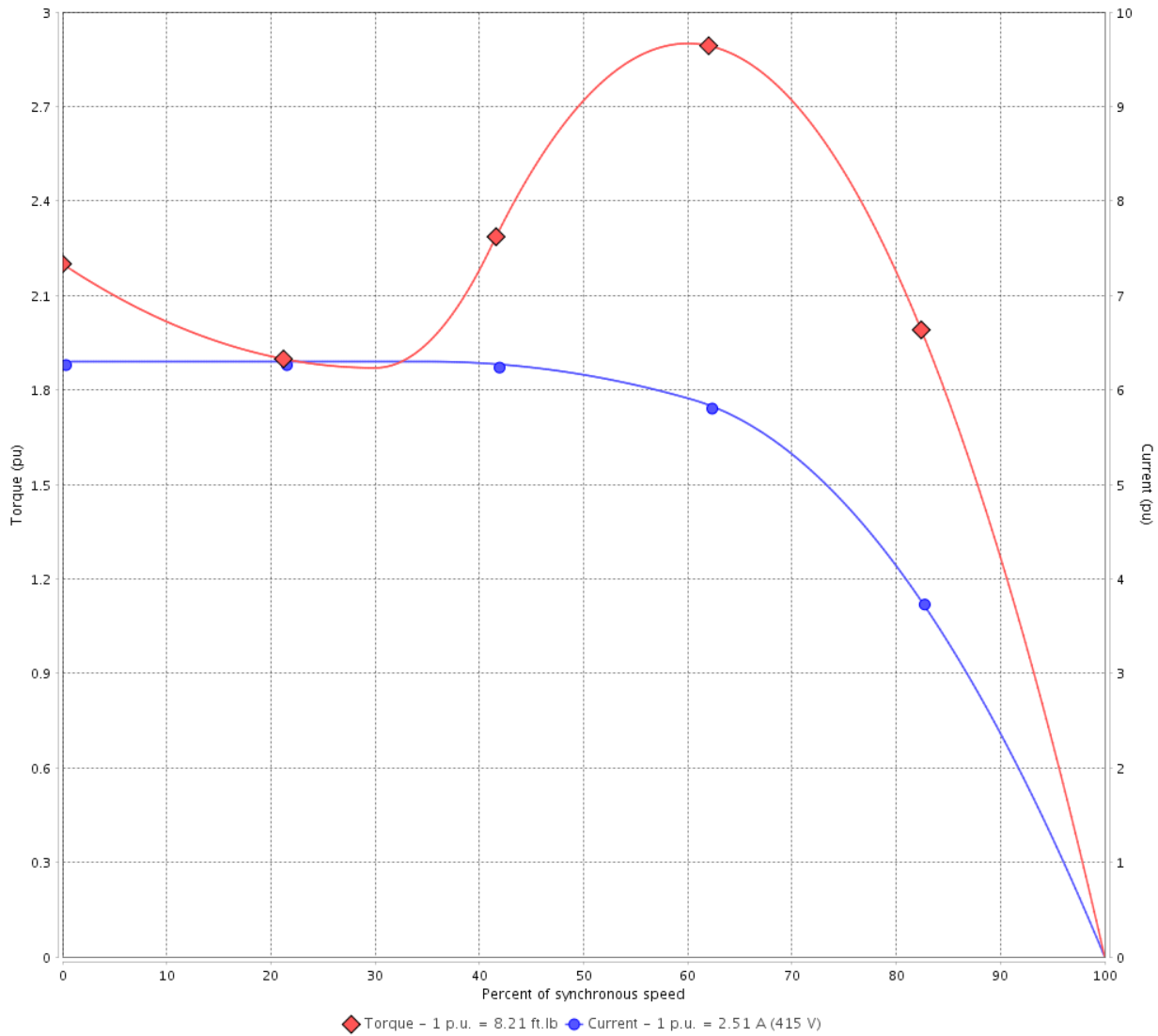
Customer :

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Catalog # : 00152ET3E182T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 6P

Rated current	: 4.73/2.51 A	Moment of inertia (J)	: 0.2800 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 8.21 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 960 rpm	Design	: B

Locked rotor time : 0s (cold) 0s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 16	Revision
Checked by				
Date	12/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

