DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682712
		Catalog # :	00236OT3E145JP-S

Frame	: 143/5JP	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]	: 39.3 lb
Design	: B	Moment of inertia (J)	: 0.1151 sq.ft.lb

Output [HP]		2	2	2
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.84/2.42	5.82/2.91	5.26/2.79
L. R. Amperes [A]		43.1/21.5	40.2/20.1	40.0/21.2
LRC [A]		8.9x(Code K)	6.9x(Code H)	7.6x(Code J)
No load current [A]		1.83/0.917	1.81/0.906	1.84/0.978
Rated speed [RPM]		3510	2890	2900
Slip [%]		2.50	3.67	3.33
Rated torque [ft.lb]		2.99	3.63	3.62
Locked rotor torque [%]		220	180	200
Breakdown torque [%]		330	250	280
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level[2]		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	83.7	85.5	85.4
	50%	84.0	85.0	84.7
	75%	85.5	85.1	85.4
	100%	85.5	84.2	84.3
Power Factor	25%	0.49	0.56	0.52
	50%	0.77	0.83	0.80
	75%	0.86	0.90	0.88
	100%	0.91	0.93	0.92

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6203 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads
Max. traction : 68 lb
Max. compression : 108 lb

Notes
USABLE @208V 5.35A SF 1.00 SFA 5.35A

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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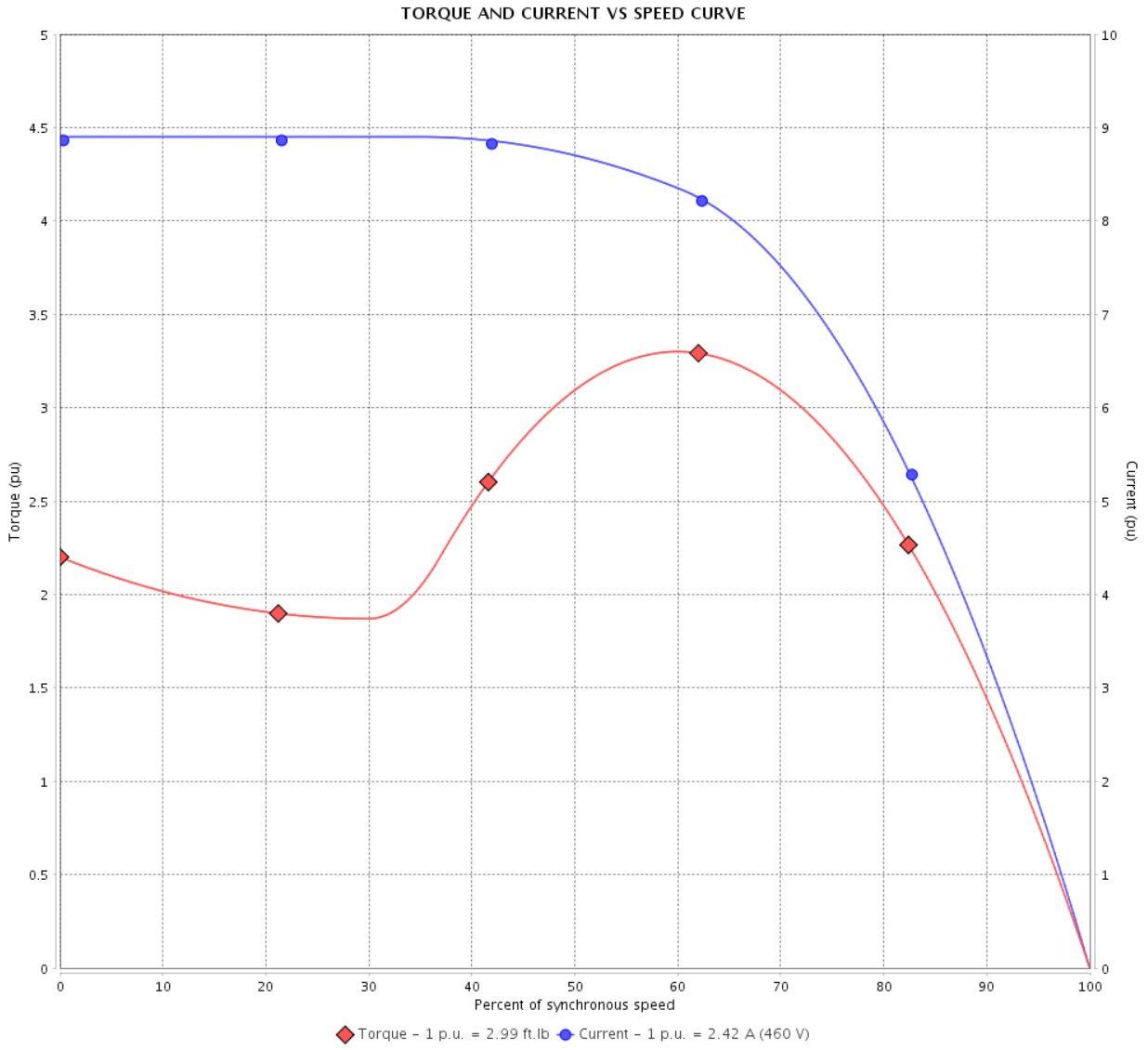
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682712
		Catalog # :	00236OT3E145JP-S



