DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S

Frame	: 213/5JP	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[3]	: 118 lb
Design	: B	Moment of inertia (J)	: 0.8104 sq.ft.lb

Output [HP]		3	3	3
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		8.32/4.16	9.88/4.94	9.00/4.77
L. R. Amperes [A]		49.1/24.5	45.4/22.7	45.9/24.3
LRC [A]		5.9x(Code H)	4.6x(Code E)	5.1x(Code G)
No load current [A]		4.58/2.29	4.52/2.26	4.60/2.44
Rated speed [RPM]		1175	965	970
Slip [%]		2.08	3.50	3.00
Rated torque [ft.lb]		13.4	16.3	16.2
Locked rotor torque [%]		210	160	180
Breakdown torque [%]		260	190	220
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		70s (cold) 39s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%	85.4	86.9	85.9
	50%	86.5	85.8	85.4
	75%	87.5	86.1	86.3
	100%	88.5	84.6	85.4
Power Factor	25%	0.33	0.38	0.35
	50%	0.56	0.63	0.59
	75%	0.68	0.75	0.72
	100%	0.75	0.80	0.78

		Drive end	Non drive end
Bearing type	:	6209 ZZ	6206 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 142 lb
Max. compression : 260 lb

Notes
USABLE @208V 9.20A SF 1.00 SFA 9.20A

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

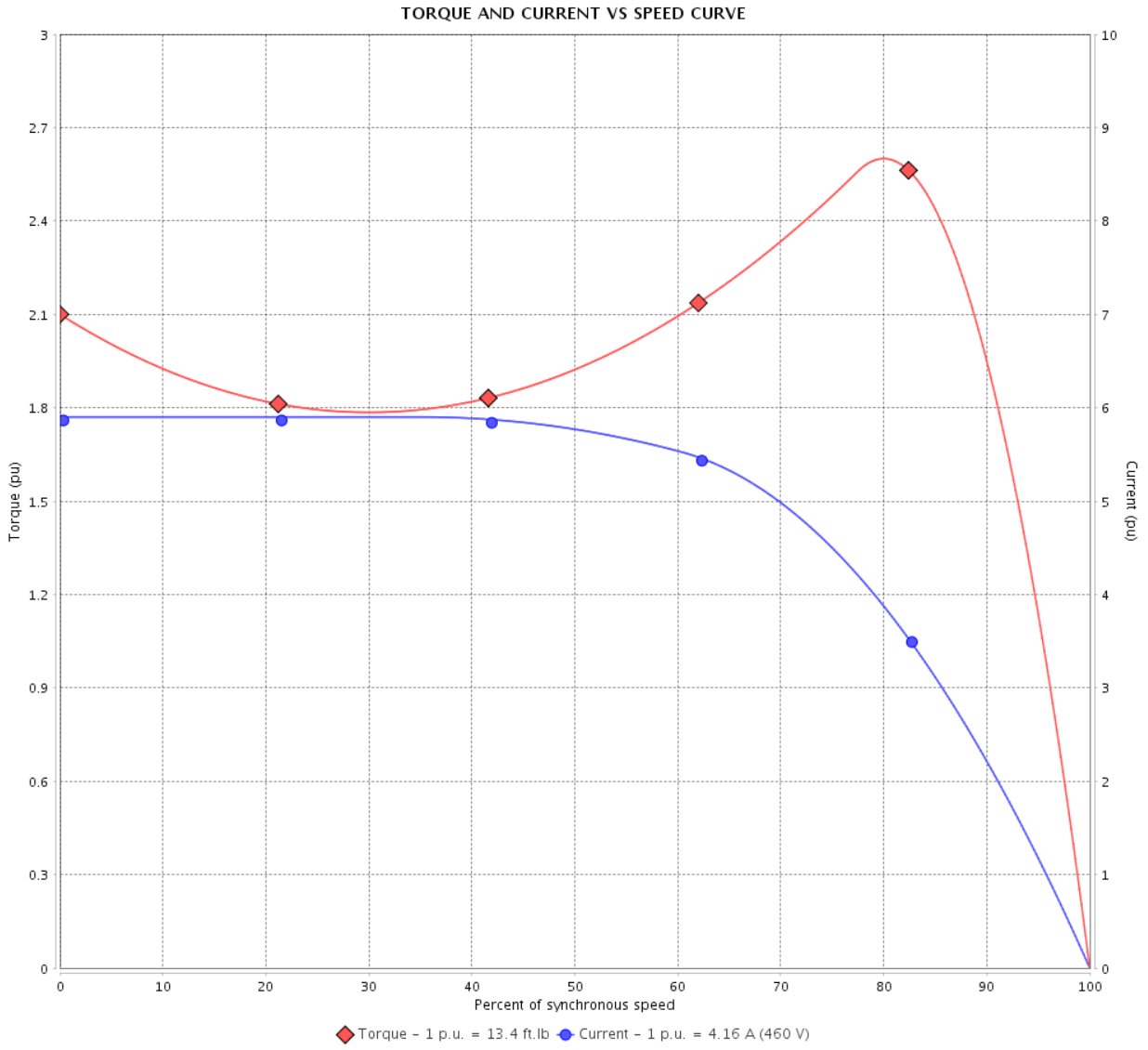
Performed by				
Checked by			Page	Revision
Date	14/04/2022		1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 230/460 V 60 Hz 6P

Rated current	: 8.32/4.16 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Locked rotor time	: 70s (cold) 39s (hot)

