

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Phase
Product code : 12674944
Catalog # : 01536OT3E215T-SG

Frame	: 213/5T	Cooling method	: IC01 - ODP
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	: 131 lb
Design	: B	Moment of inertia (J)	: 0.5512 sq.ft.lb

Output [HP]	15	15	15
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	34.4/17.2	42.0/21.0	37.9/20.1
L. R. Amperes [A]	234/117	227/113	227/121
LRC [A]	6.8x(Code G)	5.4x(Code E)	6.0x(Code F)
No load current [A]	12.3/6.17	12.1/6.04	12.8/6.81
Rated speed [RPM]	3535	2905	2910
Slip [%]	1.81	3.17	3.00
Rated torque [ft.lb]	22.3	27.1	27.1
Locked rotor torque [%]	210	160	180
Breakdown torque [%]	280	200	229
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	14s (cold) 8s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	66.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%	90.1	91.3
	50%	90.2	90.1
	75%	90.2	89.3
	100%	90.2	87.8
Power Factor	25%	0.50	0.52
	50%	0.77	0.79
	75%	0.86	0.87
	100%	0.89	0.90

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads	
Bearing type	: 6208 ZZ	6206 ZZ	Max. traction	: 285 lb
Sealing	: Without	Without	Max. compression	: 417 lb
	Bearing Seal	Bearing Seal		
Lubrication interval	: -	-		
Lubricant amount	: -	-		
Lubricant type	: Mobil Polyrex EM			

Notes
USABLE @208V 38.0A SF 1.00 SFA 38.0A

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

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

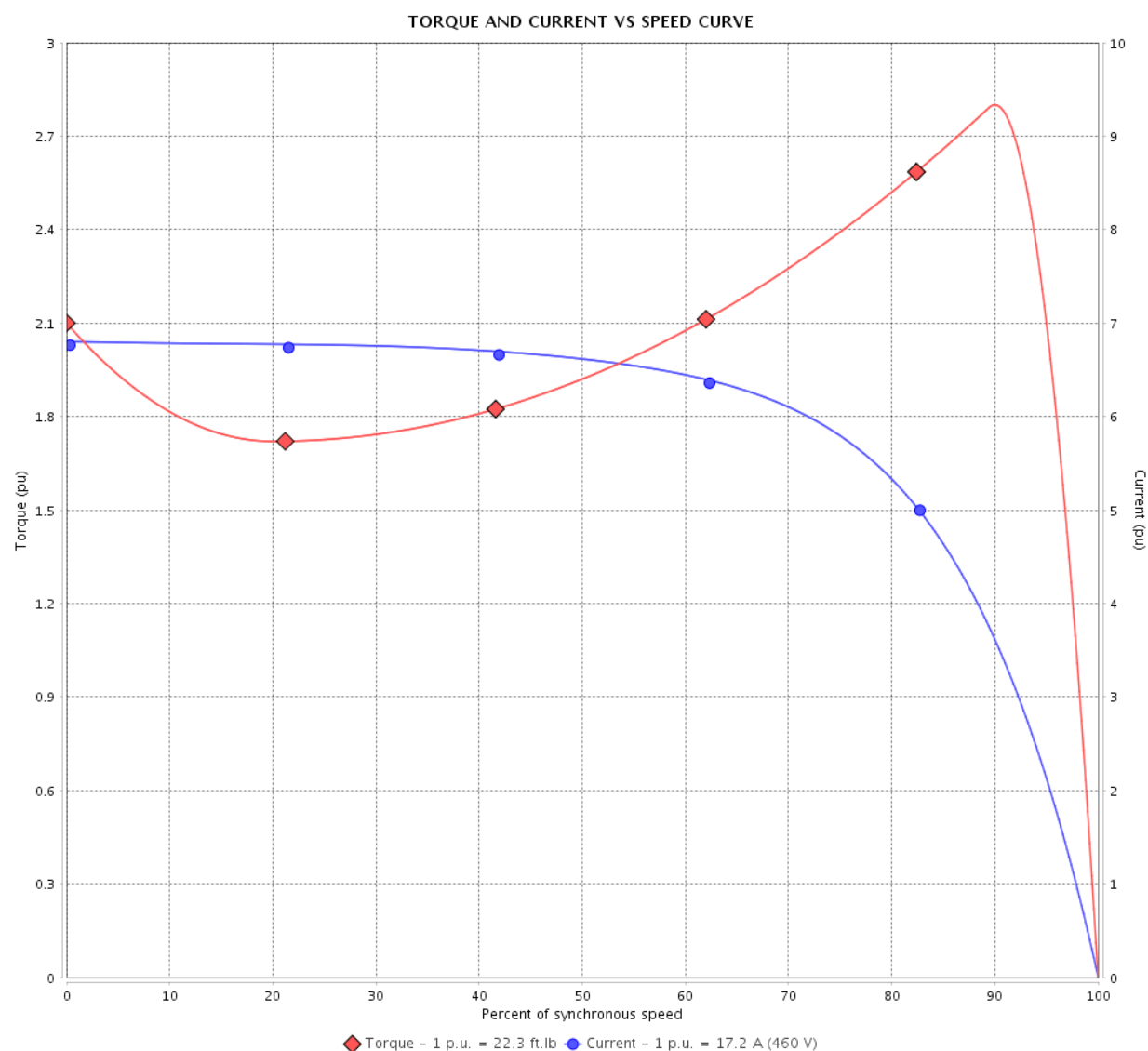


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674944

Catalog # : 01536OT3E215T-SG



Performance : 230/460 V 60 Hz 2P

Rated current : 34.4/17.2 A
 LRC : 6.8
 Rated torque : 22.3 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 14s (cold) 8s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / Revision		
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