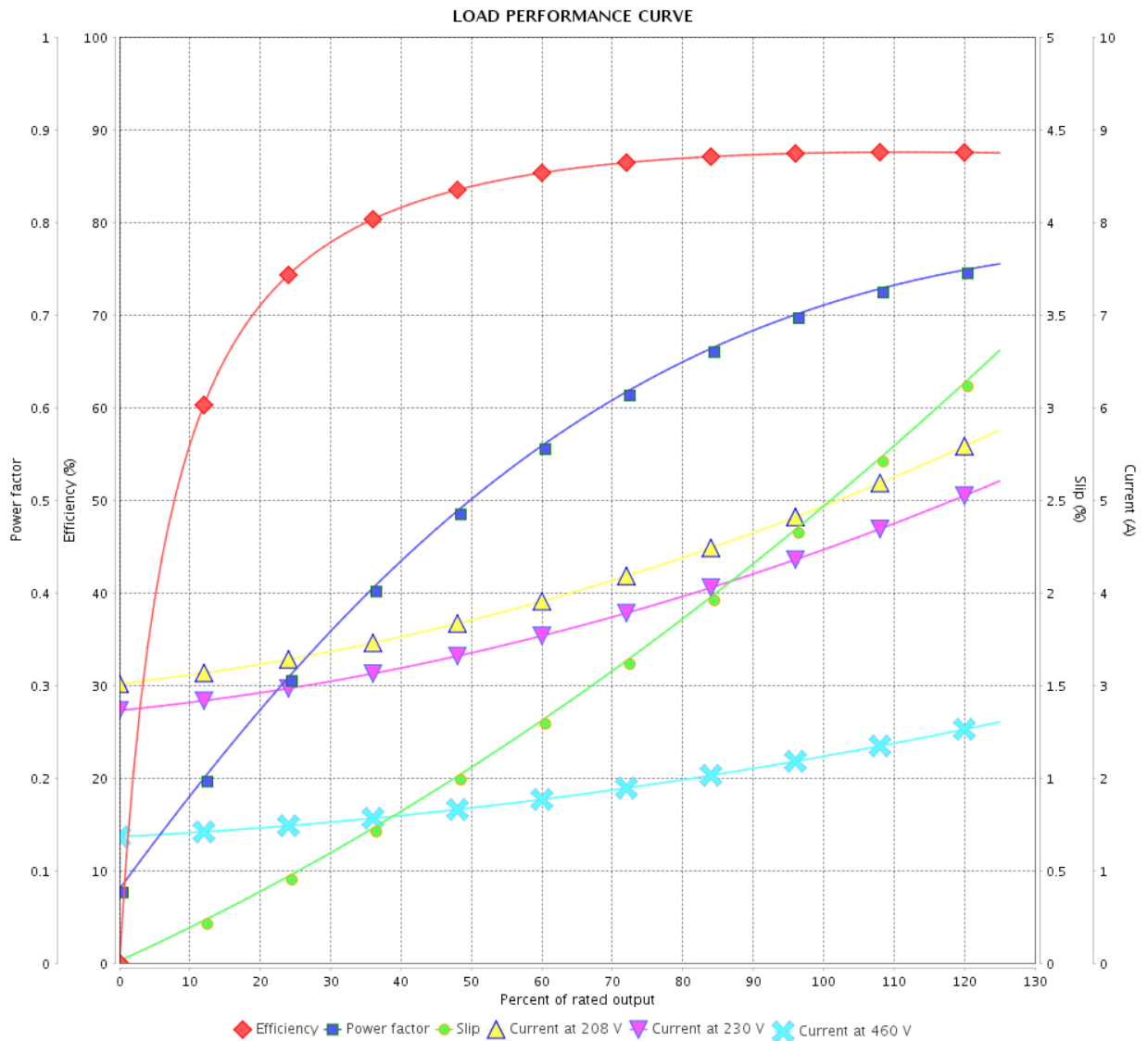


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Performed by			Page	Revision
Checked by				
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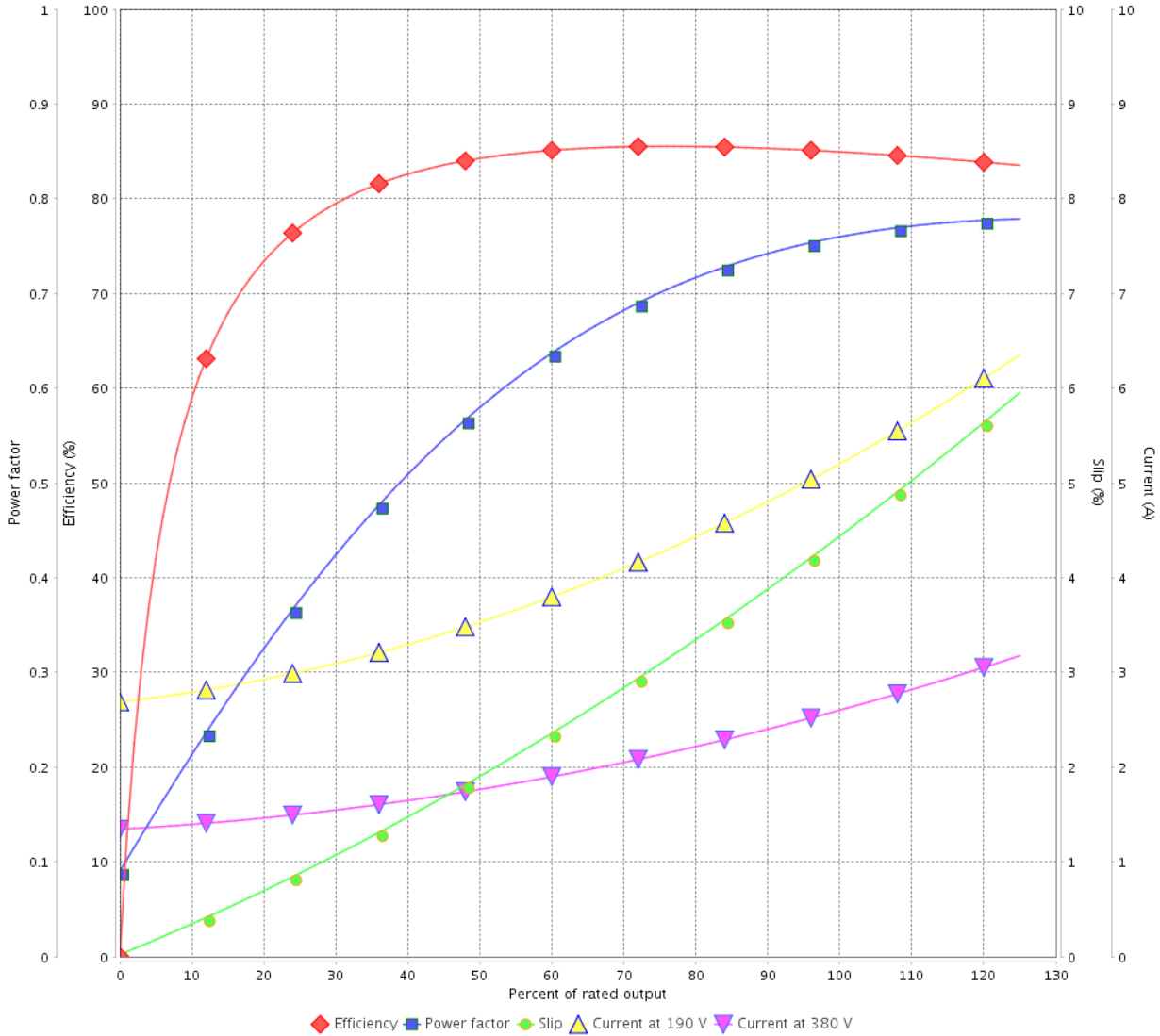
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 Breakdown torque : 260 %
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 Insulation class : F
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 16	Revision
Checked by				
Date	12/04/2022			