Rev.	Changes Summary	Performed	Checked	Date

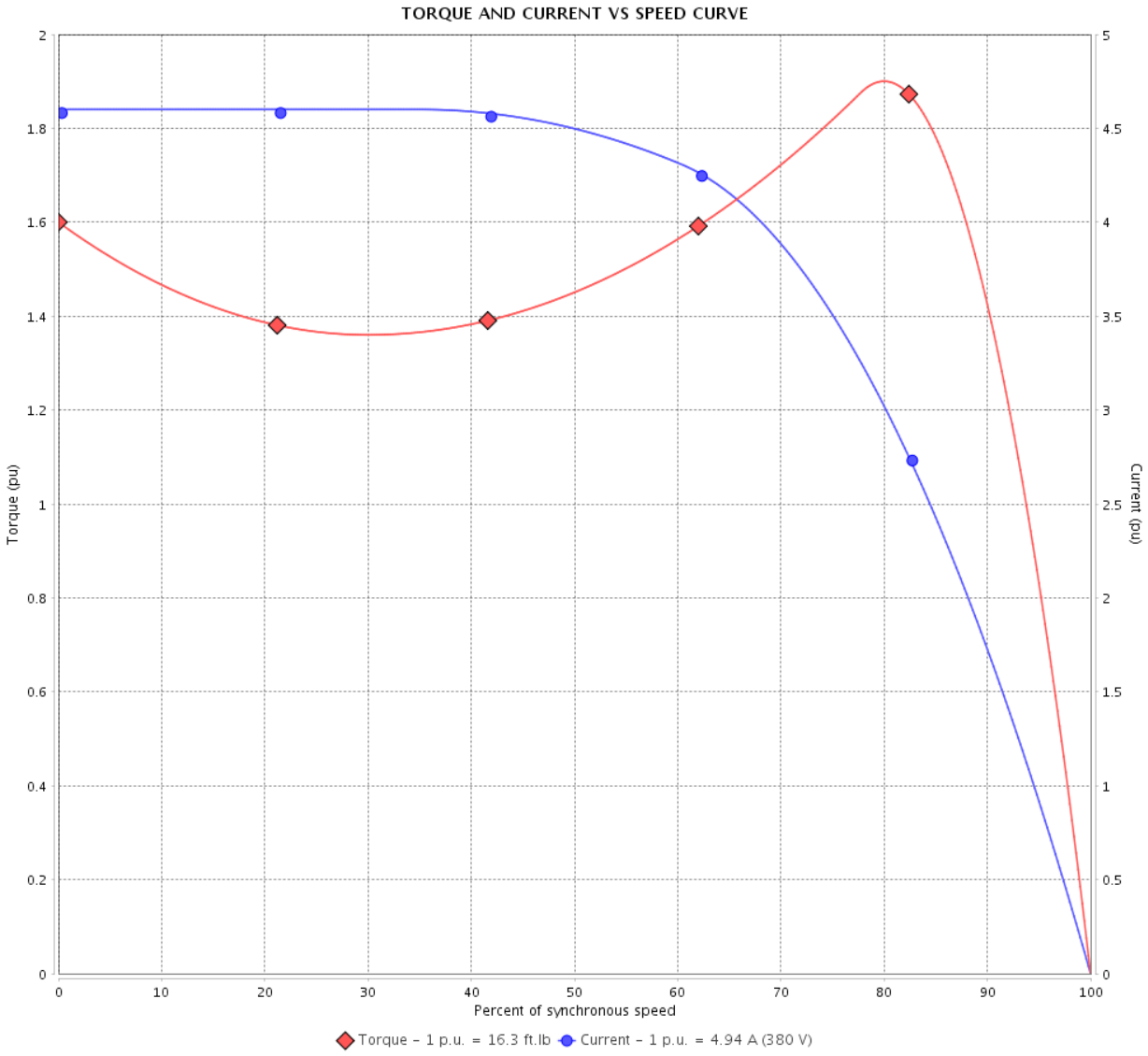
Performed by				
Checked by			Page	Revision
Date	14/04/2022		2 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 190/380 V 50 Hz 6P

Rated current	: 9.88/4.94 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date

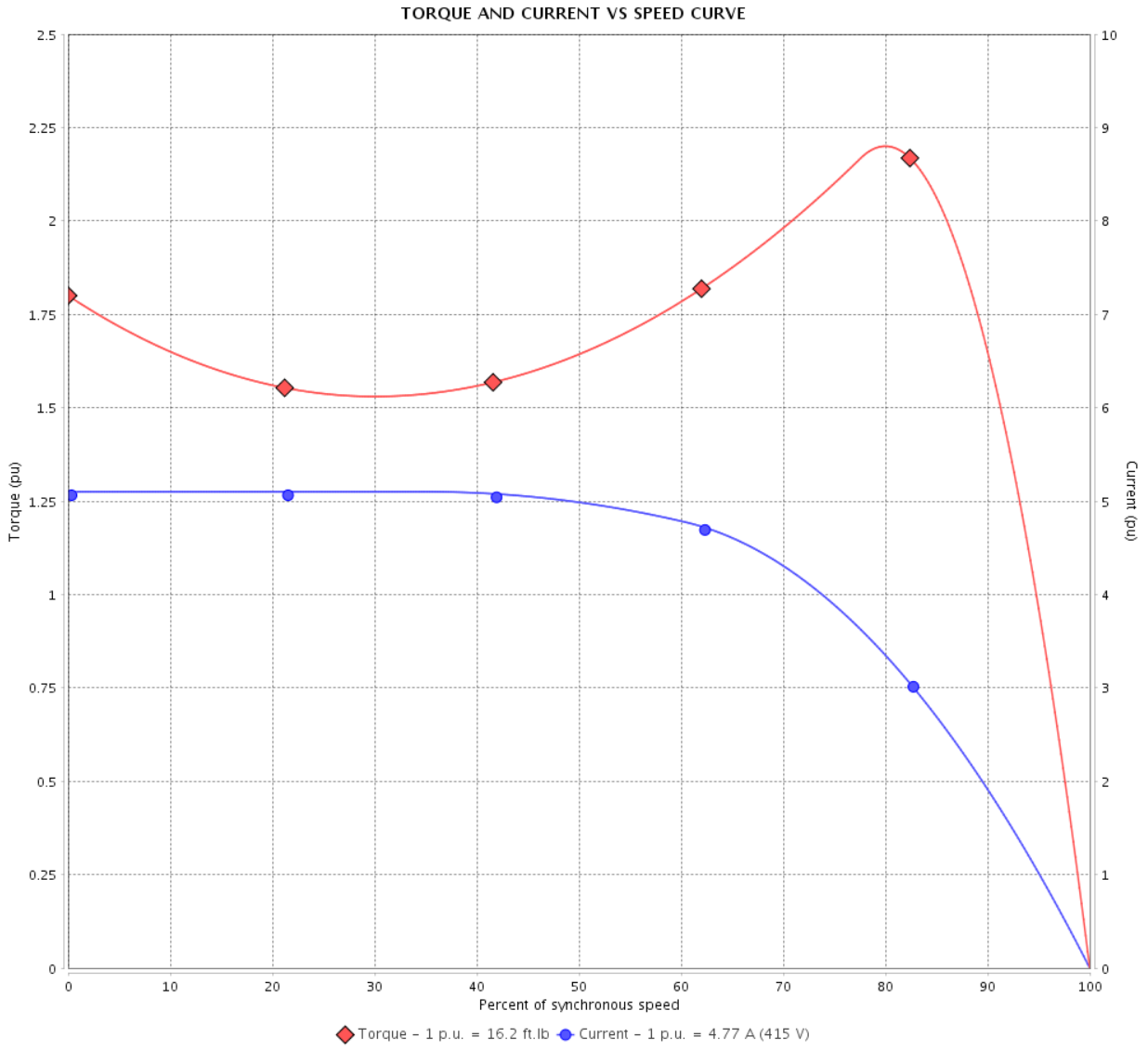
Performed by				
Checked by			Page	Revision
Date	14/04/2022		3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 220/415 V 50 Hz 6P

Rated current	: 9.00/4.77 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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