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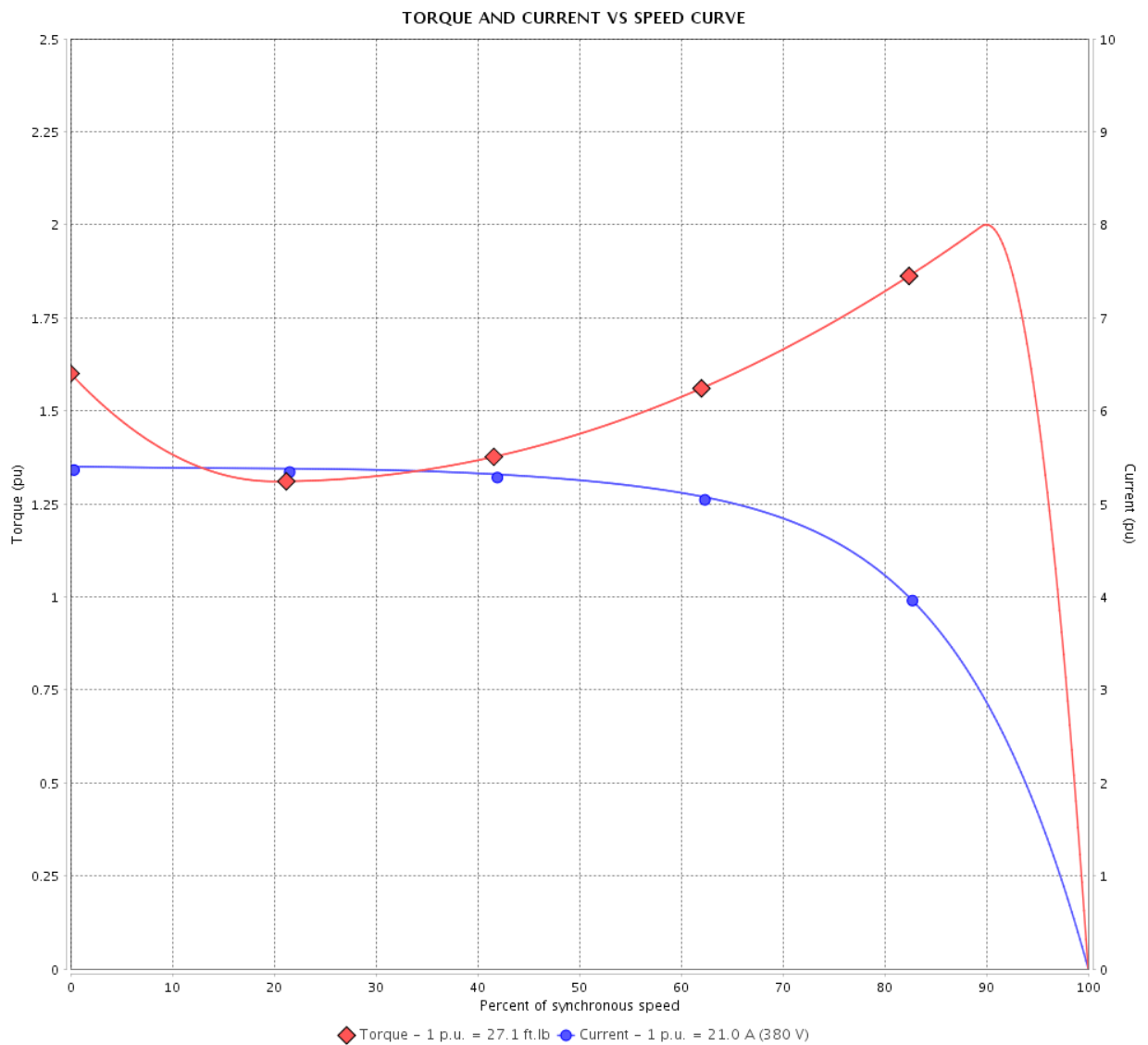


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Product line : NEMA Premium Efficiency Three-Phase

Product code : 12674944

Catalog # : 01536OT3E215T-SG



Performance : 190/380 V 50 Hz 2P

Rated current : 42.0/21.0 A
 LRC : 5.4
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / Revision		
Checked by				
Date	13/04/2022			

