

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :			
Product line	: JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13328508
		Catalog # :	00718OT3E213JMV-S
Frame	: 213/5JM	Cooling method	: IC01 - ODP
Insulation class	: F	Mounting	: W-6
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	: 124 lb
Design	: B	Moment of inertia (J)	: 1.03 sq.ft.lb
Output [HP]	7.5	7.5	7.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	18.5/9.25	22.2/11.1	20.0/10.6
L. R. Amperes [A]	133/66.6	129/64.4	130/68.9
LRC [A]	7.2x(Code H)	5.8x(Code G)	6.5x(Code H)
No load current [A]	8.79/4.39	8.64/4.32	8.88/4.71
Rated speed [RPM]	1770	1455	1460
Slip [%]	1.67	3.00	2.67
Rated torque [ft.lb]	22.3	27.1	27.0
Locked rotor torque [%]	240	170	190
Breakdown torque [%]	320	229	250
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	88.6	89.6
	50%	89.5	88.6
	75%	90.2	88.7
	100%	91.0	87.4
Power Factor	25%	0.39	0.42
	50%	0.65	0.69
	75%	0.77	0.80
	100%	0.82	0.86
Bearing type	: <u>Drive end</u> 6209 ZZ <u>Non drive end</u> 6206 ZZ	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 318 lb
		Max. compression	: 442 lb
Lubrication interval	: - -		
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V 20.5A SF 1.00 SFA 20.5A			
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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



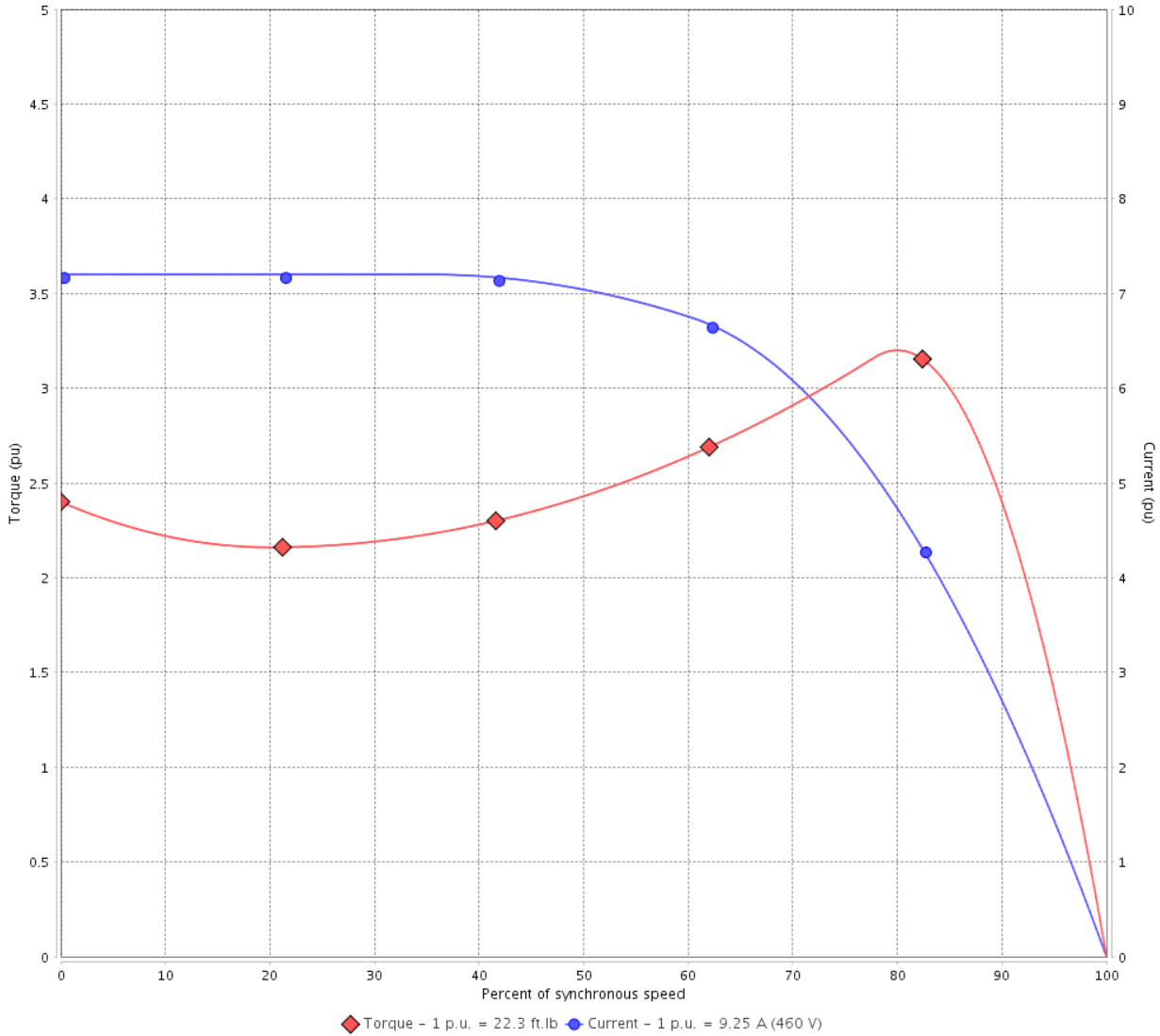
Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13328508

Catalog # : 00718OT3E213JMV-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 18.5/9.25 A
LRC : 7.2
Rated torque : 22.3 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 320 %
Rated speed : 1770 rpm

Moment of inertia (J) : 1.03 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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

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TORQUE AND CURRENT VS SPEED CURVE



