

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line	: NEMA Premium Efficiency Three-Phase	
Product code :	12617113	
Catalog # :	00112OT3E145T-S	
Frame	: 143/5T	
Insulation class	: F	
Duty cycle	: Cont.(S1)	
Ambient temperature	: -20°C to +40°C	
Altitude	: 1000 m.a.s.l.	
Design	: B	
Cooling method	: IC01 - ODP	
Mounting	: F-1	
Rotation ¹	: Both (CW and CCW)	
Starting method	: Direct On Line	
Approx. weight ²	: 34.9 lb	
Moment of inertia (J)	: 0.1419 sq.ft.lb	
Output [HP]	1	
Poles	6	
Frequency [Hz]	60	
Rated voltage [V]	230/460	
Rated current [A]	3.30/1.65	
L. R. Amperes [A]	20.1/10.1	
LRC [A]	6.1x(Code K)	
No load current [A]	2.26/1.13	
Rated speed [RPM]	1150	
Slip [%]	4.17	
Rated torque [ft.lb]	4.57	
Locked rotor torque [%]	250	
Breakdown torque [%]	300	
Service factor	1.00	
Temperature rise	80 K	
Locked rotor time	43s (cold) 24s (hot)	
Noise level ²	50.0 dB(A)	
Efficiency (%)	25%	77.2
	50%	78.5
	75%	81.5
	100%	82.5
Power Factor	25%	0.26
	50%	0.47
	75%	0.60
	100%	0.69
Bearing type	: <u>Drive end</u> 6205 ZZ <u>Non drive end</u> 6203 ZZ	
Sealing	: Without Without Bearing Seal Bearing Seal	
Lubrication interval	: - -	
Lubricant amount	: - -	
Lubricant type	: Mobil Polyrex EM	
Foundation loads	Max. traction : 100 lb Max. compression : 135 lb	
Notes USABLE @208V 3.65A SF 1.00 SFA 3.65A		
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	
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Checked by	Checked	
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Revision		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



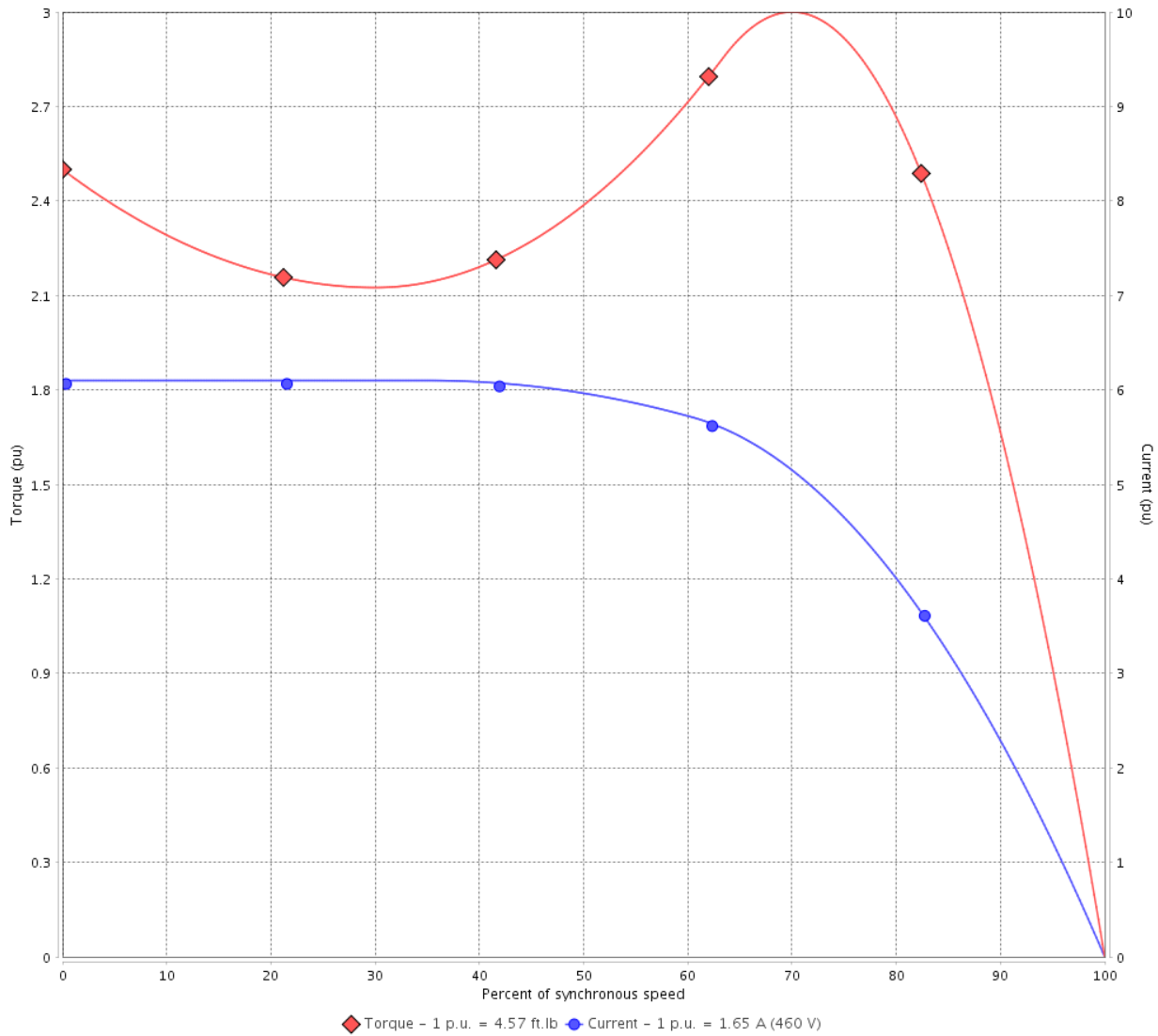
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12617113

Catalog # : 001120T3E145T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 3.30/1.65 A
 LRC : 6.1
 Rated torque : 4.57 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 300 %
 Rated speed : 1150 rpm

Moment of inertia (J) : 0.1419 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Locked rotor time : 43s (cold) 24s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