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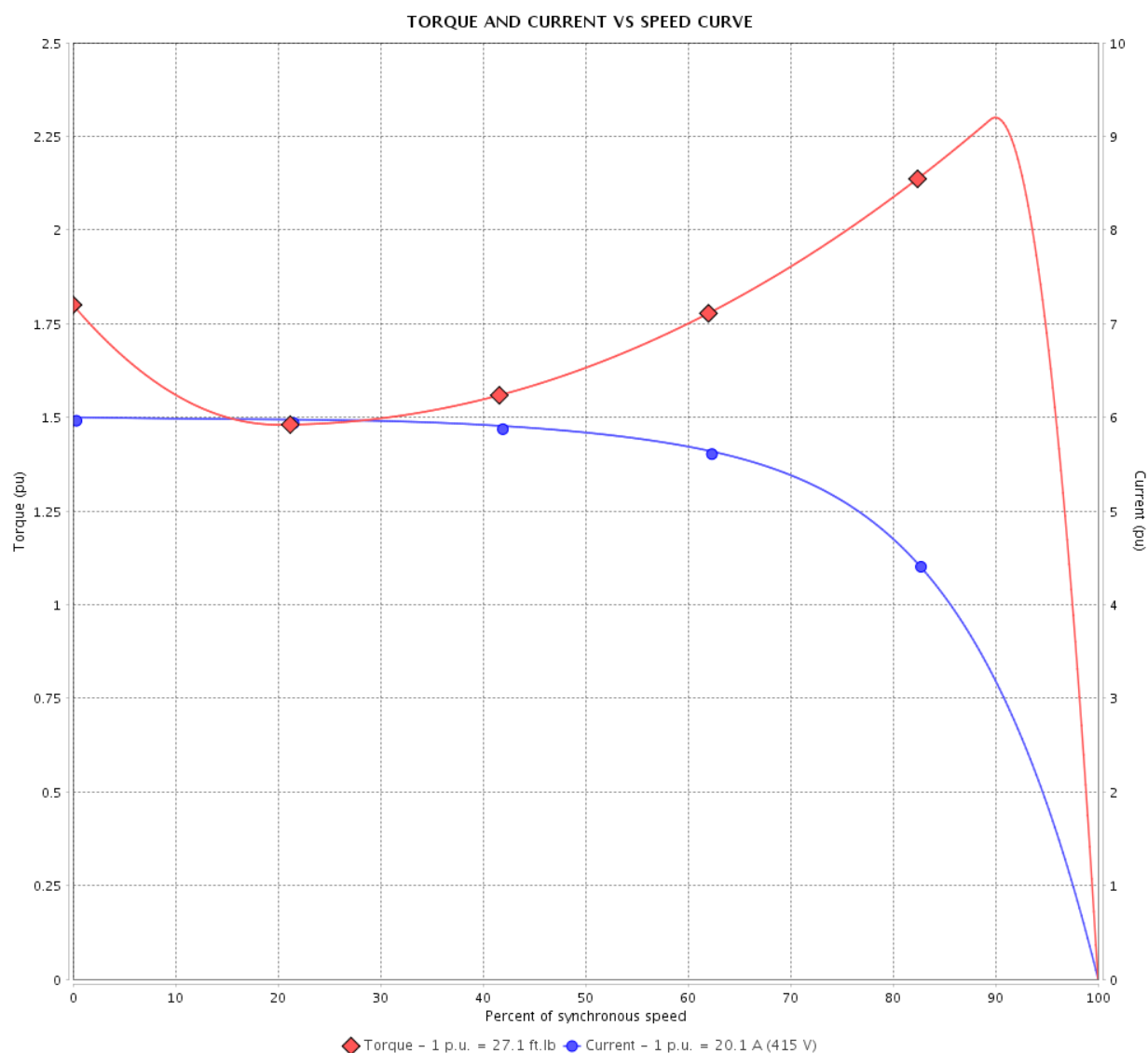
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12674944

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 LRC : 6.0
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 2910 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 4 / Revision		
Checked by				
Date	13/04/2022			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

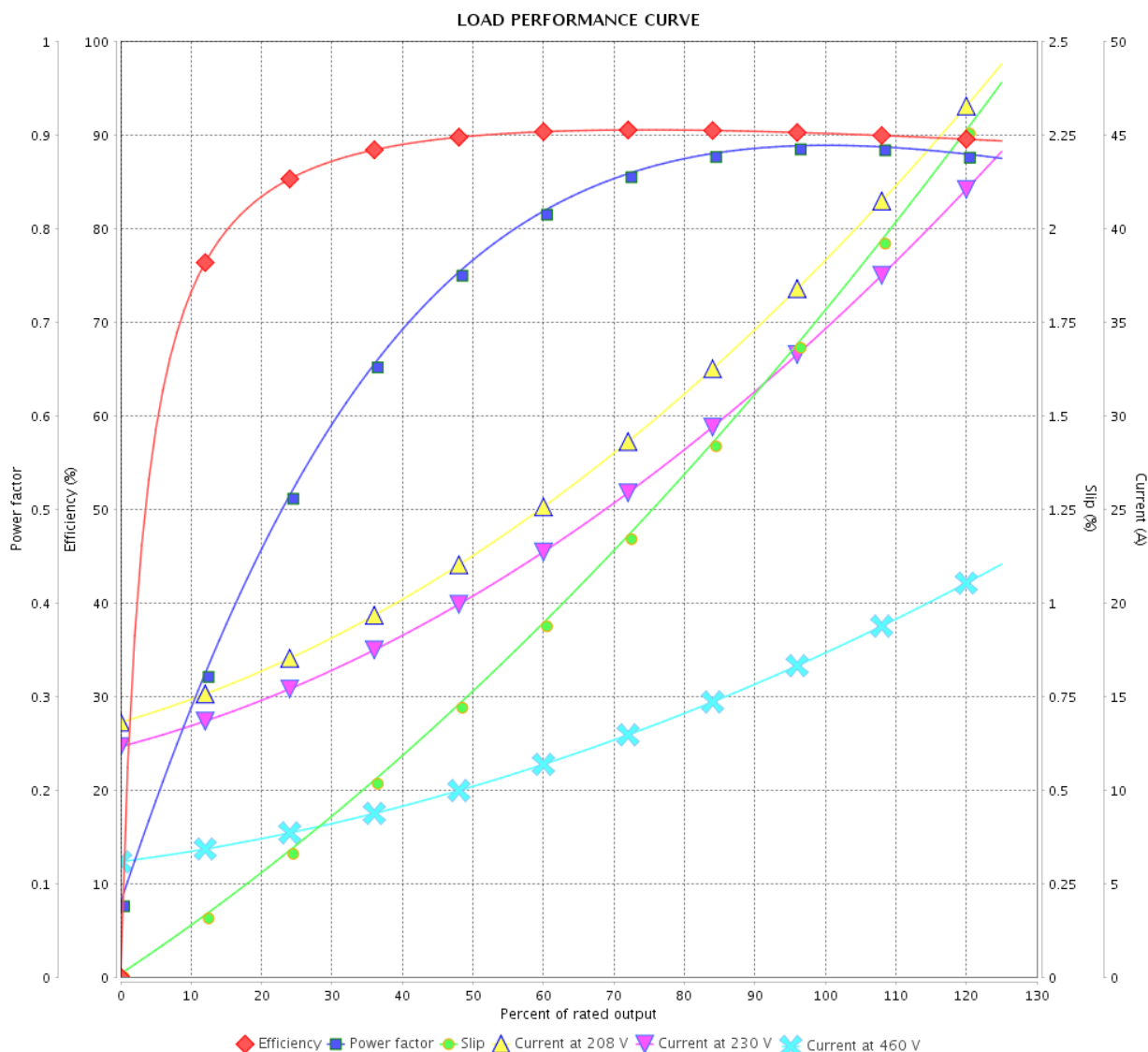


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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / Revision		
Checked by				
Date	13/04/2022			