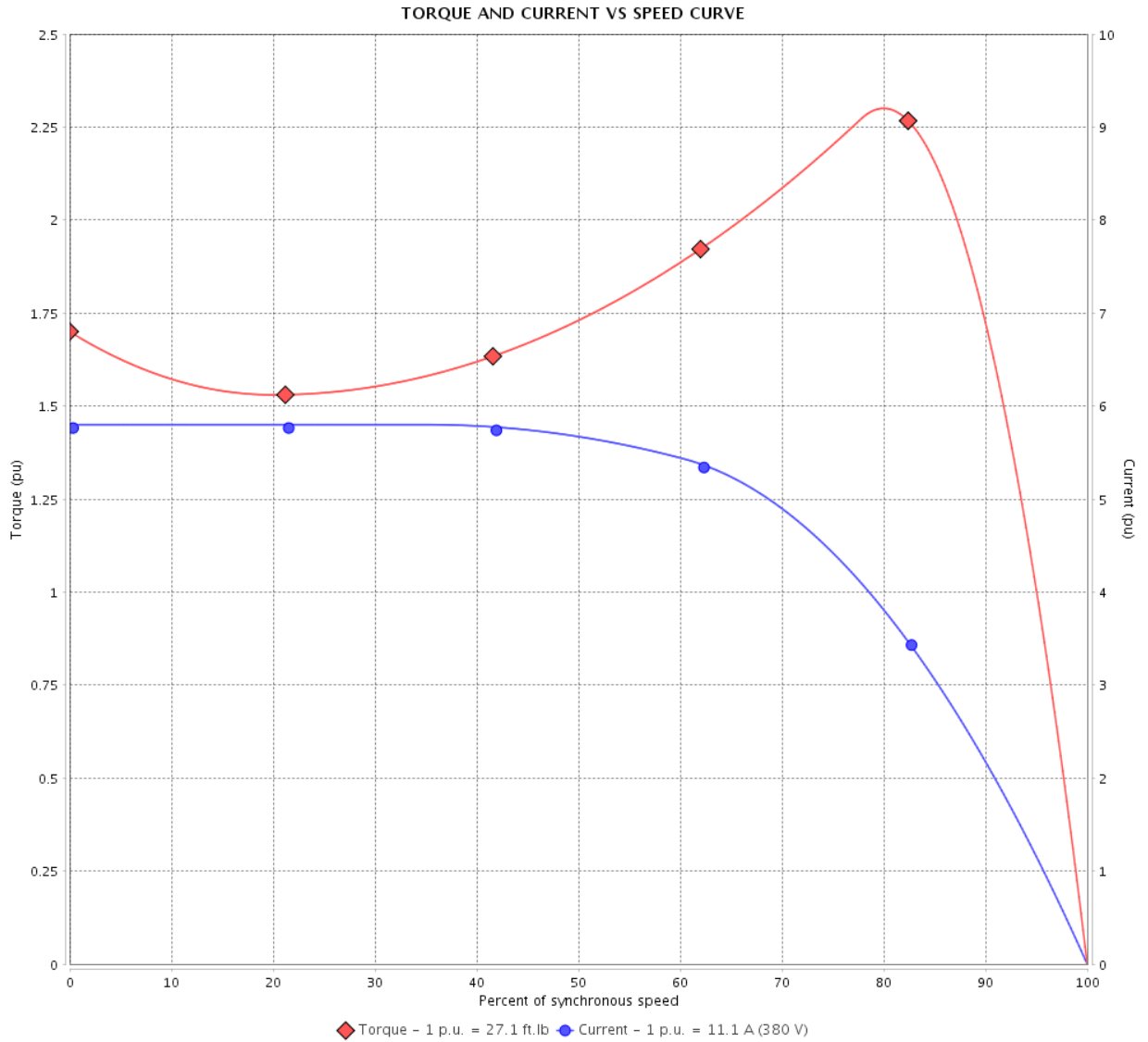
Three Phase Induction Motor - Squirrel Cage

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Product line : JM Pump NEMA Premium Efficiency Three-Phase

Product code : 13328508

Catalog # : 00718OT3E213JMV-S



Performance : 190/380 V 50 Hz 4P

Rated current : 22.2/11.1 A
 LRC : 5.8
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 1.03 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)

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TORQUE AND CURRENT VS SPEED CURVE

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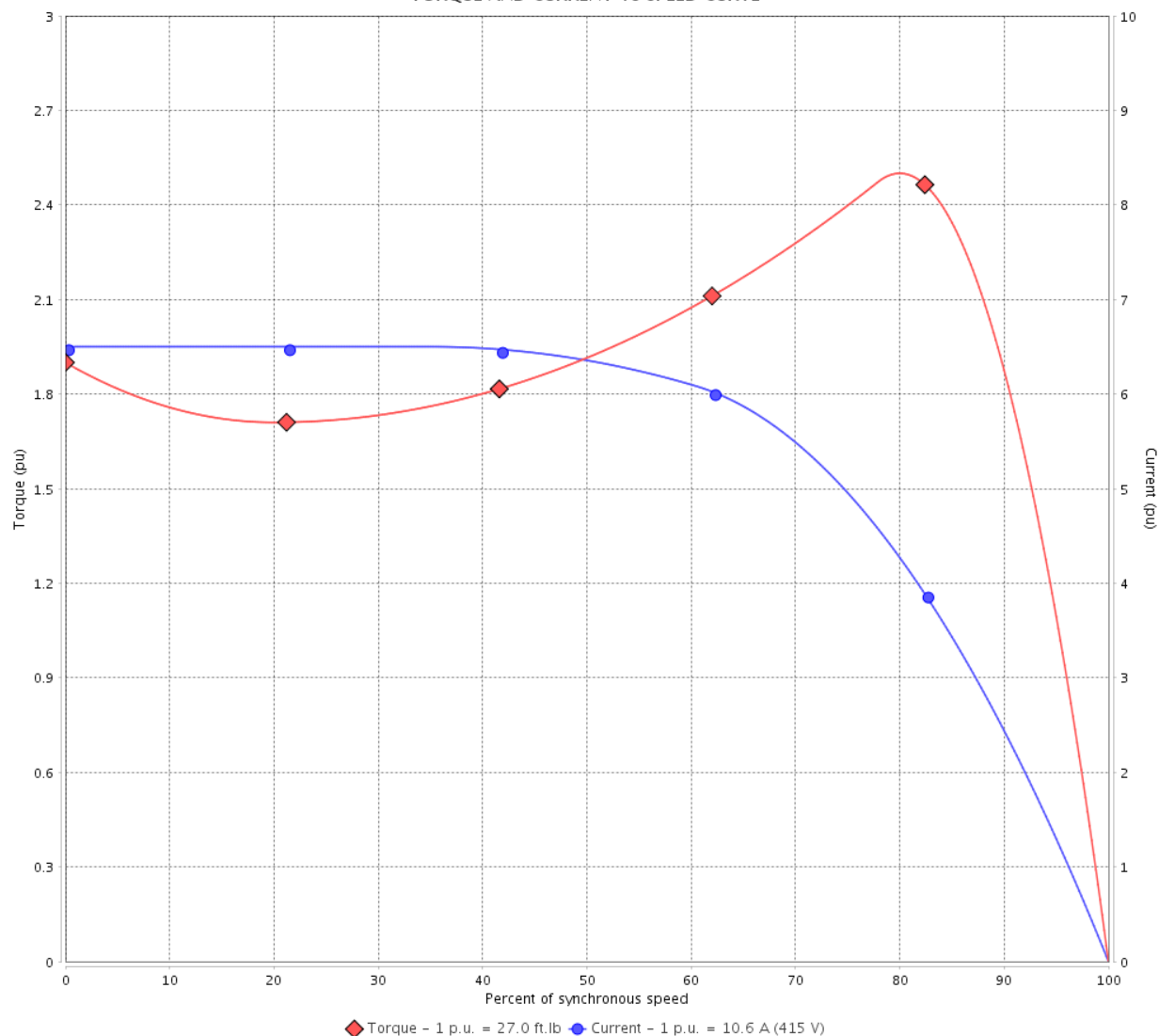
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Efficiency Three-Phase

Product code : 13328508

Catalog # : 00718OT3E213JMV-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 4P

