

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer					
Product line		: NEMA Premium Efficiency Three-Phase	Product code :		14276570
			Catalog # :		01036XT3E215T
Frame		: 213/5T	Cooling method		: IC411 - TEFC
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		: 206 lb
Protection degree		: IP55	Moment of inertia (J)		: 0.5512 sq.ft.lb
Design		: B			
Output [HP]	10	10	10	10	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	23.4/11.7	14.1	13.4	13.0	
L. R. Amperes [A]	161/80.7	88.8	92.5	89.7	
LRC [A]	6.9x(Code H)	6.3x(Code G)	6.9x(Code H)	6.9x(Code H)	
No load current [A]	6.80/3.40	3.30	3.60	3.80	
Rated speed [RPM]	3515	2888	2900	2910	
Slip [%]	2.36	3.73	3.33	3.00	
Rated torque [ft.lb]	14.9	18.2	18.1	18.0	
Locked rotor torque [%]	210	150	180	200	
Breakdown torque [%]	280	190	229	260	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	270s (cold) 150s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²	72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	
Efficiency (%)	25%	88.2	88.8	87.9	87.7
	50%	88.5	88.5	88.5	88.5
	75%	90.2	89.2	89.2	89.5
	100%	90.2	88.5	89.5	90.1
Power Factor	25%	0.56	0.62	0.58	0.56
	50%	0.81	0.85	0.82	0.81
	75%	0.87	0.90	0.88	0.87
	100%	0.89	0.91	0.90	0.89
Bearing type		Drive end : 6308 2RS	Non drive end : 6207 2RS	Foundation loads	
Sealing		: Oil Seal	: Lip Seal	Max. traction : 162 lb	
Lubrication interval		: -	: -	Max. compression : 367 lb	
Lubricant amount		: -	: -		
Lubricant type		: Mobil Polyrex EM			
Notes					
USABLE @208V 25.7A SF 1.15 SFA 29.5A					
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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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE



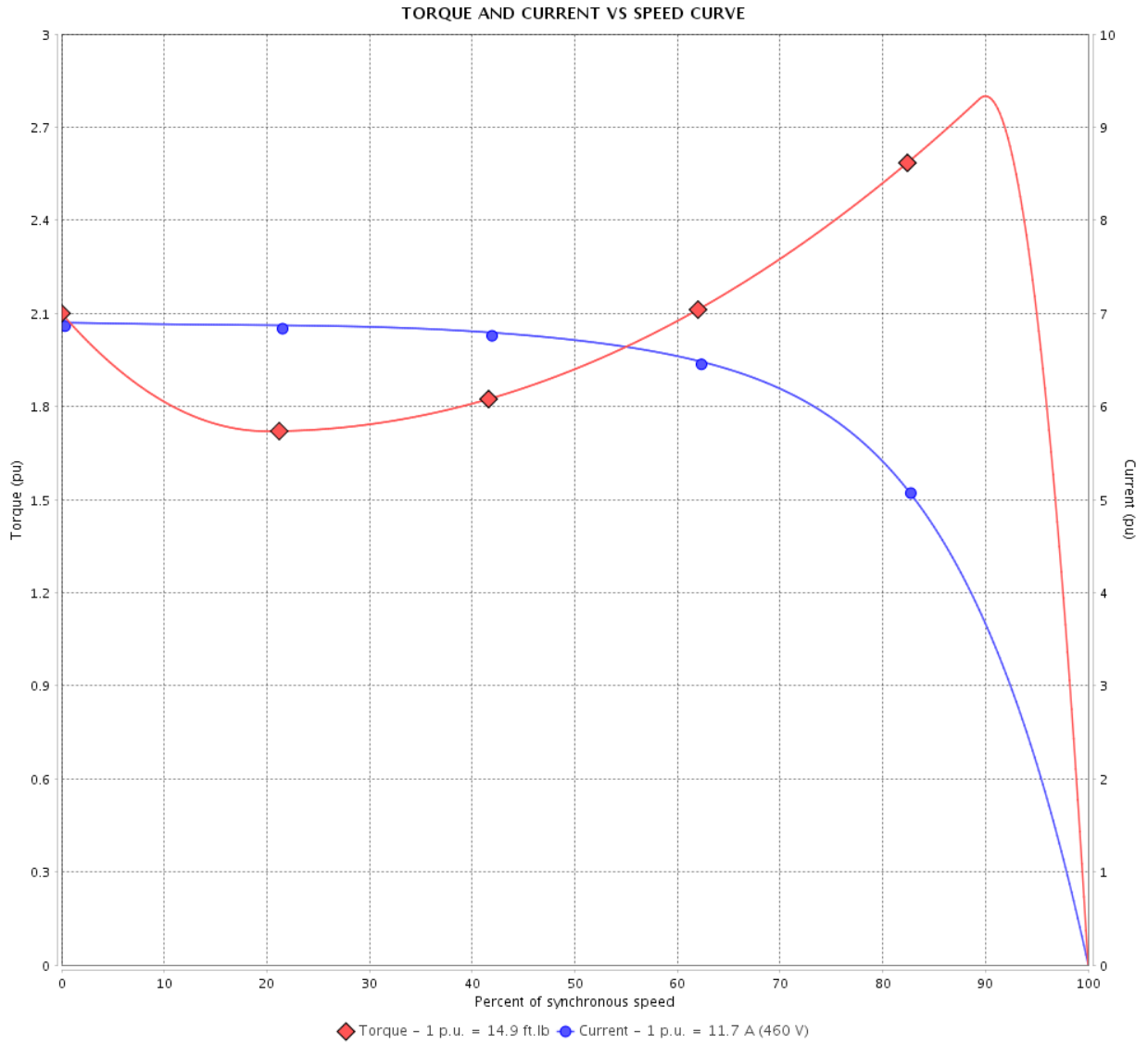
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T



Performance : 230/460 V 60 Hz 2P

Rated current : 23.4/11.7 A
 LRC : 6.9
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Locked rotor time : 270s (cold) 150s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



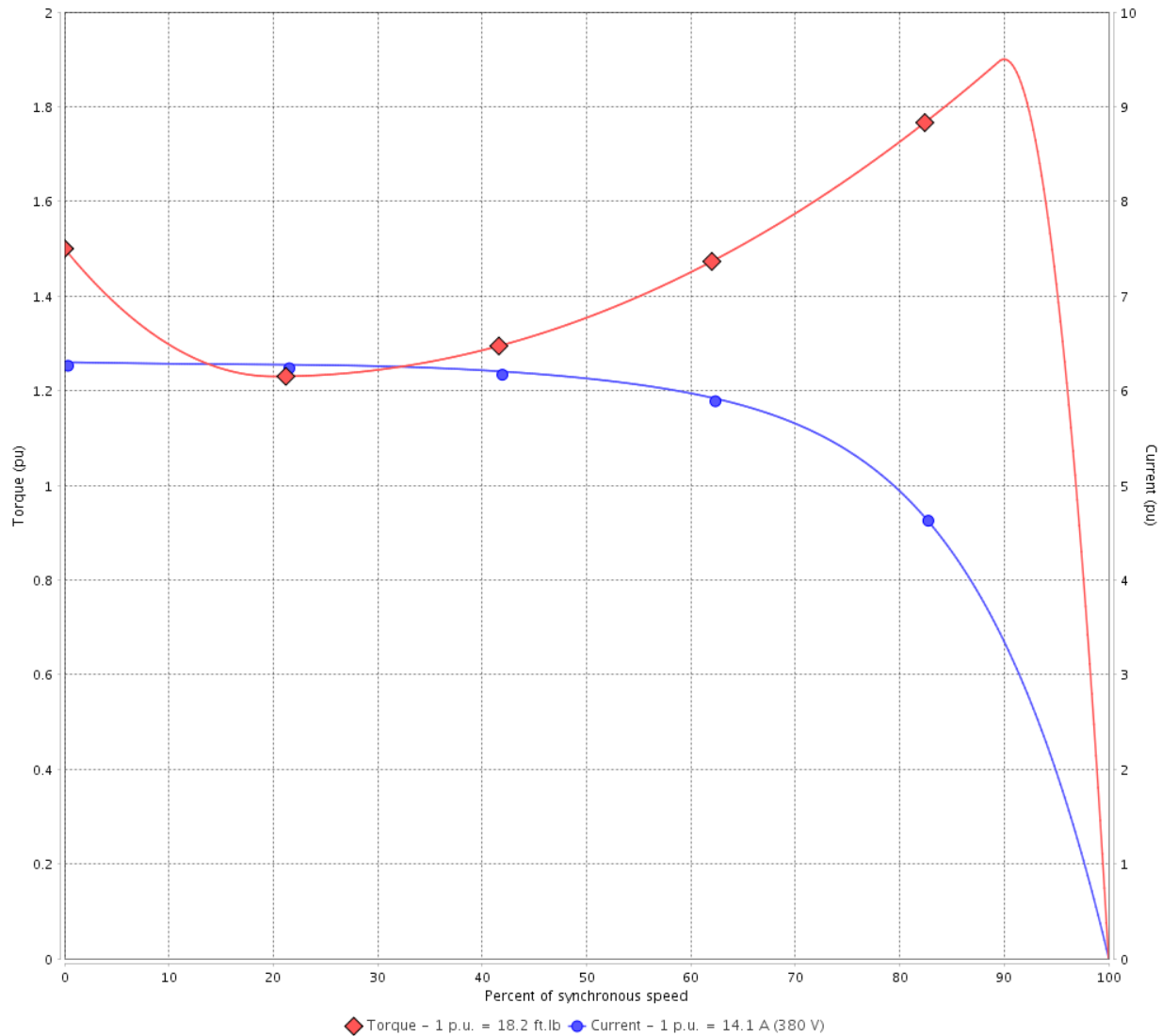
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current	: 14.1 A	Moment of inertia (J)	: 0.5512 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 190 %	Temperature rise	: 80 K
Rated speed	: 2888 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