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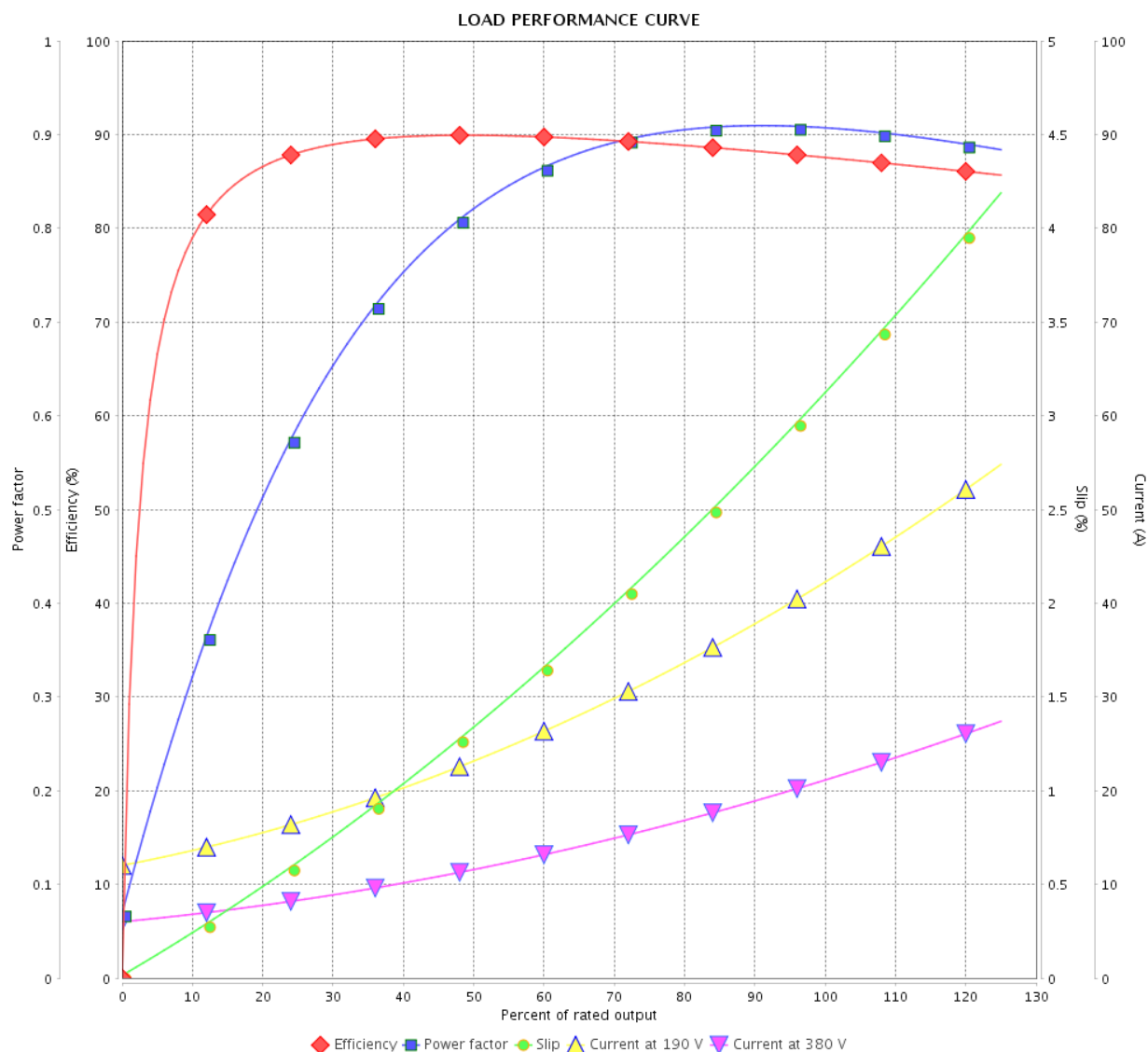