Rated current	: 20.0/10.6 A	Moment of inertia (J)	: 1.03 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 27.0 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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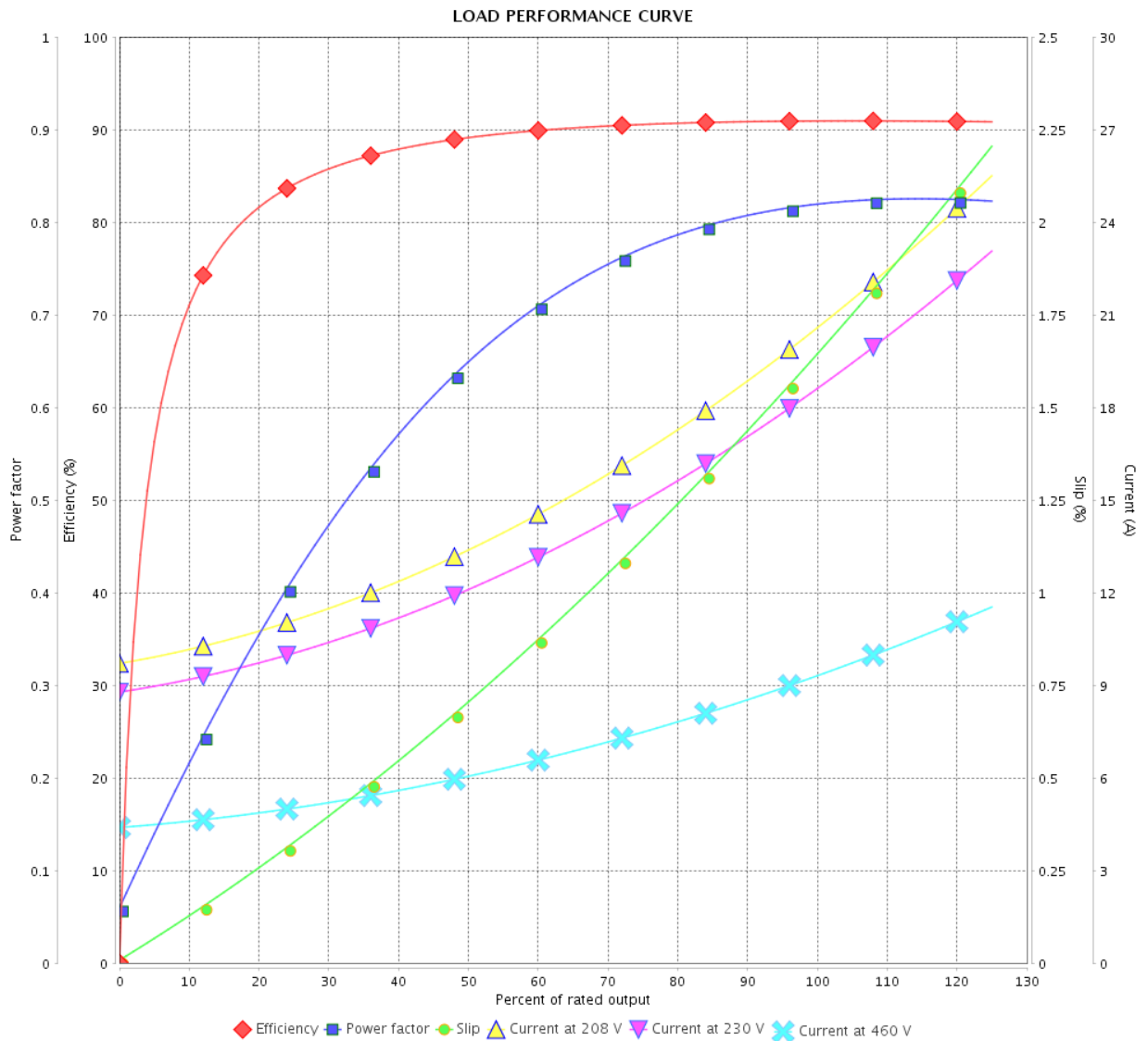


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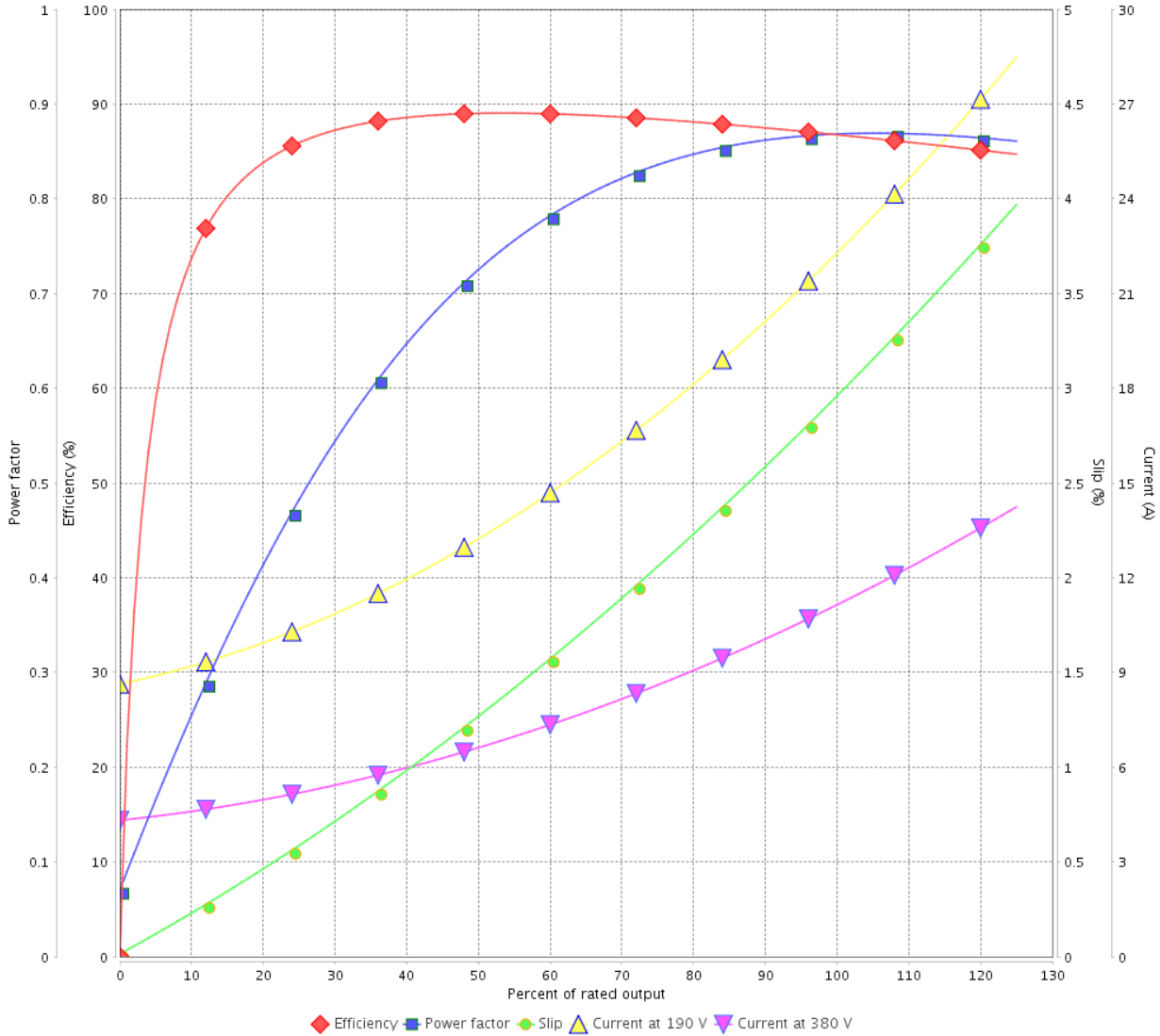
Customer :