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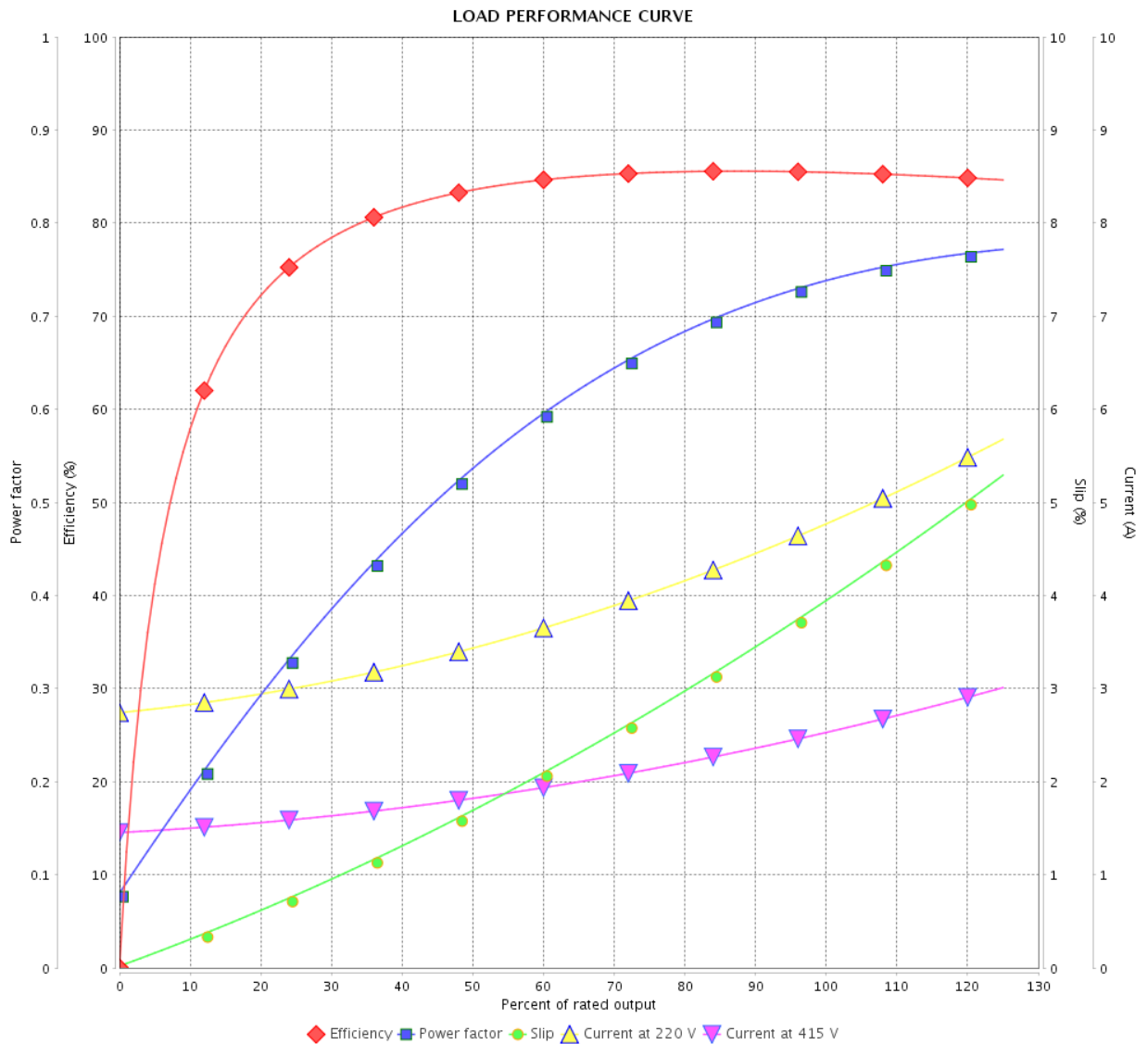


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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			7 / 16	
Date	12/04/2022			

THERMAL LIMIT CURVE

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Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1170 rpm	Design	: B