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 /	
Date					

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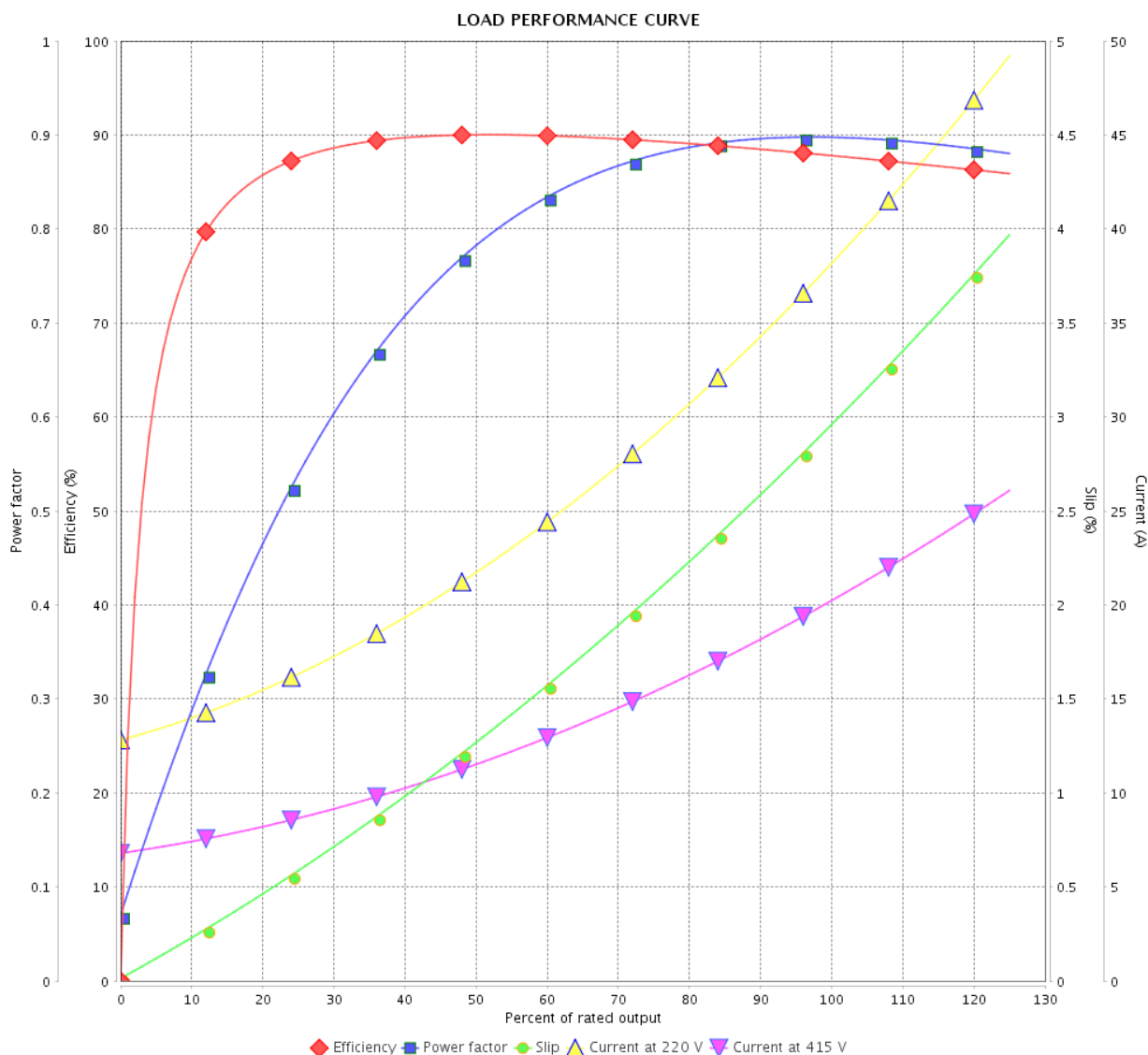


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 Duty cycle : Cont.(S1)
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Rev.	Changes Summary		Performed	Checked	Date
Performed by		Page 7 / Revision			
Checked by					
Date	13/04/2022				

THERMAL LIMIT CURVE

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Duty cycle : Cont.(S1)

Insulation class : F

Service factor : 1.15

Temperature rise : 80 K

Design : B

Heating constant

Cooling constant

Rev.

Changes Summary

Performed

Checked

Date

Performed by

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Date

13/04/2022

Page

8 /

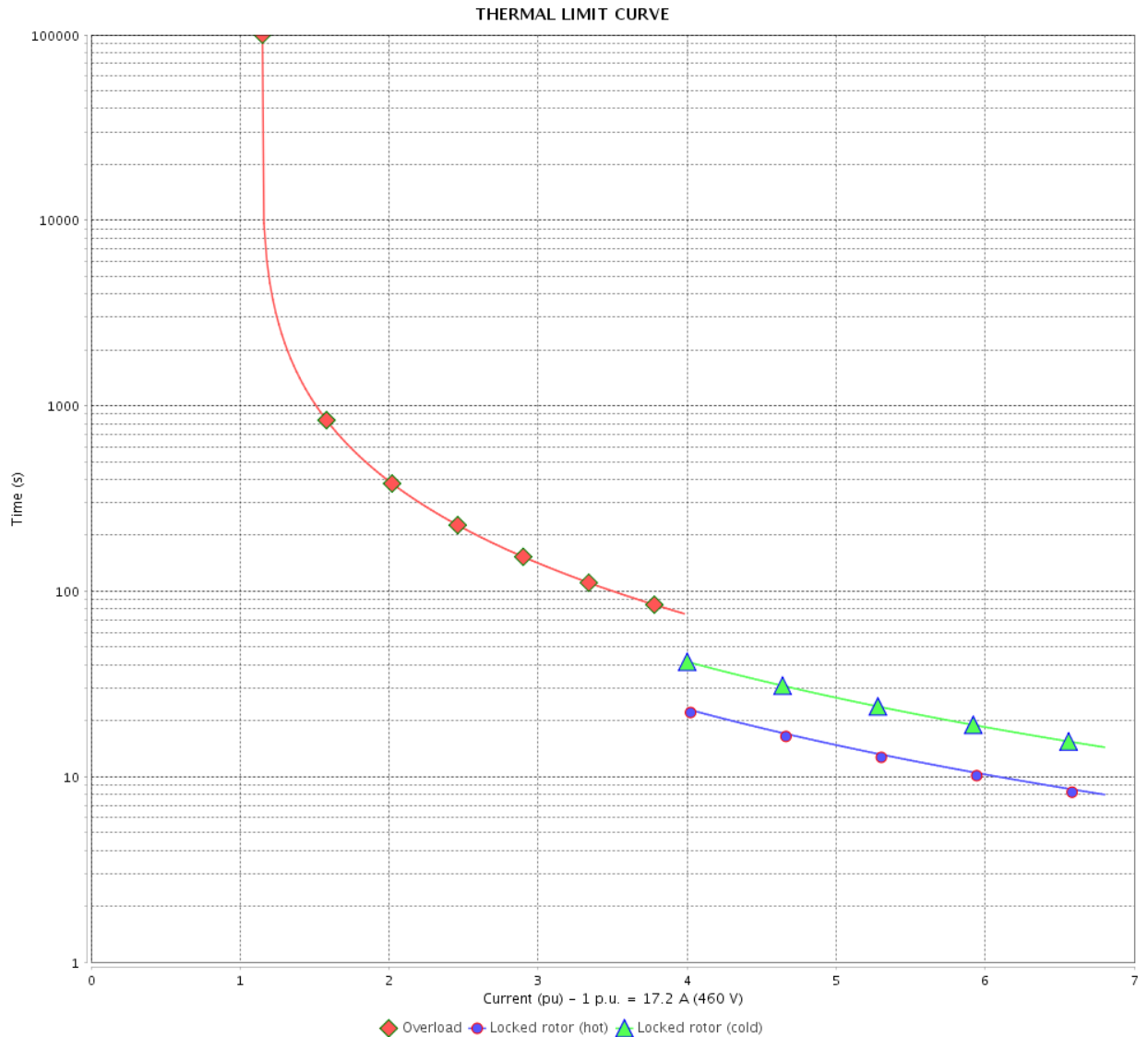
Revision

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Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 9 /		Revision
Checked by					
Date	13/04/2022				