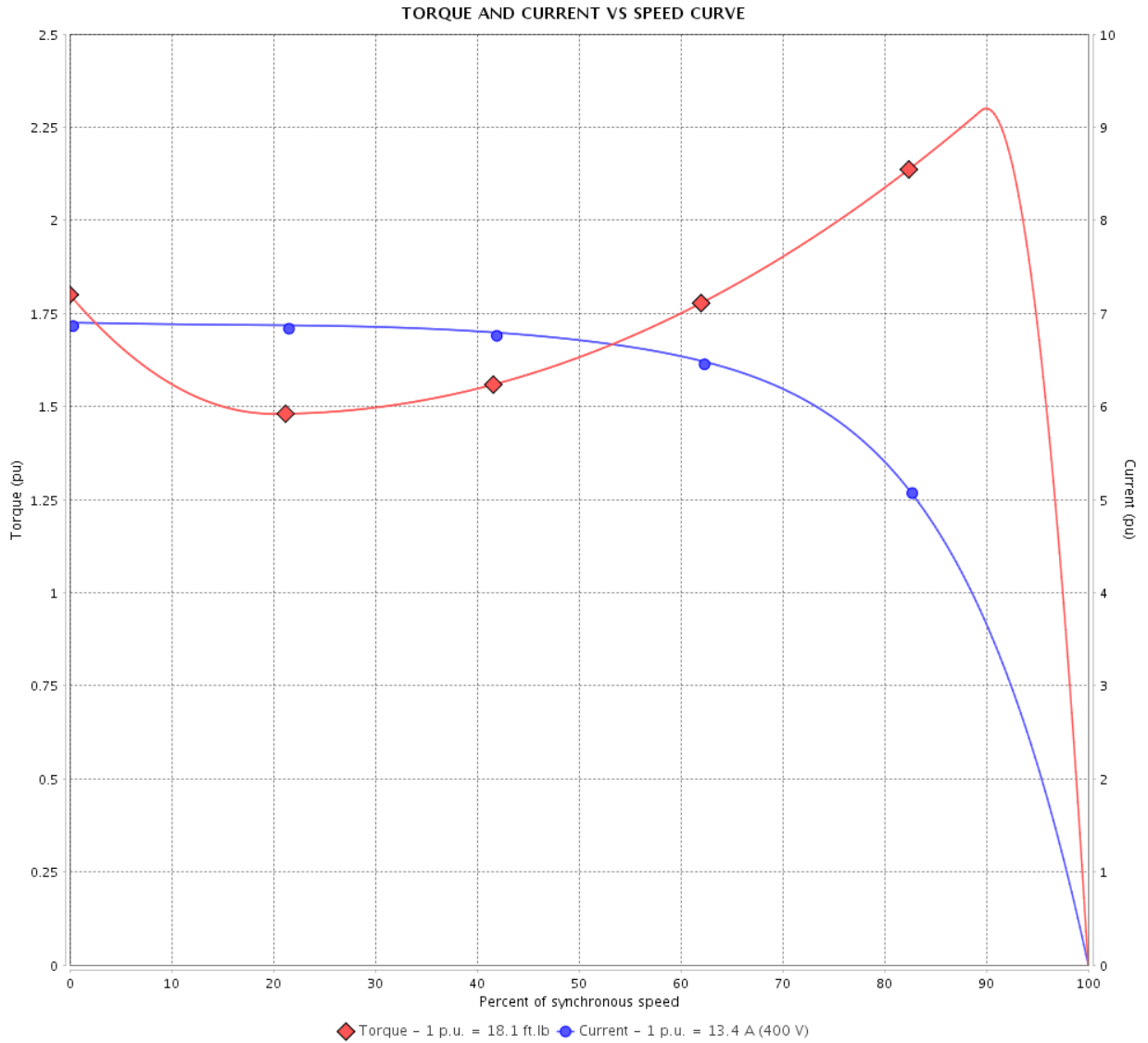
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T



Performance : 400 V 50 Hz 2P IE2

Rated current	: 13.4 A	Moment of inertia (J)	: 0.5512 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.1 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



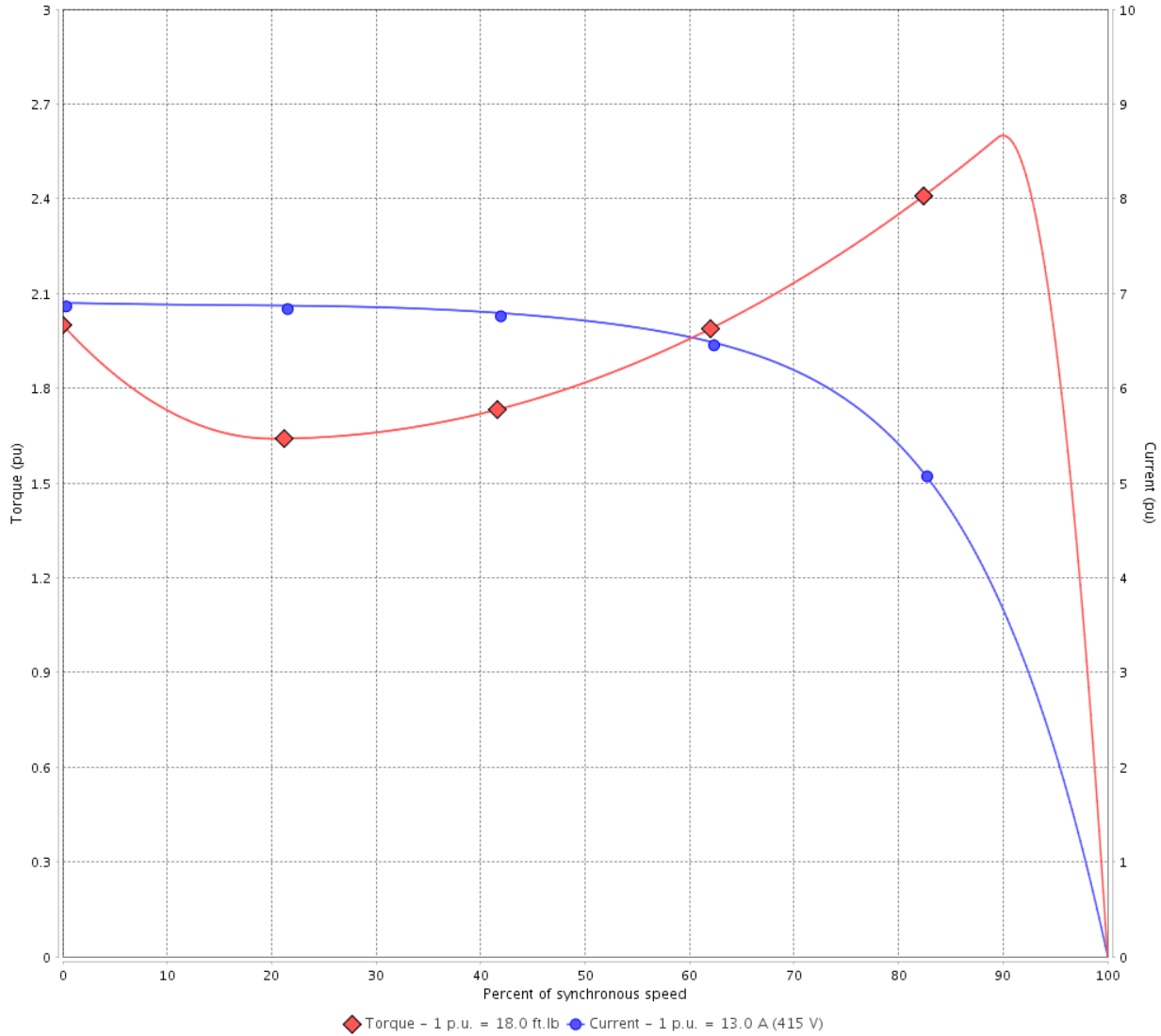
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current	: 13.0 A	Moment of inertia (J)	: 0.5512 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 18.0 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