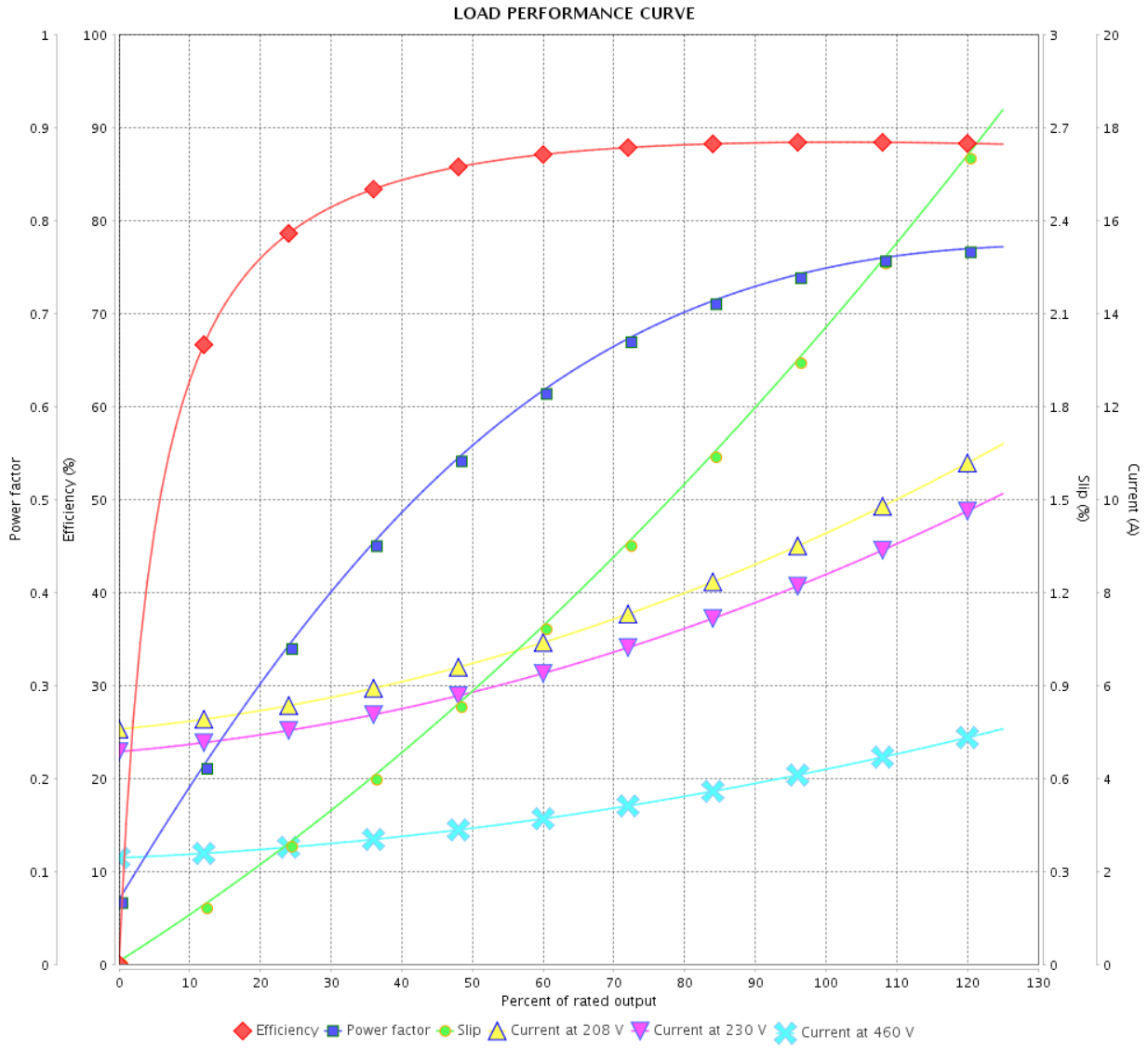
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 8.32/4.16 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

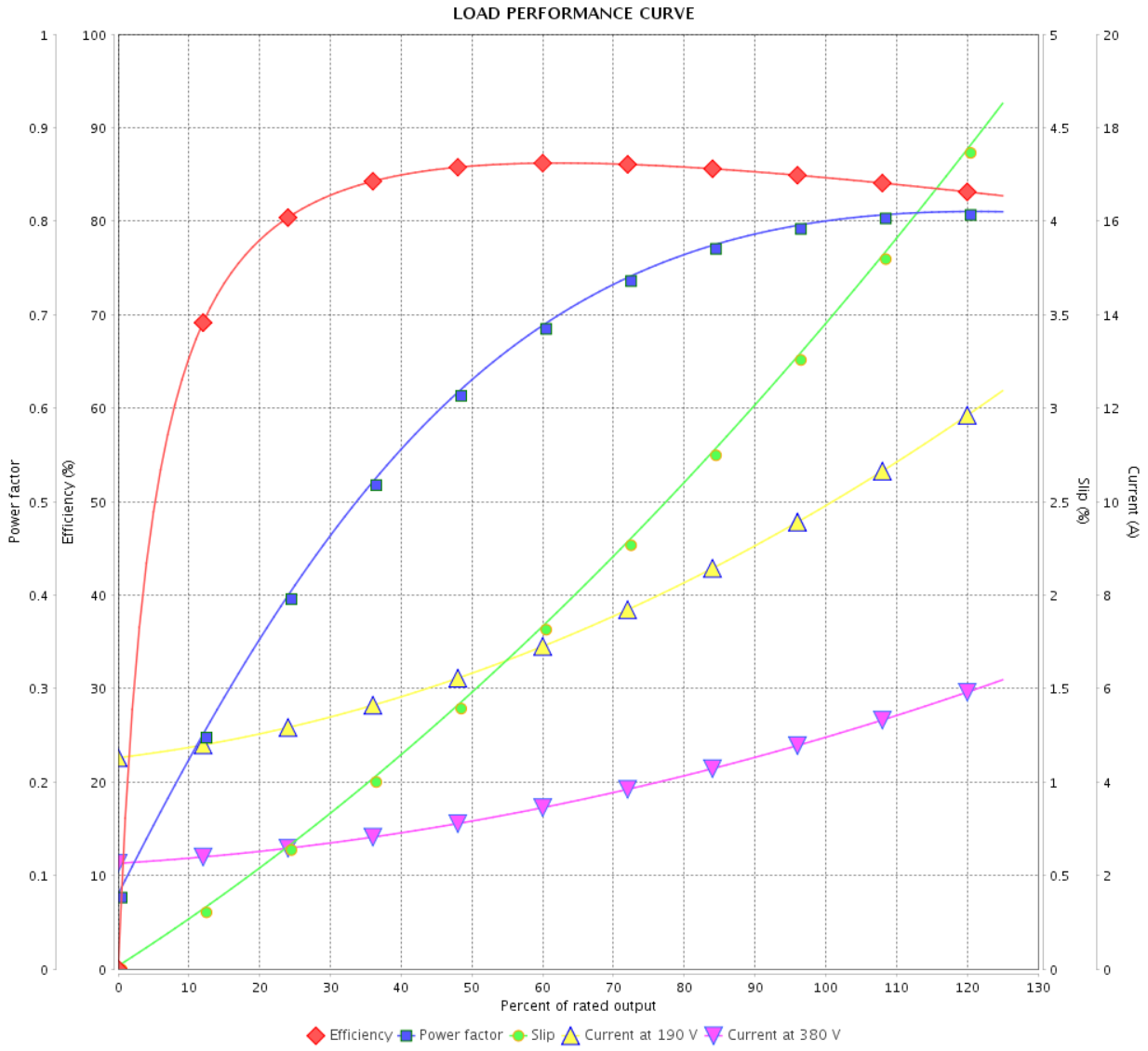
Performed by				
Checked by			Page	Revision
Date	14/04/2022		5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 190/380 V 50 Hz 6P

