

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Premium Efficiency Three-Phase	Product code :	12809201
		Catalog # :	.3336OT3E56-S
Frame	: 56	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	: 16.2 lb
		Moment of inertia (J)	: 0.0389 sq.ft.lb
Output [HP]	0.33	0.33	0.33
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.35-1.22/0.610	1.32/0.660	1.27/0.674
L. R. Amperes [A]	9.05-8.17/4.09	7.13/3.56	7.12/3.77
LRC [A]	6.7x(Code L)	5.4x(Code J)	5.6x(Code J)
No load current [A]	0.776-0.900/0.450	0.866/0.433	0.934/0.495
Rated speed [RPM]	3520	2890	2905
Slip [%]	2.22	3.67	3.17
Rated torque [ft.lb]	0.492	0.600	0.597
Locked rotor torque [%]	250	180	200
Breakdown torque [%]	320	250	280
Service factor		1.35	1.35
Temperature rise	80 K	80 K	80 K
Locked rotor time	68s (cold) 38s (hot)	82s (cold) 46s (hot)	75s (cold) 42s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	54.7	57.0
	50%	57.5	59.5
	75%	66.0	66.6
	100%	69.5	69.5
Power Factor	25%	0.30	0.31
	50%	0.54	0.56
	75%	0.65	0.69
	100%	0.74	0.77
Bearing type	: Drive end 6203 ZZ Non drive end 6202 ZZ	Foundation loads	
Sealing	: Without Without Bearing Seal Bearing Seal	Max. traction	: 8 lb
		Max. compression	: 24 lb
Lubrication interval	: - -		
Lubricant amount	: - -		
Lubricant type	: Mobil Polyrex EM		
Notes USABLE @208V SF 1.00			
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 : Premium Efficiency Three-Phase

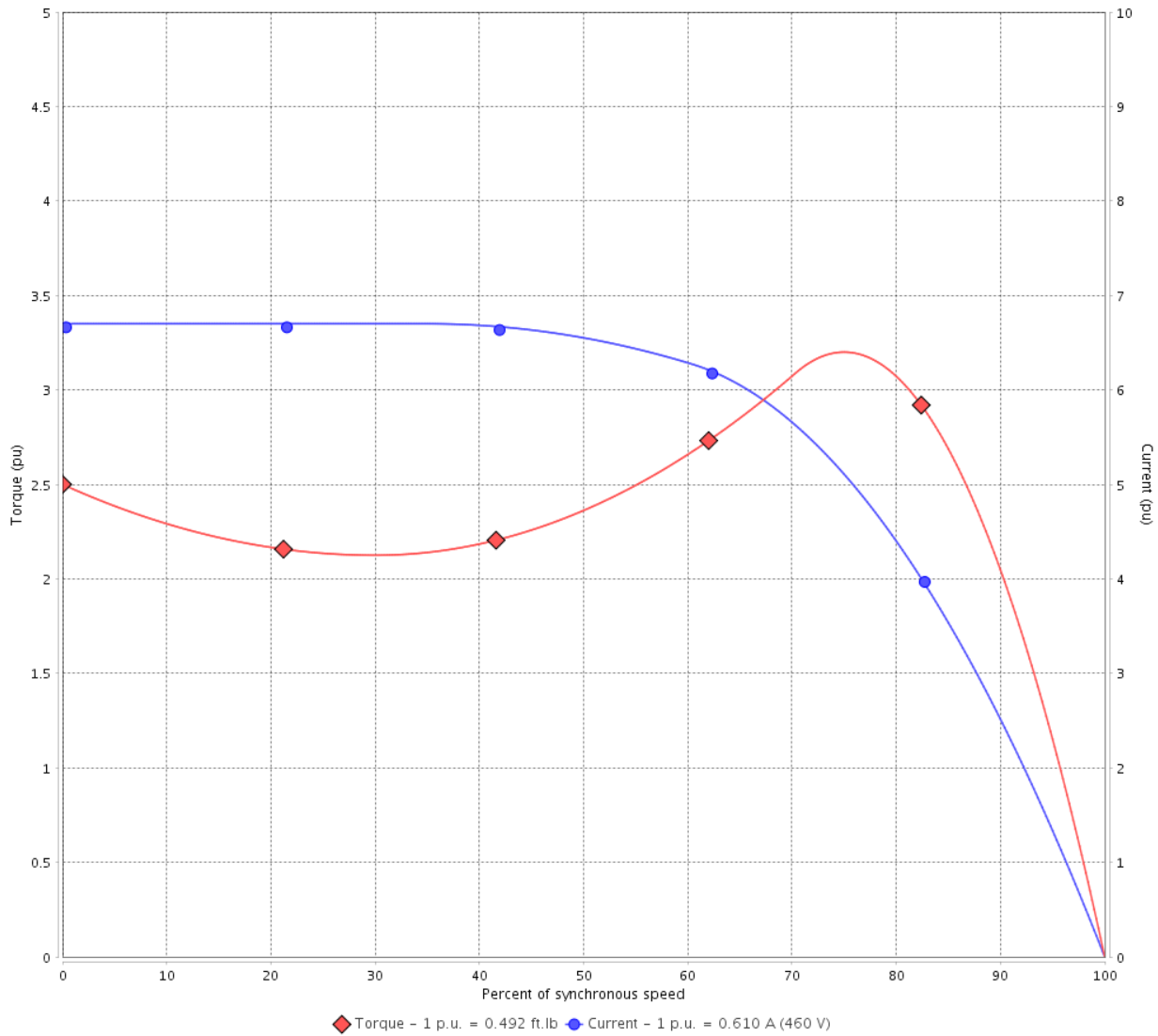
Product code :

12809201

Catalog # :

.3336OT3E56-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 208-230/460 V 60 Hz 2P

Rated current : 1.35-1.22/0.610 A
 LRC : 6.7
 Rated torque : 0.492 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 320 %
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0389 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K

Locked rotor time : 68s (cold) 38s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage