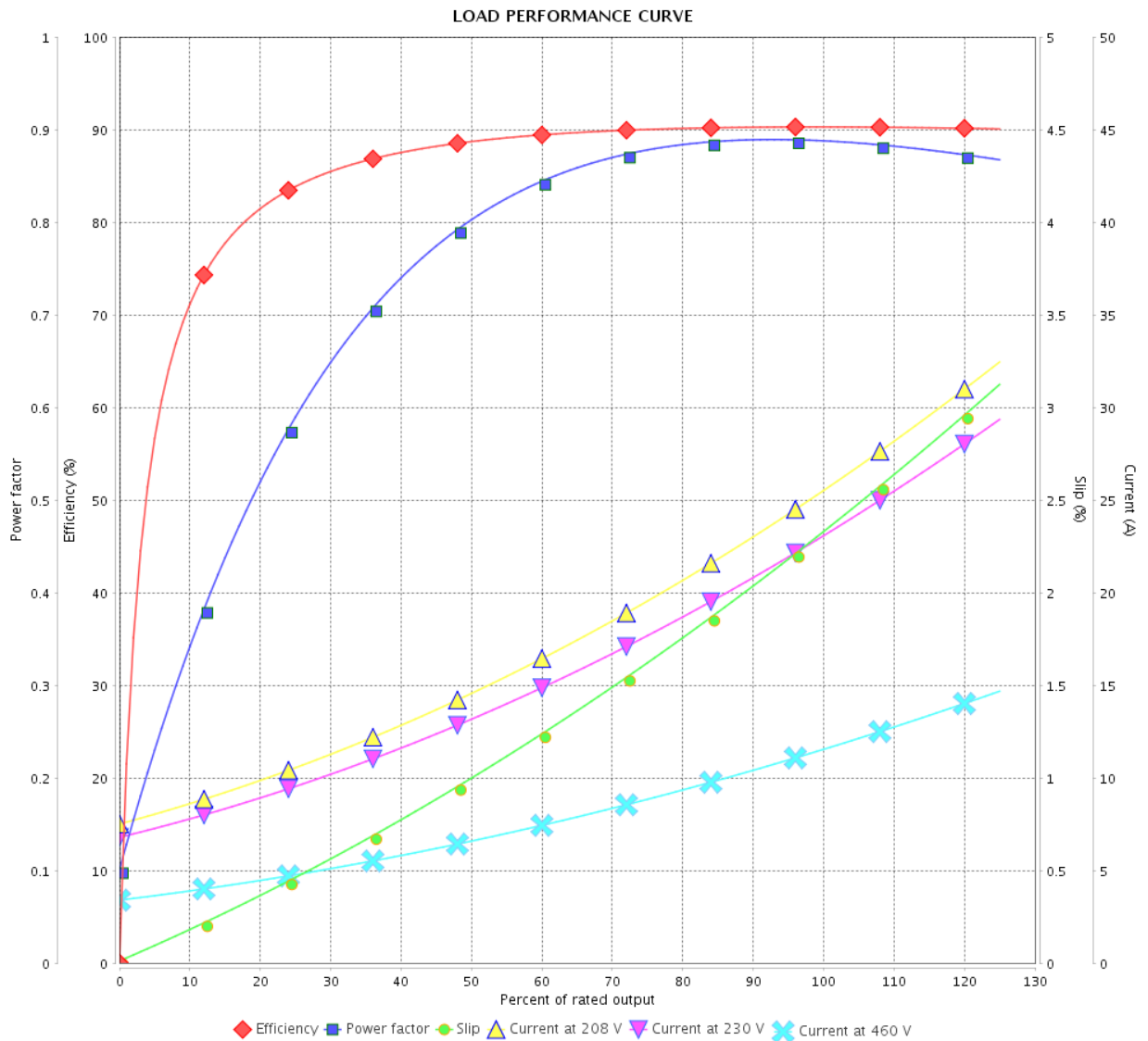


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T



Performance : 230/460 V 60 Hz 2P

Rated current : 23.4/11.7 A
 LRC : 6.9
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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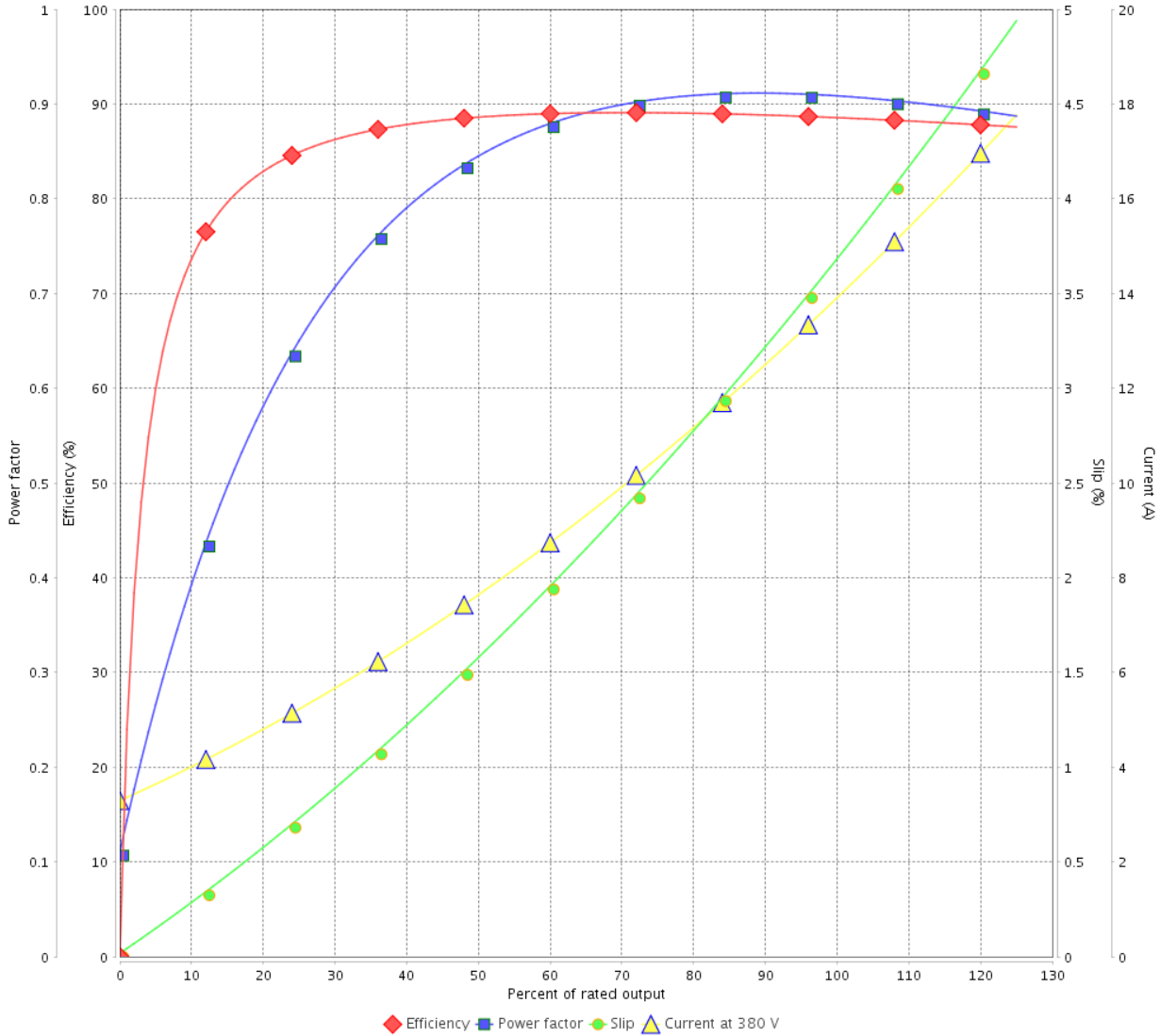
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Product code : 14276570

Catalog # : 01036XT3E215T

LOAD PERFORMANCE CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current : 14.1 A
 LRC : 6.3
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 190 %
 Rated speed : 2888 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