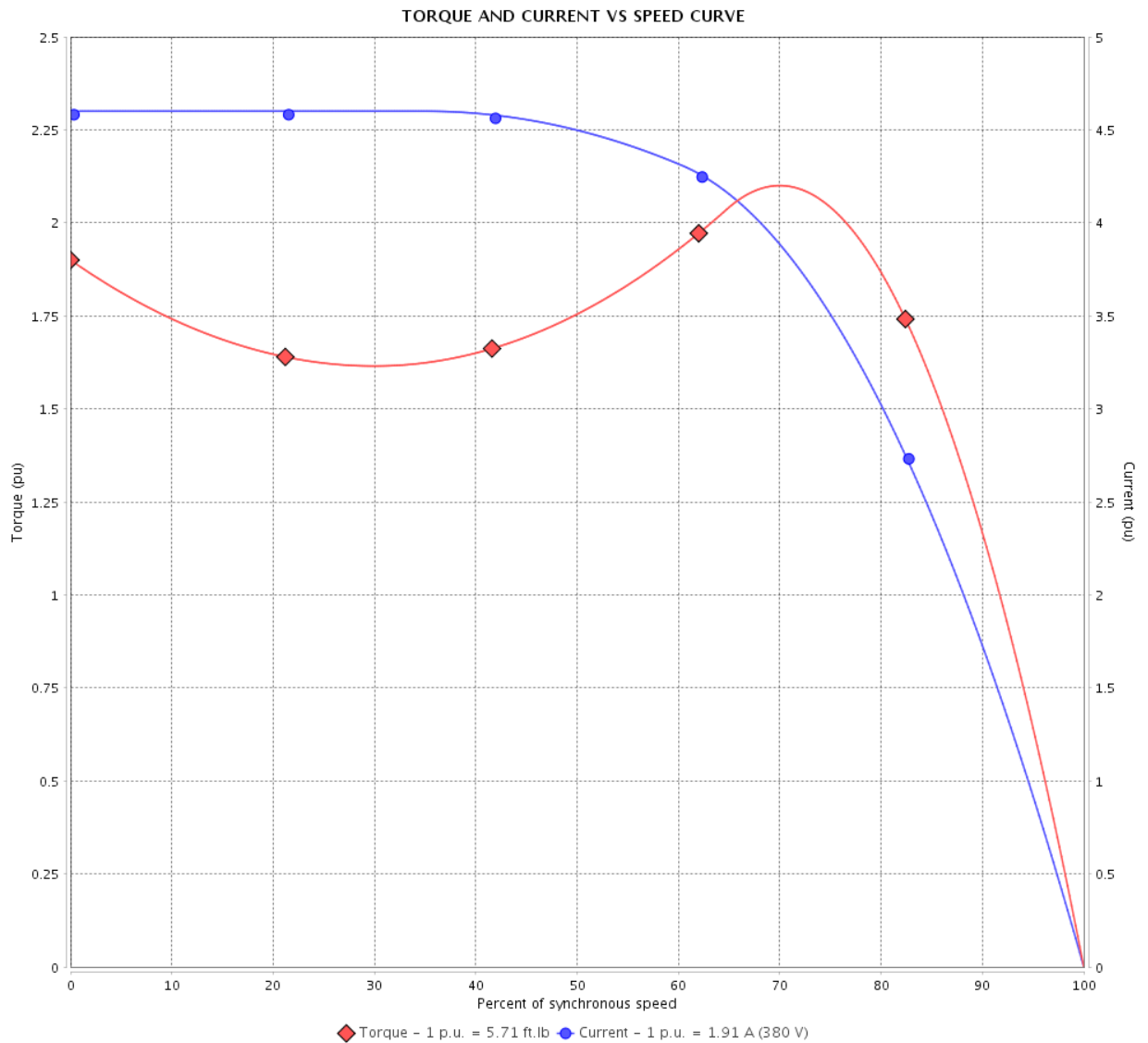
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12617113

Catalog # : 00112OT3E145T-S



Performance : 190/380 V 50 Hz 6P

Rated current	: 3.82/1.91 A	Moment of inertia (J)	: 0.1419 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 5.71 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 920 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



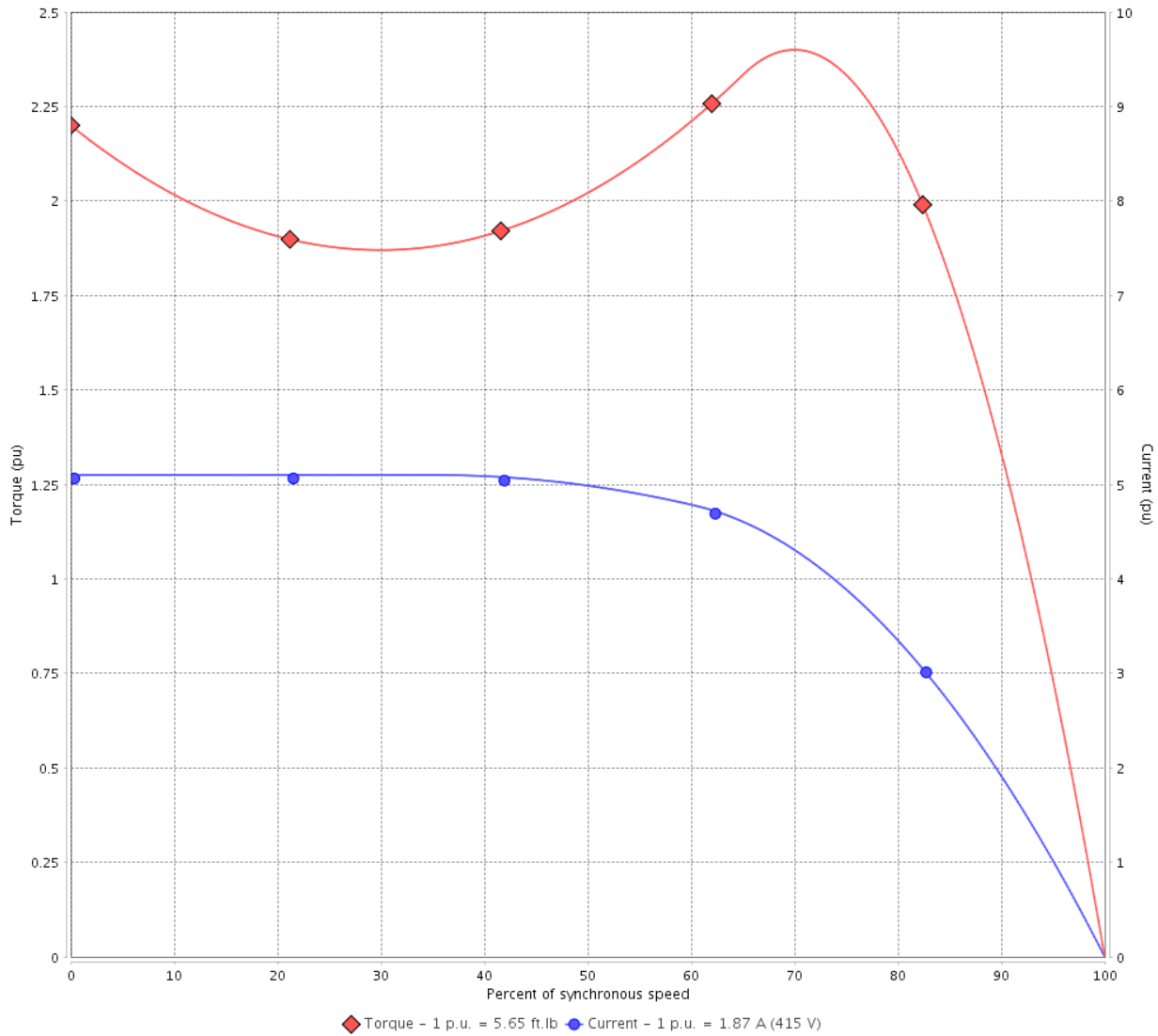
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12617113

Catalog # : 001120T3E145T-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 6P

Rated current	: 3.53/1.87 A	Moment of inertia (J)	: 0.1419 sq.ft.lb
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 5.65 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 930 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

