

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: JP Pump NEMA Premium Efficiency Three-Phase	Product code :	12682728	
		Catalog # :	01018OT3E215JP-S	
Frame	: 213/5JP	Cooling method	: IC01 - ODP	
Insulation class	: F	Mounting	: F-1	
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)	
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line	
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 134 lb	
Design	: B	Moment of inertia (J)	: 1.30 sq.ft.lb	
Output [HP]	10	10	10	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	230/460	190/380	220/415	
Rated current [A]	24.8/12.4	29.8/14.9	27.2/14.4	
L. R. Amperes [A]	174/86.8	191/95.4	193/102	
LRC [A]	7.0x(Code H)	6.4x(Code G)	7.1x(Code H)	
No load current [A]	12.0/5.99	11.8/5.89	12.2/6.45	
Rated speed [RPM]	1770	1460	1465	
Slip [%]	1.67	2.67	2.33	
Rated torque [ft.lb]	29.7	36.0	35.8	
Locked rotor torque [%]	250	200	220	
Breakdown torque [%]	350	250	280	
Service factor	1.15	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 <sup>2</sup>	59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	
Efficiency (%)	25%	89.4	90.4	
	50%	90.2	89.6	
	75%	91.0	89.8	
	100%	91.7	88.7	
Power Factor	25%	0.38	0.41	
	50%	0.64	0.68	
	75%	0.77	0.80	
	100%	0.83	0.85	
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	: 499 lb	
		Max. compression	: 633 lb	
Lubrication interval	: - -			
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes USABLE @208V 27.4A SF 1.00 SFA 27.4A				
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



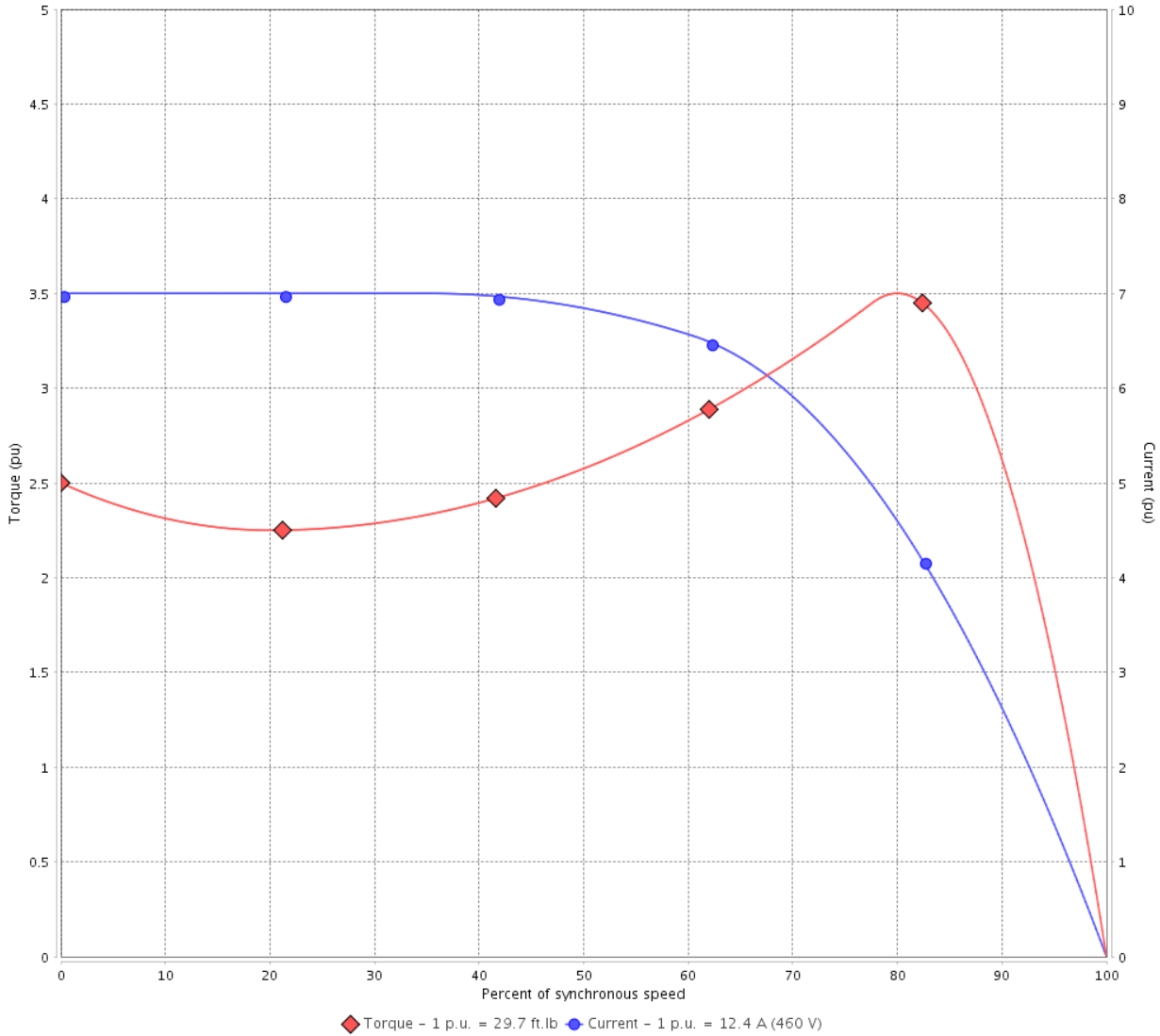
Customer :