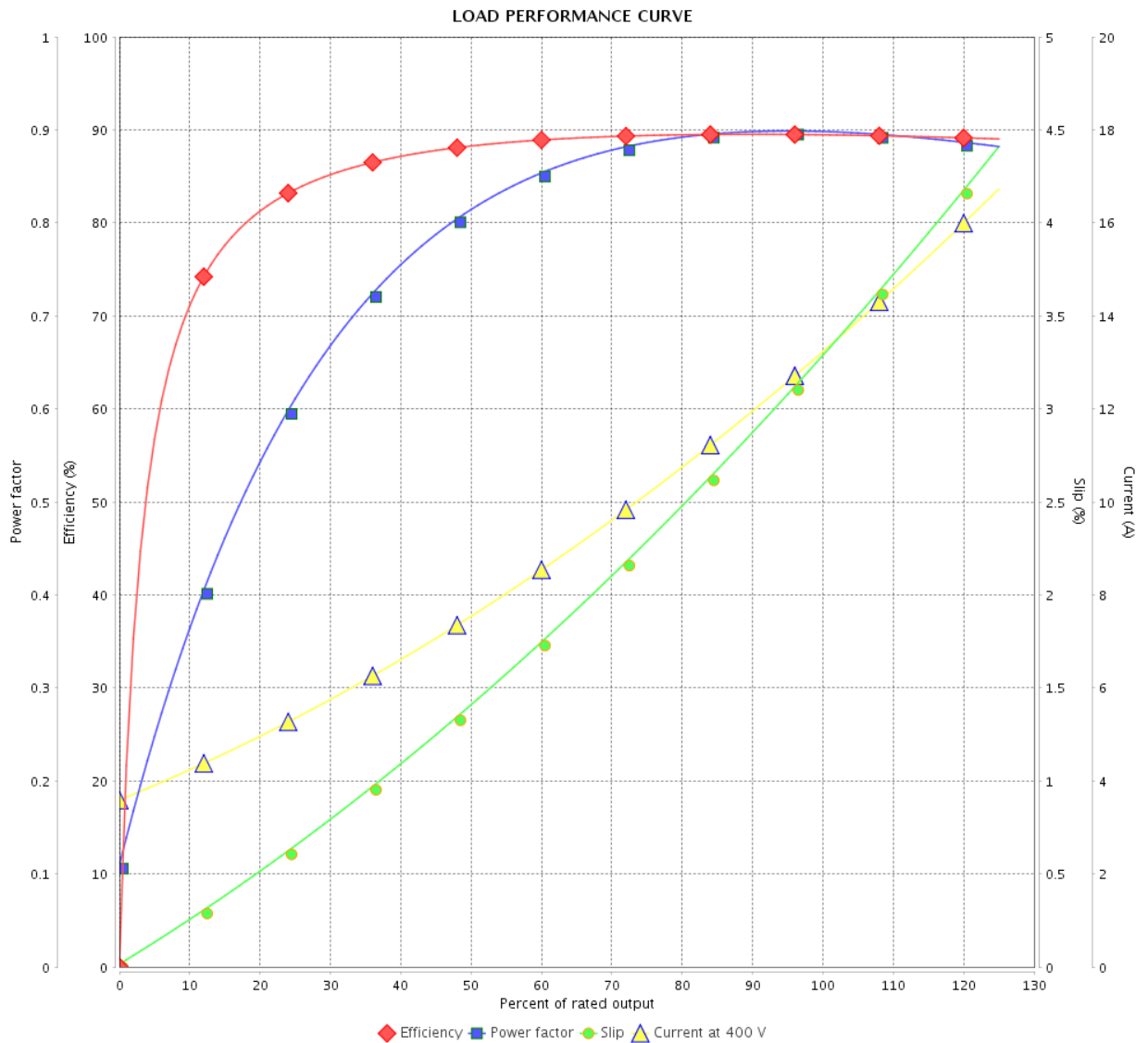


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

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Catalog # : 01036XT3E215T



Performance : 400 V 50 Hz 2P IE2

Rated current : 13.4 A
 LRC : 6.9
 Rated torque : 18.1 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 229 %
 Rated speed : 2900 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



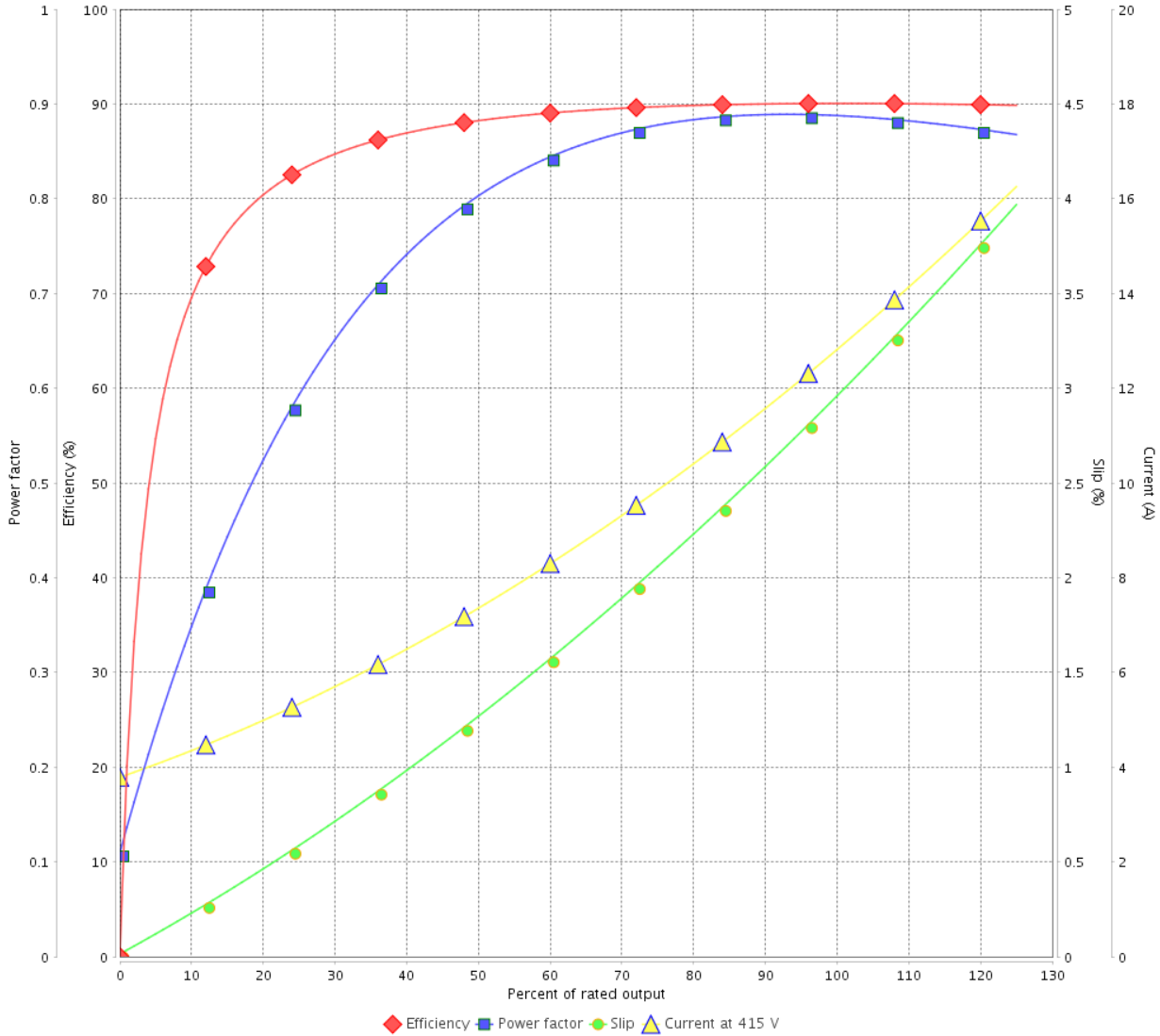
Customer :

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Product code : 14276570

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LOAD PERFORMANCE CURVE



Performance : 415 V 50 Hz 2P IE3

Rated current : 13.0 A
 LRC : 6.9
 Rated torque : 18.0 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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THERMAL LIMIT CURVE



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Performance : 230/460 V 60 Hz 2P

Rated current : 23.4/11.7 A	Moment of inertia (J) : 0.5512 sq.ft.lb
LRC : 6.9	Duty cycle : Cont.(S1)
Rated torque : 14.9 ft.lb	Insulation class : F
Locked rotor torque : 210 %	Service factor : 1.15
Breakdown torque : 280 %	Temperature rise : 80 K
Rated speed : 3515 rpm	Design : B

Heating constant

Cooling constant

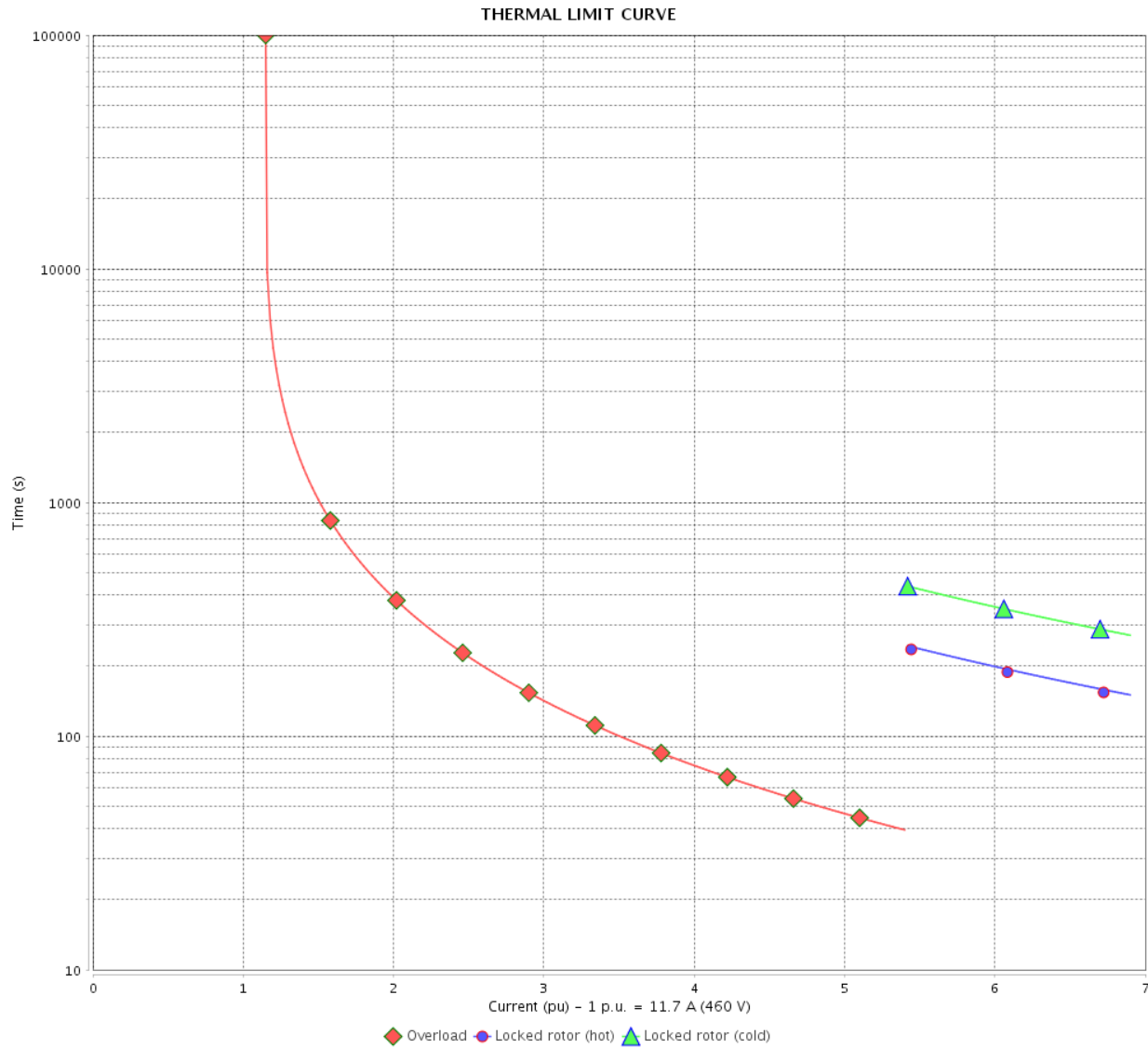
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Customer :