Performance	: 230/460 V 60 Hz 2P

Rated current	: 4.84/2.42 A	Moment of inertia (J)	: 0.1151 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.99 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time	: 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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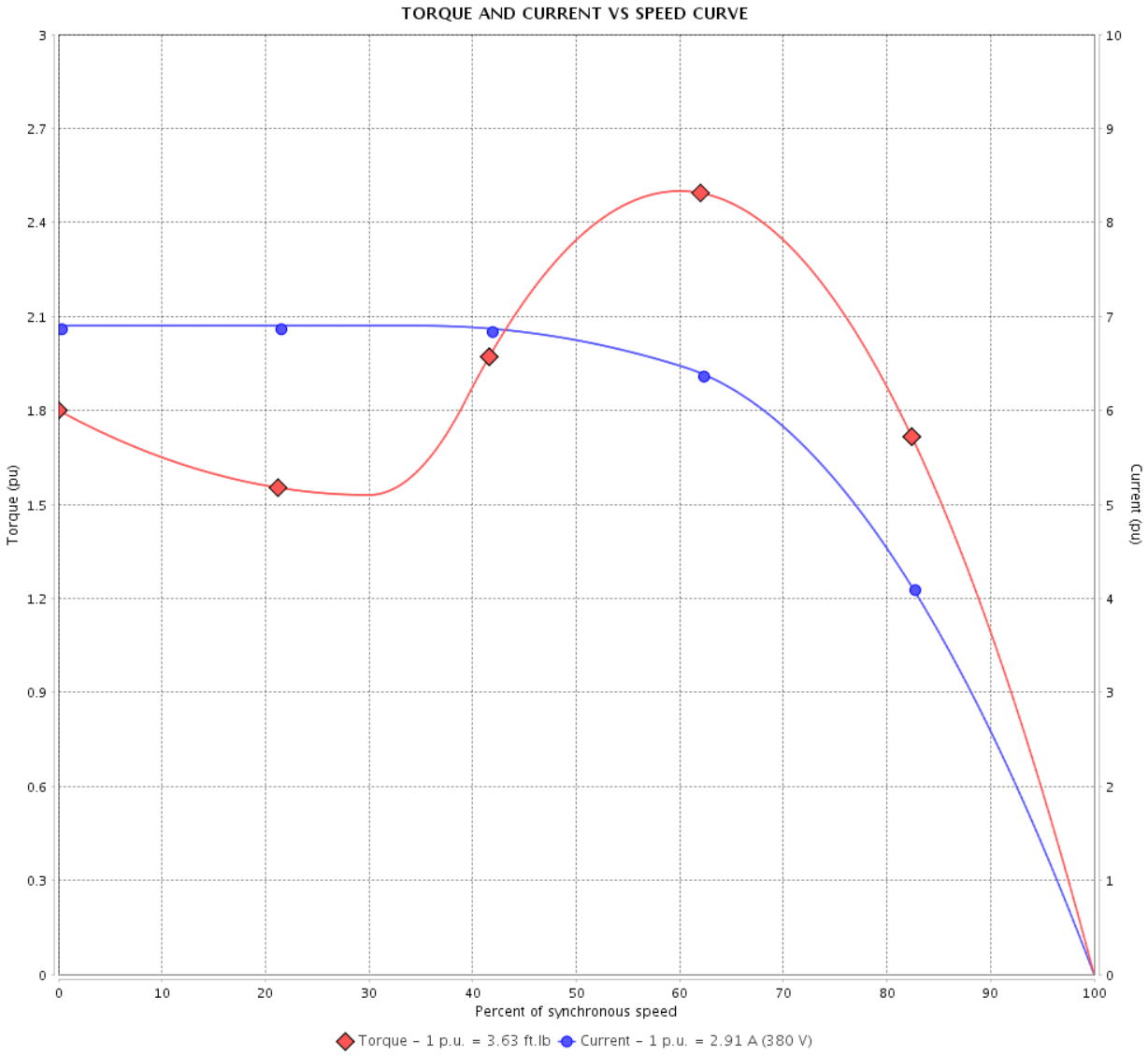

Performance	: 190/380 V 50 Hz 2P

Rated current	: 5.82/2.91 A	Moment of inertia (J)	: 0.1151 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 3.63 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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

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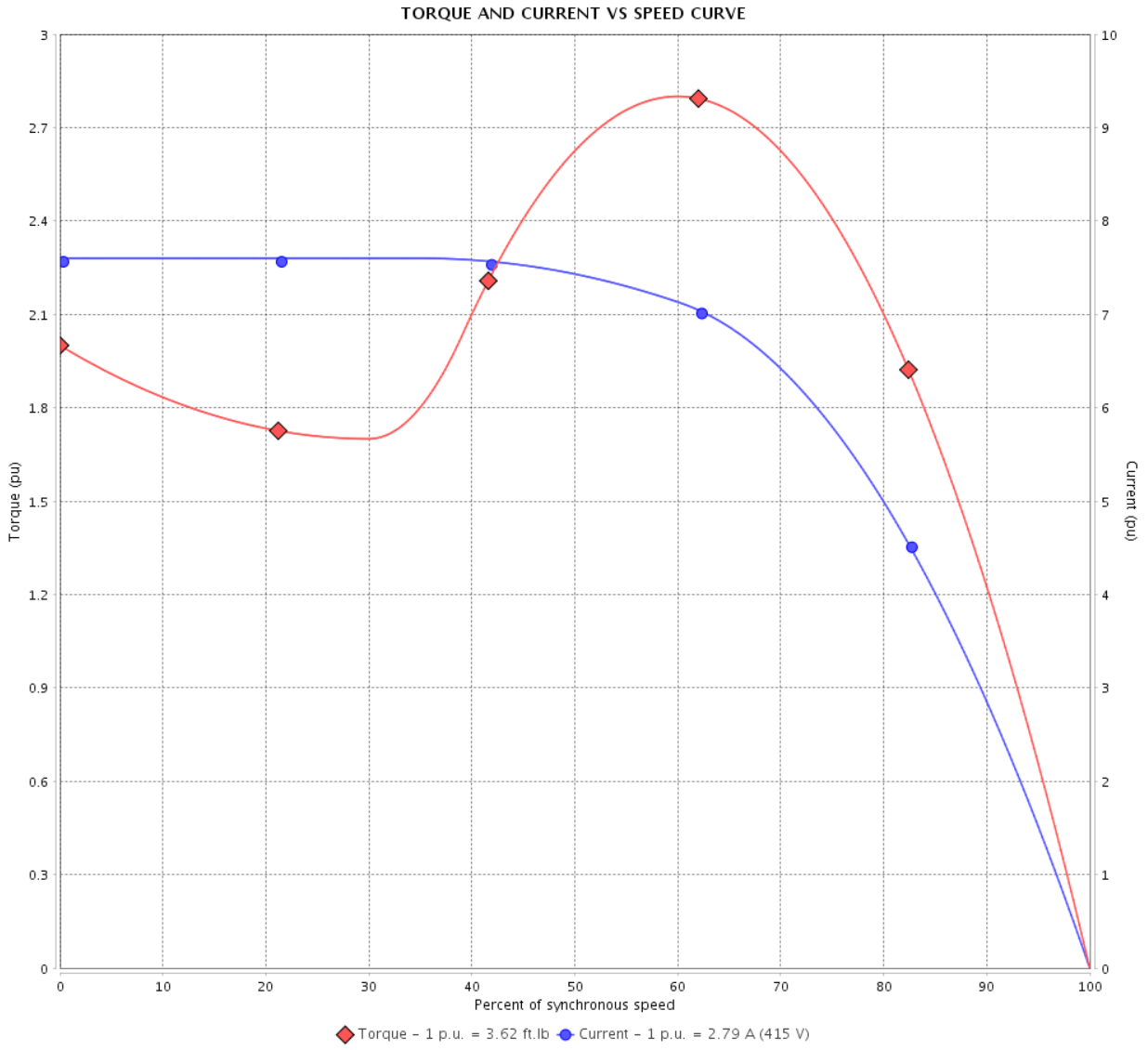