Heating constant

Cooling constant

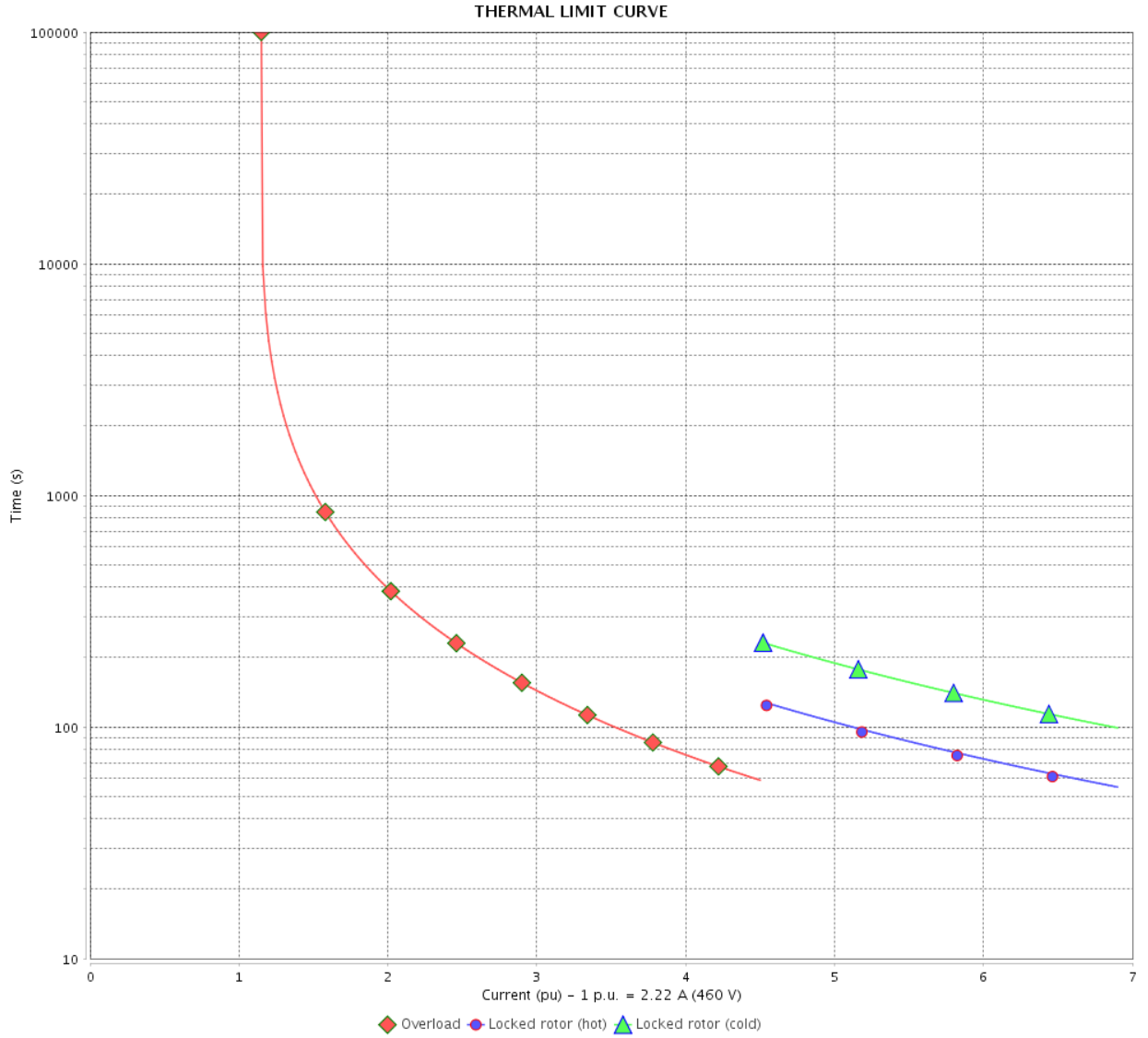
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		8 / 16	

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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date				
			Page	Revision
			9 / 16	

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LRC : 5.7	Duty cycle : Cont.(S1)
Rated torque : 8.25 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.15
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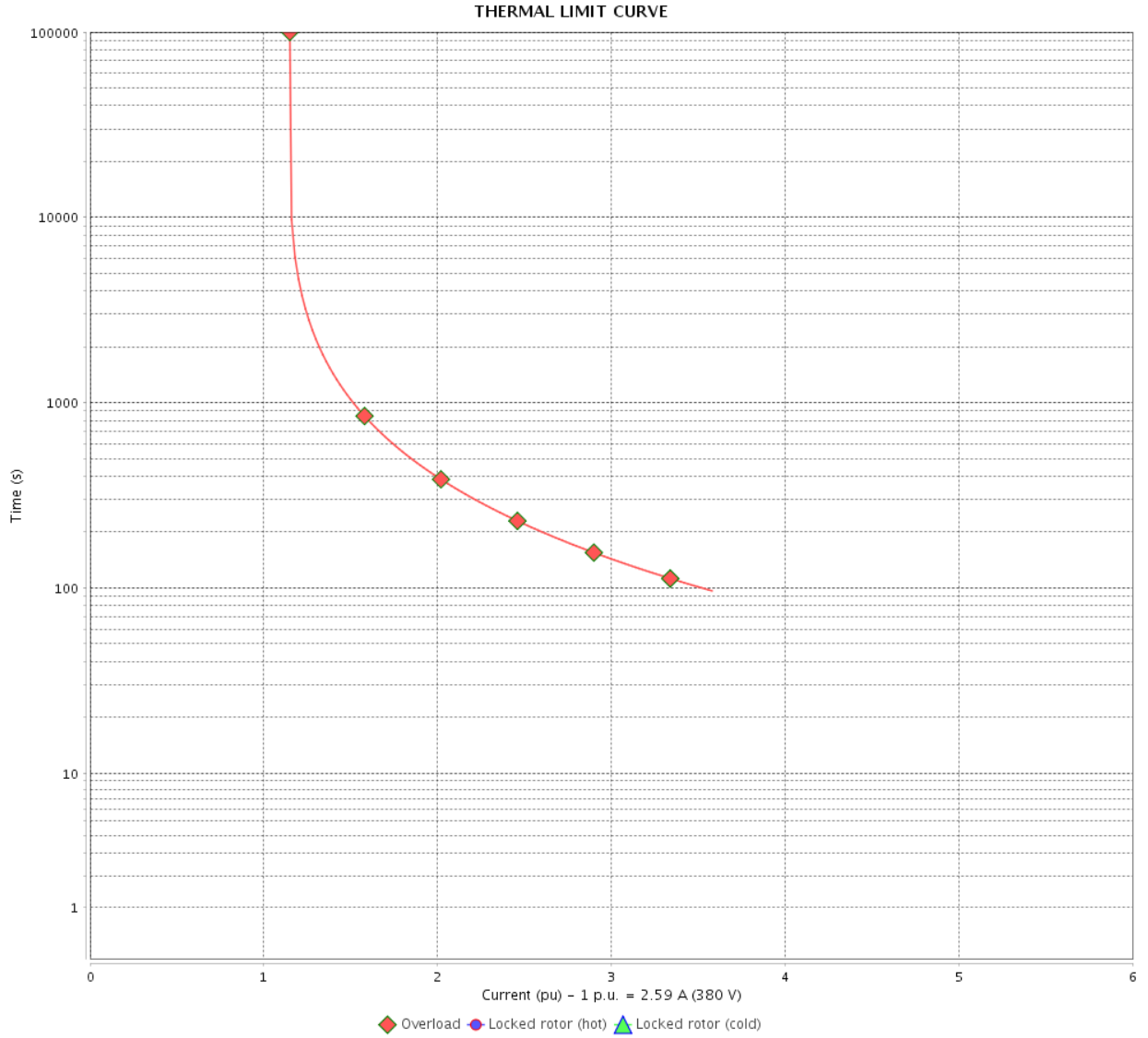
Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 10 / 16	Revision
Checked by				
Date	12/04/2022			