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Rated current : 14.1 A	Moment of inertia (J) : 0.5512 sq.ft.lb
LRC : 6.3	Duty cycle : Cont.(S1)
Rated torque : 18.2 ft.lb	Insulation class : F
Locked rotor torque : 150 %	Service factor : 1.00
Breakdown torque : 190 %	Temperature rise : 80 K
Rated speed : 2888 rpm	Design : B

Heating constant

Cooling constant

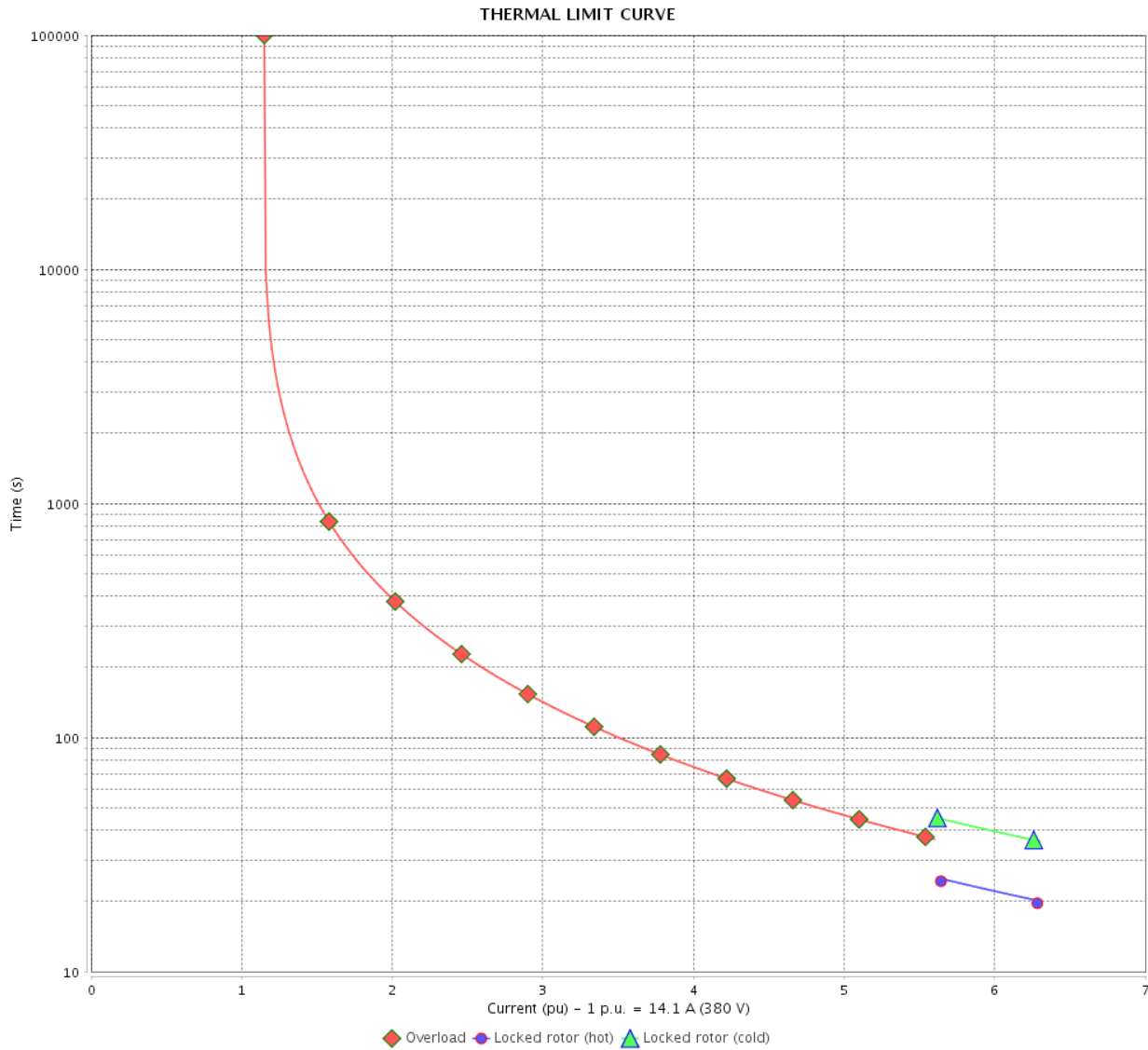
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 14276570
 Catalog # : 01036XT3E215T

Performance : 400 V 50 Hz 2P IE2

Rated current : 13.4 A	Moment of inertia (J) : 0.5512 sq.ft.lb
LRC : 6.9	Duty cycle : Cont.(S1)
Rated torque : 18.1 ft.lb	Insulation class : F
Locked rotor torque : 180 %	Service factor : 1.00
Breakdown torque : 229 %	Temperature rise : 80 K
Rated speed : 2900 rpm	Design : B

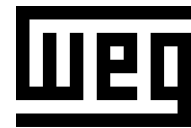
Heating constant

Cooling constant

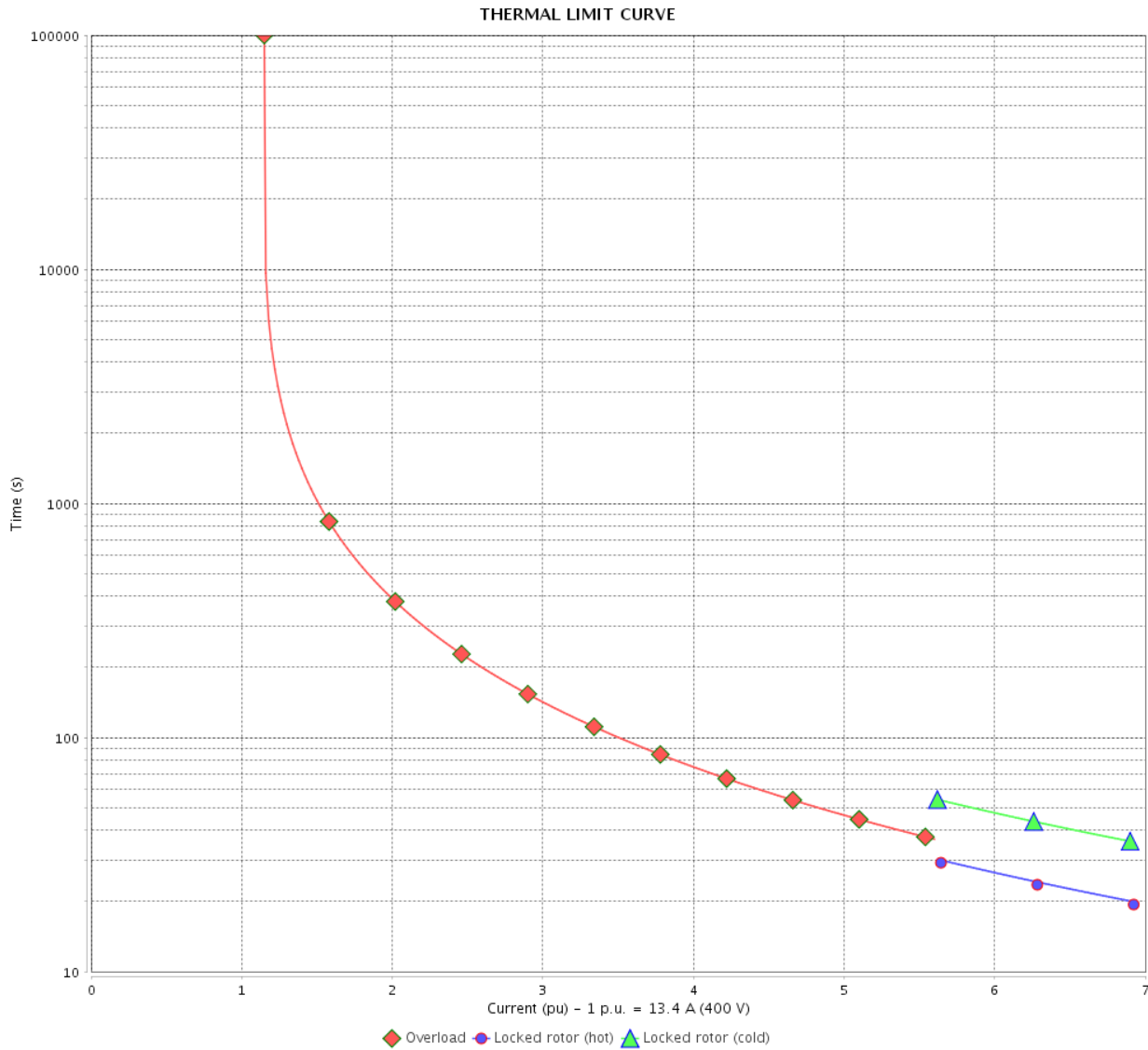
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THERMAL LIMIT CURVE

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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase
 Product code : 14276570
 Catalog # : 01036XT3E215T