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Insulation class : F

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Design : B

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Changes Summary

Performed

Checked

Date

Performed by

Checked by

Date

13/04/2022

Page

10 /

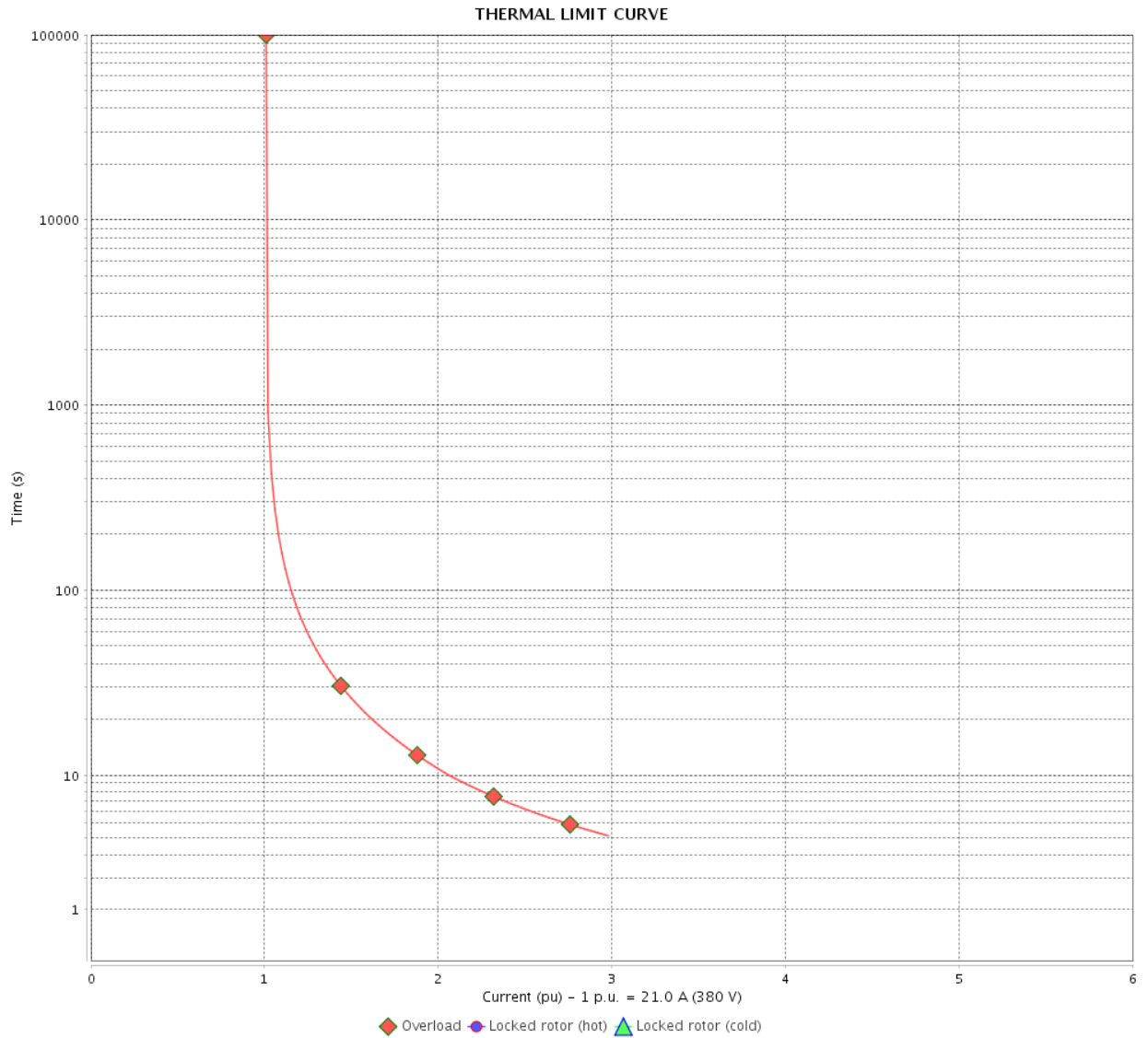
Revision

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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page Revision		
Checked by				
Date	13/04/2022			
		11 /		