Rated current	: 9.88/4.94 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

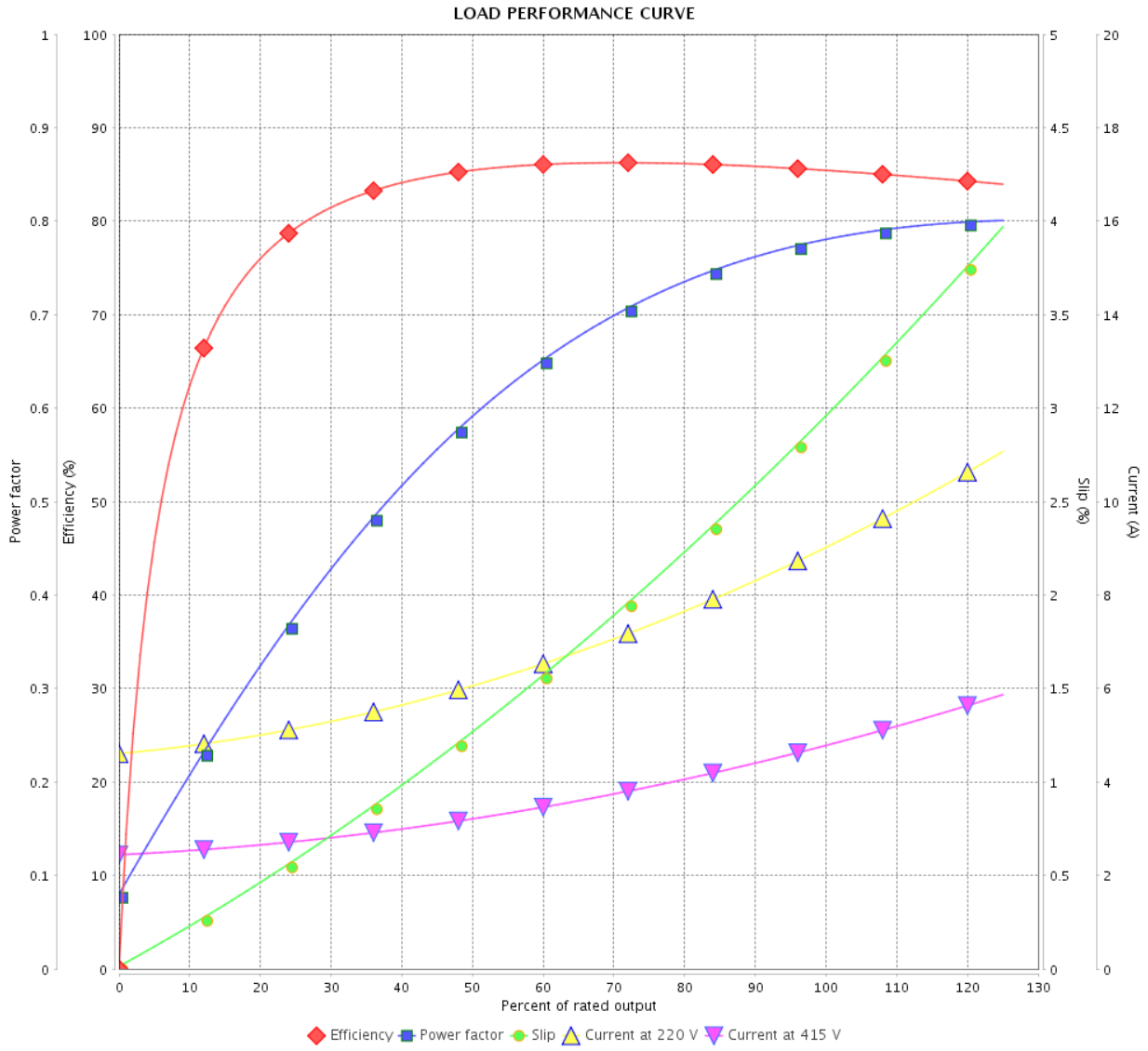
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		6 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 220/415 V 50 Hz 6P		
Rated current	: 9.00/4.77 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		7 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S

Performance	: 230/460 V 60 Hz 6P

Rated current	: 8.32/4.16 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B
Heating constant			
Cooling constant			

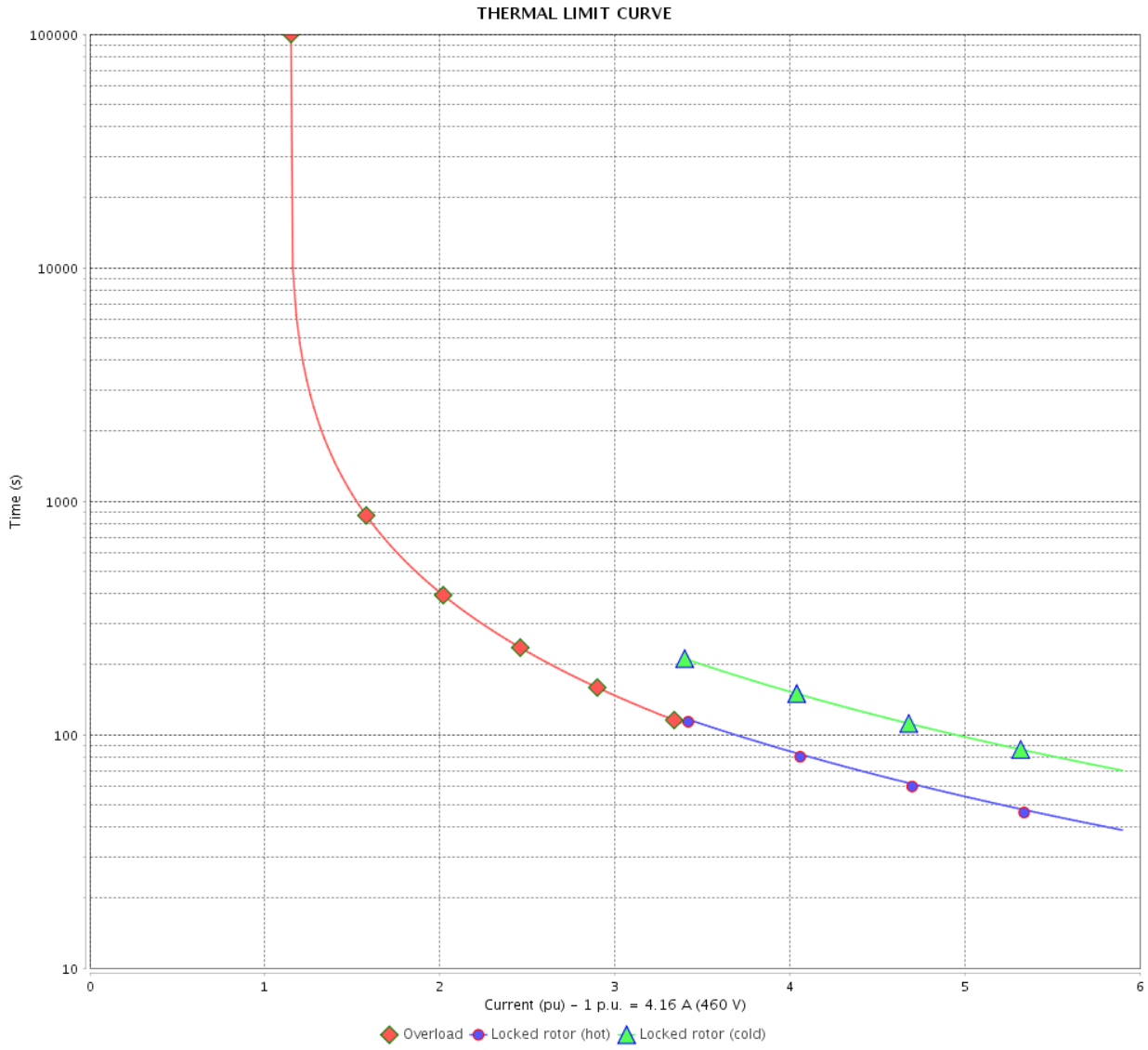
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		8 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		9 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S