Performance : 415 V 50 Hz 2P IE3

Rated current : 13.0 A	Moment of inertia (J) : 0.5512 sq.ft.lb
LRC : 6.9	Duty cycle : Cont.(S1)
Rated torque : 18.0 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 2910 rpm	Design : B

Heating constant

Cooling constant

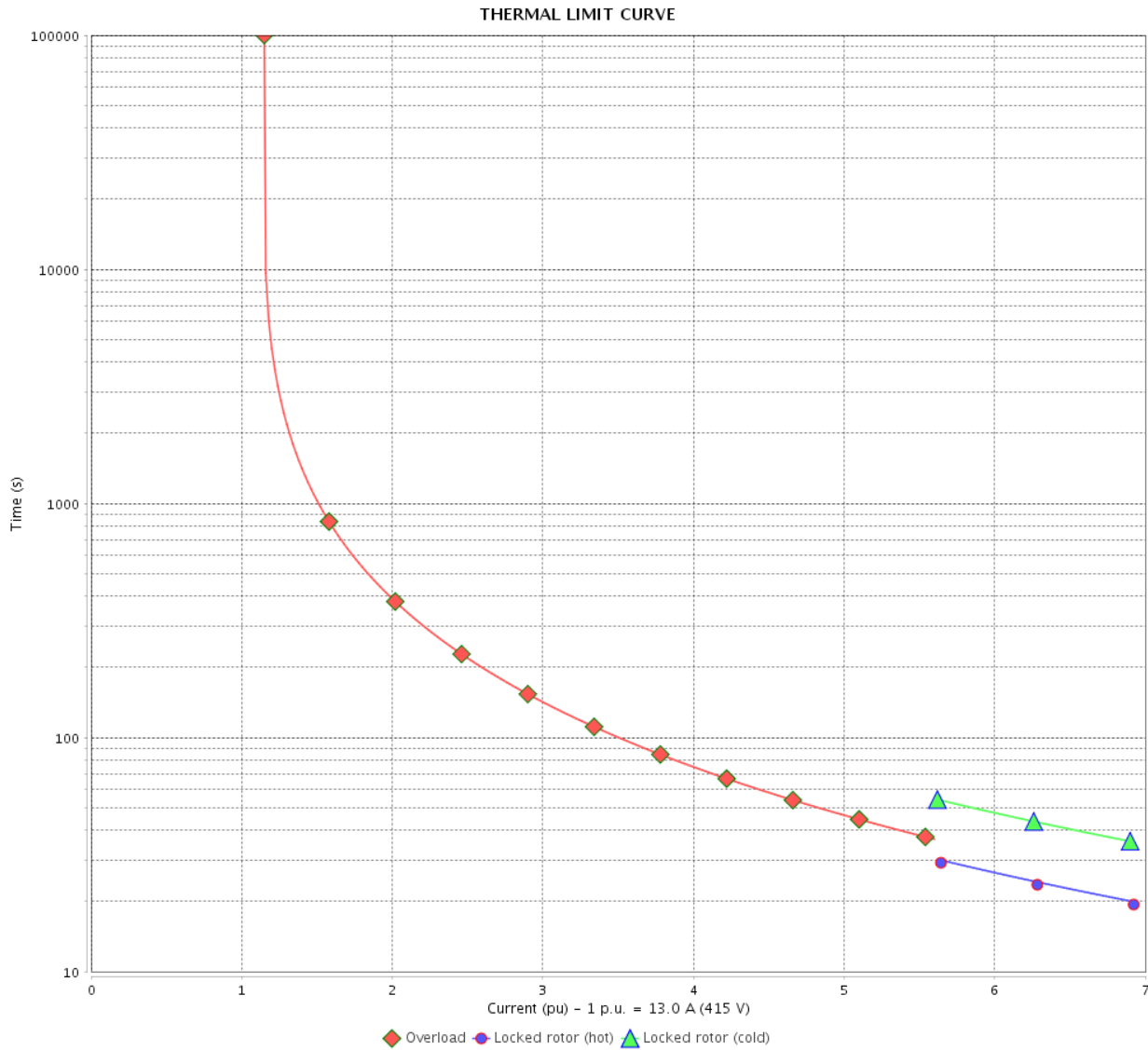
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

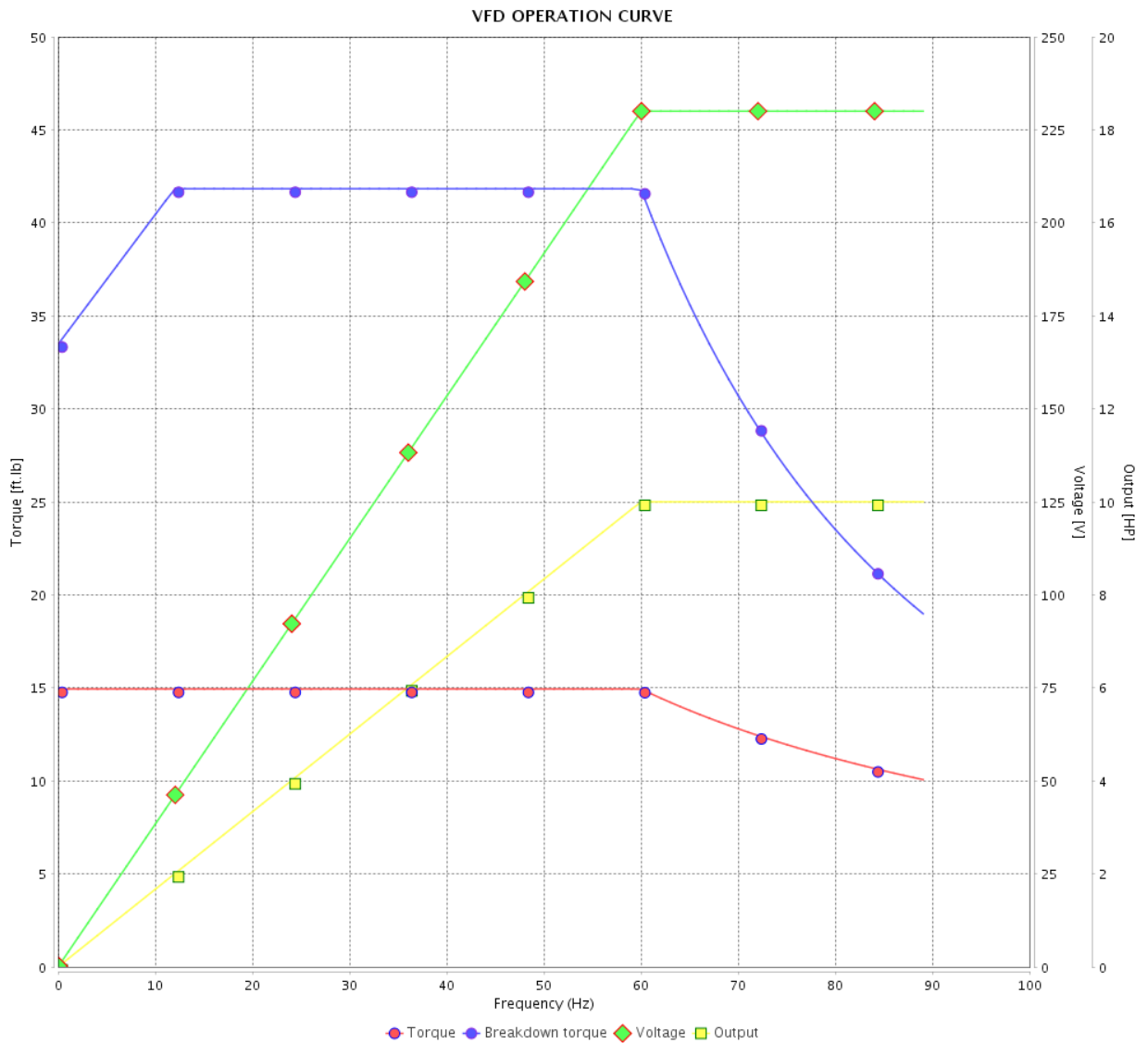


Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T



Performance : 230/460 V 60 Hz 2P

Rated current : 23.4/11.7 A
 LRC : 6.9
 Rated torque : 14.9 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 3515 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