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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		11 / 16		
Date		12/04/2022		

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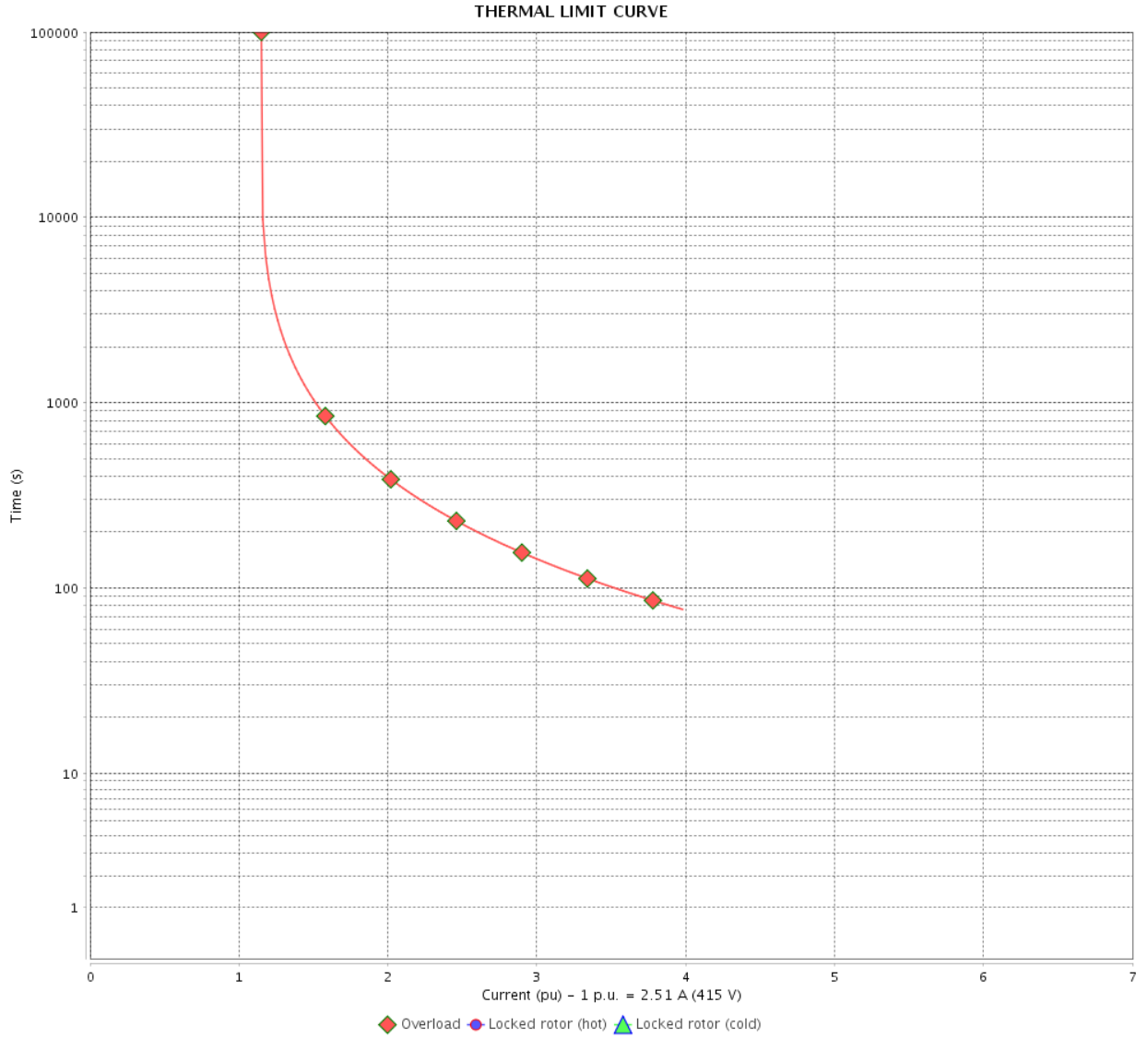
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	12/04/2022		12 / 16	

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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		13 / 16		
Date		12/04/2022		