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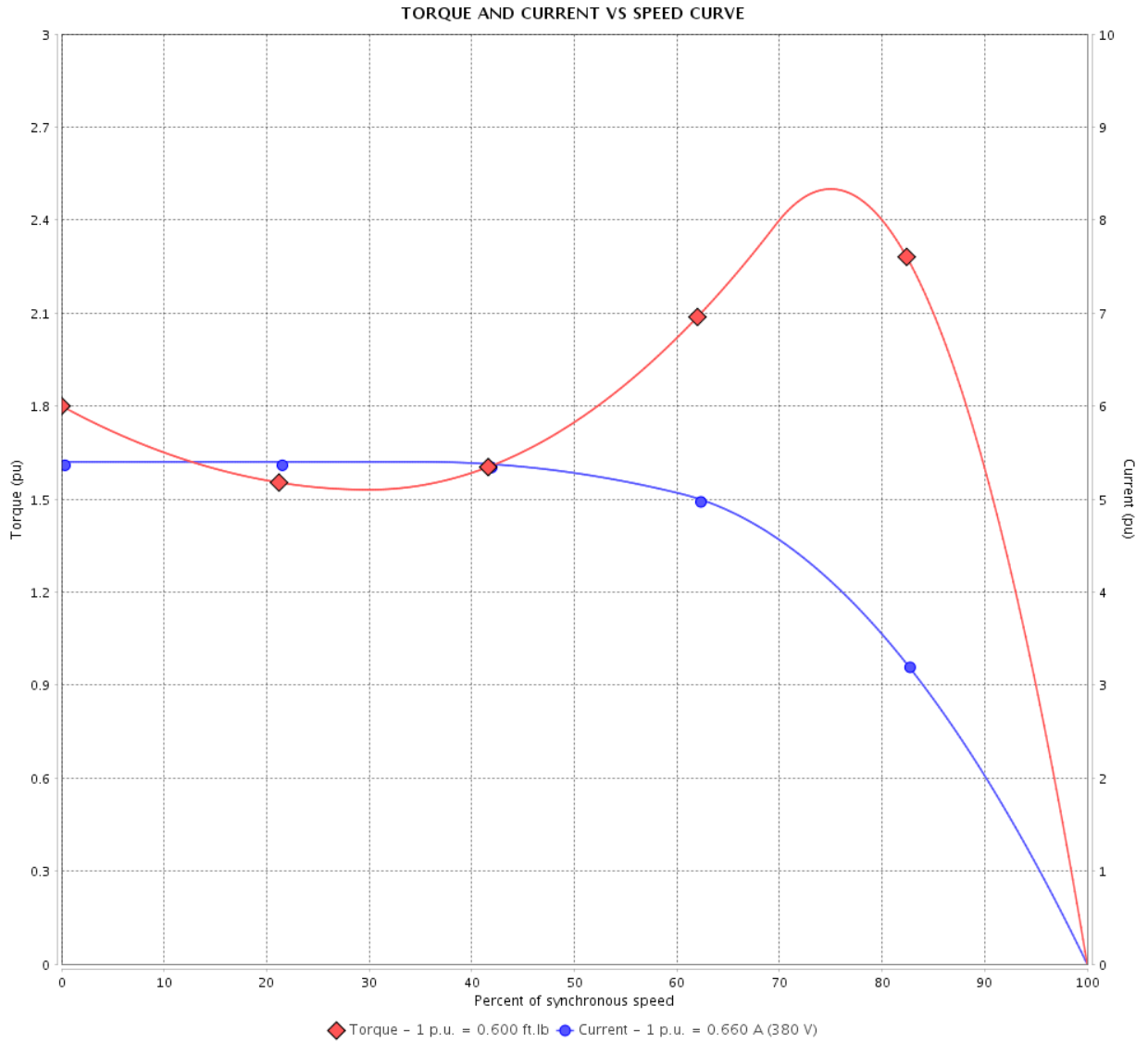
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.3336OT3E56-S



Performance : 190/380 V 50 Hz 2P

Rated current : 1.32/0.660 A
 LRC : 5.4
 Rated torque : 0.600 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 2890 rpm

Moment of inertia (J) : 0.0389 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.35
 Temperature rise : 80 K

Locked rotor time : 82s (cold) 46s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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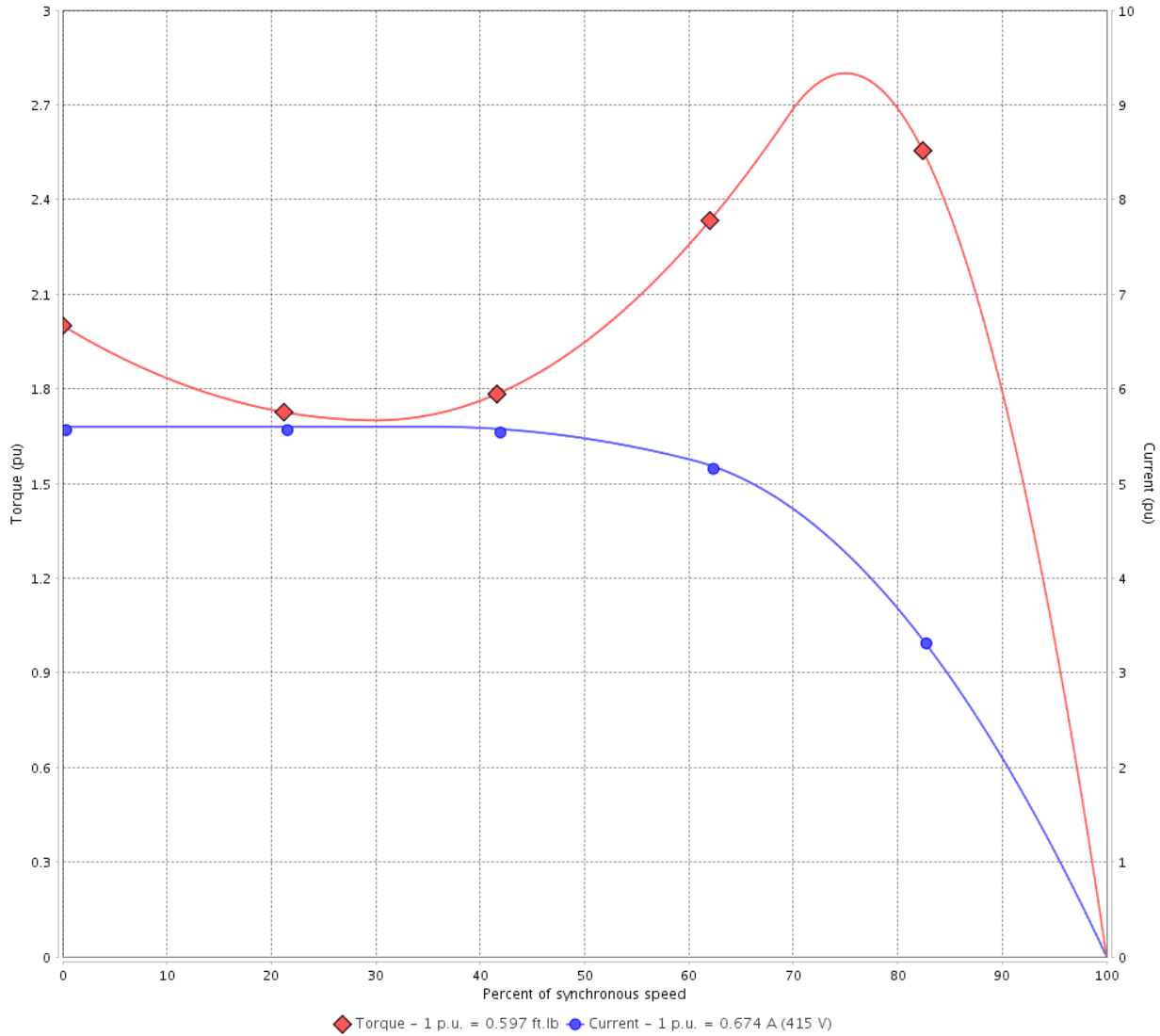
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 2P

Rated current : 1.27/0.674 A
 LRC : 5.6
 Rated torque : 0.597 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 280 %
 Rated speed : 2905 rpm

Moment of inertia (J) : 0.0389 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.35
 Temperature rise : 80 K