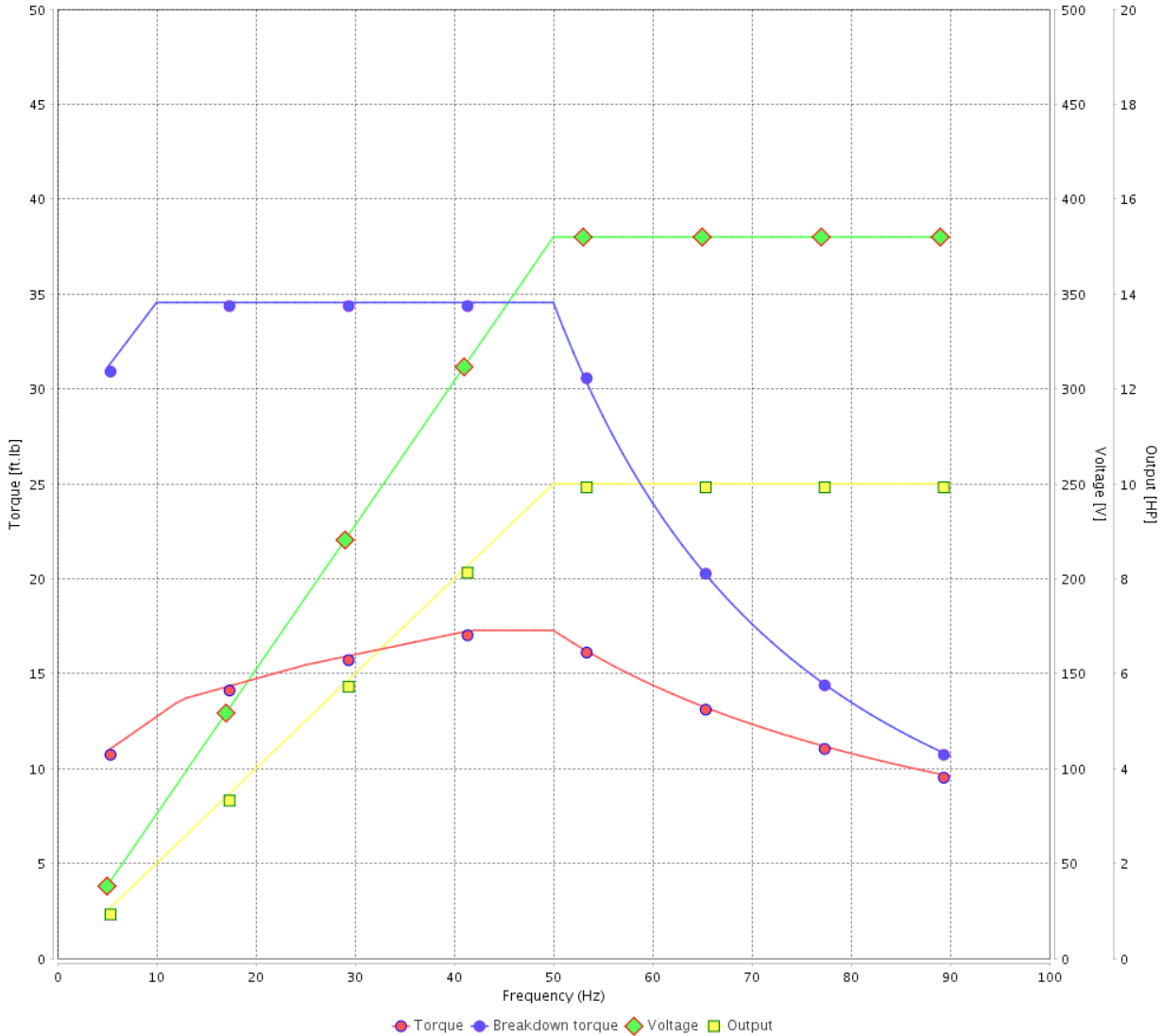
Customer : _____

Product line : NEMA Premium Efficiency Three-Phase

Product code : 14276570

Catalog # : 01036XT3E215T

VFD OPERATION CURVE



Performance : 380 V 50 Hz 2P IE2

Rated current : 14.1 A
 LRC : 6.3
 Rated torque : 18.2 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 190 %
 Rated speed : 2888 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 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

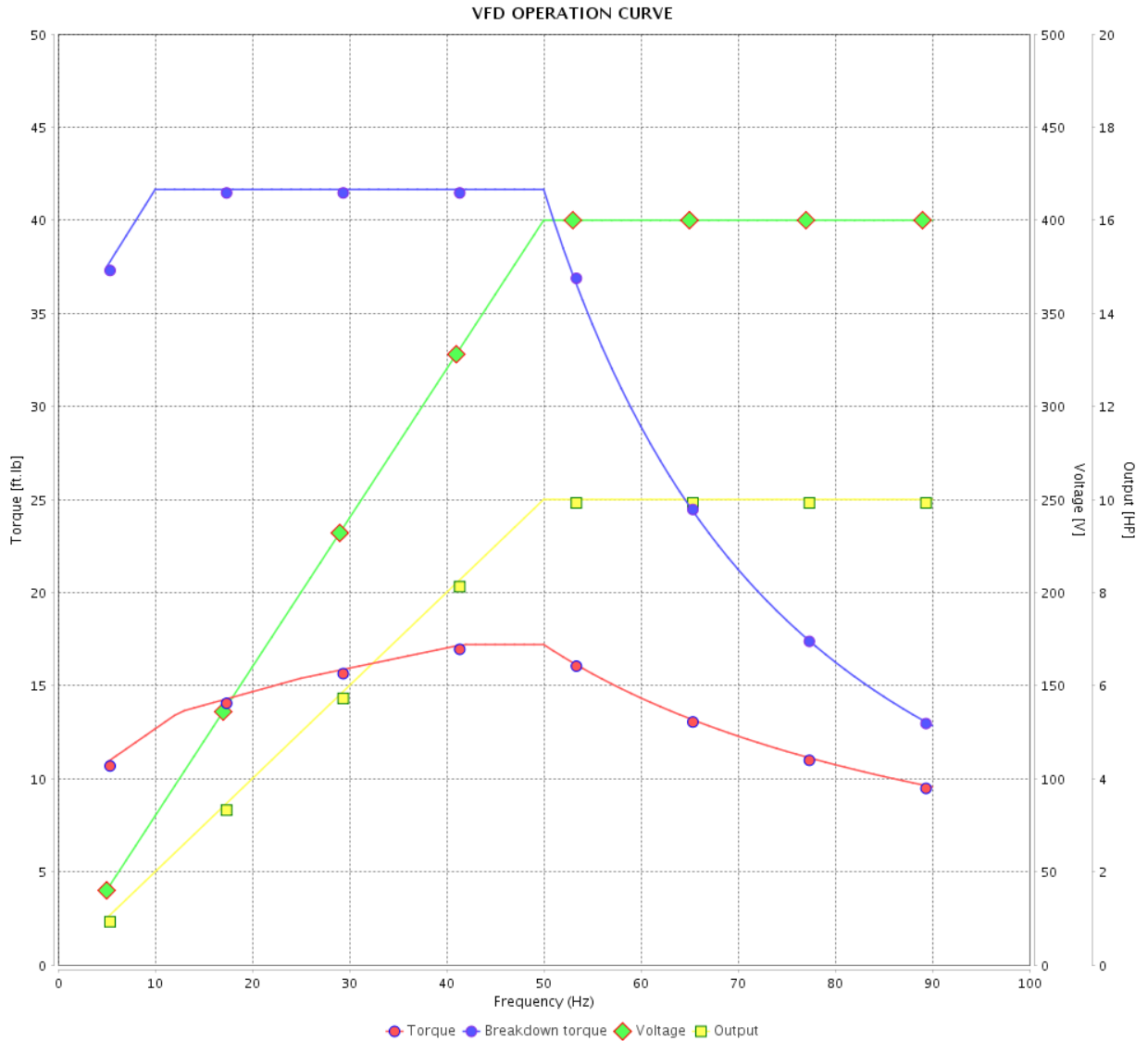


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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