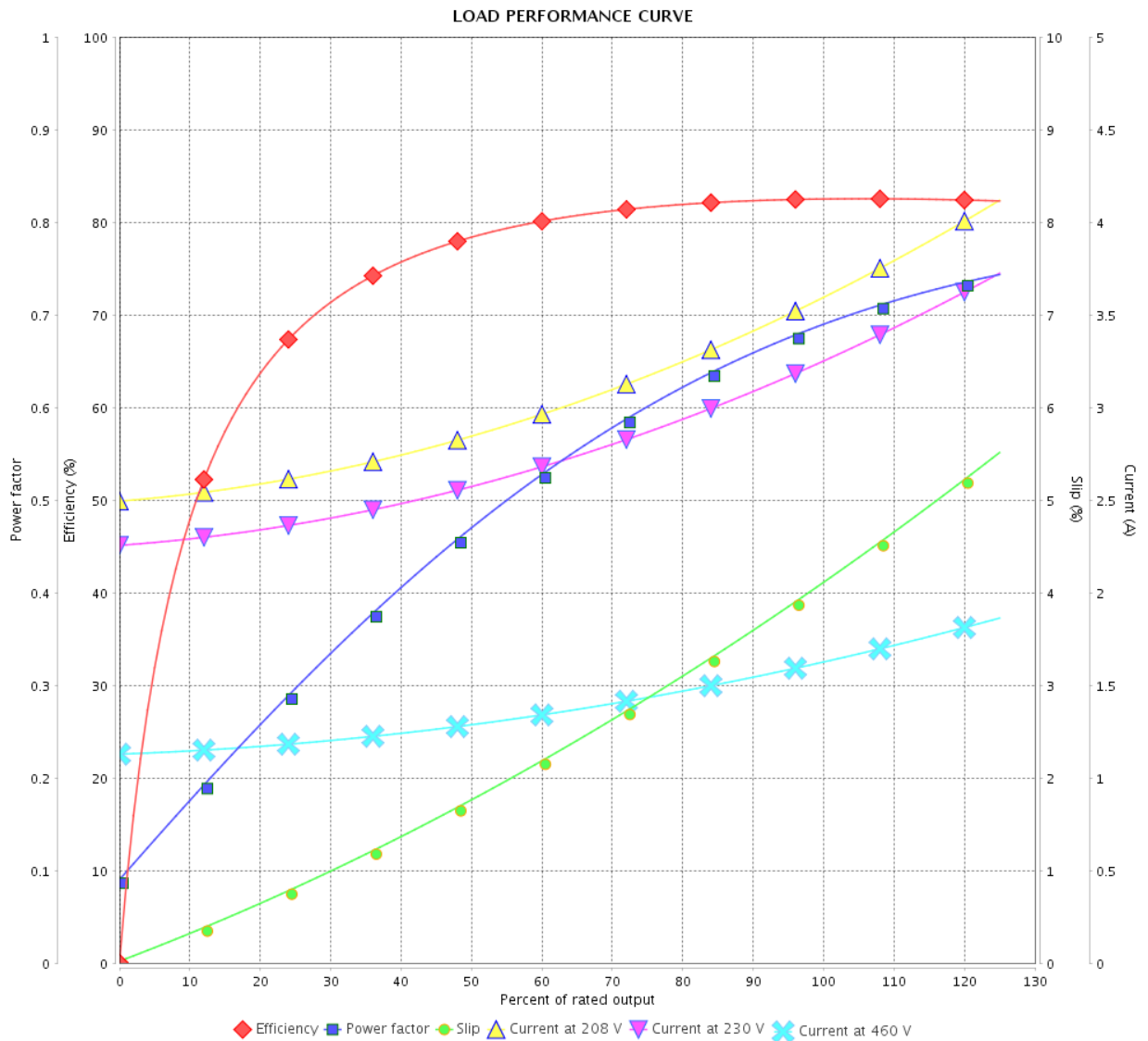


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

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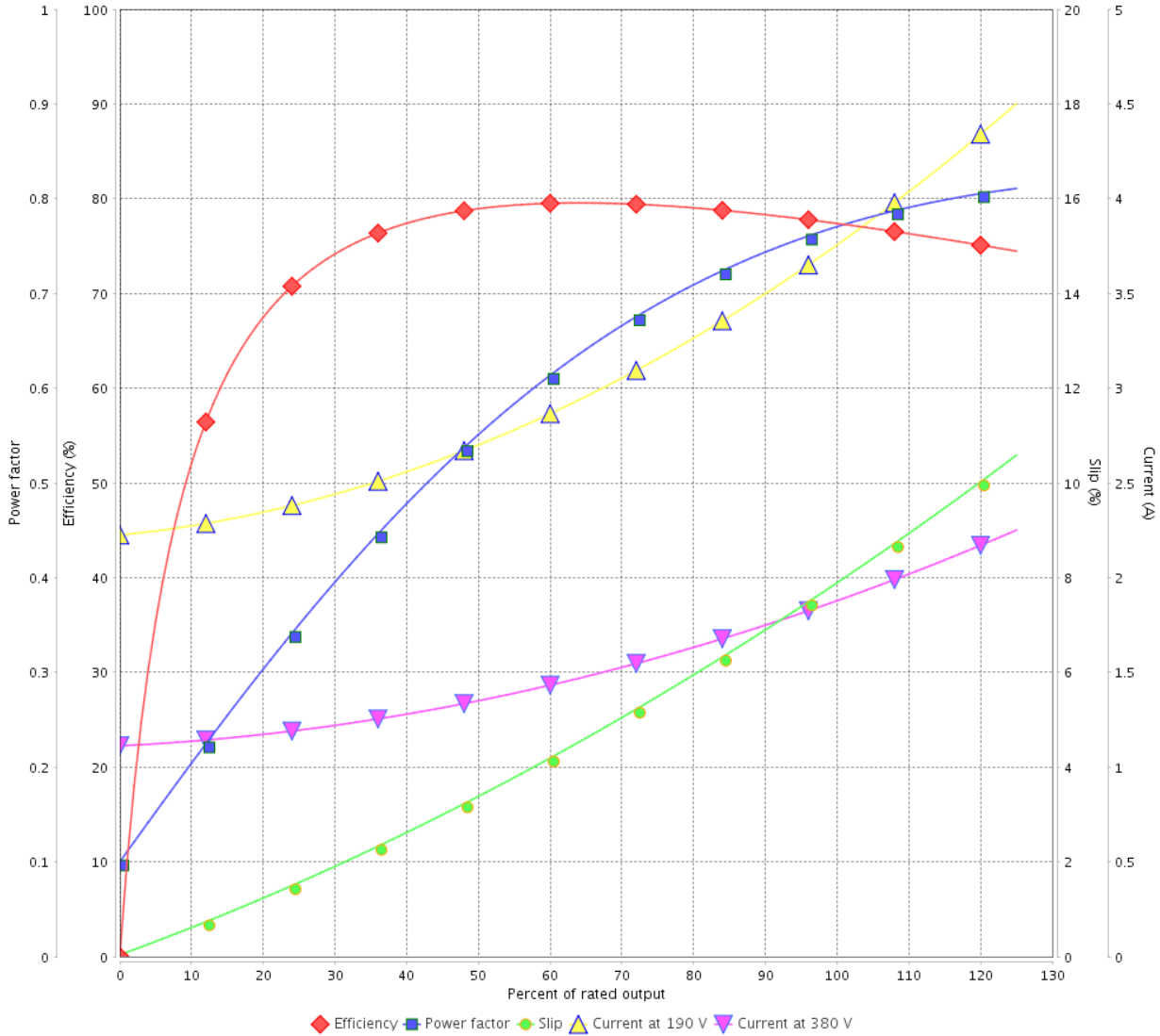
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Performance : 190/380 V 50 Hz 6P