Locked rotor time : 75s (cold) 42s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

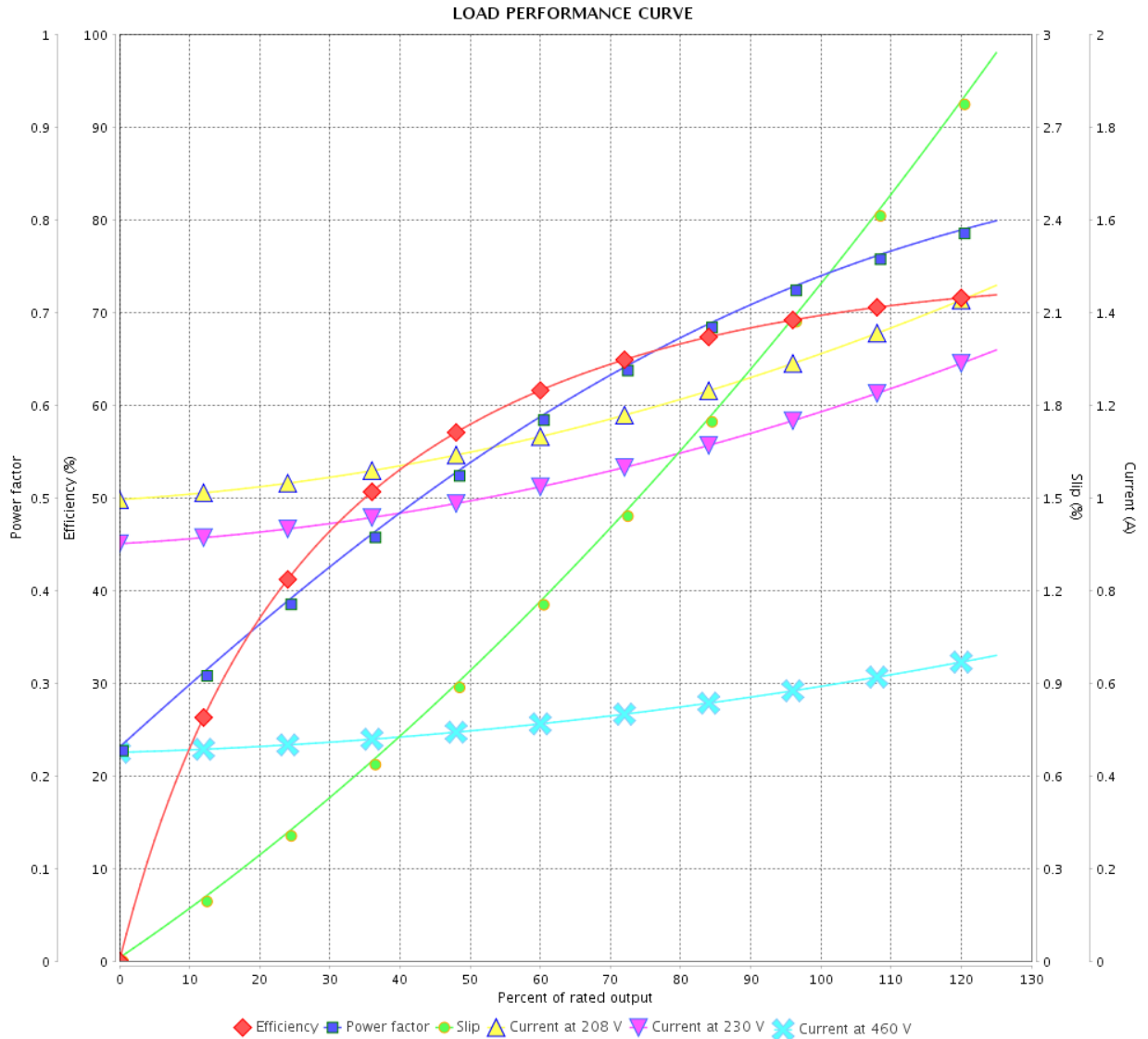
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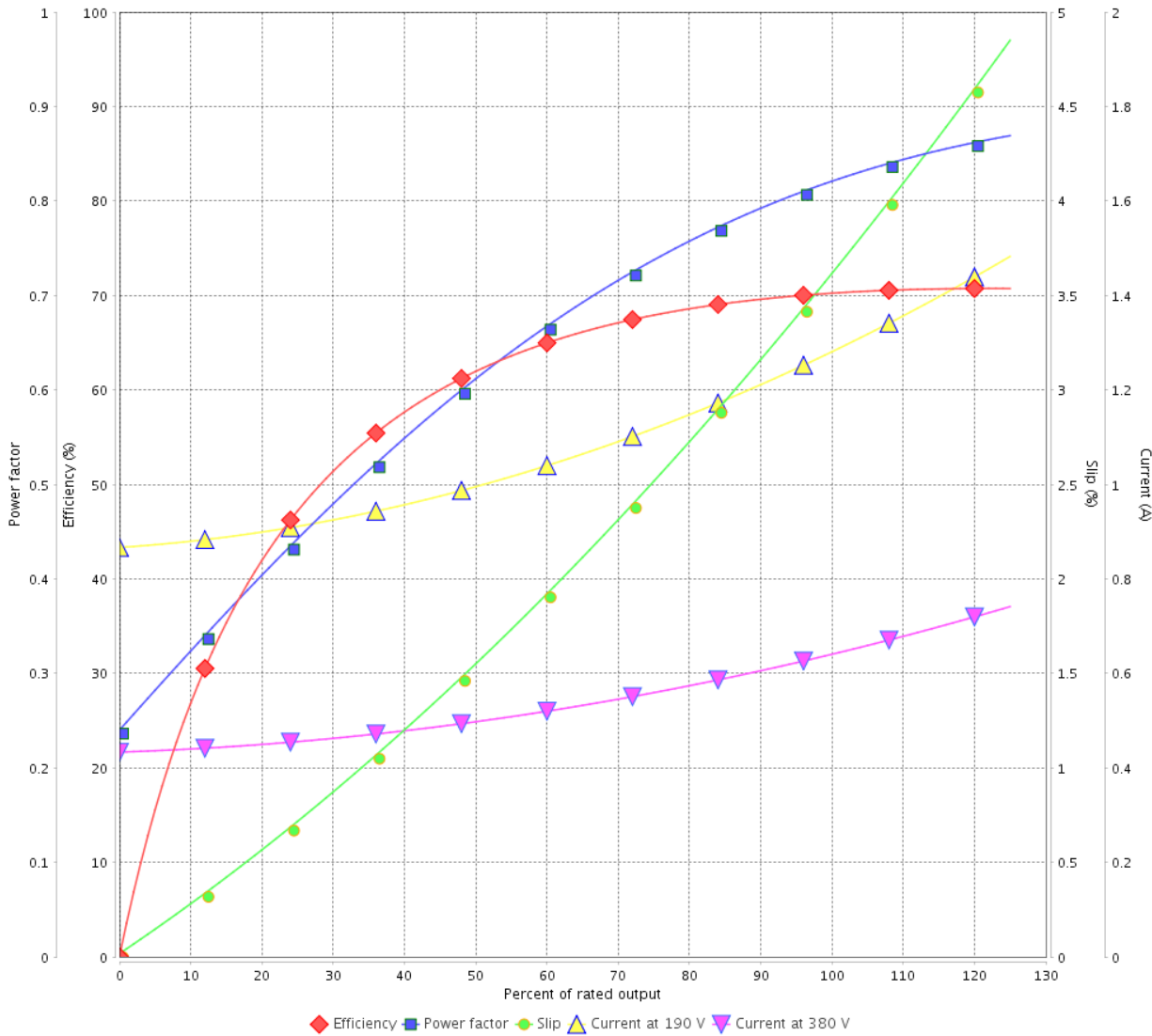
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Customer :