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 12682728

Catalog # : 01018OT3E215JP-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 4P

Rated current	: 24.8/12.4 A	Moment of inertia (J)	: 1.30 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 29.7 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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

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# TORQUE AND CURRENT VS SPEED CURVE



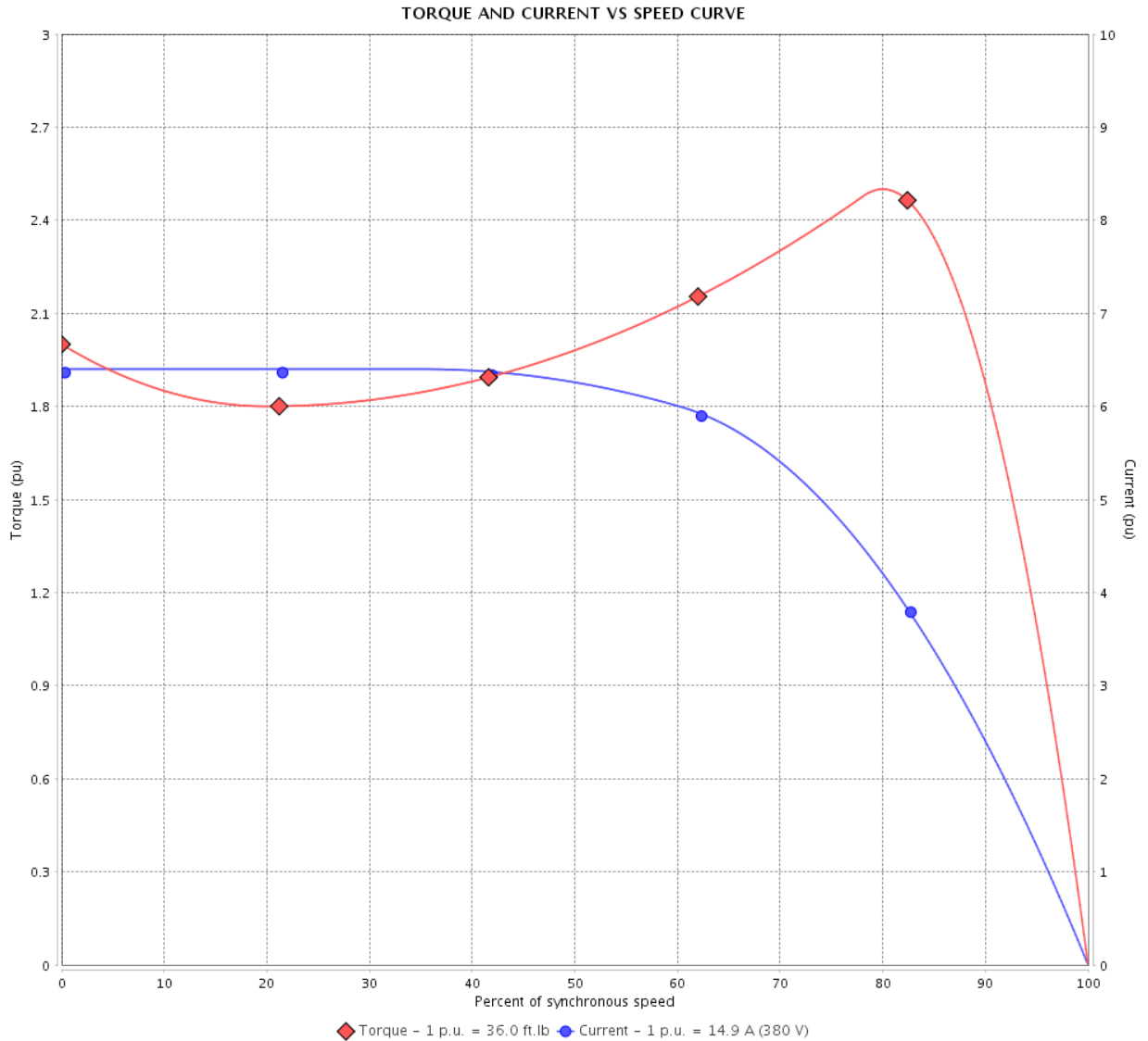
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : JP Pump NEMA Premium Efficiency Three-Phase