Performance	: 220/415 V 50 Hz 2P

Rated current	: 5.26/2.79 A	Moment of inertia (J)	: 0.1151 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 3.62 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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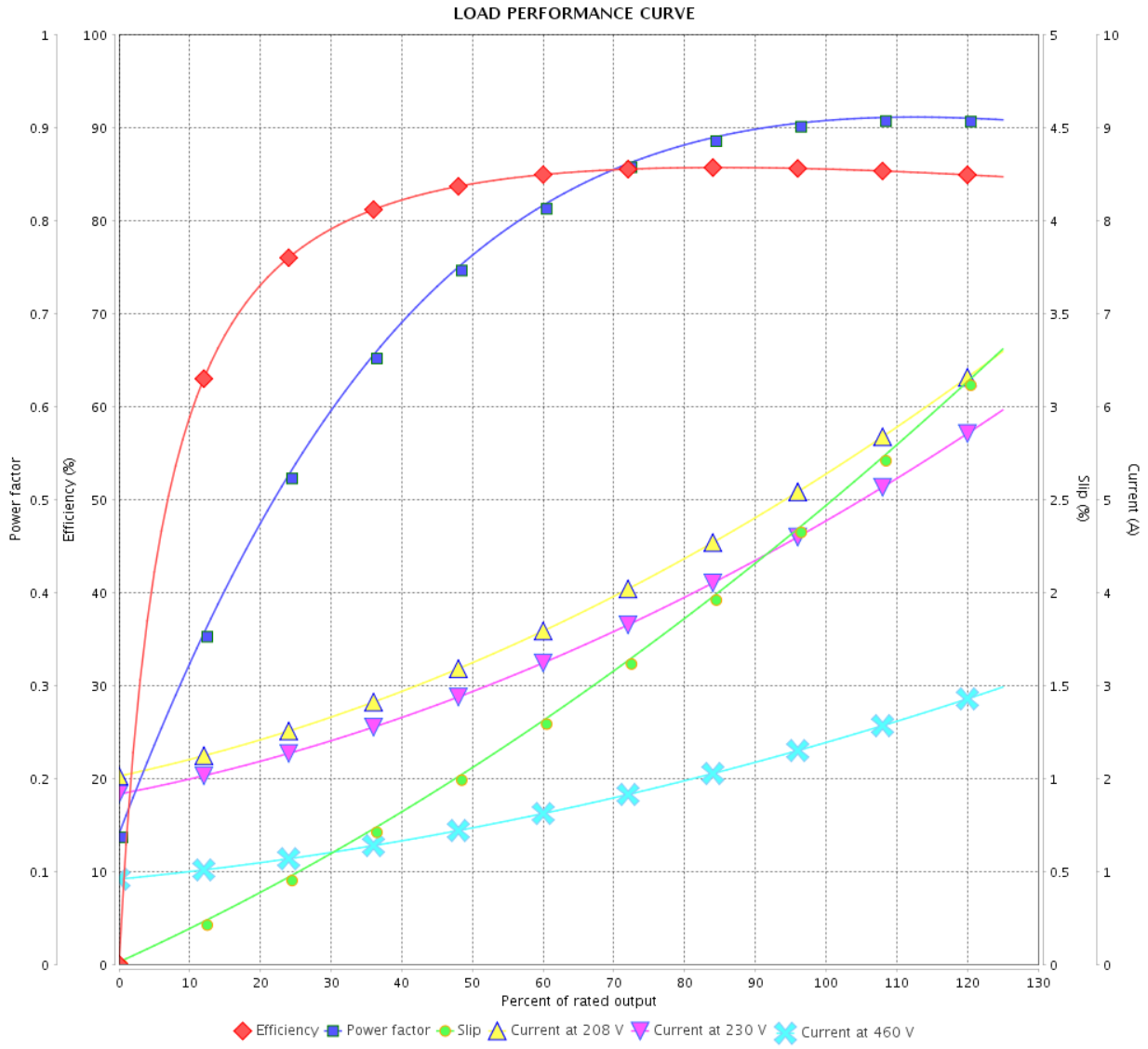