Product line : JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13328508

Catalog # : 007180T3E213JMV-S

LOAD PERFORMANCE CURVE



Performance : 190/380 V 50 Hz 4P

Rated current : 22.2/11.1 A
 LRC : 5.8
 Rated torque : 27.1 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 1.03 sq.ft.lb
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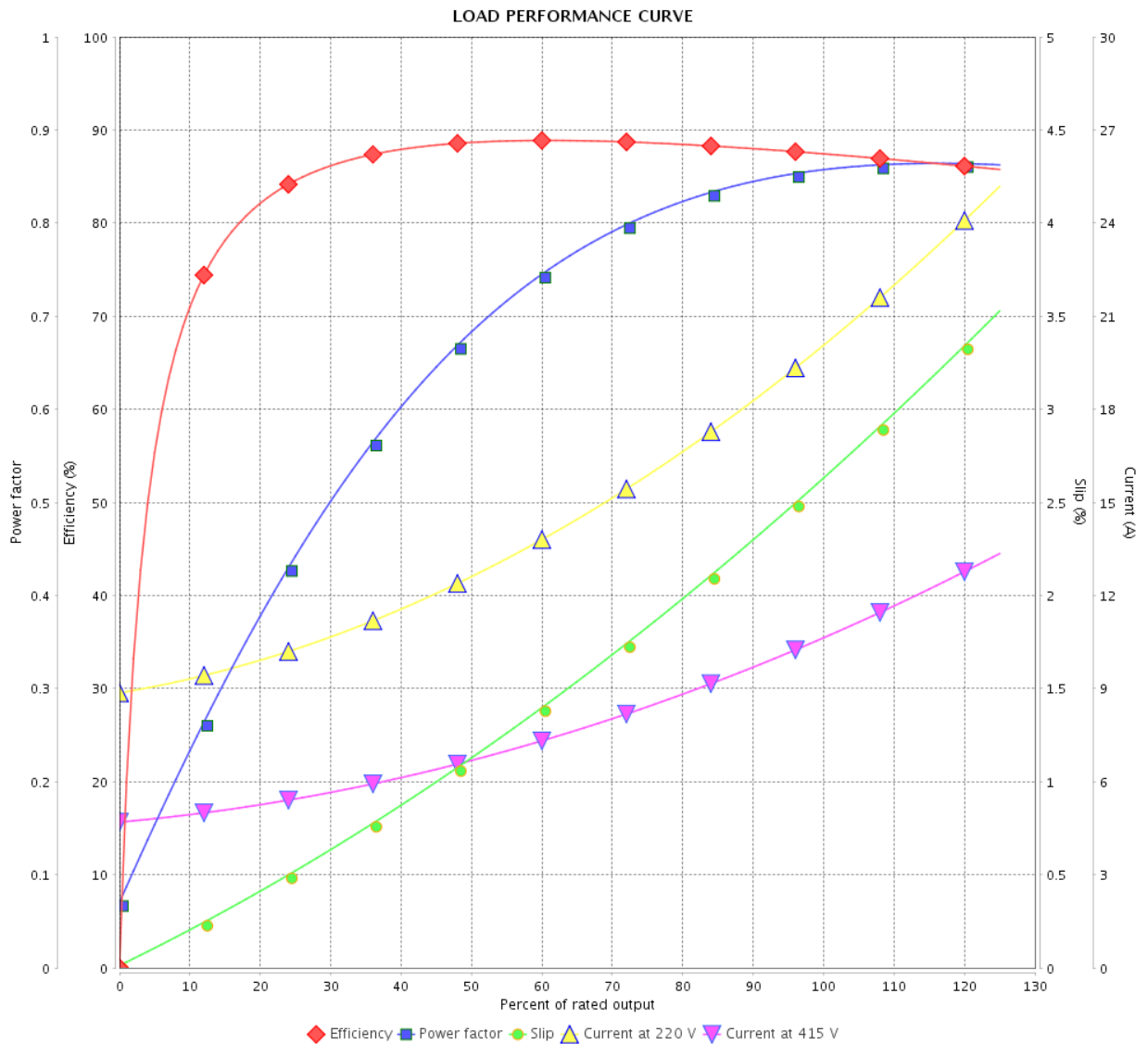


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Performance : 220/415 V 50 Hz 4P

Rated current : 20.0/10.6 A
 LRC : 6.5
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