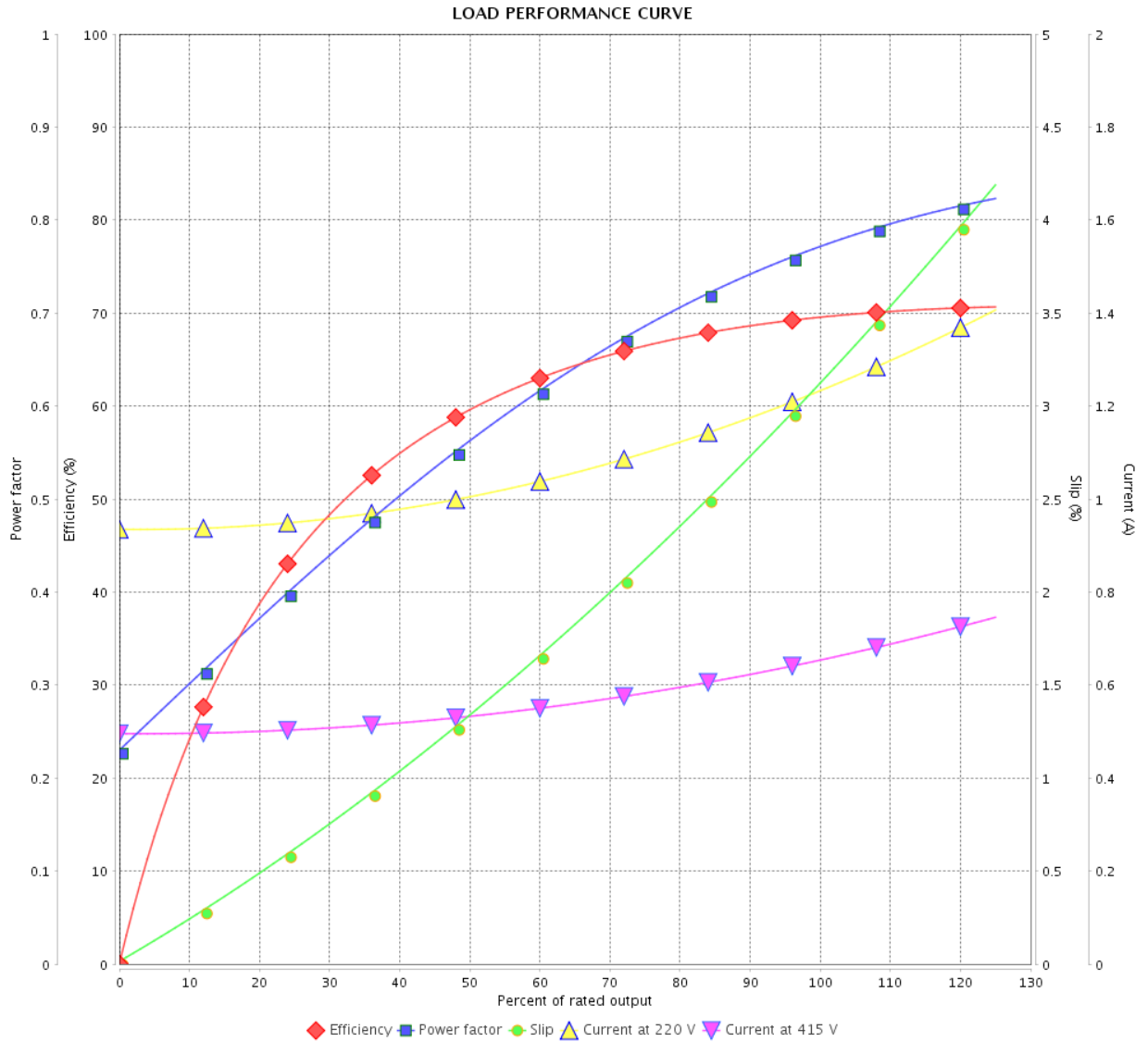
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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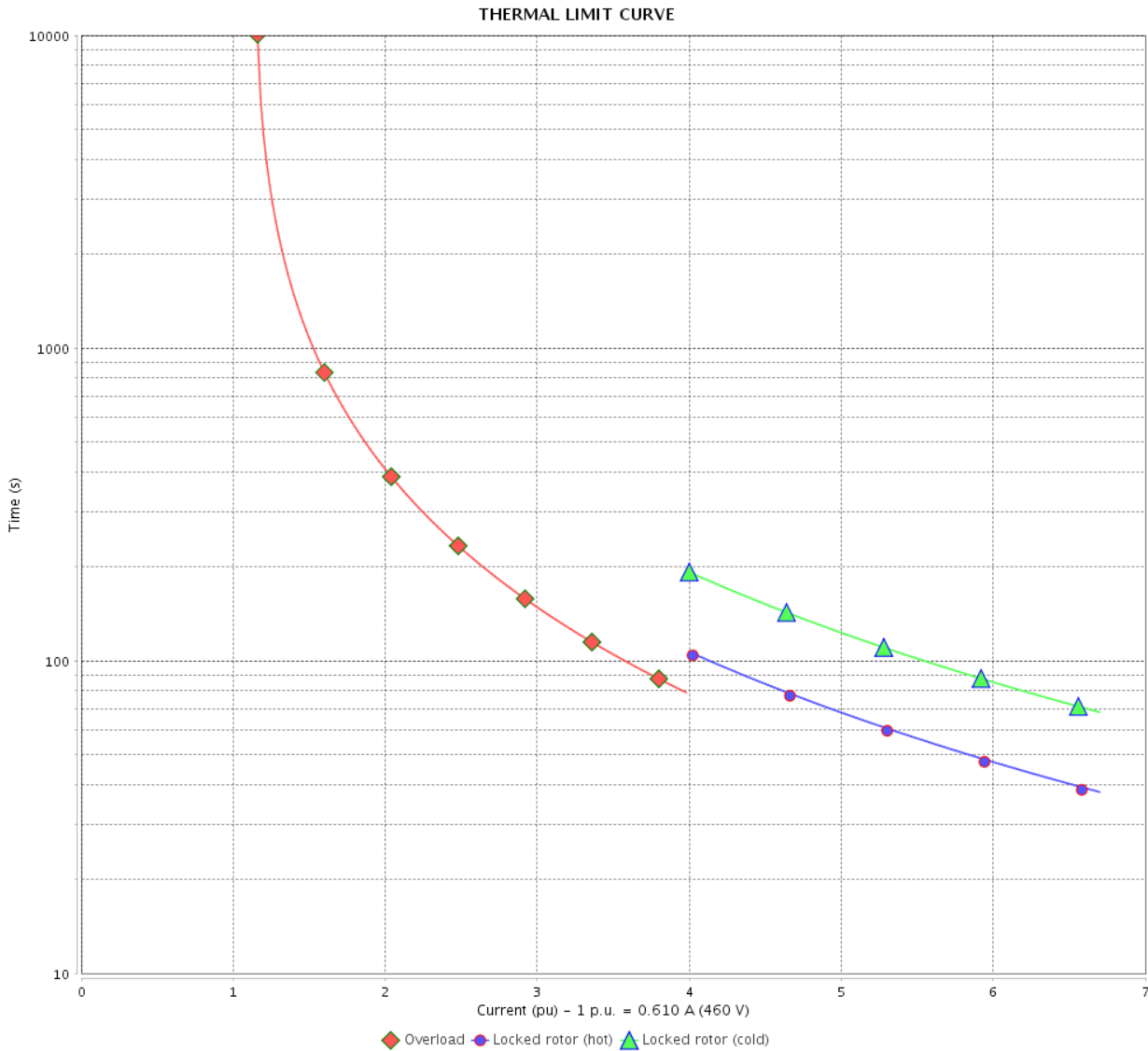
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Heating constant