Performance	: 190/380 V 50 Hz 6P		
Rated current	: 9.88/4.94 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B
Heating constant			
Cooling constant			

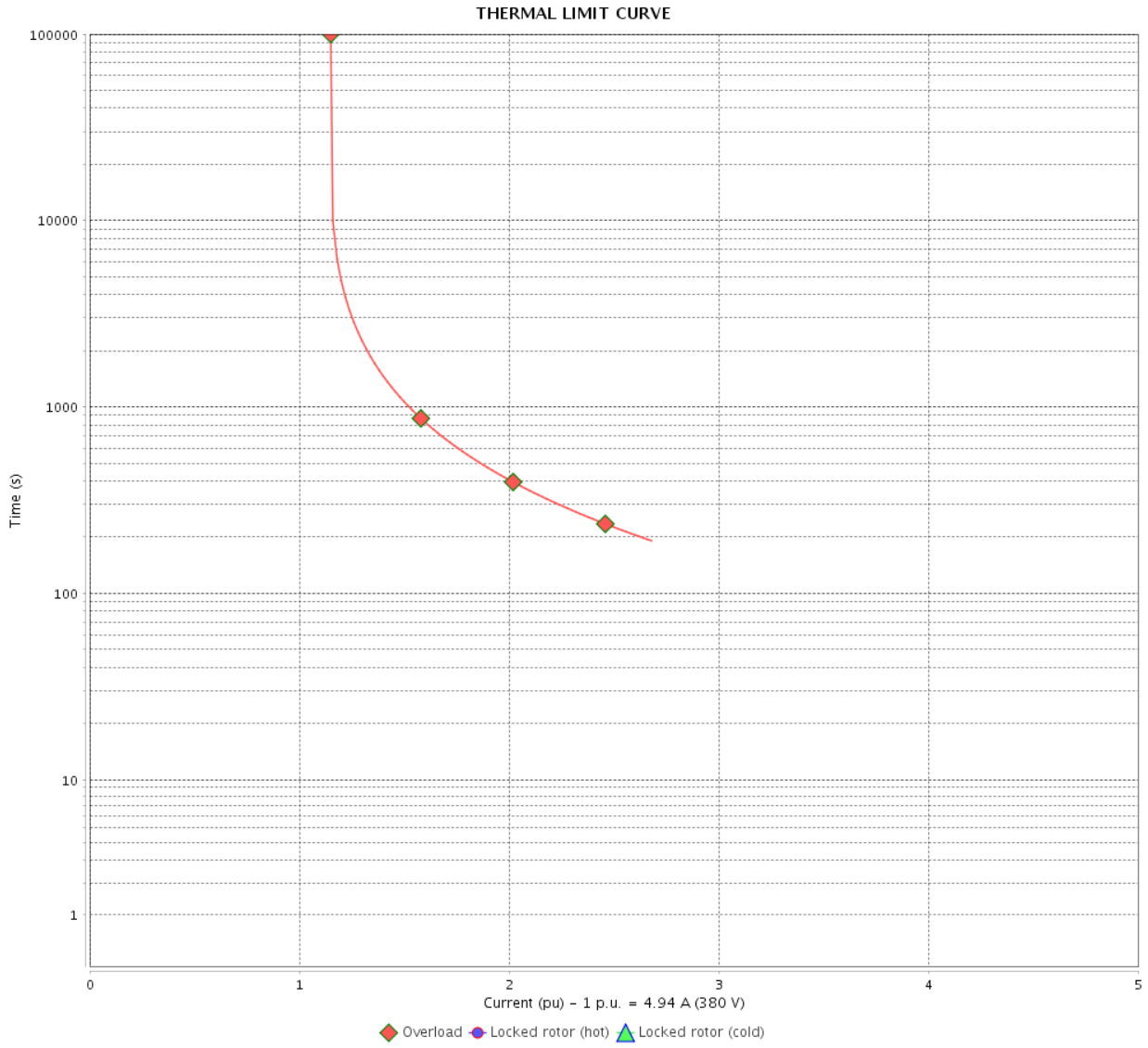
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		10 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		11 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S

Performance	: 220/415 V 50 Hz 6P		
Rated current	: 9.00/4.77 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B
Heating constant			
Cooling constant			