VFD OPERATION CURVE

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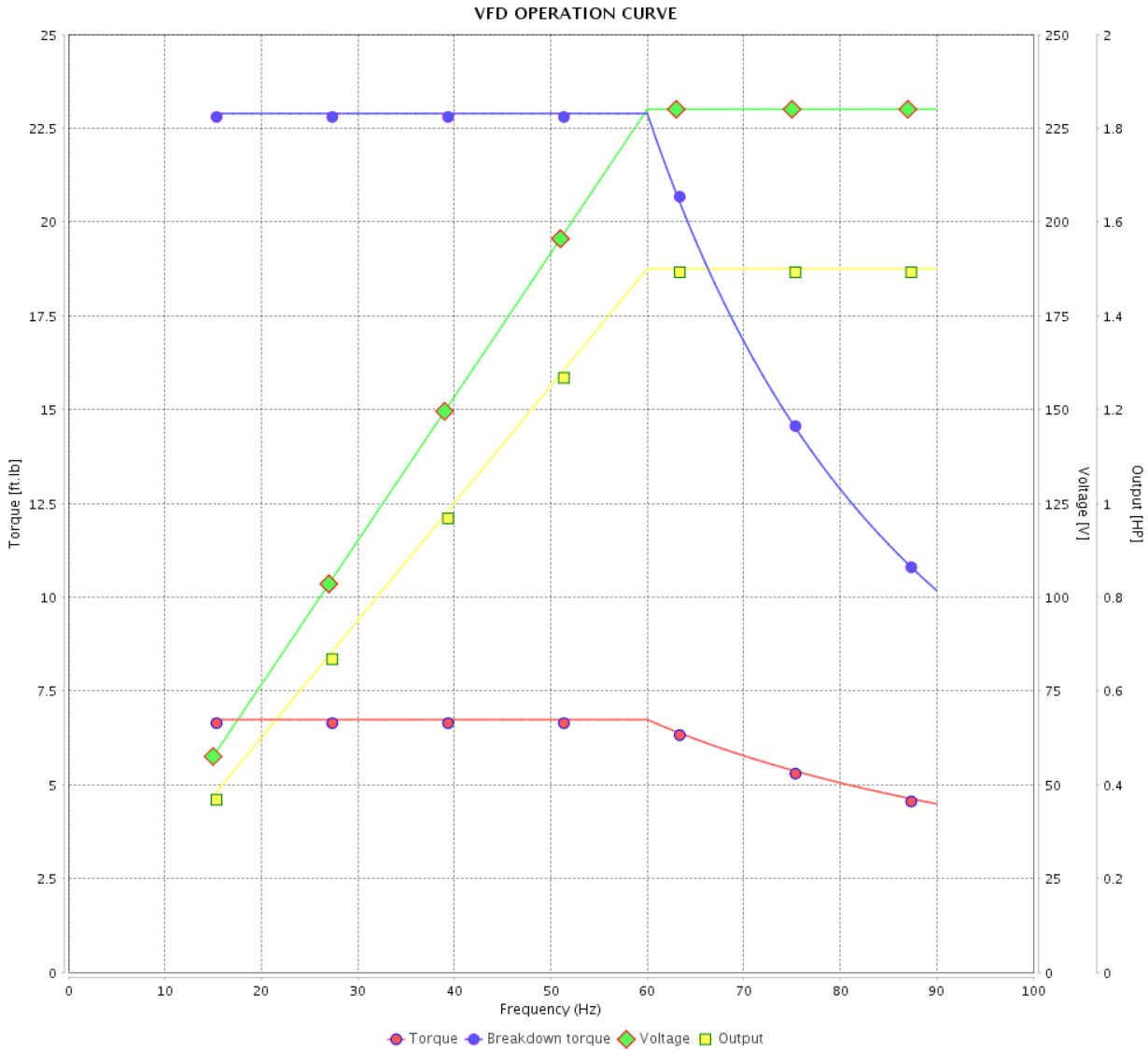


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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 14 / 16	Revision
Checked by				
Date	12/04/2022			