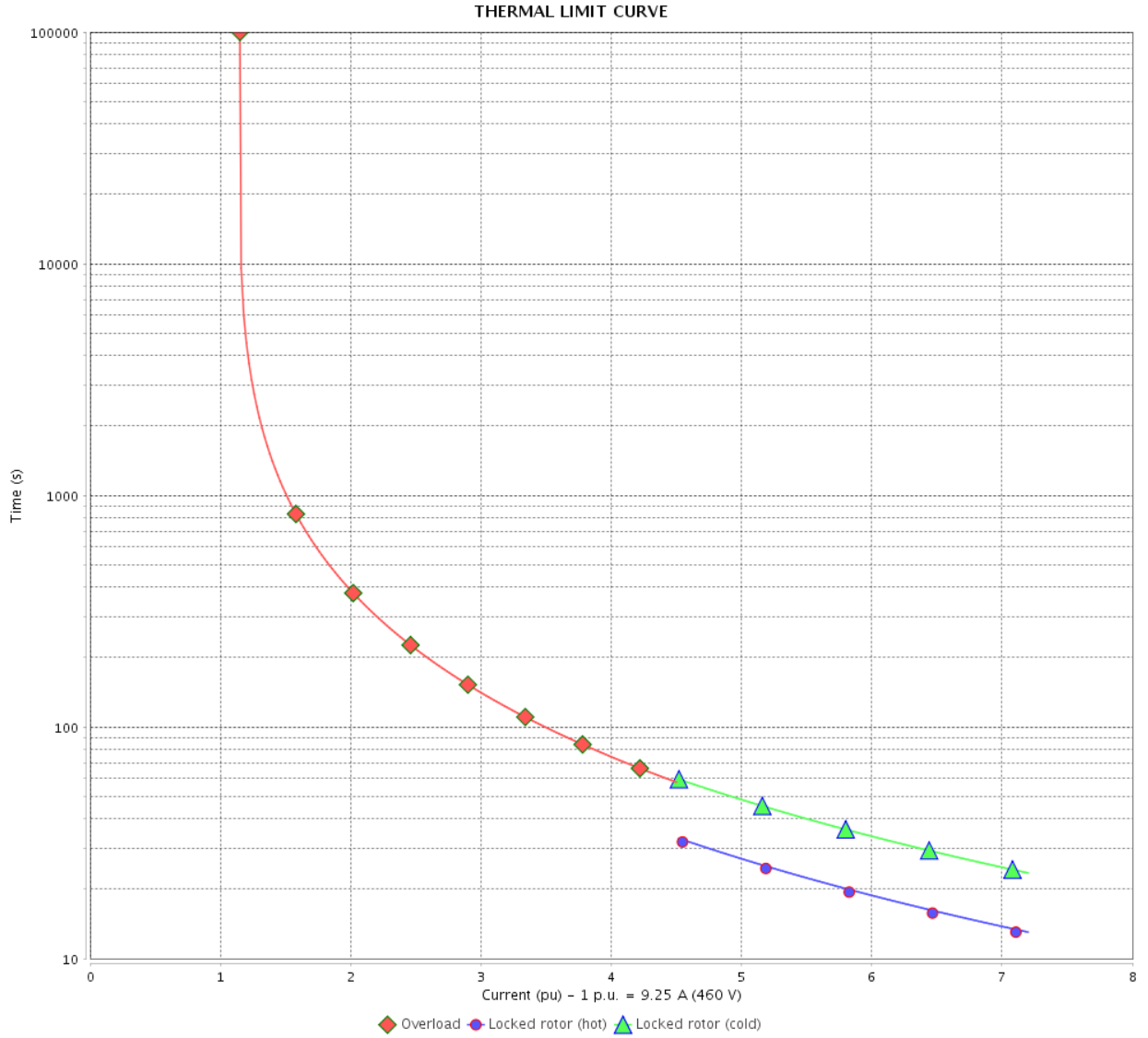
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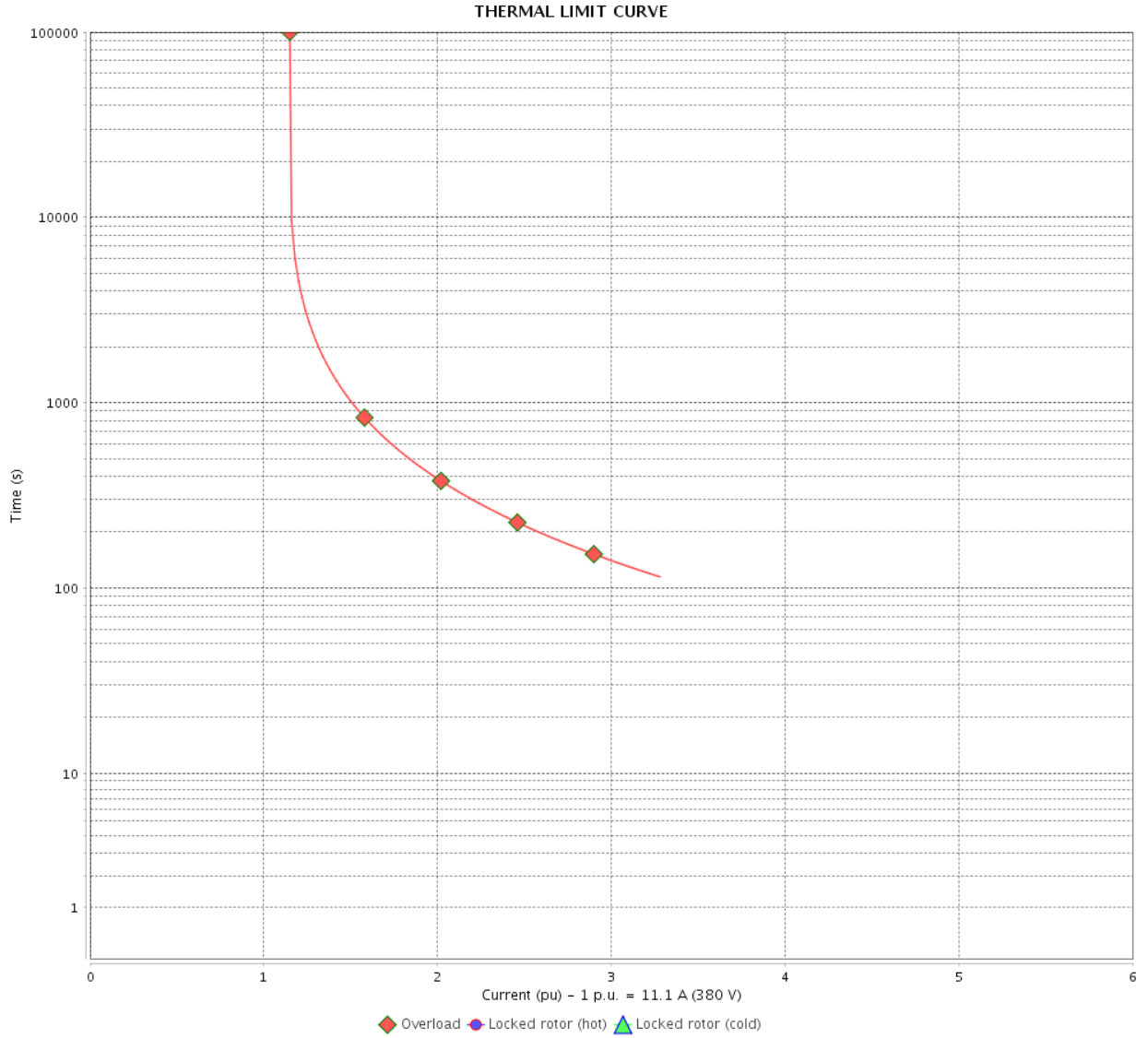
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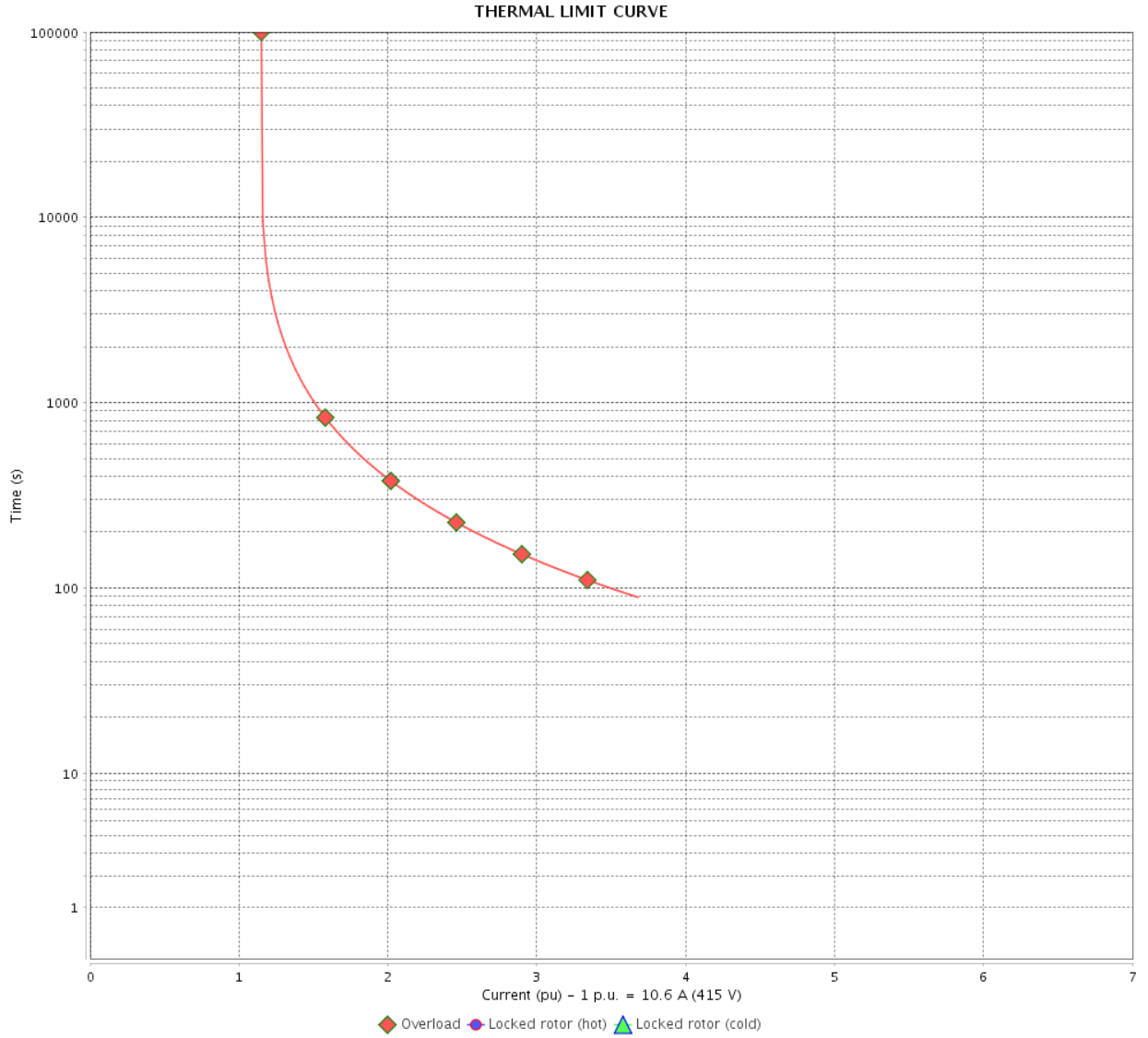
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VFD OPERATION CURVE