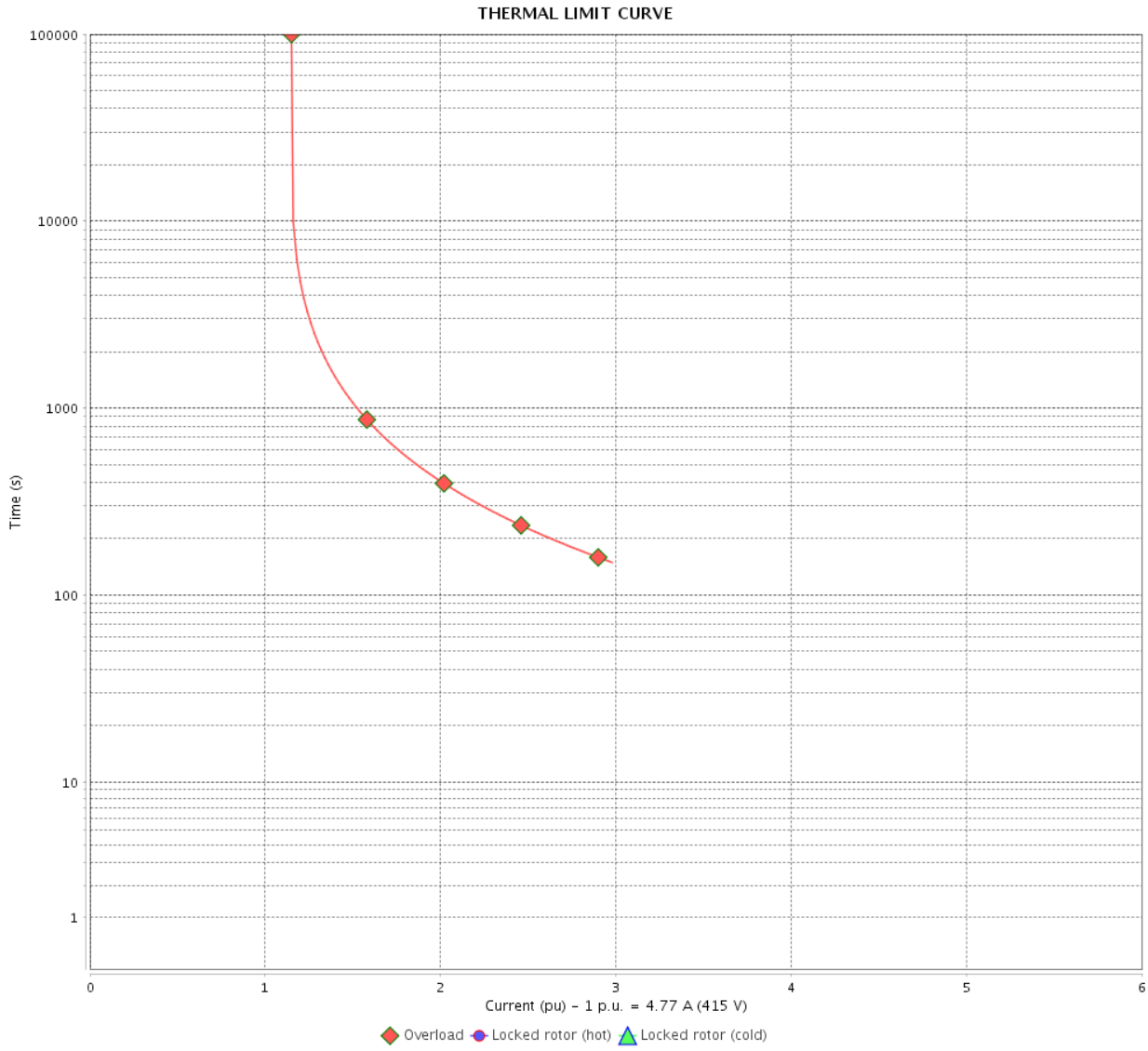
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		12 / 16	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :



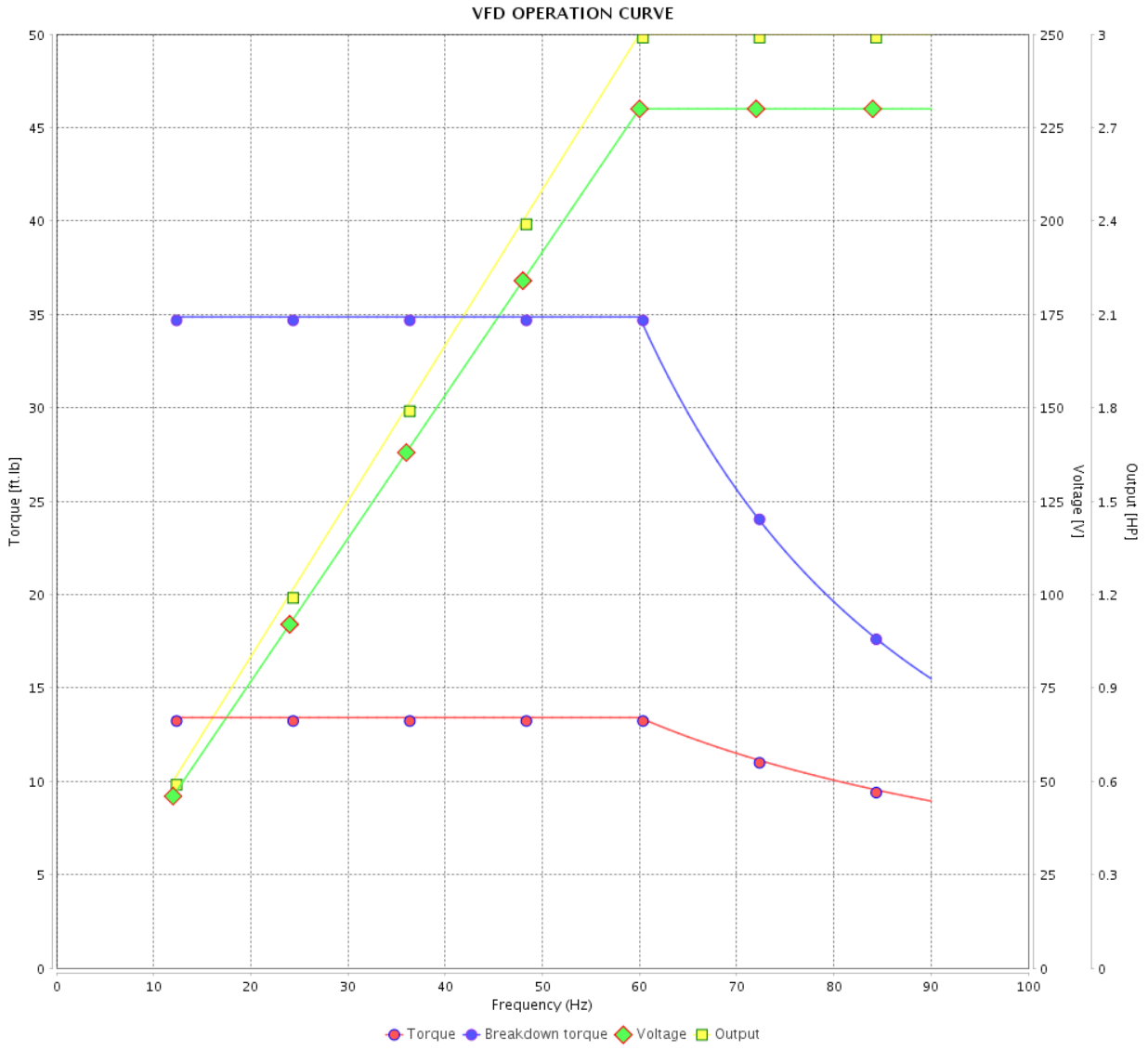
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 8.32/4.16 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 13.4 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