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Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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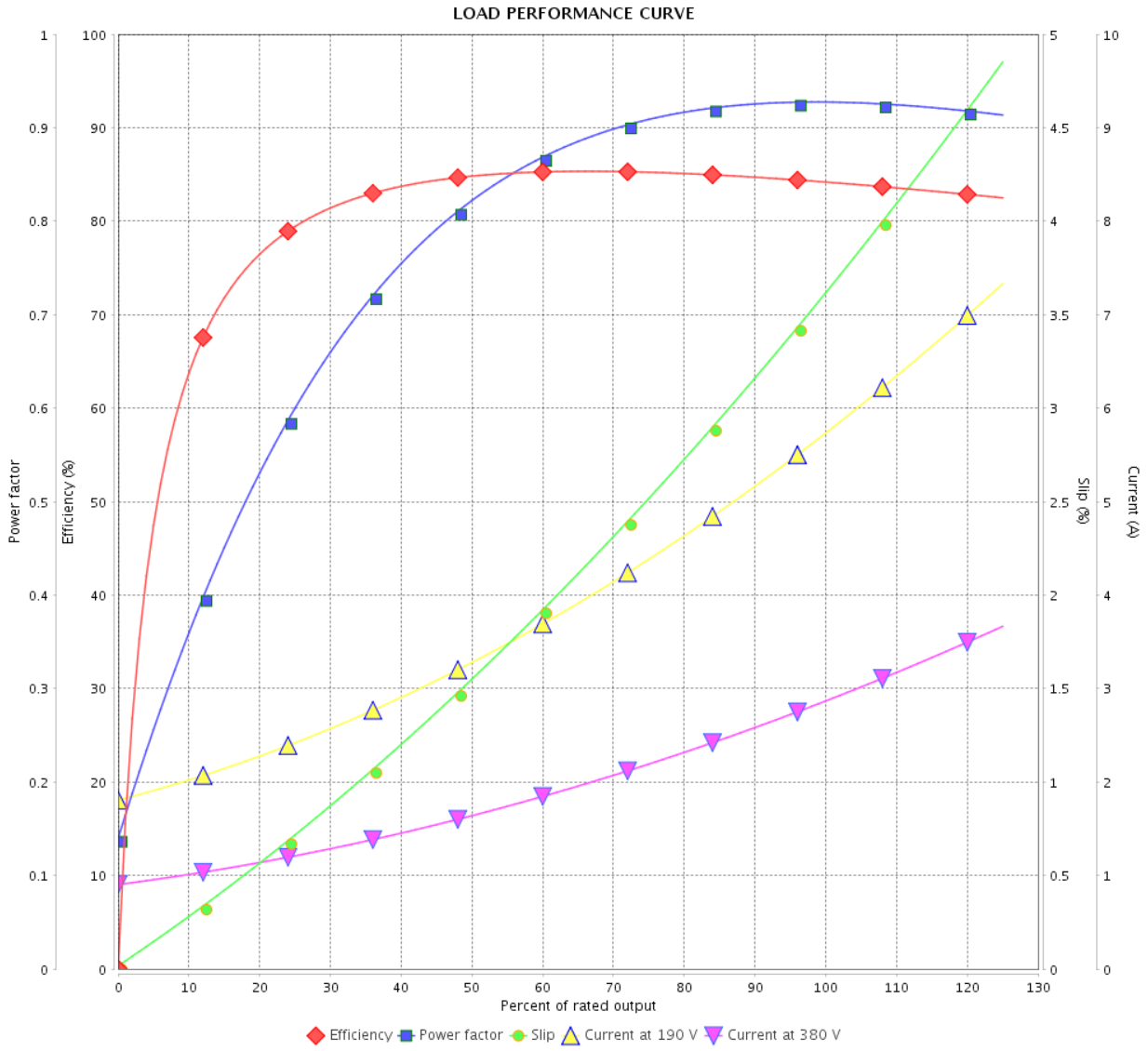

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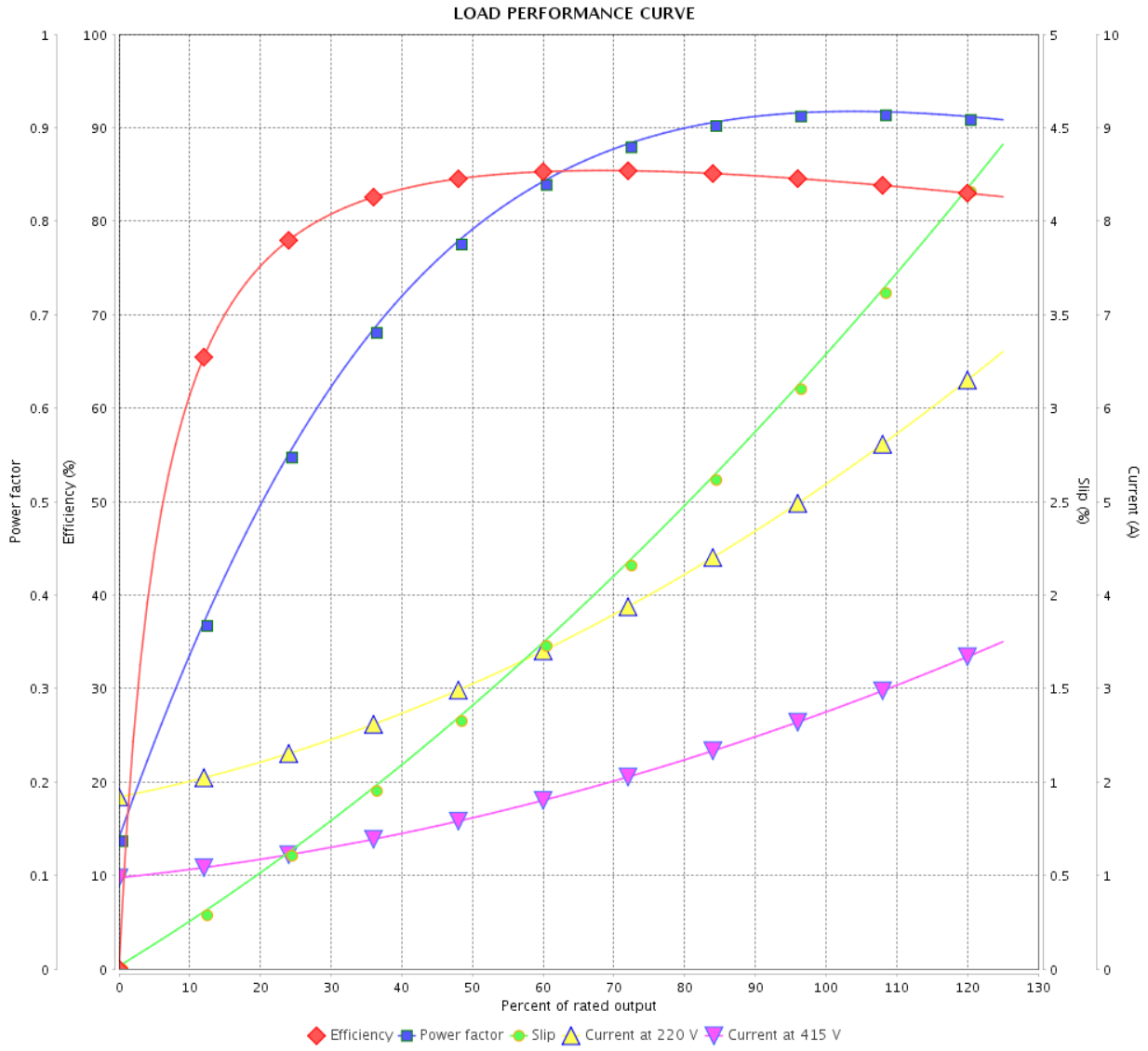