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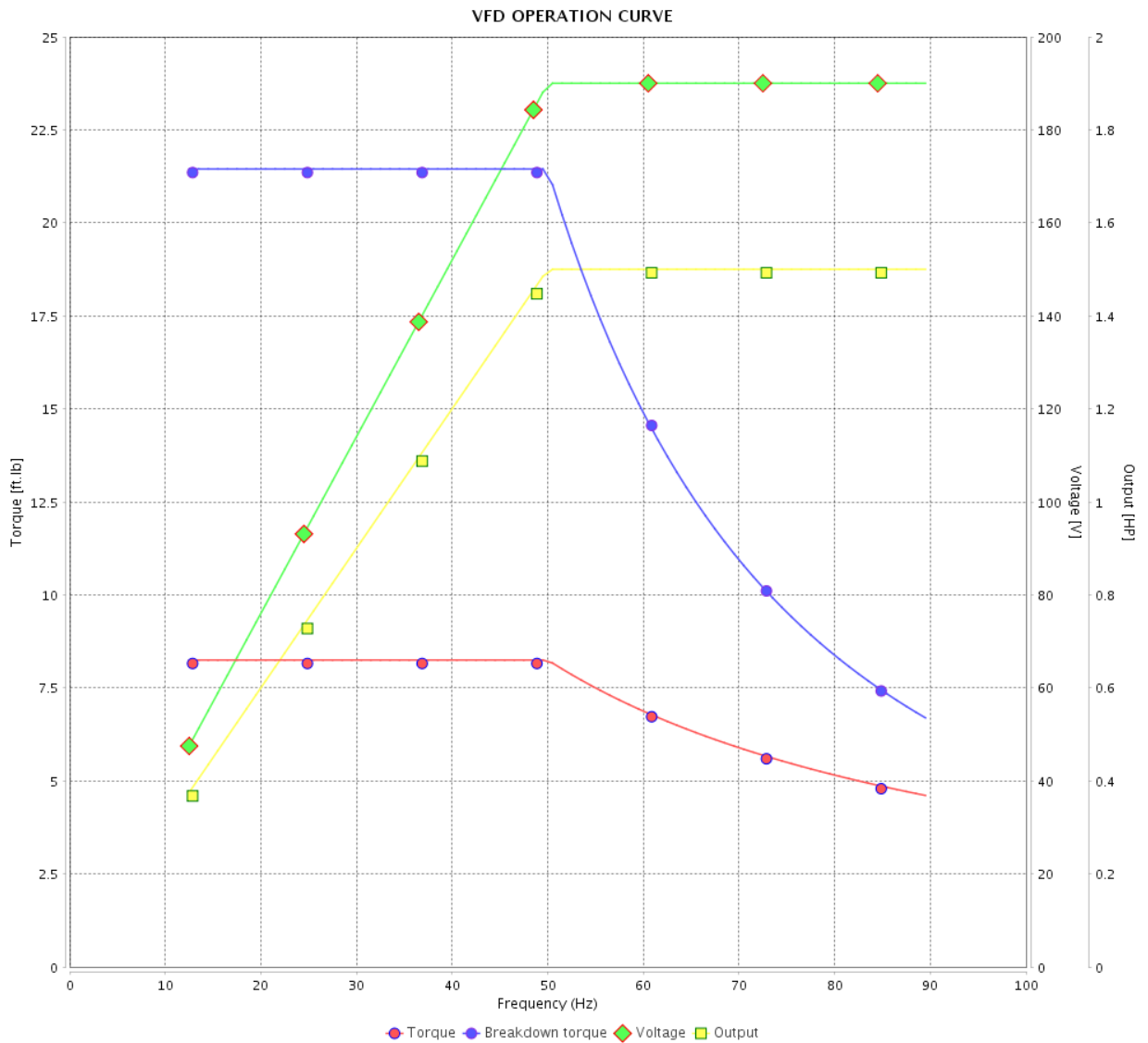


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Performed by			Page 15 / 16	Revision
Checked by				
Date	12/04/2022			

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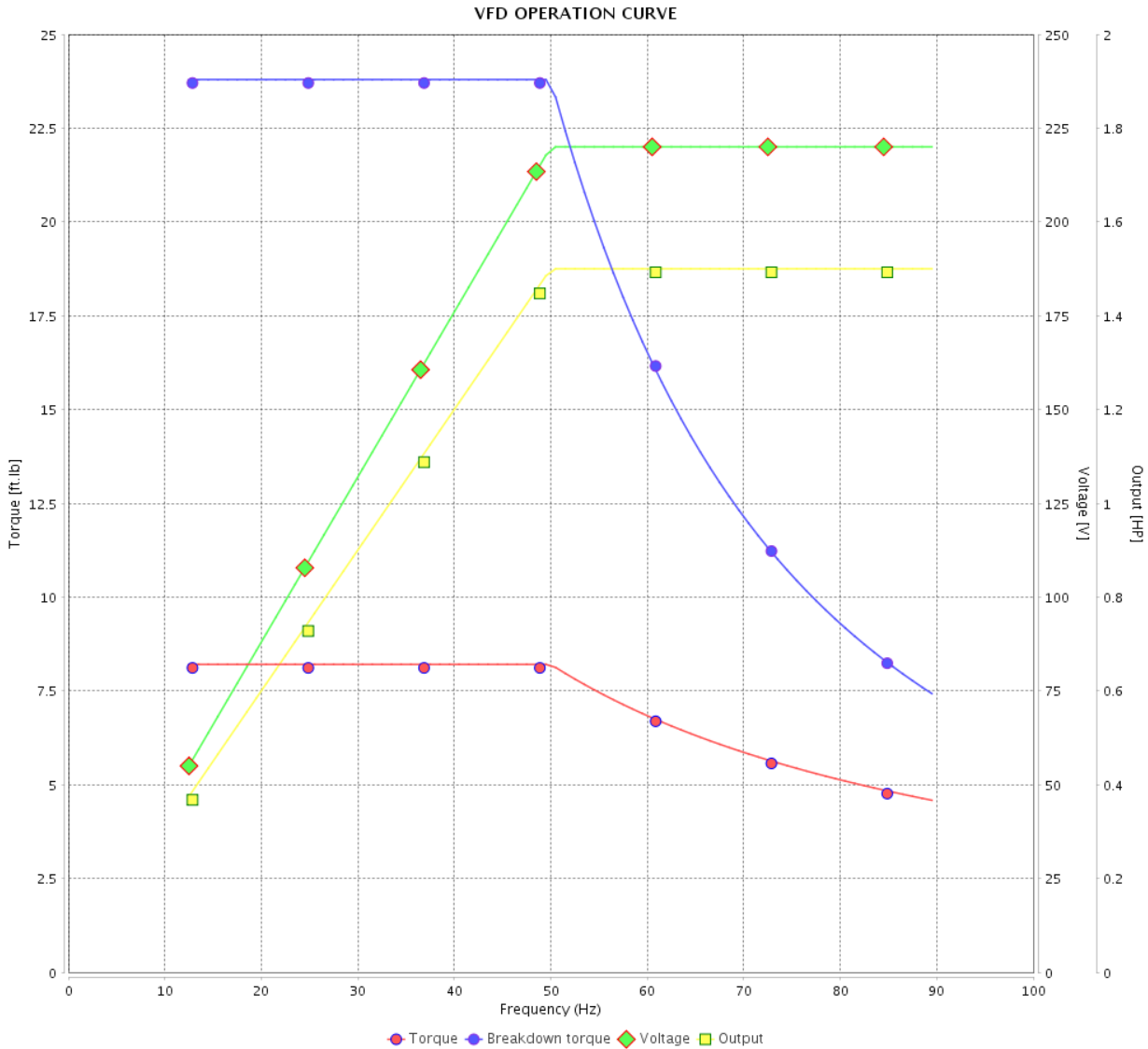