Cooling constant

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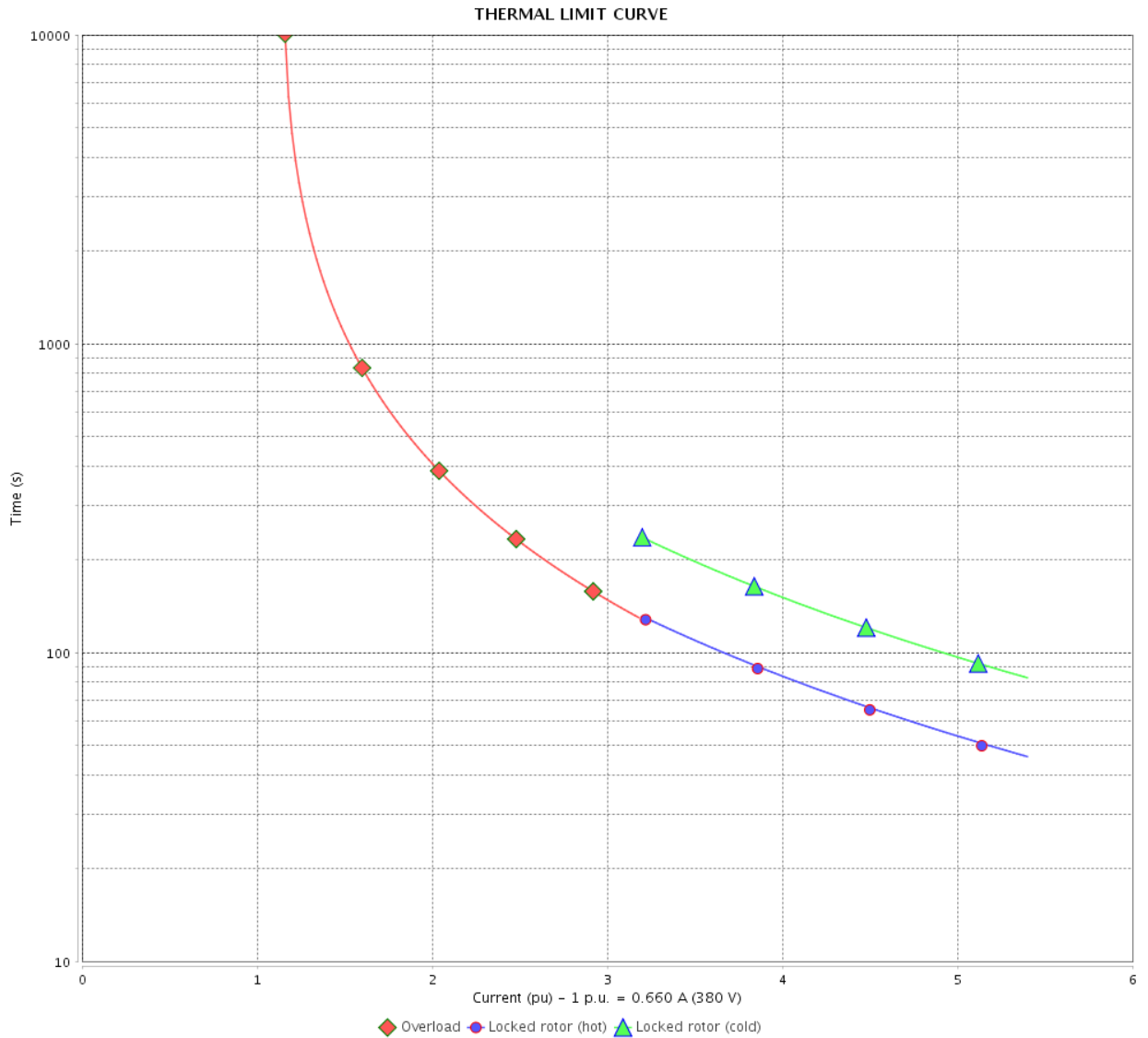
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