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Rated torque	: 3.62 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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THERMAL LIMIT CURVE

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Performance	: 230/460 V 60 Hz 2P		
Rated current	: 4.84/2.42 A	Moment of inertia (J)	: 0.1151 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.99 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B
Heating constant			
Cooling constant			

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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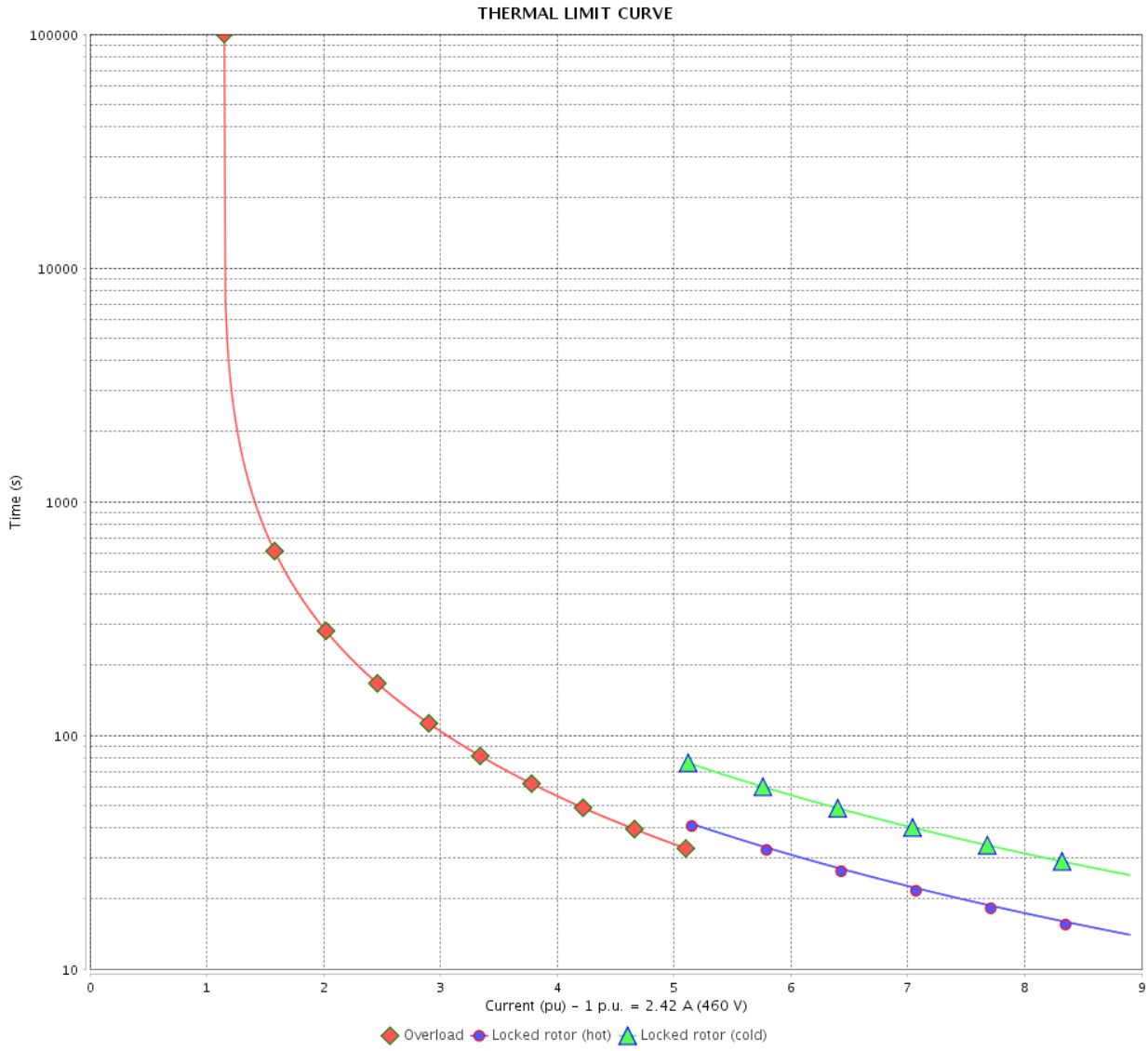

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Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B
Heating constant			
Cooling constant			