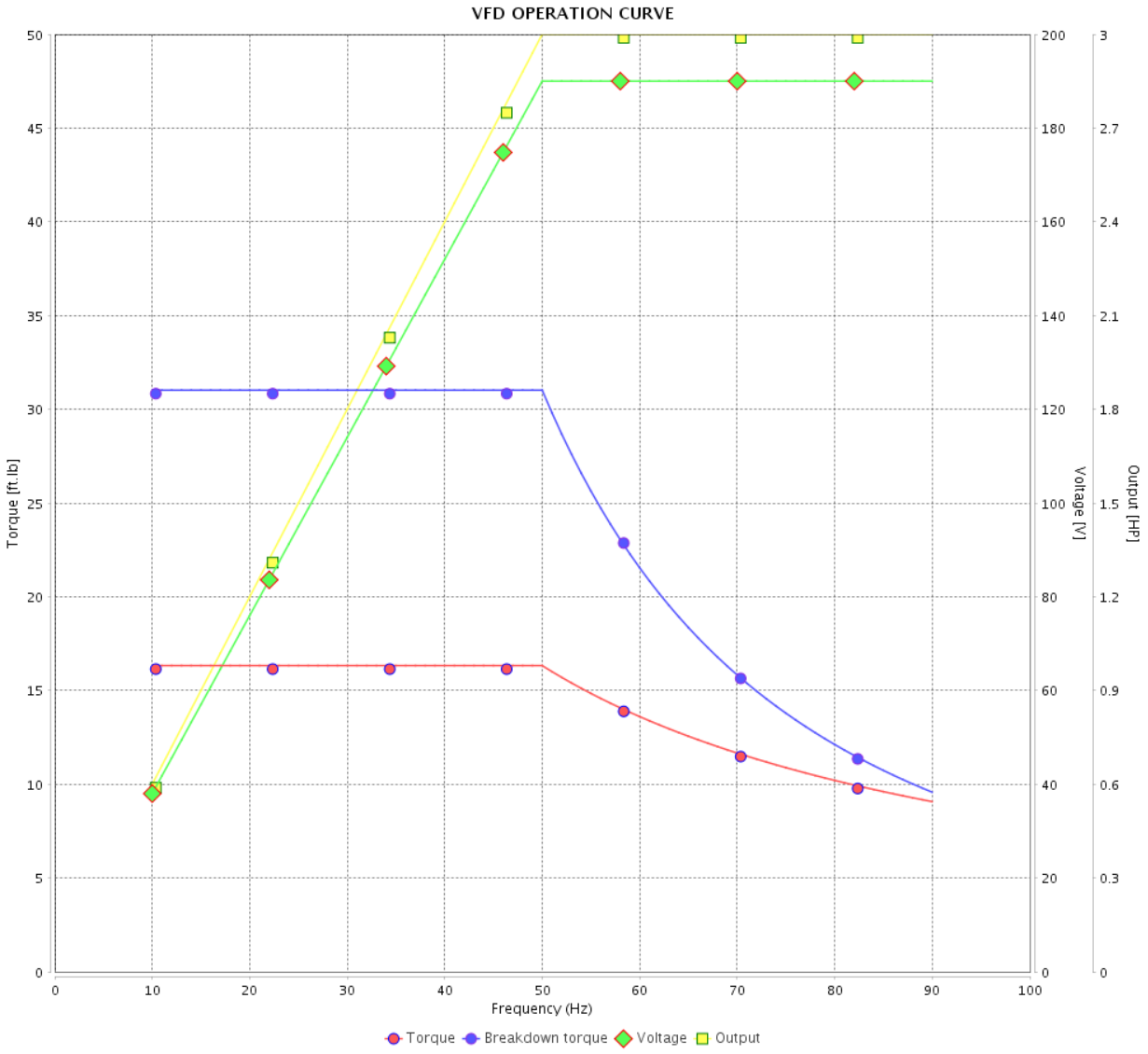
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		14 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 190/380 V 50 Hz 6P		
Rated current	: 9.88/4.94 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 16.3 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.15
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

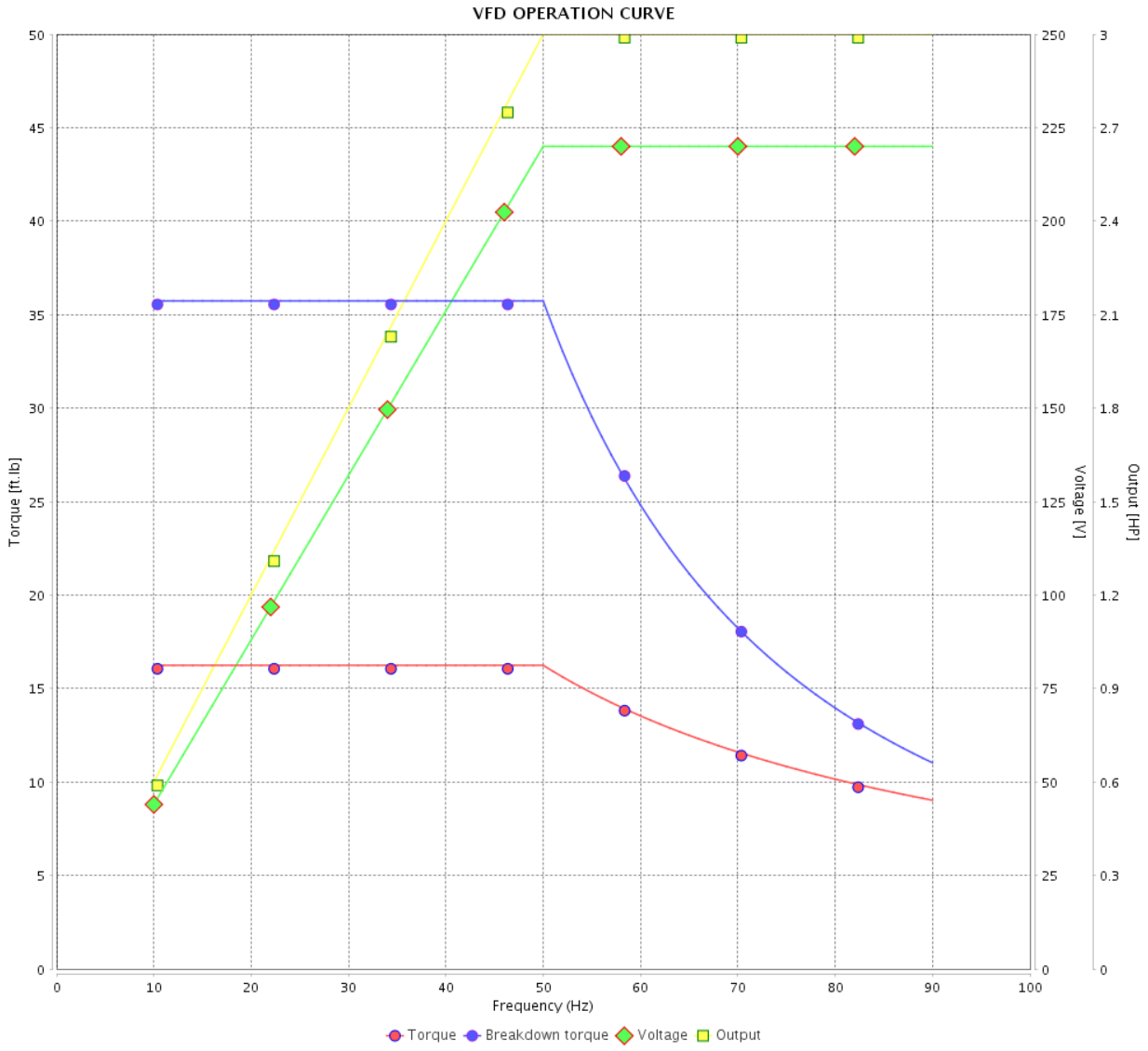
Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		15 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