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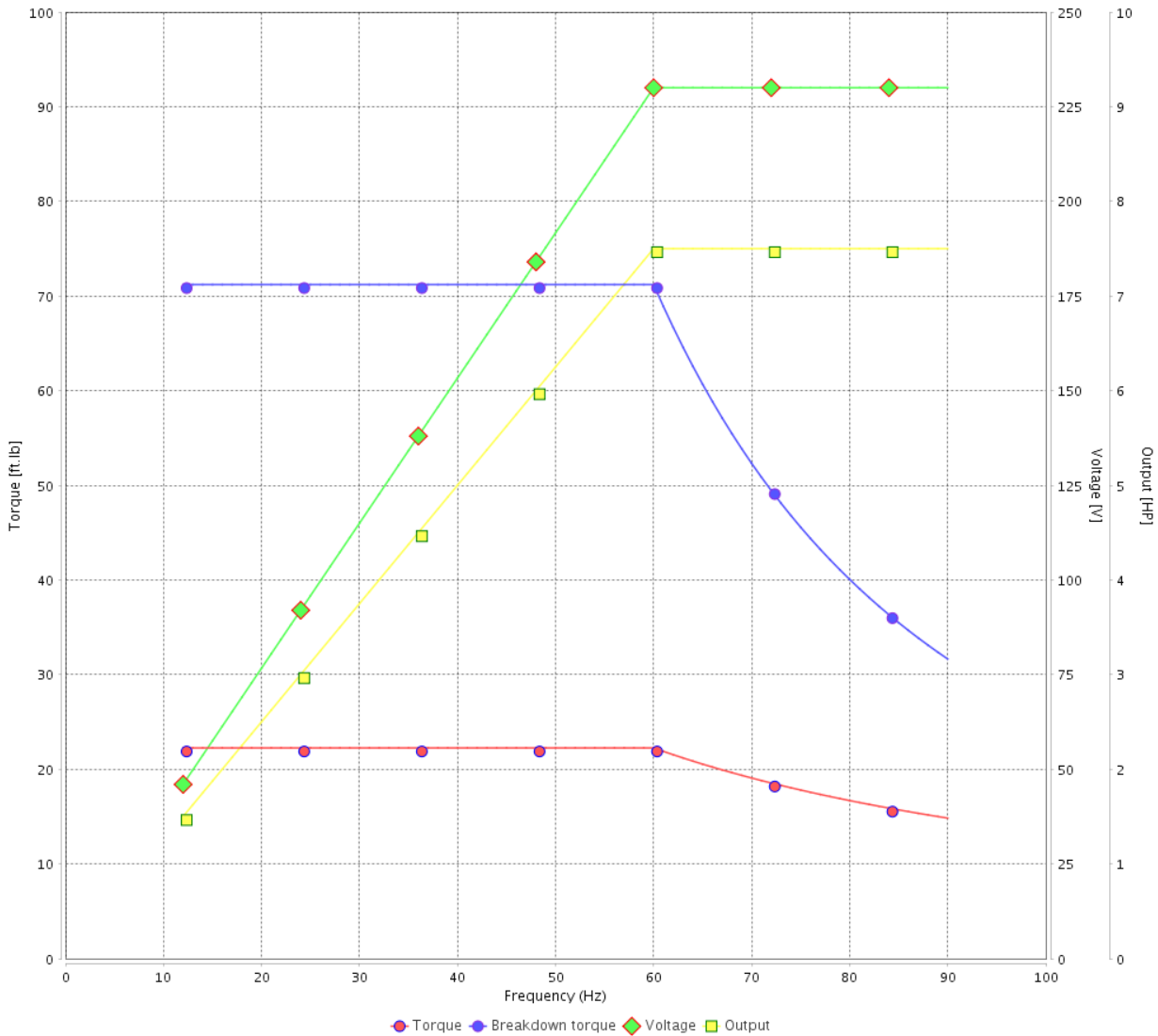
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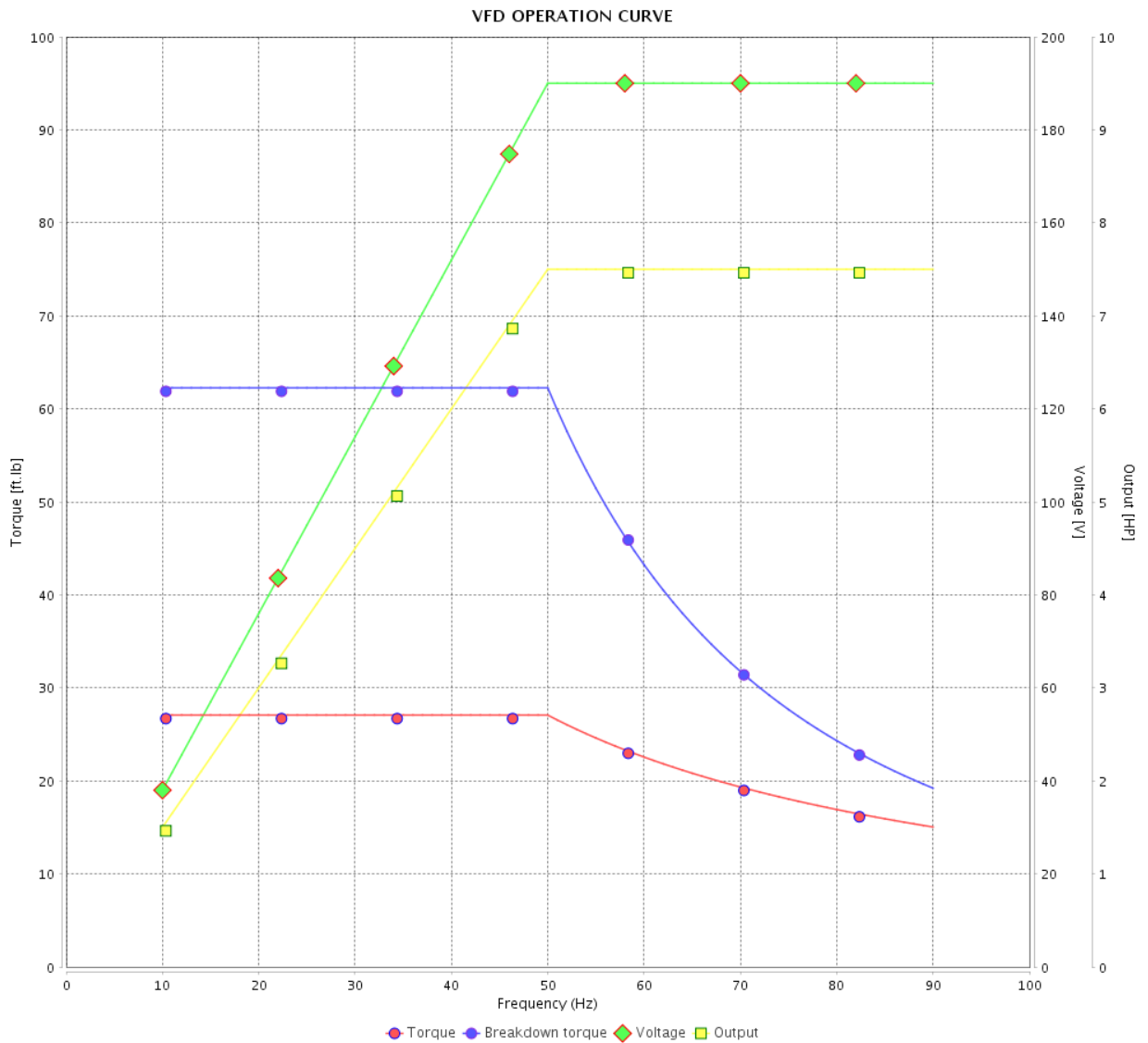