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THERMAL LIMIT CURVE

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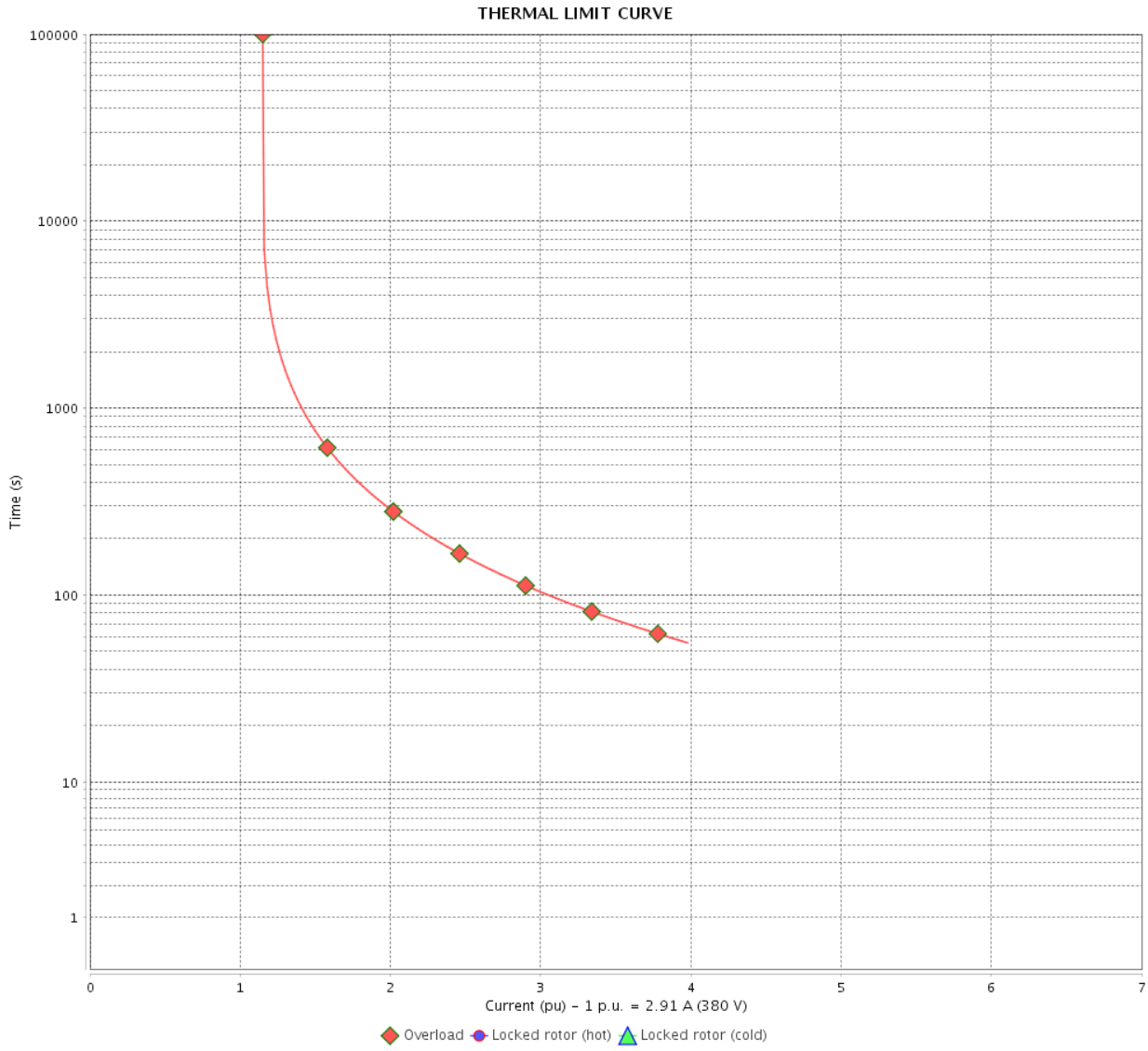

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Cooling constant			

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THERMAL LIMIT CURVE

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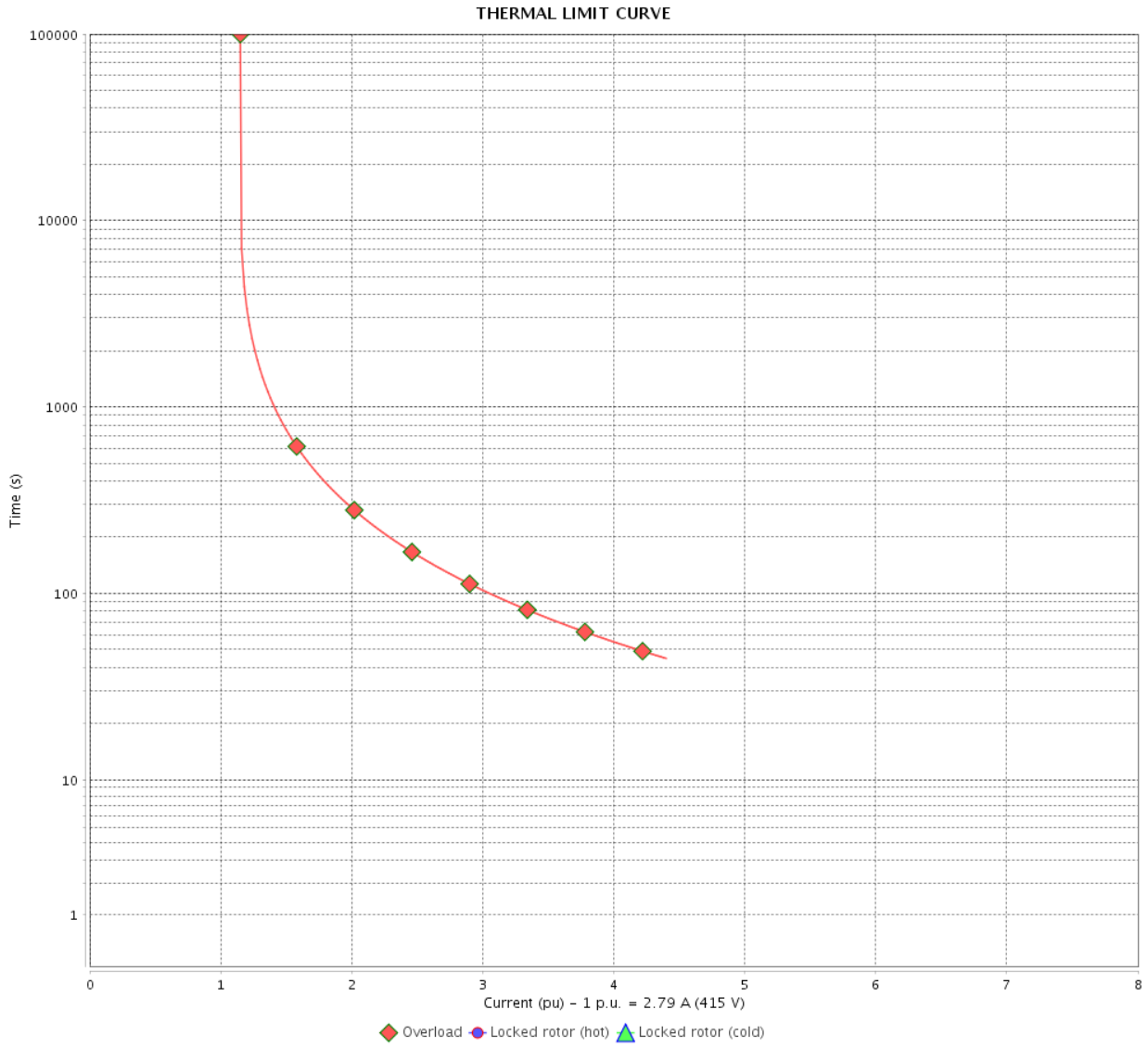