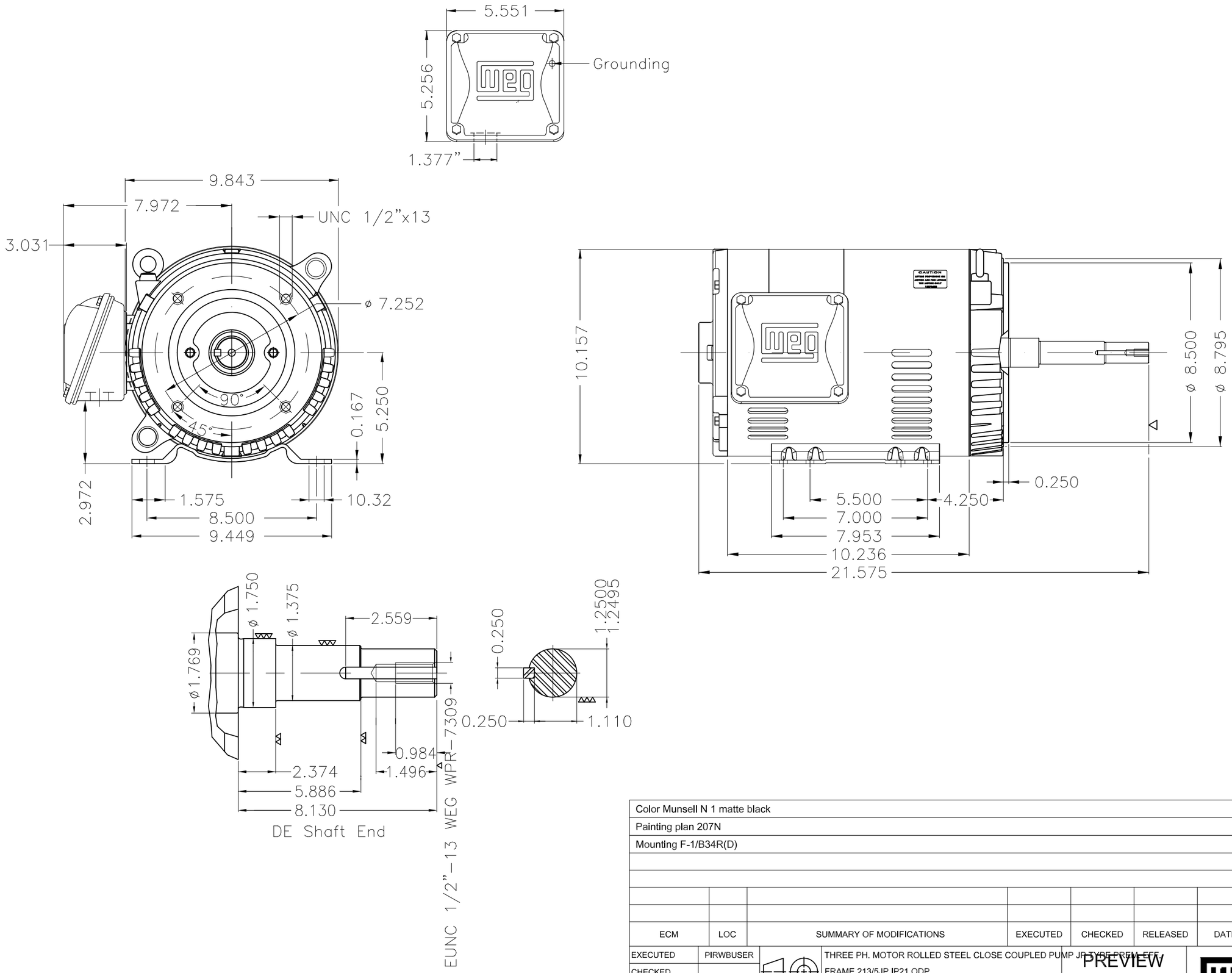
Customer	:		
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682734
		Catalog # :	00312OT3E213JP-S



Performance	: 220/415 V 50 Hz 6P		
Rated current	: 9.00/4.77 A	Moment of inertia (J)	: 0.8104 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 16.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	14/04/2022		16 / 16	



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 CLOSE COUPLED PUMP JP TYPE PREM EFF	PREVIEW
CHECKED		FRAME 213/5JP IP21 ODP	
RELEASED			WDD
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

3 HP 06 Poles 60 Hz

A

Dimensions in inches

XME A3

NEMA Premium®

3PT9 LISTED

Energy Verified

MADE IN MÉXICO

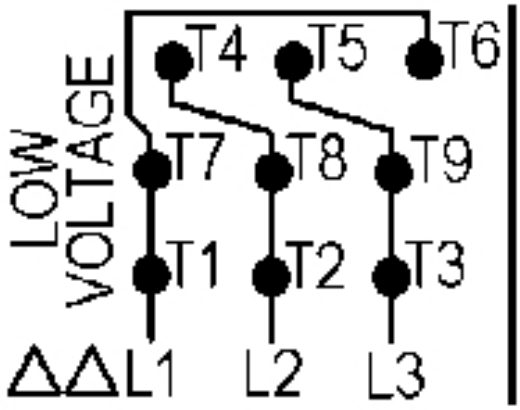
MAT: 12682734 CC029A
W01.T00IC0X0N
MODEL 00312OT3E213JP-S
16NOV2021 S/N:

PH 3	Hz 60	HP	3.0
FR 213/5JP		kW	2.2
DUTY CONT.		V	230/460
ALT 1000 m.a.s.l		A	8.32/4.16
INS CL F ΔT 80K		SFA	9.57/4.78
AMB 40°C	DES B	SF	1.15
ENCL ODP	CODE H	PF	0.75
USABLE @ 208V 9.20A SF1.00		RPM	1175
		NEMA NOM. EFF	88.5%

ALTERNATE RATING: 3.0HP 50Hz 190-220/380-415V SF1.15
9.88-8.85/4.94-4.69A 965RPM EFF 84.6% (IE3) IEC 60034-1

Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 5:1 CT

DE 6209-ZZ	ODE 6206-ZZ	MOBIL POLYREX EM	



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.