Rated current : 3.82/1.91 A
 LRC : 4.6
 Rated torque : 5.71 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 210 %
 Rated speed : 920 rpm

Moment of inertia (J) : 0.1419 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

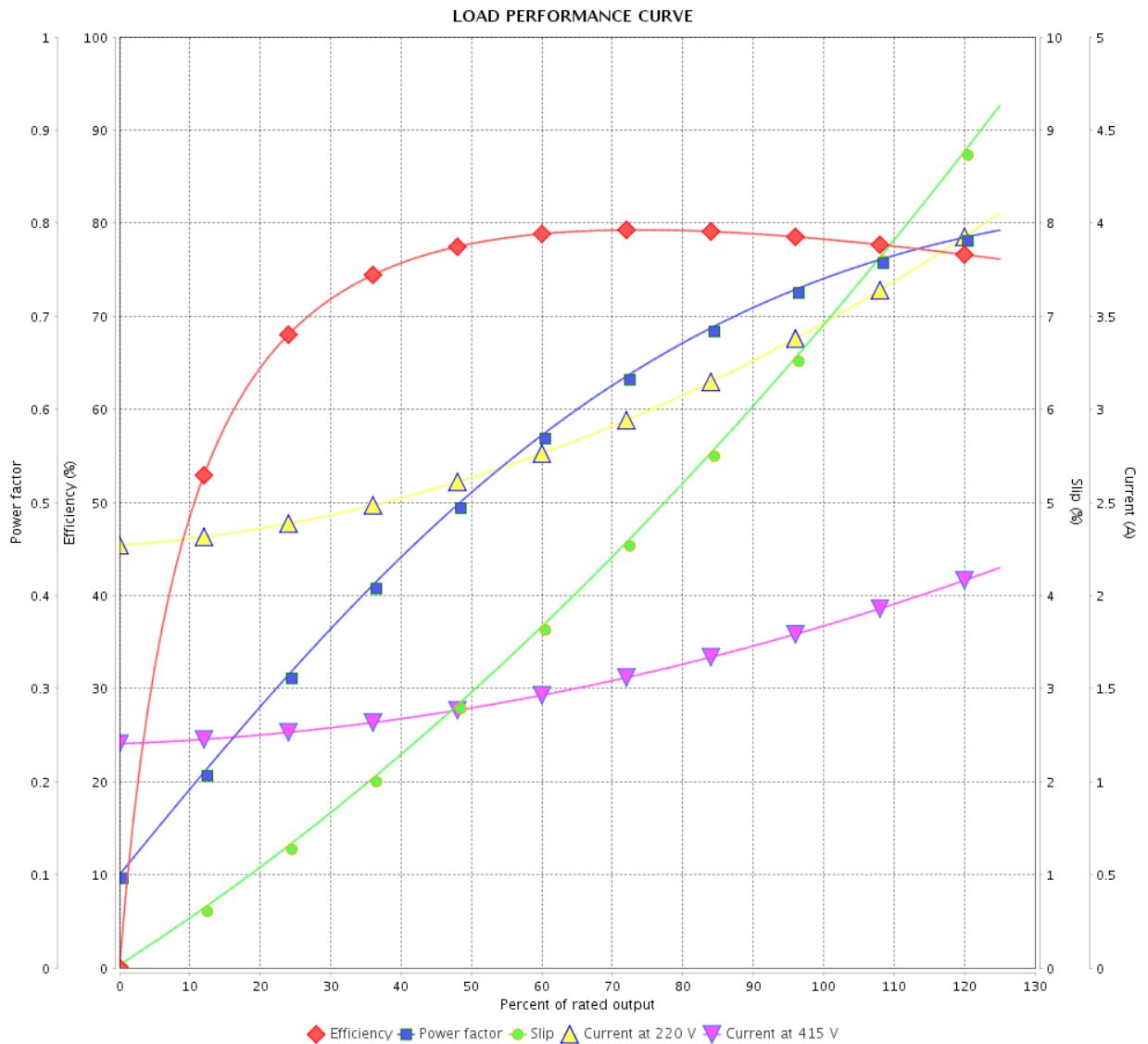


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 LRC : 5.1
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 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 930 rpm

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 Insulation class : F
 Service factor : 1.00
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 Design : B

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THERMAL LIMIT CURVE



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Rated torque	: 4.57 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1150 rpm	Design	: B

Heating constant

Cooling constant

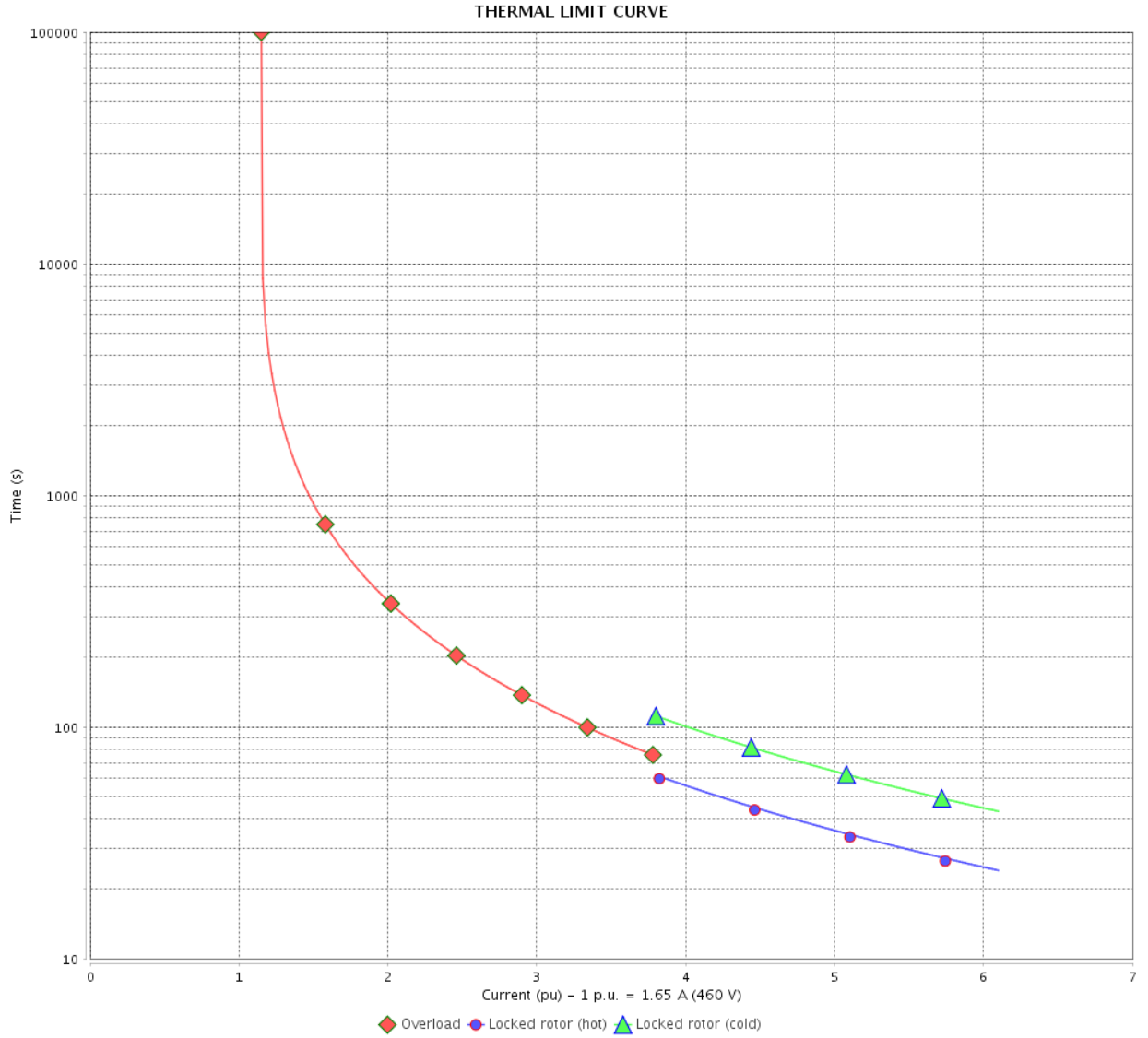
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Date				