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Changes Summary

Performed

Checked

Date

Performed by

Checked by

Date

13/04/2022

Page

12 /

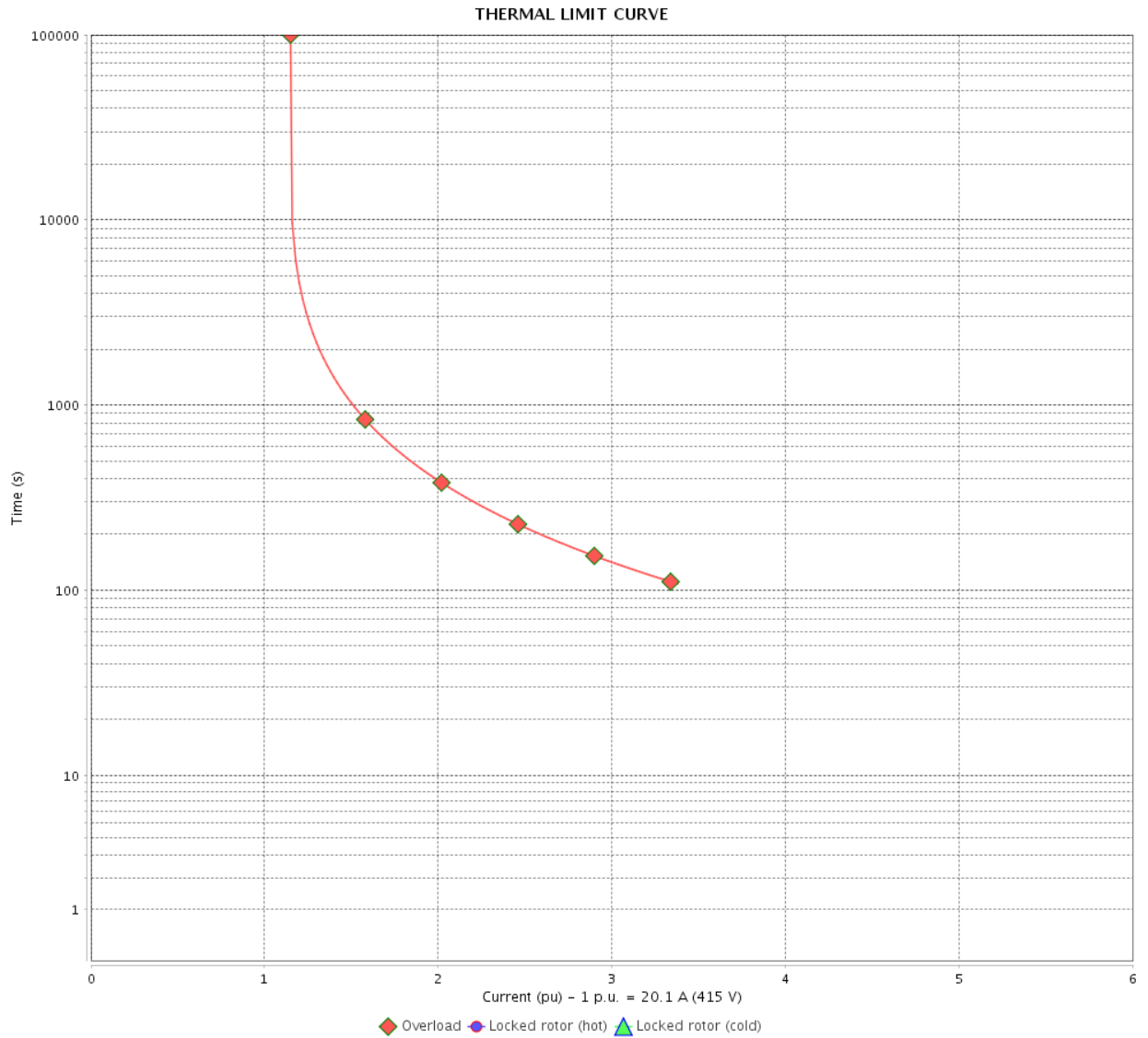
Revision

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

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

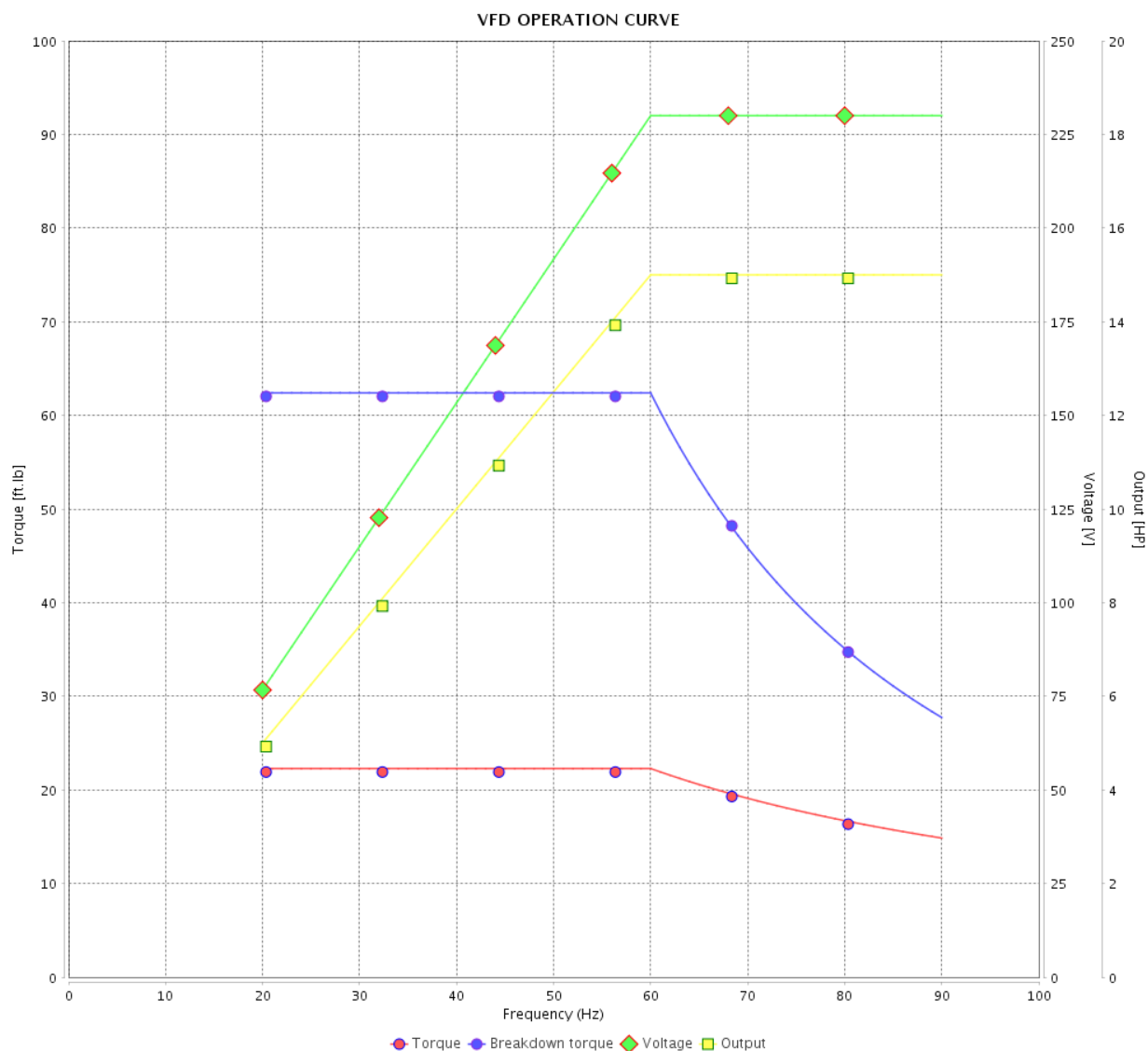


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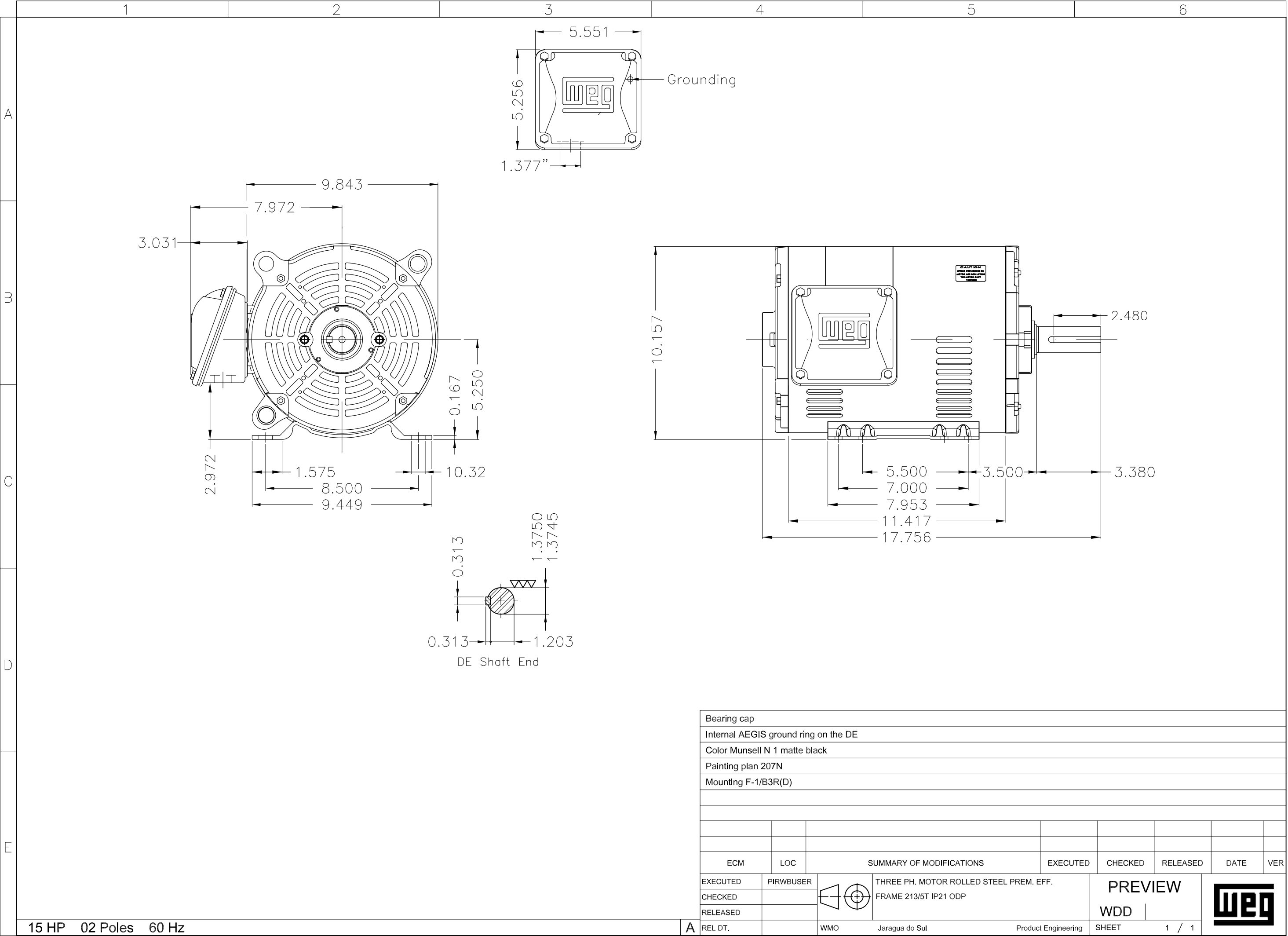


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Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				14 /	
Date					





NEMA
Premium



MADE IN MEXICO

MAT: 12674944 CC029A

W01.T00IC0X0N

MODEL 015360T3E215T-SG

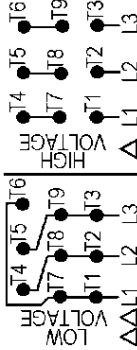
09FEB2022 S/N:

PH 3	Hz 60	HP 15
FR 213/5T		KW 11
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l		A 34.4/17.2
INS CL F AT 80K		SFA 39.6/19.8
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE G	PF 0.89
USABLE @ 208V 38.0A		RPM 3535
SF1.00		NEMA NOM. EFF 90.2%

ALTERNATE RATING: 15HP 50Hz 190-220/380-415V SF1.00
42.0-38.8/21.0-19.5A 2905RPM EFF 87.6% (IE1) IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 3:1 CT

DE 6208-ZZ	ODE 6206-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.