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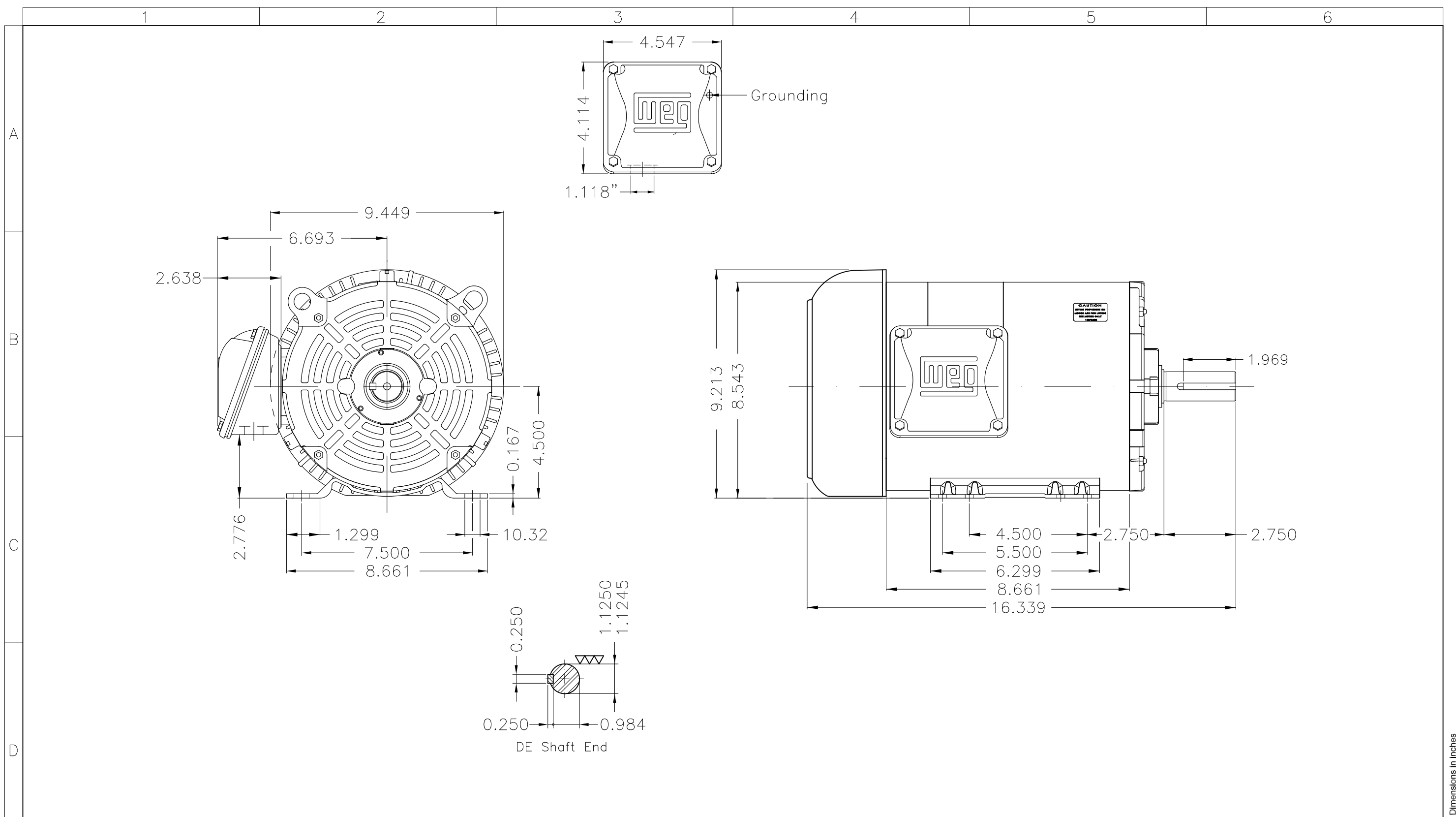



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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 16 / 16	Revision
Checked by				
Date	12/04/2022			



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.					PREVIEW WDD			
CHECKED		FRAME 182/4T IP55 TEFC								
RELEASED										
REL DT.	WMO	Jaragua do Sul	Product Engineering			SHEET	1 / 1			

1.5 HP 06 Poles 60 Hz

Dimensions in inches XME A3



NEMA
Premium



MADE IN MEXICO

MAT: 12675410 CC029A
W01.TE0IC0X0N
MODEL 00152ET3E182T-S
01APR2022 S/N:

For 60Hz: Class I, Zone 2, IIC
Class I, Div.2, Gr. A,B,C,D - T3
Div 2 Inverter Duty (SF1.00)
CT 2:1/VT 1000:1

PH 3	Hz 60	HP 1.5
FR 182/4T		KW 1.1
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 4.44/2.22
INS CL F AT 80K	IP55	SFA 5.11/2.55
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.71
USABLE @ 208V 4.91A		RPM 1170
SF1.00		NEMA
		NOM. EFF 87.5%

ALTERNATE RATING: 1.5HP 50Hz 190-220/380-415V SF1.15
5.18-4.70/2.59-2.49A 955RPM EFF 84.9% (IE4) IEC 60034-1

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT

DE 6206-ZZ	ODE 6205-ZZ	MOBIL POLYREX EM
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T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-BRK RED

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.