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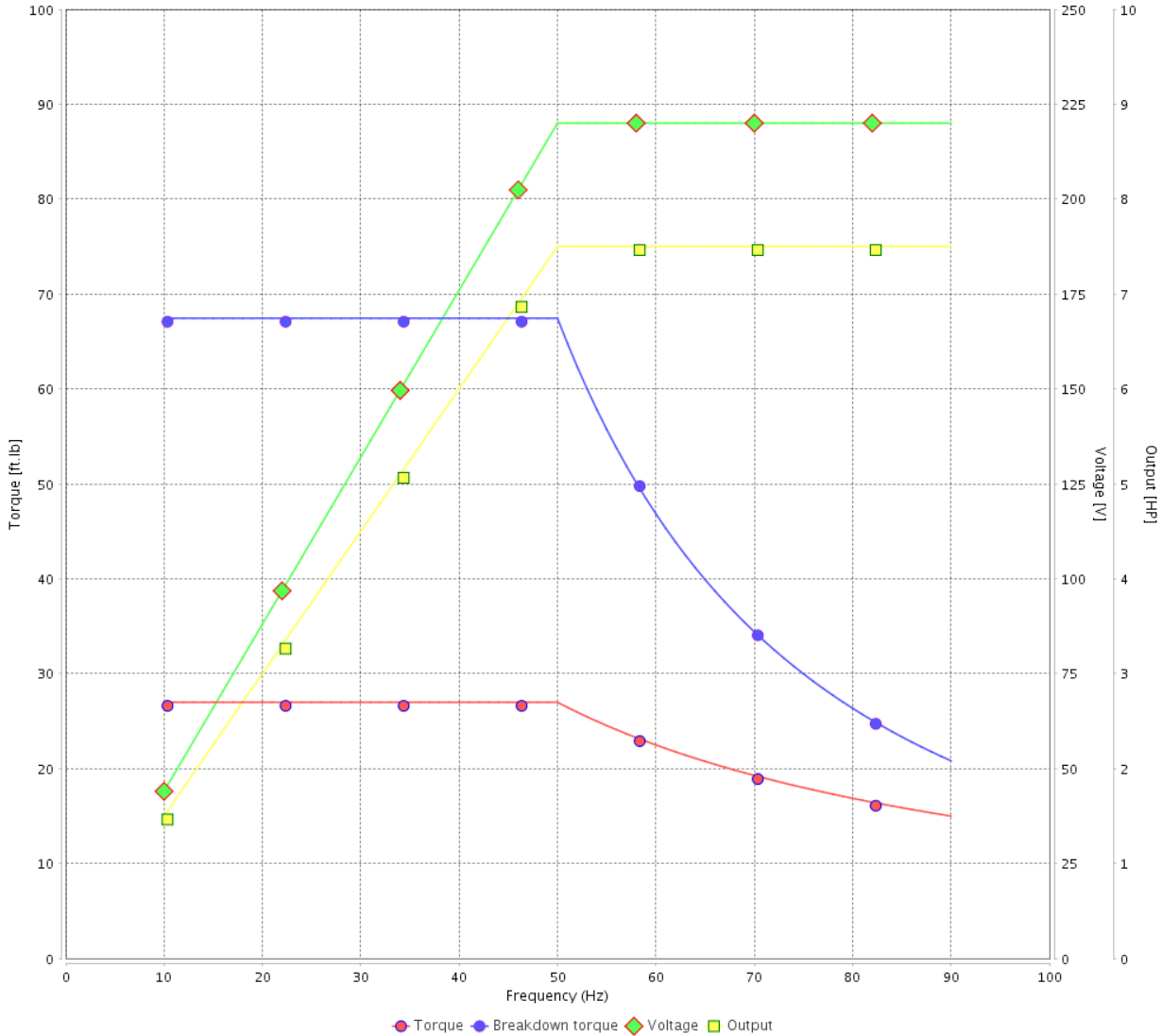
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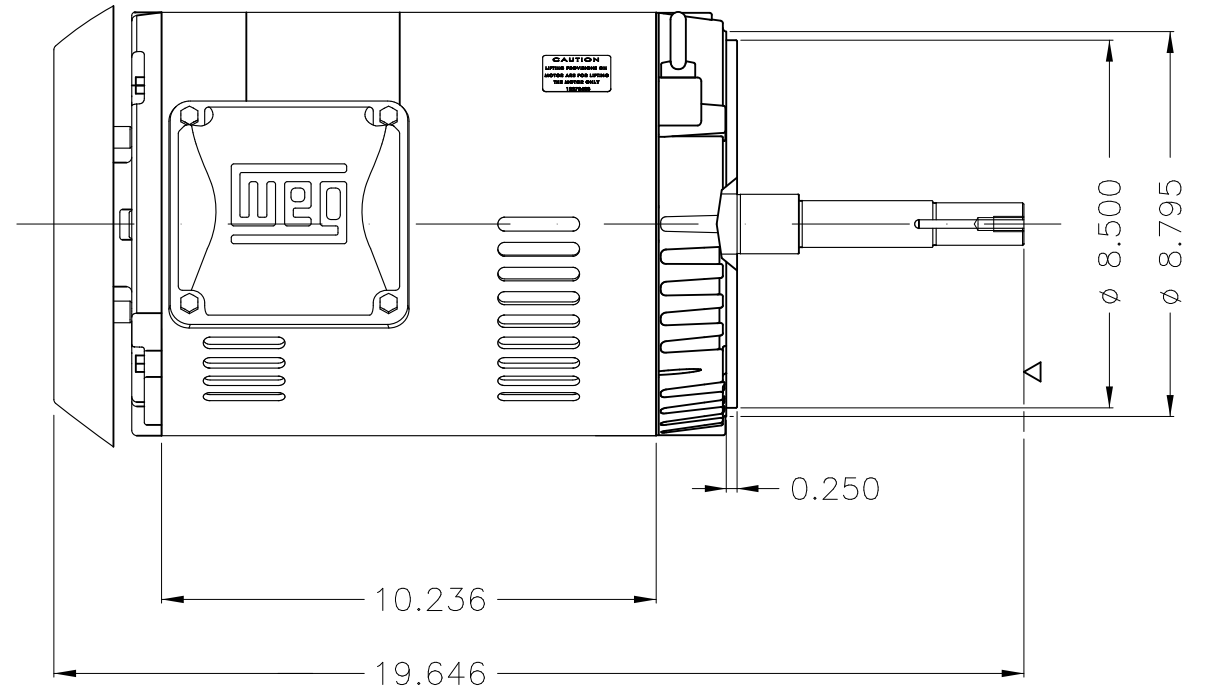
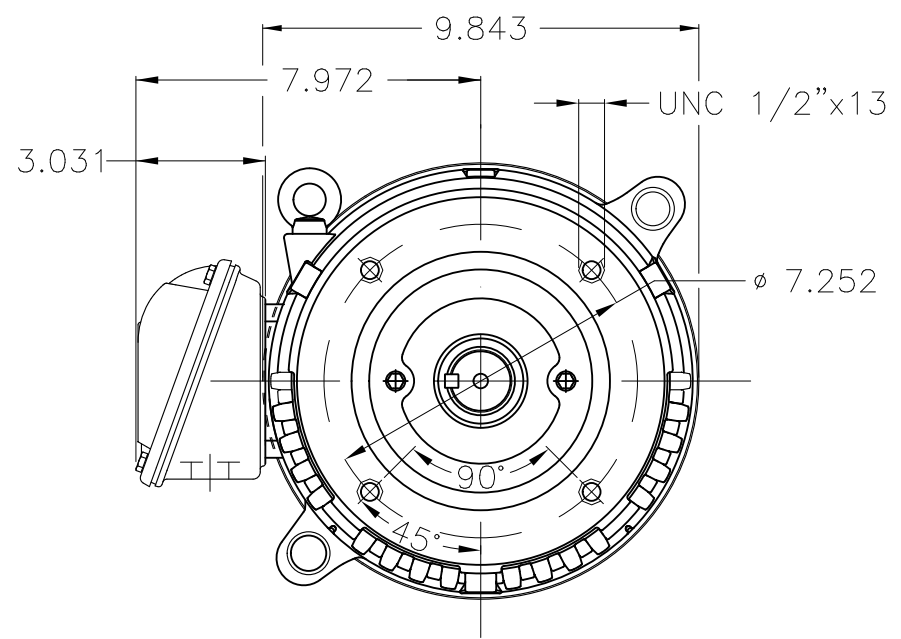
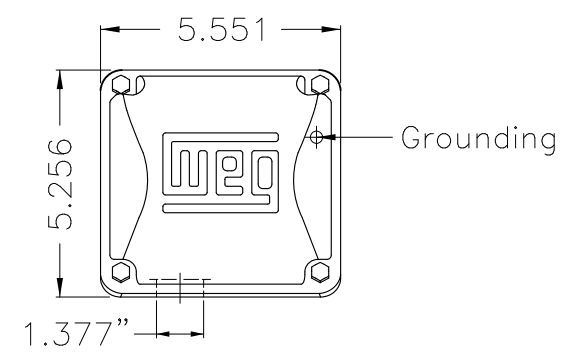
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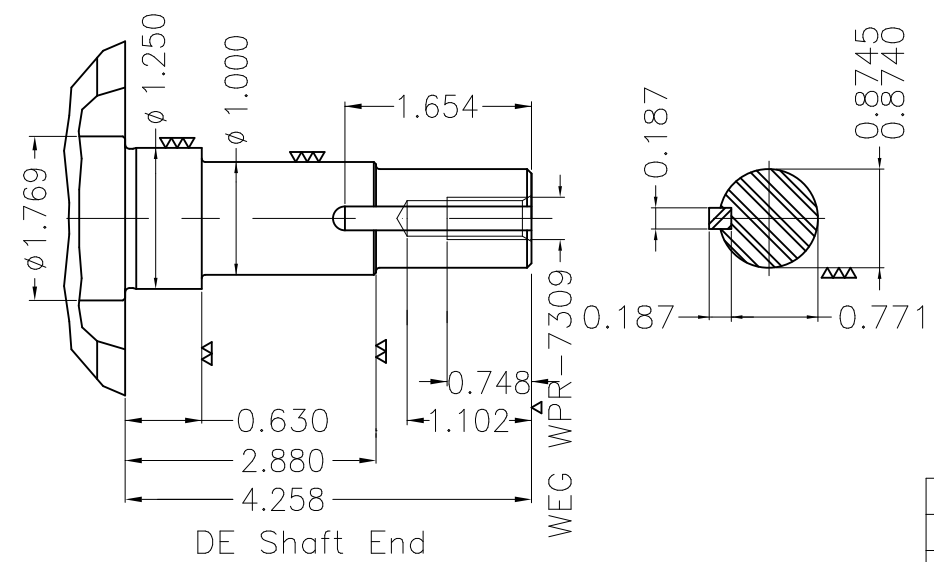
1 2 3 4 5 6

A



B

C



EUNC 3/8" - 16 WEG WPR-7309

Color Munsell N 1 matte black									
Painting plan 207N									
Mounting W-6/V18R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JN TYPE PSE 187							
CHECKED		FRAME 213/5JM IP21 ODP							
RELEASED									
REL DT.	WMO	Jaragua do Sul	Product Engineering						

7.5 HP 04 Poles 60 Hz

REL DT. WMO Jaragua do Sul Product Engineering SHEET 1 / 1

PREVIEW



Dimensions in inches XME A3

**NEMA**
Premium

MADE IN MEXICO

MAT: 13328508 CC029A**W01.T00IC0X0N****JM007404DPNPSW01****08DEC2021 S/N:**

PH 3	Hz 60	HP 7.5
FR 213/5JM		KW 5.5
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 18.5/9.25
INS CL F AT 80K		SFA 21.3/10.6
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE H	PF 0.82
USABLE @ 208V 20.5A		RPM 1770
SF1.00		NEMA NOM. EFF 91.0%

ALTERNATE RATING: 7.5HP 50Hz 190-220/380-415V SF1.15
22.2-19.6/11.1-10.4A 1455RPM EFF 86.7% (IE1) IEC 60034-1

Inverter duty motor For 80Hz 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.