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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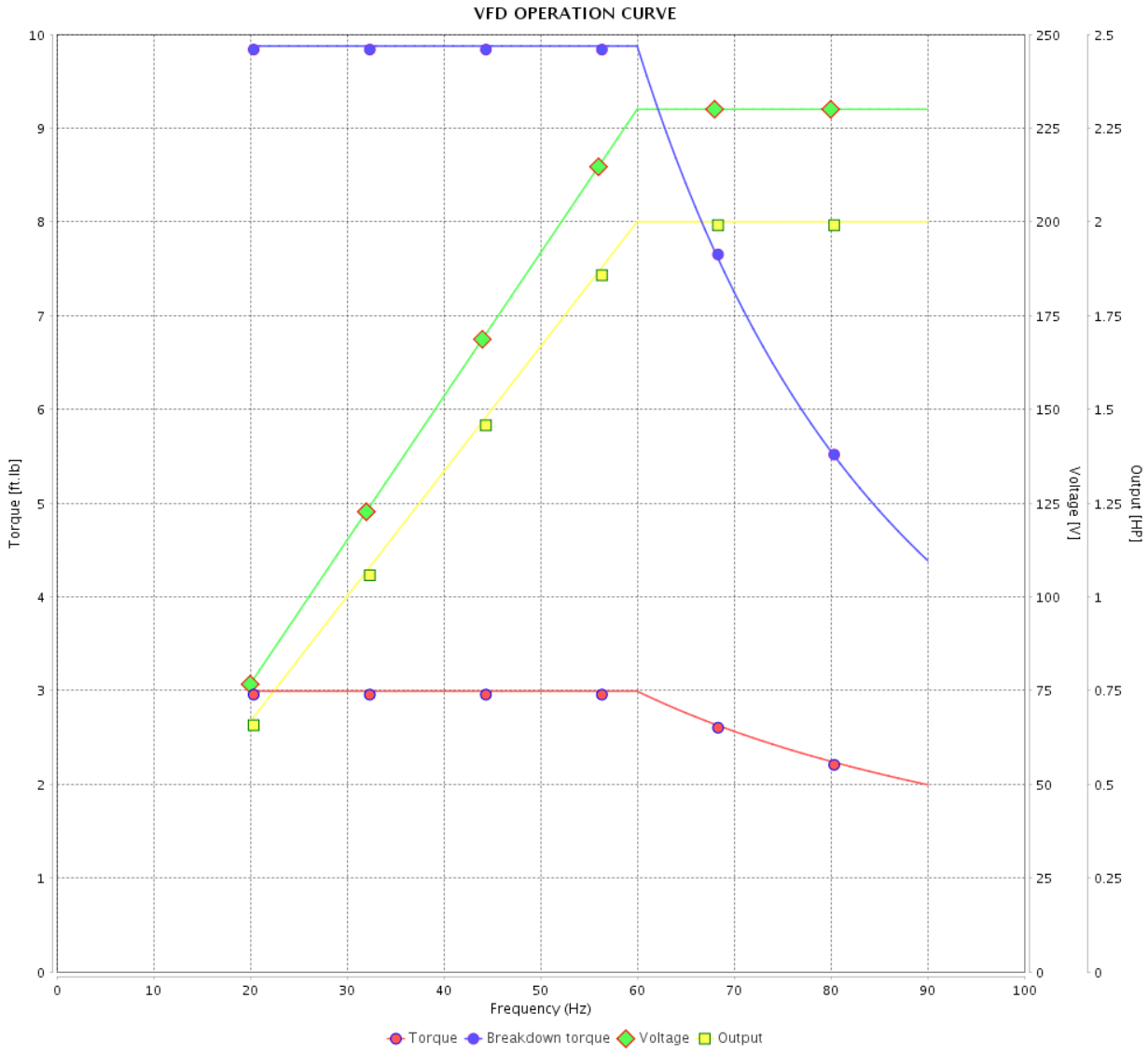