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Rated torque : 5.71 ft.lb	Insulation class : F
Locked rotor torque : 190 %	Service factor : 1.00
Breakdown torque : 210 %	Temperature rise : 105 K
Rated speed : 920 rpm	Design : B

Heating constant

Cooling constant

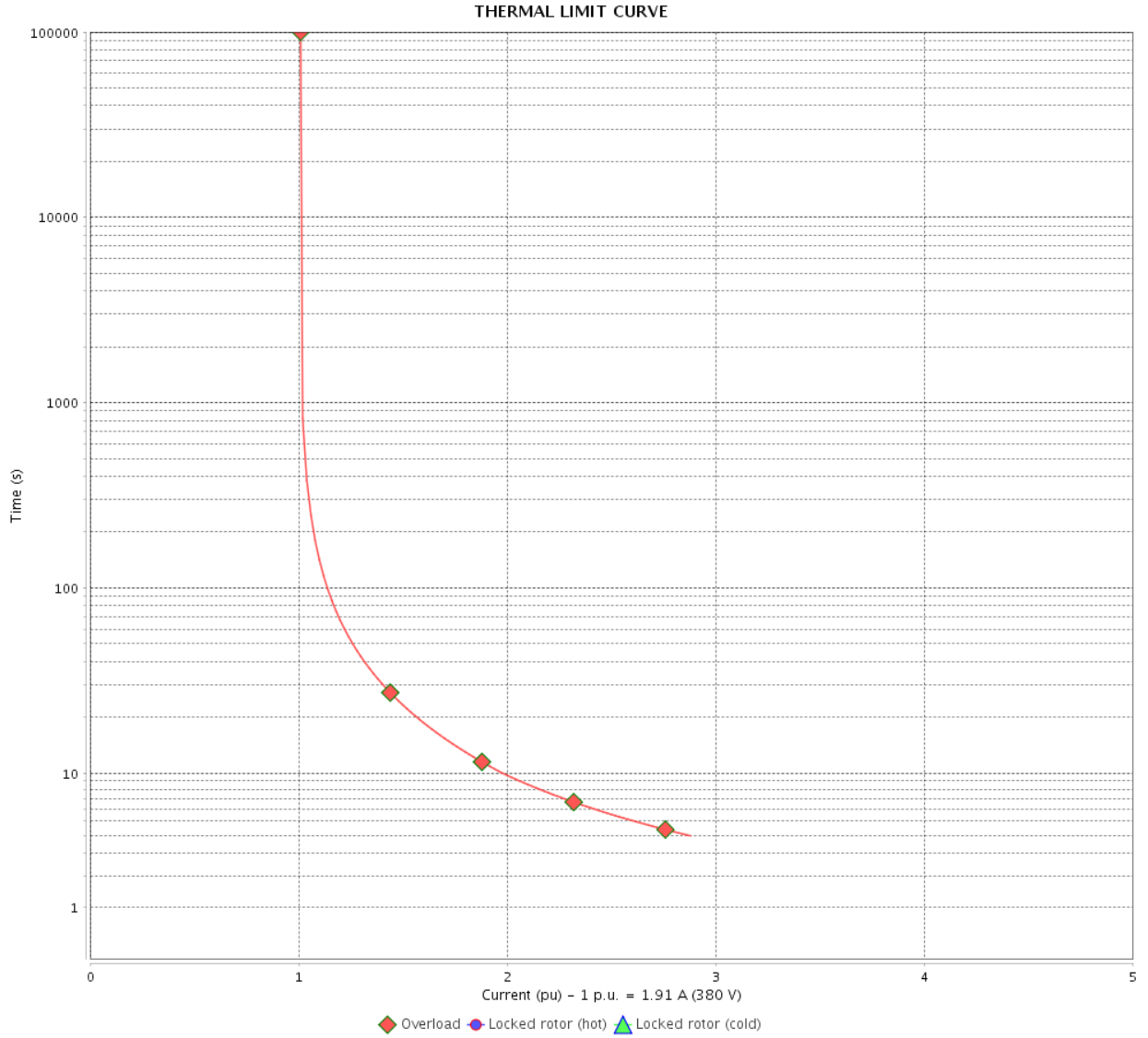
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LRC : 5.1	Duty cycle : Cont.(S1)
Rated torque : 5.65 ft.lb	Insulation class : F
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Breakdown torque : 240 %	Temperature rise : 105 K
Rated speed : 930 rpm	Design : B