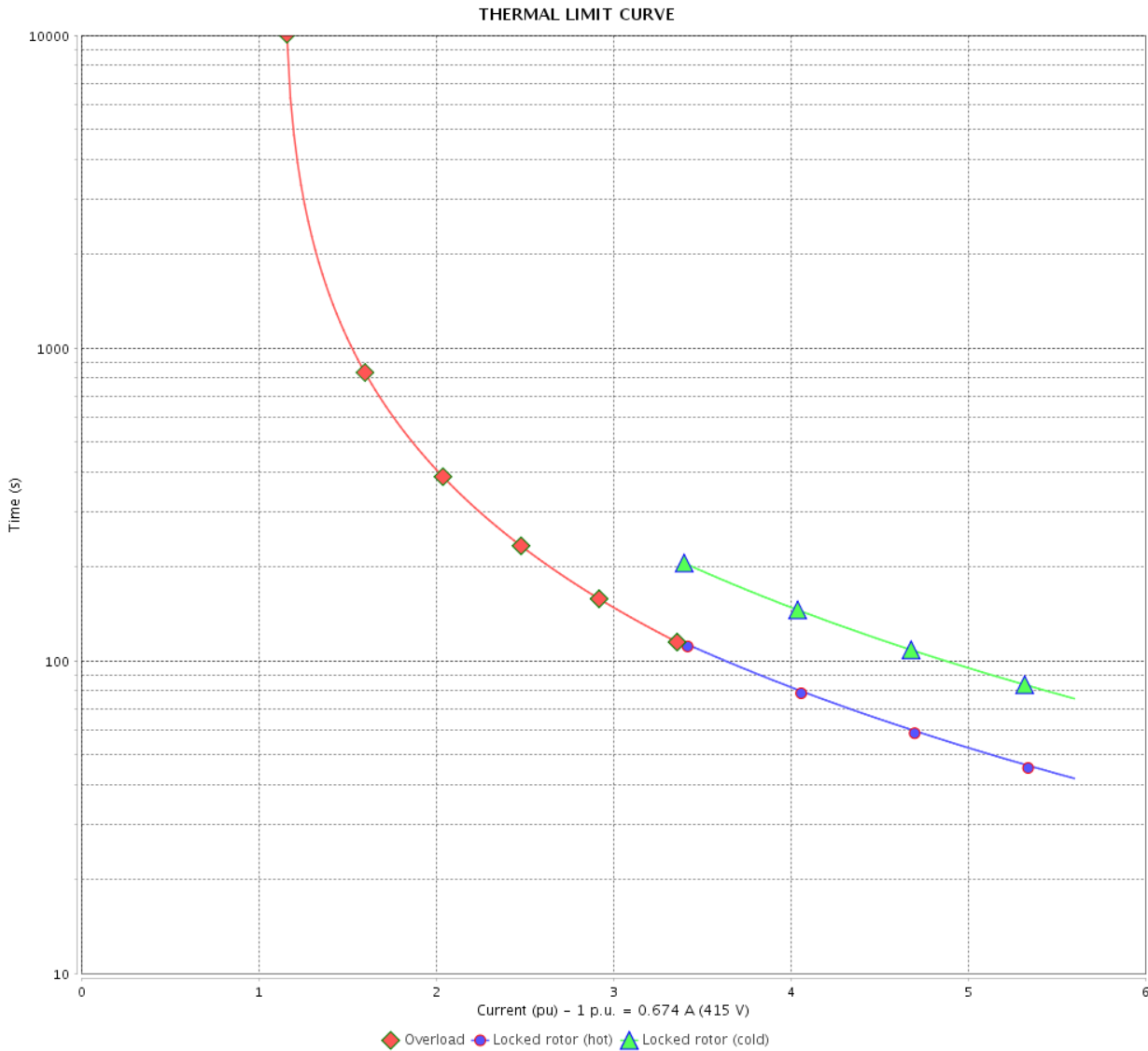
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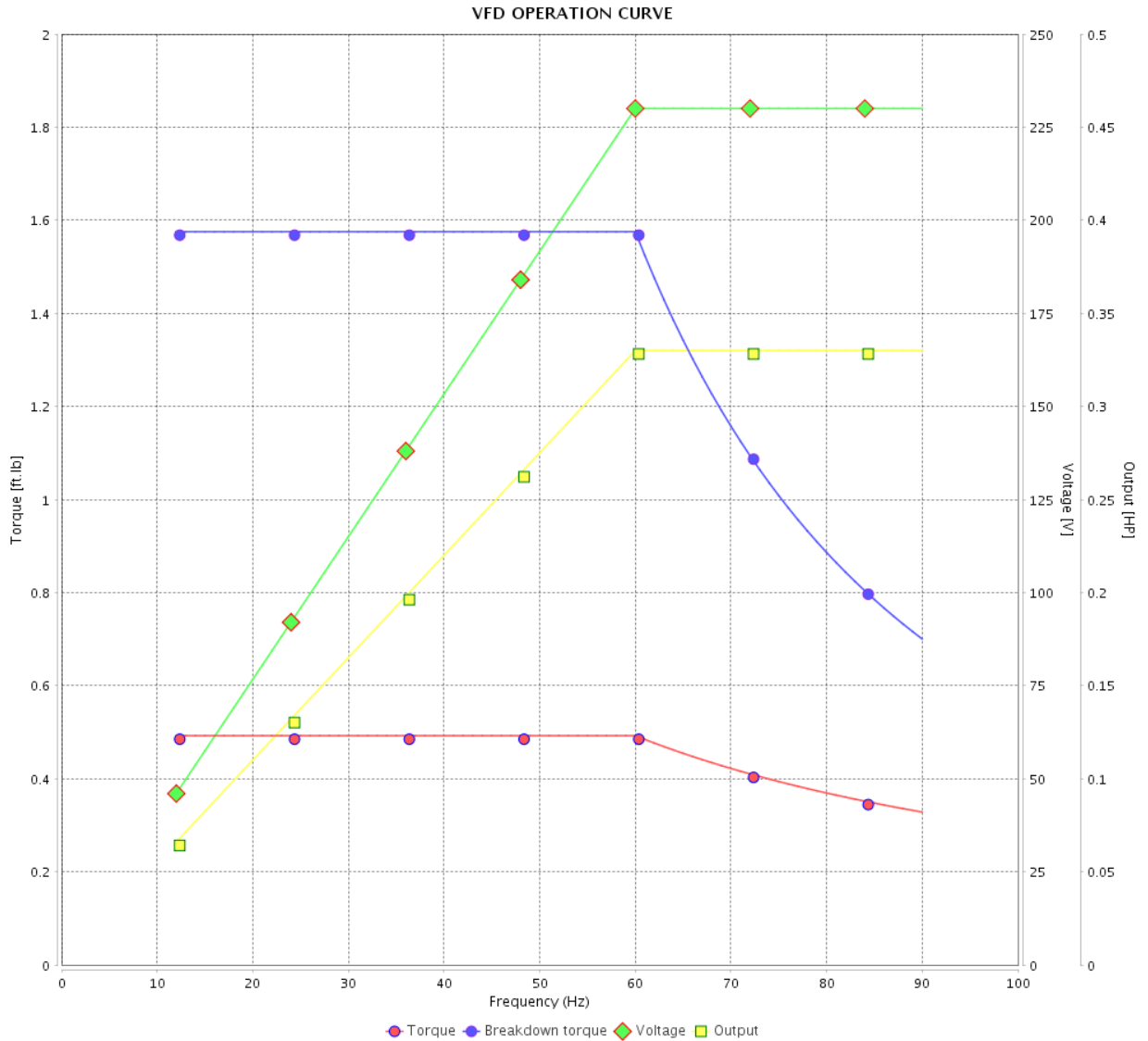
VFD OPERATION CURVE