Performance	: 230/460 V 60 Hz 2P

Rated current	: 4.84/2.42 A	Moment of inertia (J)	: 0.1151 sq.ft.lb
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.99 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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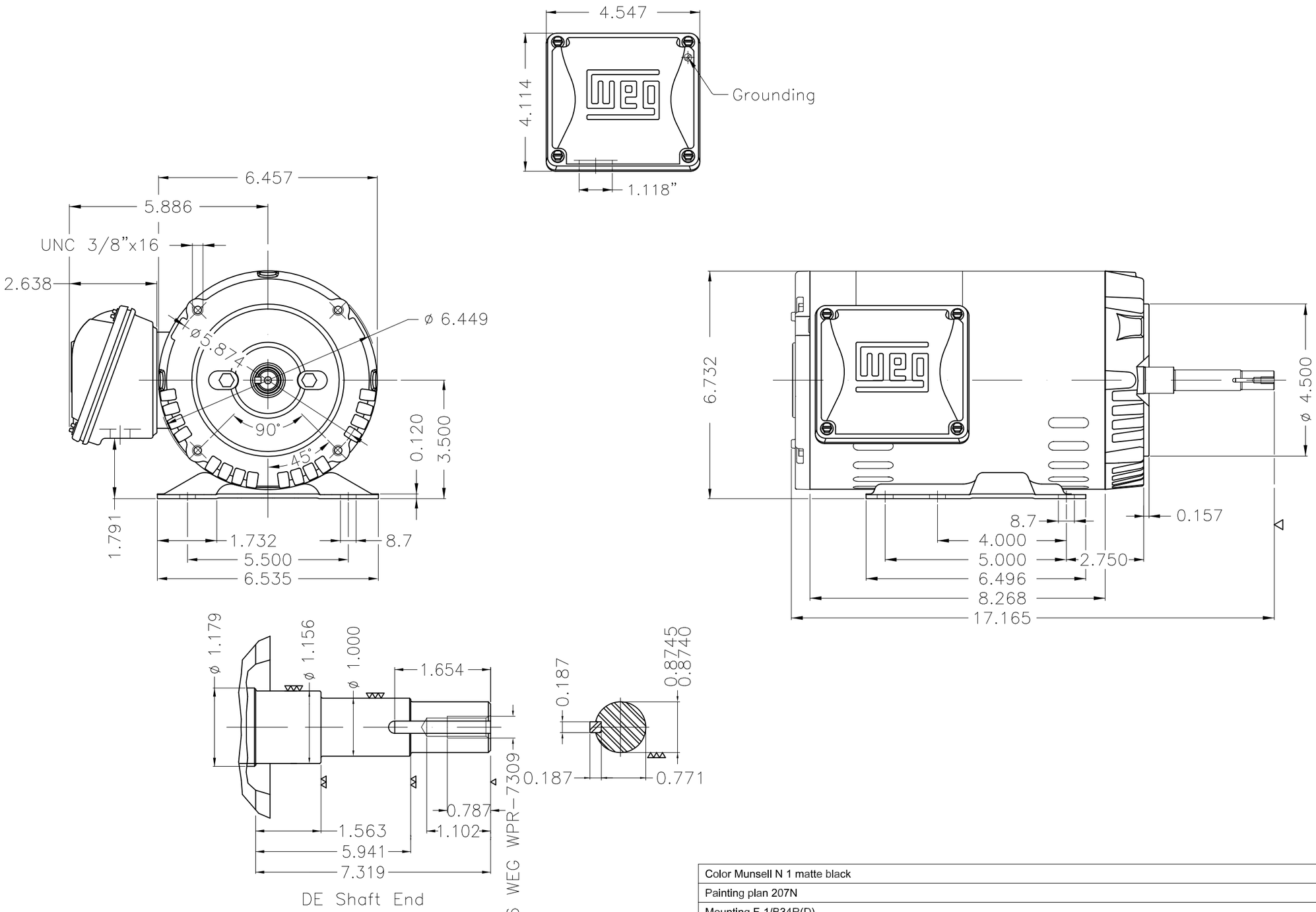


Color Munsell N 1 matte black

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 143/5JP IP21 ODP	
RELEASED			WDD
REL DT.		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

2 HP 02 Poles 60 Hz

A

Dimensions in inches

XME A3

weg NEMA Premium®

3PT9 C UL US LISTED

C SP US Energy Verified

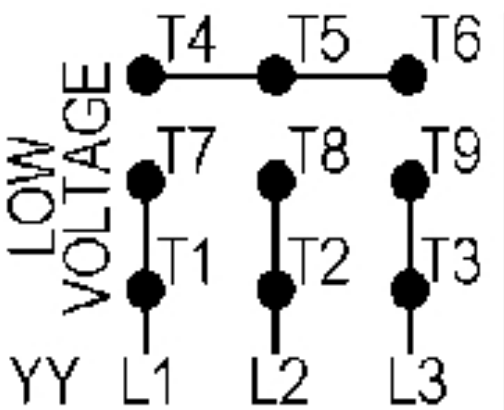
CE

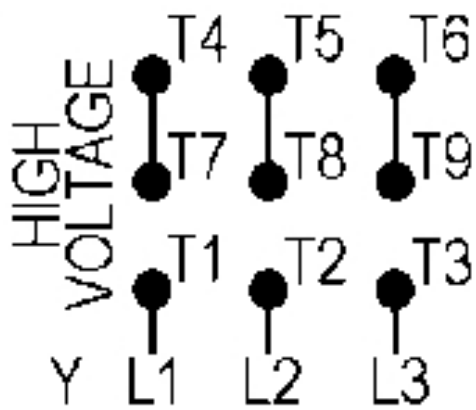
MADE IN MÉXICO

MAT: 12682712 CC029A
W01.T00IC0X0N
MODEL 00236OT3E145JP-S
11JUN2019

PH 3	FR 143/5JP	HP(kW) 2.0(1.5)	Hz 60
V 230/460		RPM 3510	
A 4.84/2.42		DUTY CONT.	
SFA 5.57/2.78		CODE K	DES B
SF 1.15	INS CL F ΔT 80K	AMB 40°C	ENCL ODP
PF 0.91	NEMA NOM.EFF. 85.5%		
ALT 1000 m.a.s.l.	USABLE @ 208V 5.35A SF1.00		

ALTERNATE RATING: 2.0HP 50Hz 190-220/380-415V SF1.15
5.82-5.11/2.91-2.71A 2890RPM EFF 84.2% (IE3) IEC 60034-1





T1-BLU T2-WHT
T3-ORG T4-YEL
T5-BLK T6-GRY
T7-PNK T8-RED
T9-RED BRK

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 3:1 CT

DE: 6206-ZZ	ODE: 6203-ZZ	MOBIL POLYREX EM

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.