Heating constant

Cooling constant

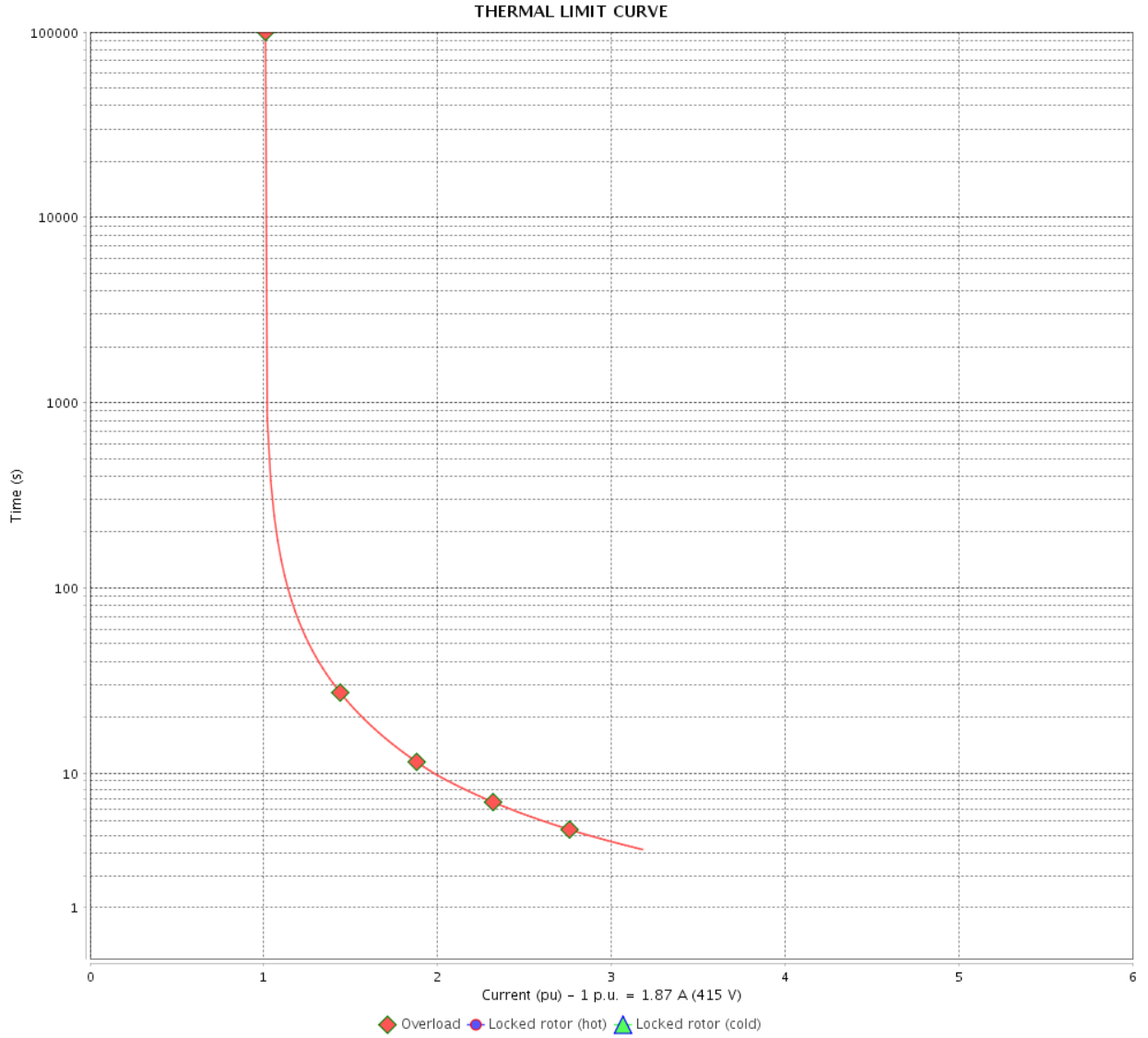
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Date	11/04/2022			

THERMAL LIMIT CURVE

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



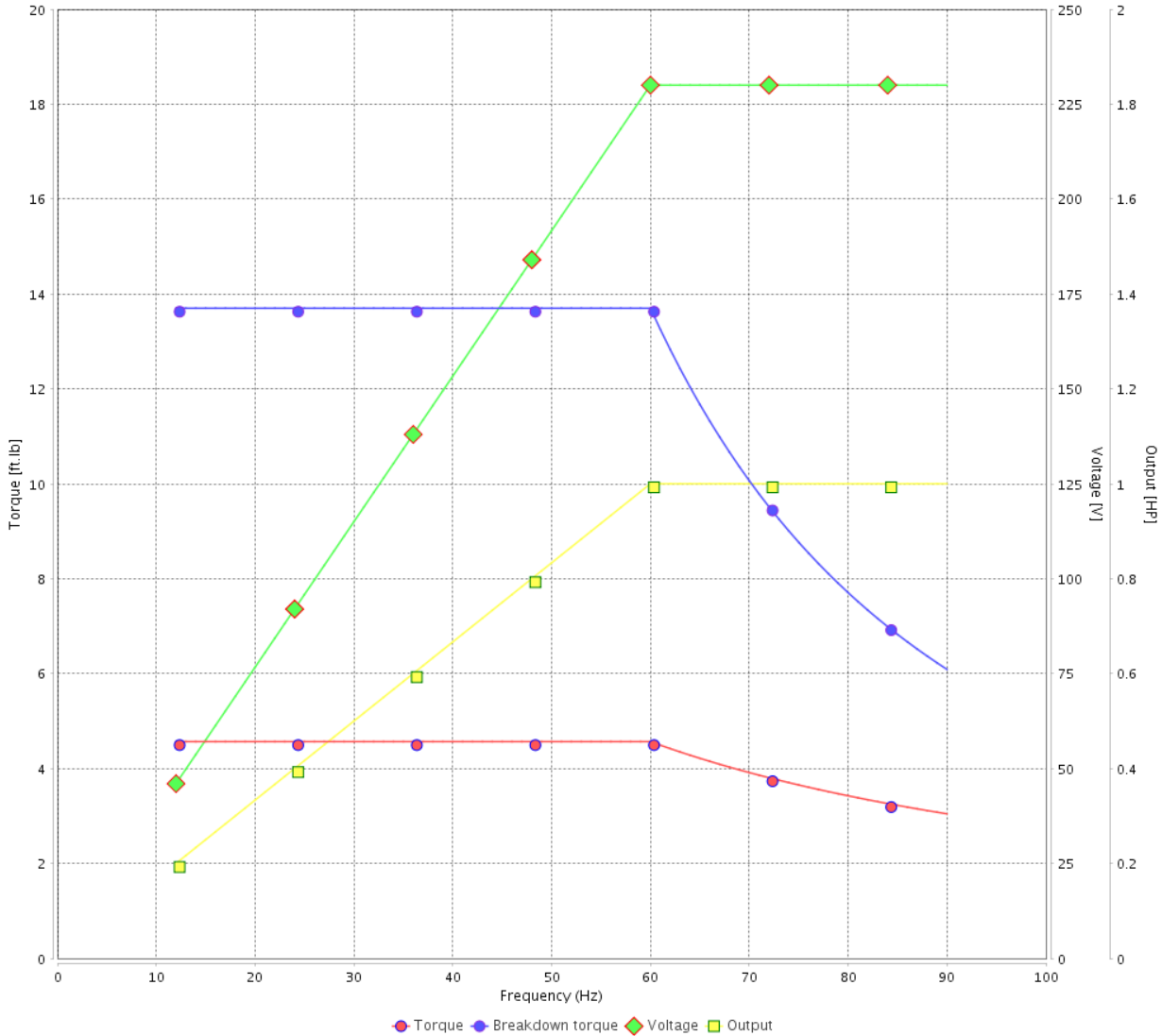
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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