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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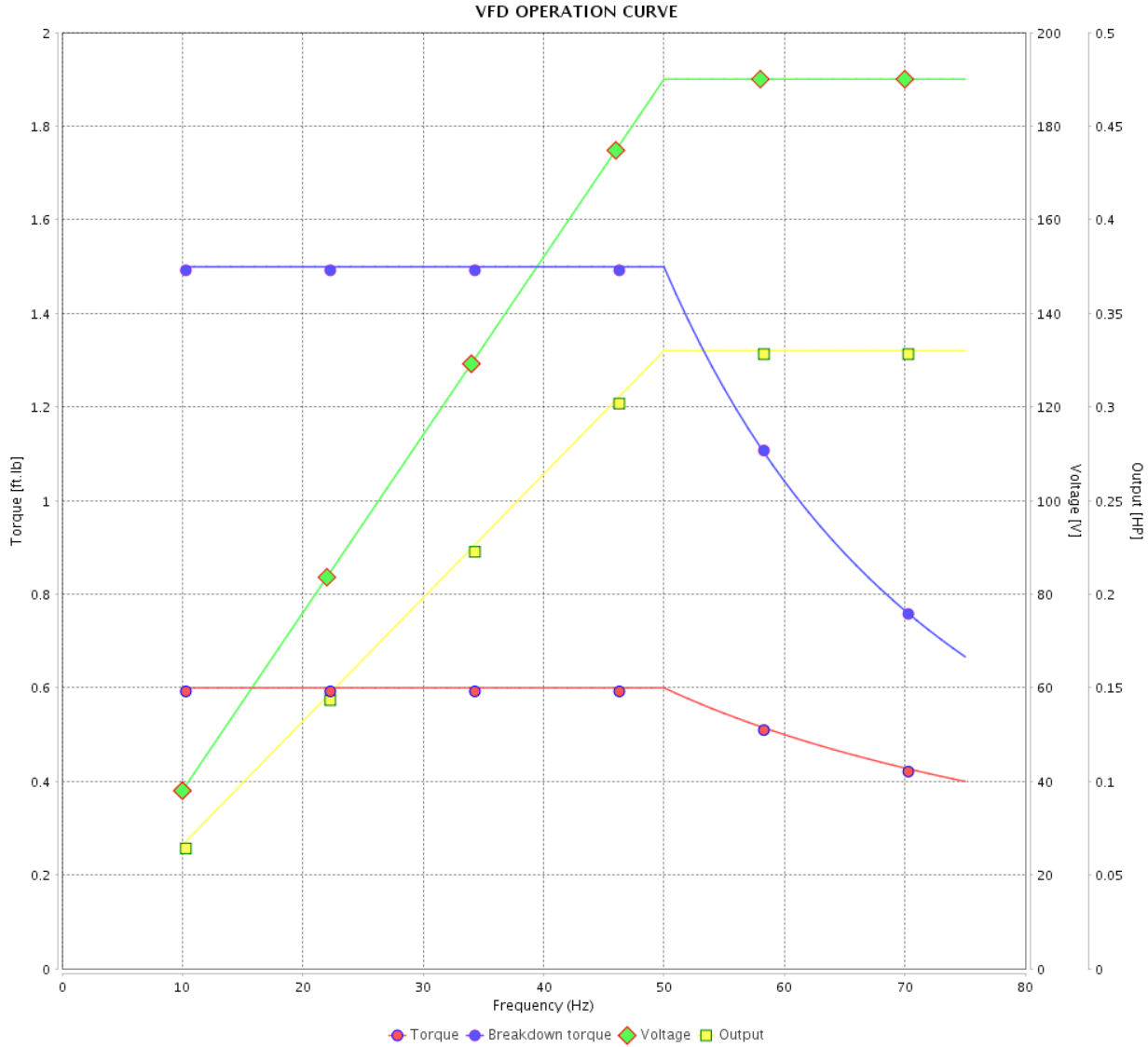
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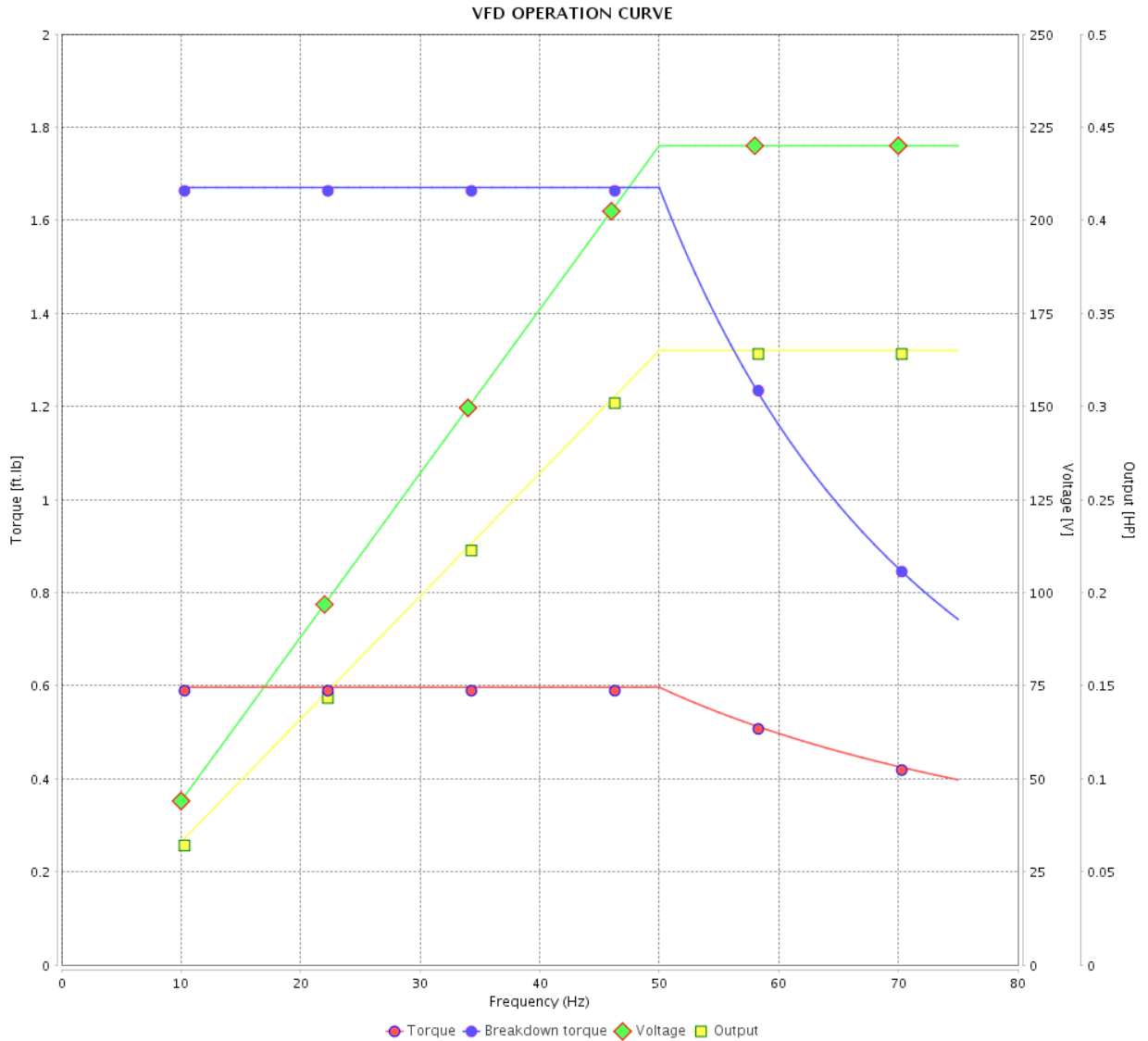
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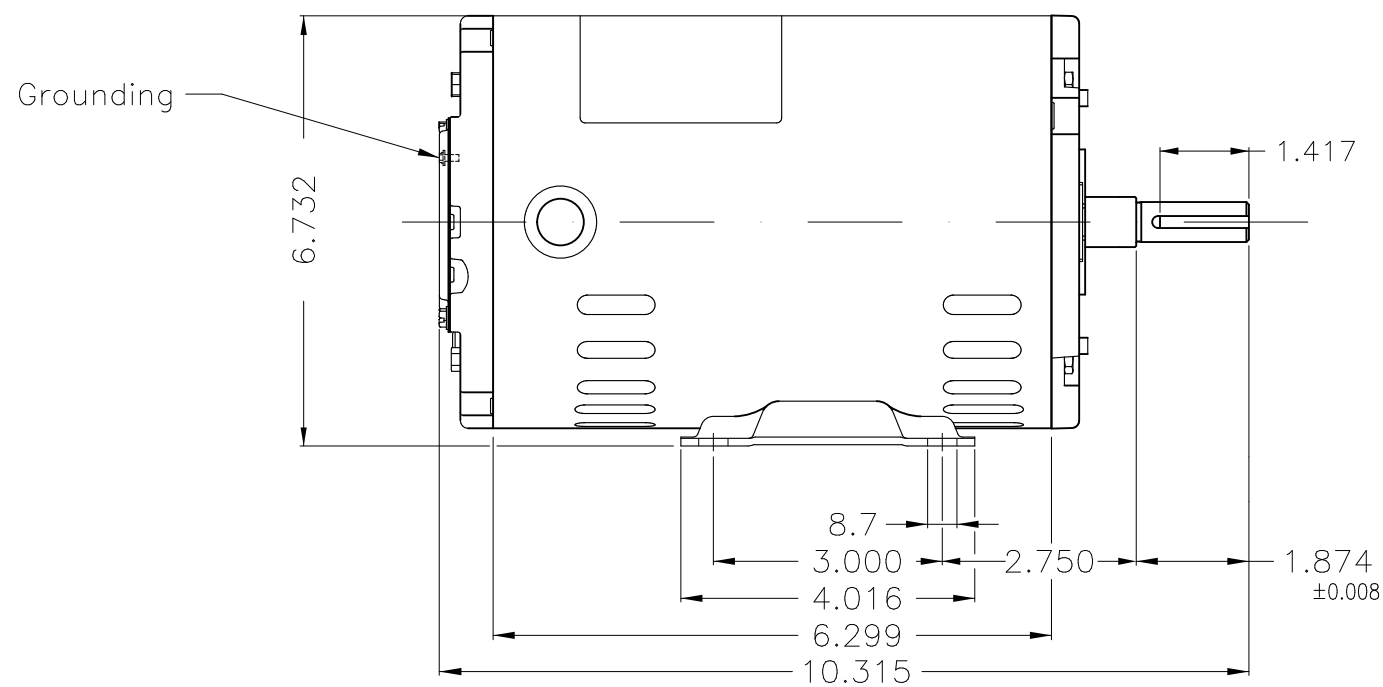
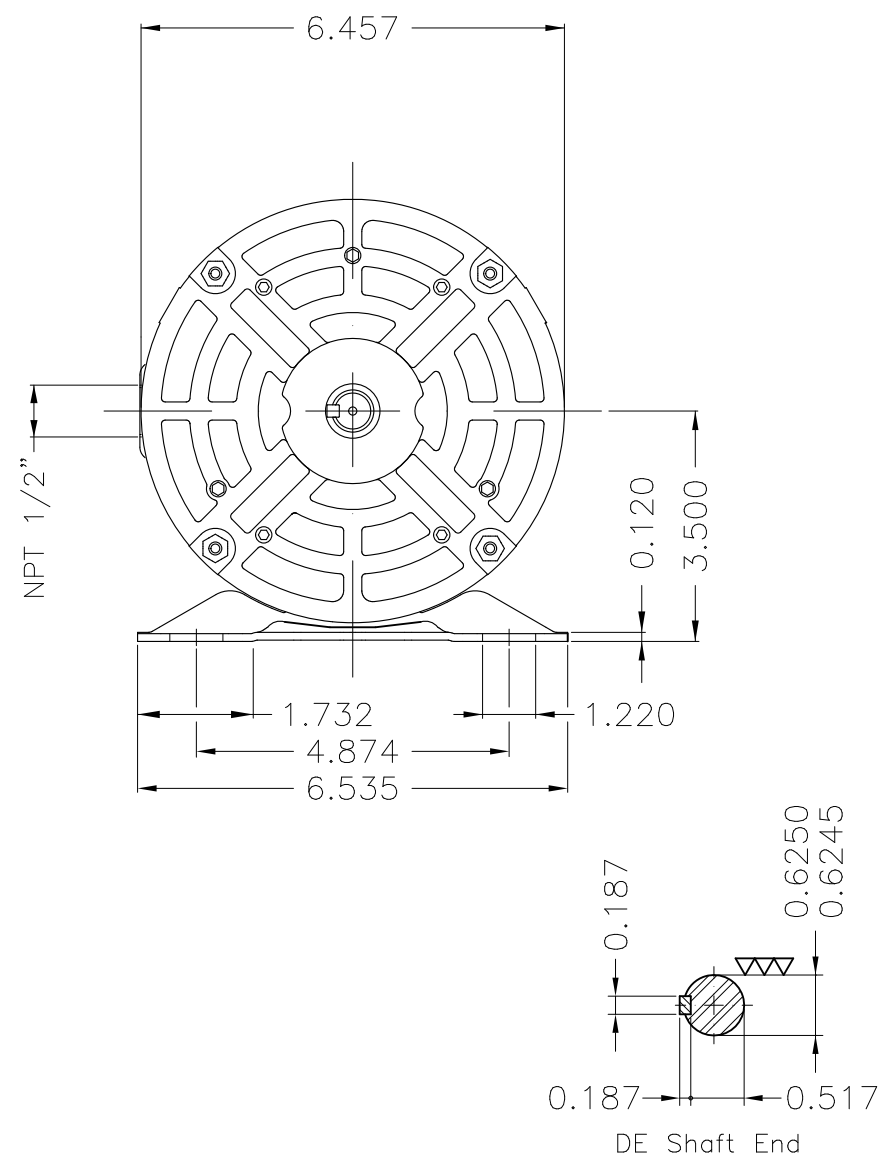
A

B

C

D

E



Without coating									
Mounting F-1/B3R(D)									
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWUSER	THREE PH. MOTOR ROLLED STEEL PREM. EFF.				PREVIEW WDD			
CHECKED		FRAME 56 IP21 ODP							
RELEASED									
REL DT.		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

0.33 HP 02 Poles 60 Hz

A



NEMA
Premium



3PT9



Energy Verified

MADE IN MEXICO

MAT: 1280920X

W01.T00IC0X0X

MODEL 33360T3E56-S

28FEB2022 B/N:



PH 3	Hz 60	HP 0.33
FR 56		KW 0.25
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 1.22/0.610
INS CL F AT 80K		SFA 1.65/0.824
AMB 40°C	DES -	SF 1.35
ENCL ODP	CODE L	PF 0.74
USABLE @ 208V 1.35A		RPM 3520
SF1.00		AVG.F.L. 69.5%

ALTERNATE RATING: 0.33HP 50Hz 190-220/380-415V SF1.35
1.32-1.29/0.660-0.684A 2890RPM EFF 88.7% (IE2) IEC 60034-1

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT

DE 6203-ZZ	ODE 6202-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.