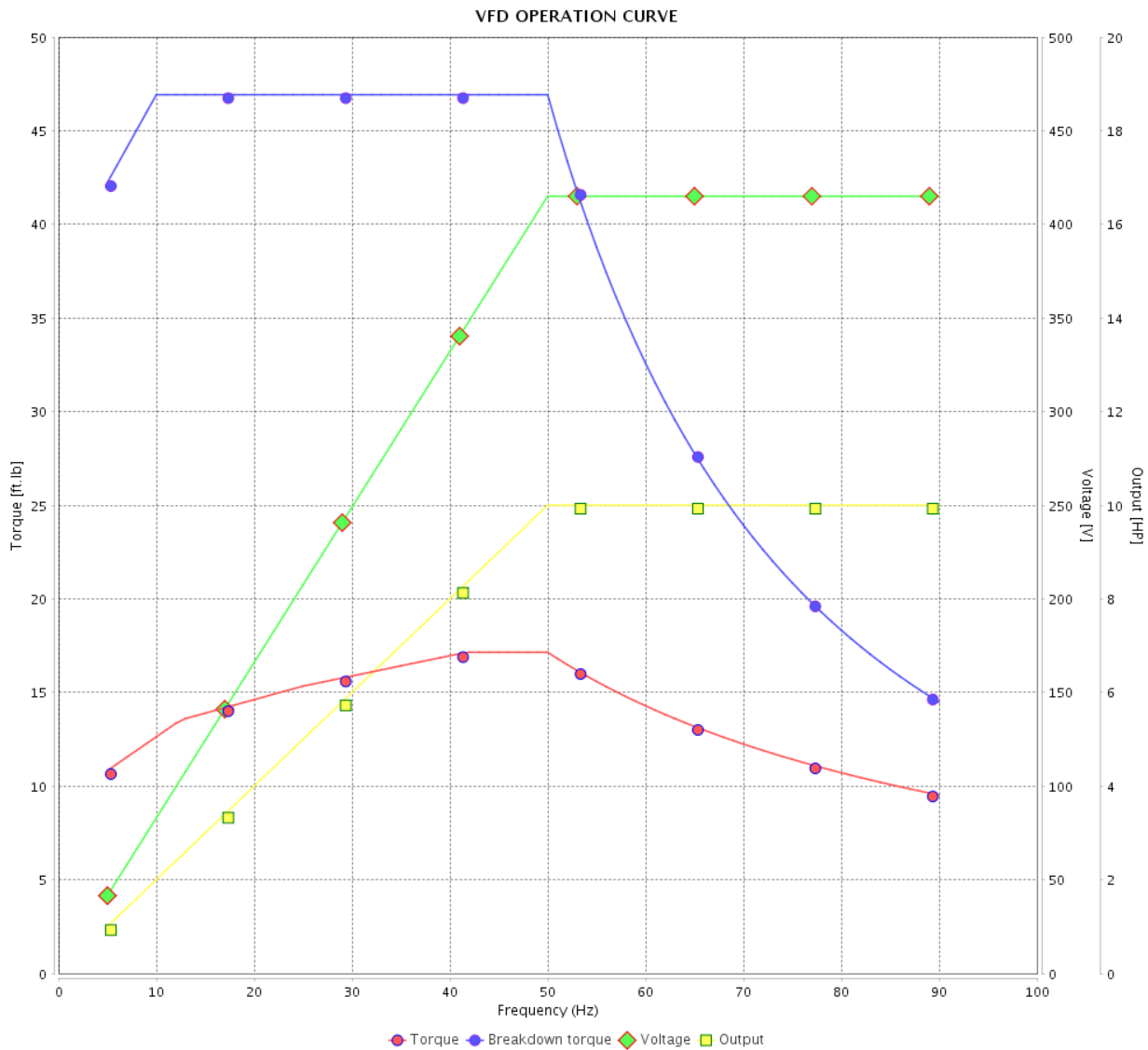


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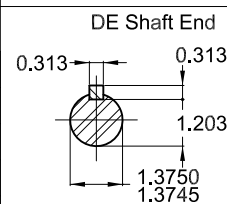
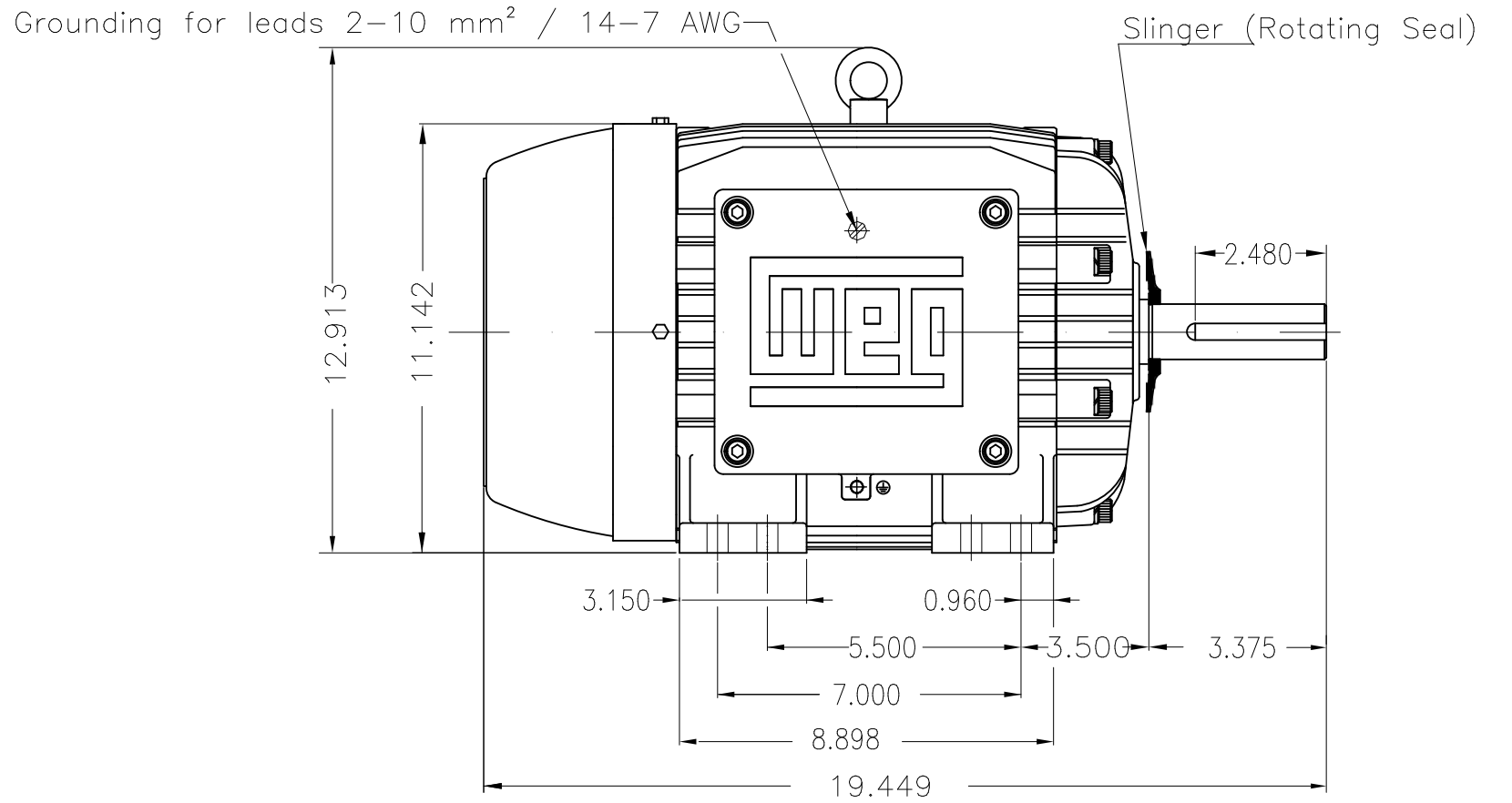
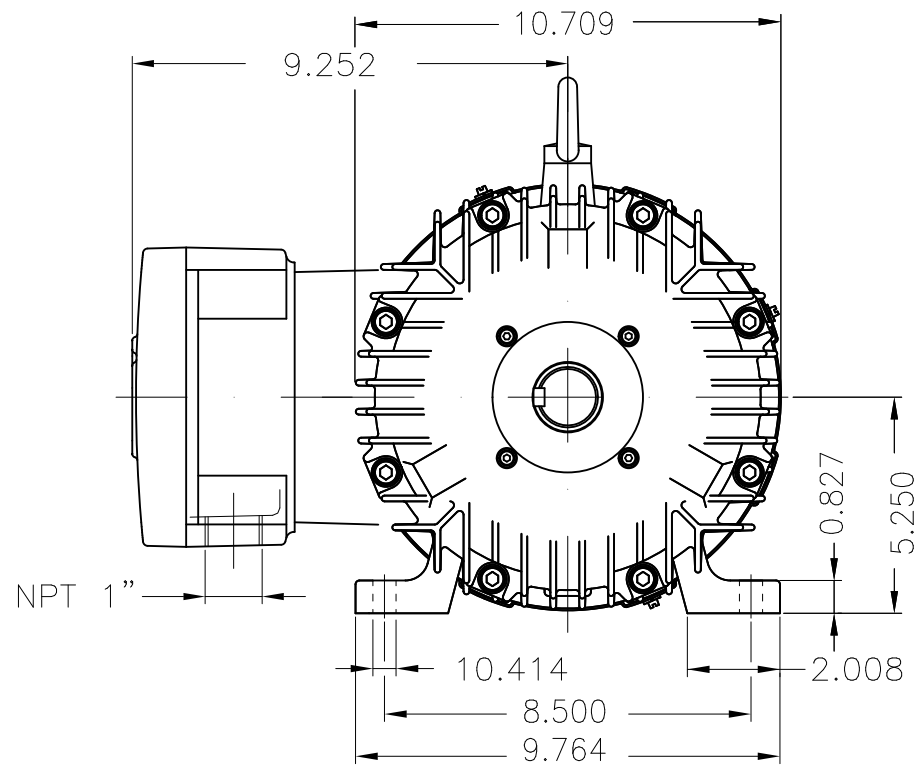


Performance : 415 V 50 Hz 2P IE3

Rated current : 13.0 A
 LRC : 6.9
 Rated torque : 18.0 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 2910 rpm

Moment of inertia (J) : 0.5512 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Packing - crate
 Color RAL 5009
 Painting plan 202P
 Mounting NEMA F-1
 Mounting B3R(D)

10 HP 02 Poles 60 Hz

Dimensions in inches

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR EXPLOSION PROOF PREM. EFF.					
CHECKED		FRAME 213/5T IP55 TEFC					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET		1 / 1	

PREVIEW
 WDD



MADE IN BRAZIL

**W21X NEMA**
Premium

14276570

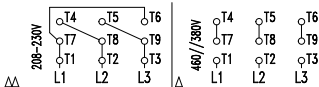
CC029A

Inverter Duty Motor
Severe Duty

LISTED

MODEL 01036XT3E215T

PH 3	FR 213/5T	
HP(kW) 10.0(7.5)		HZ 60 IP55
V 230/460		A 23.4/11.7
RPM 3525		NEMA NOM EFF 90.2%
PF 0.89	SFA 26.9/13.5	DES B
INS CL F Δ T 80 K	SF 1.15	ENCL TEFC
DUTY CONT.	CODE H	ALT 1000 m.a.s.l.
AMB 40°C	USABLE @208V 25.7 A	SF 1.15 SFA 29.6
AMB 55°C	SF1.0	
10HP 7.5kW 50Hz 380V 14.1A 2895RPM SF1.00 EFF 88.5% (IE2)		



→ 6308-2RS MOBIL POLYREX EM

→ 6207-2RS

201 Lbs



TEMP CODE T3C

CSA/UL: Class I - Div. 1 - Groups C and D

CSA: Class II - Div. 1 - Groups F and G

CSA: Class I - Zone 1 - IIB

EXPLOSION PROOF MOTOR

FOR USE ON VPWM VFD 1000:1VT, 20:1CT, 1.0SF, T3C, AMB 40°C.