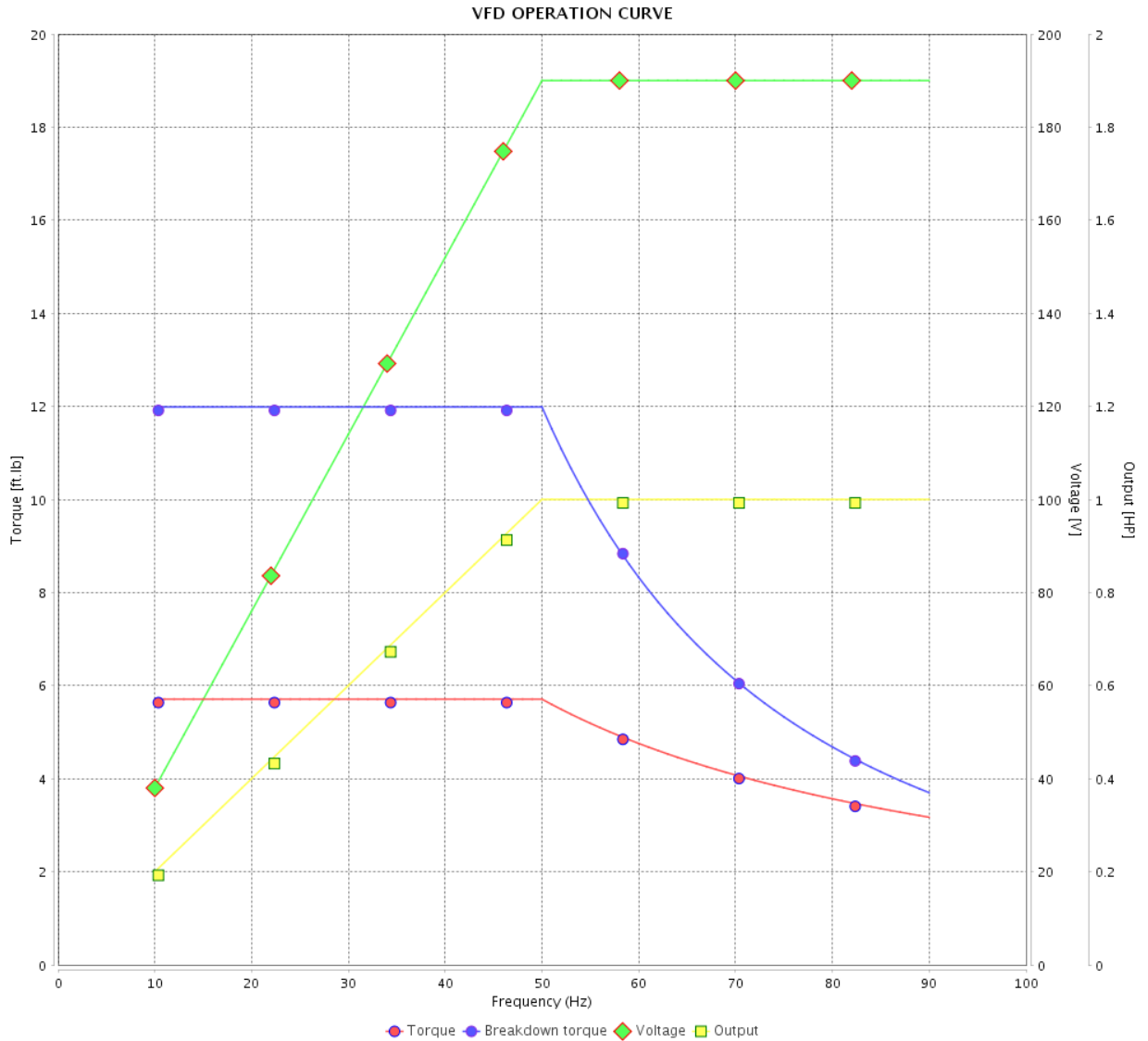


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VFD OPERATION CURVE

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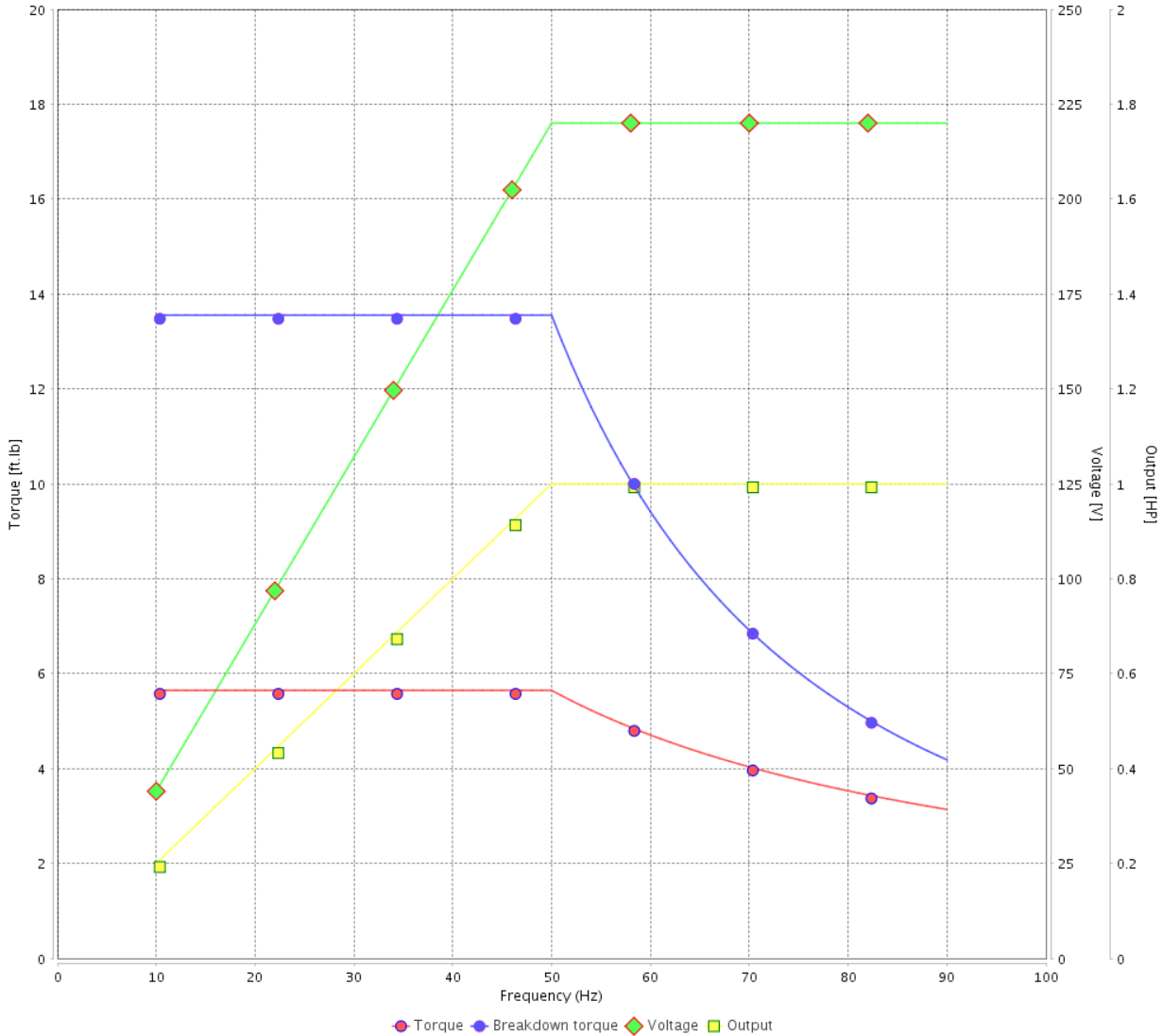
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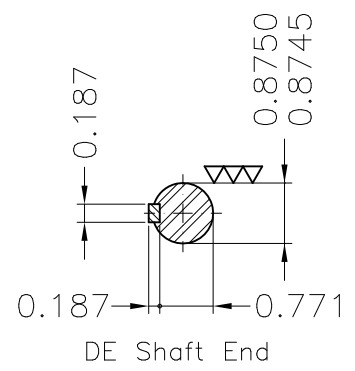
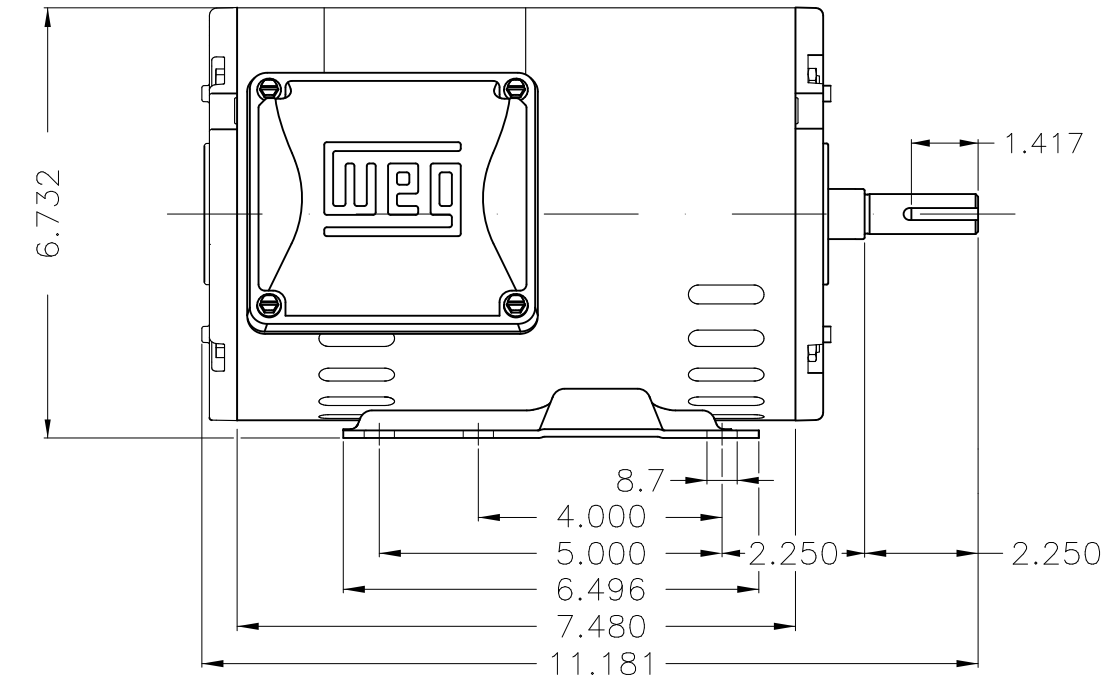
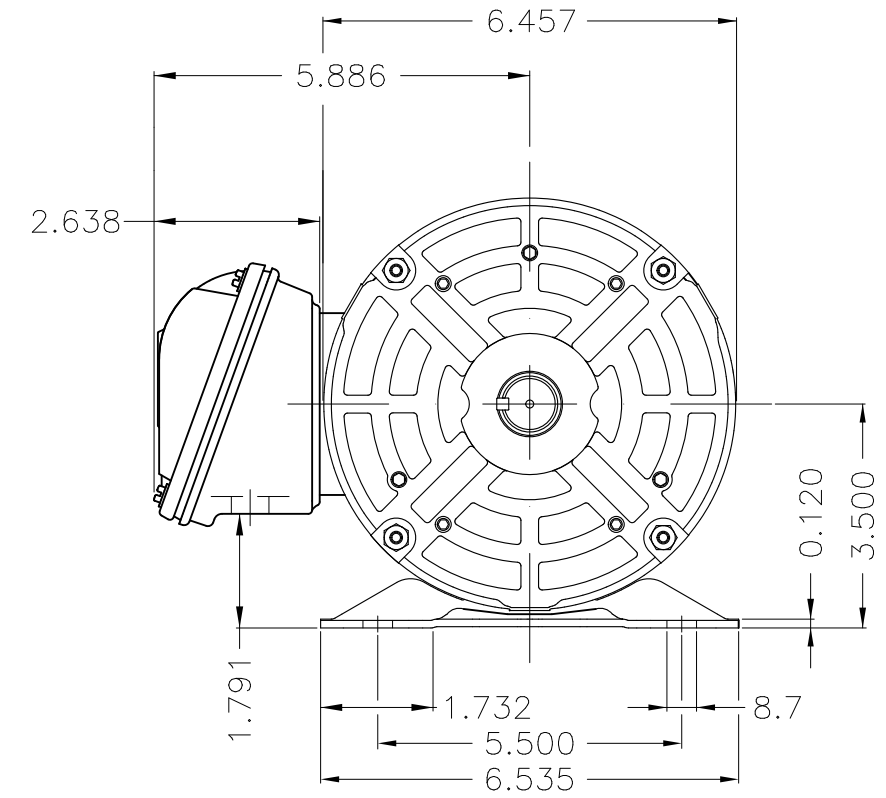
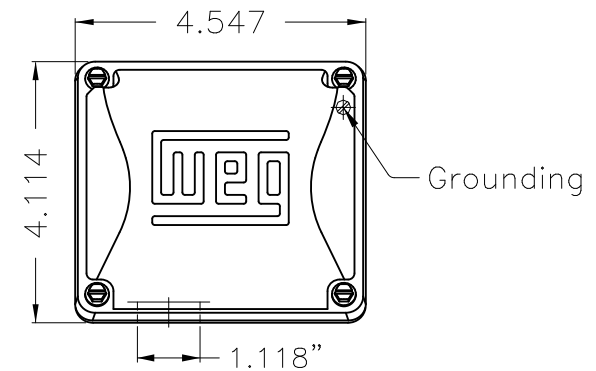
A

B

C

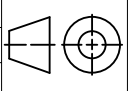
D

E



Dimensions in inches

Color Munsell N 1 matte black
 Painting plan 207N
 Mounting F-1/B3R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	 THREE PH. MOTOR ROLLED STEEL PREM. EFF. FRAME 143/5T IP21 ODP					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET 1 / 1			

PREVIEW
WDD



1 HP 06 Poles 60 Hz

XME A3

**NEMA**
Premium

MADE IN MEXICO

MAT: 12617113 CC029A
W01.T00IC0X0N
MODEL 001120T3E145T-S
24FEB2022 B/N:

PH 3	Hz 60	HP 1.0
FR 143/5T		KW 0.75
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 3.30/1.65
INS CL F AT 80K		SFA 3.79/1.90
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE K	PF 0.69
USABLE @ 208V 3.85A		RPM 1150
SF1.00		NEMA NOM. EFF 82.5%

ALTERNATE RATING: 1.0HP 50Hz 190-220/380-415V SF1.00
3.82-3.47/1.91-1.84A 920RPM EFF 77.3% (IE2) IEC 60034-1

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

DE 6205-ZZ ODE 6203-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.