Product code : 12682728

Catalog # : 01018OT3E215JP-S



Performance : 190/380 V 50 Hz 4P

Rated current : 29.8/14.9 A  
 LRC : 6.4  
 Rated torque : 36.0 ft.lb  
 Locked rotor torque : 200 %  
 Breakdown torque : 250 %  
 Rated speed : 1460 rpm

Moment of inertia (J) : 1.30 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

## Three Phase Induction Motor - Squirrel Cage



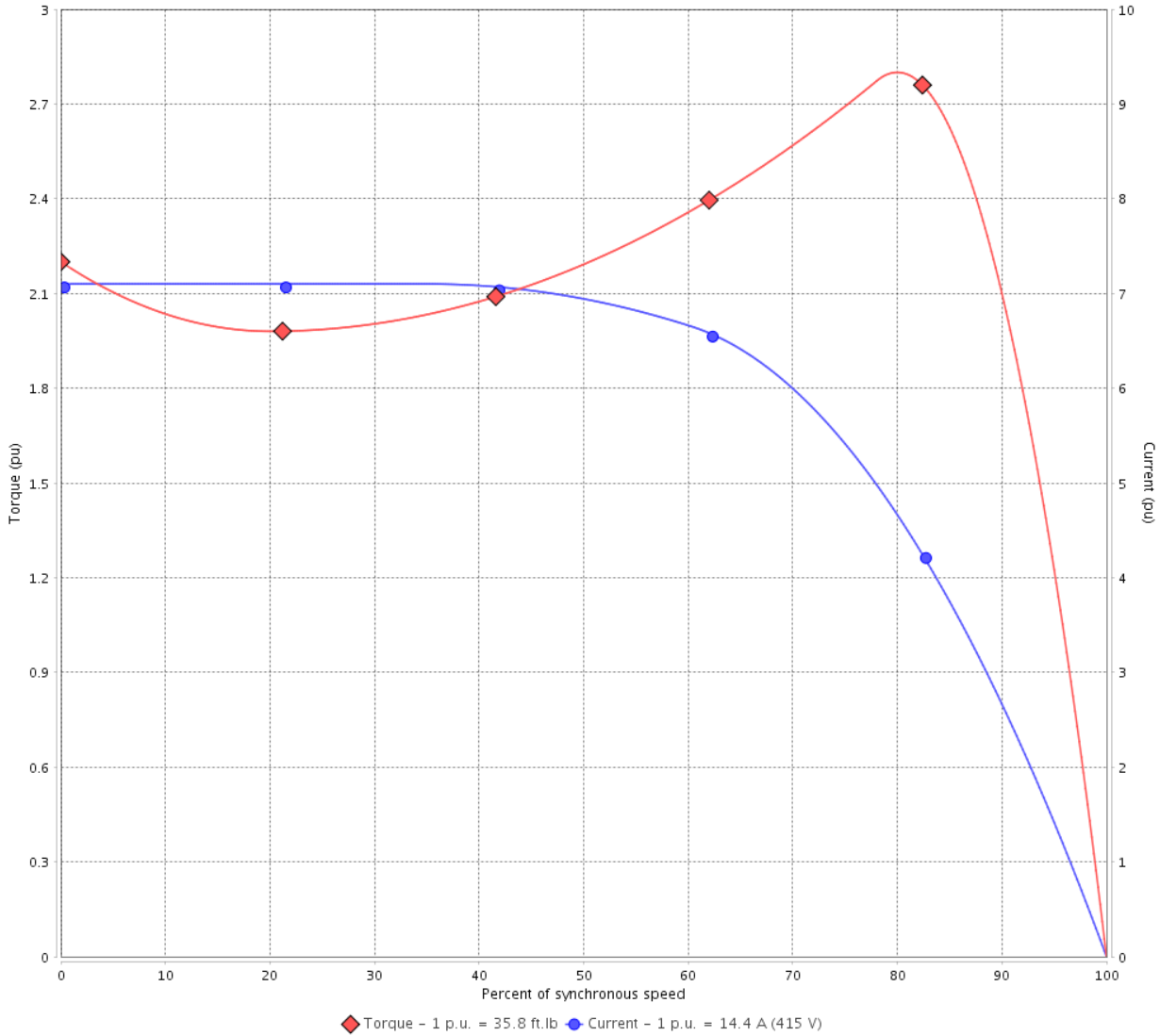
Customer :

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Efficiency Three-Phase

Product code : 12682728

Catalog # : 01018OT3E215JP-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 220/415 V 50 Hz 4P

Rated current	: 27.2/14.4 A	Moment of inertia (J)	: 1.30 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 35.8 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

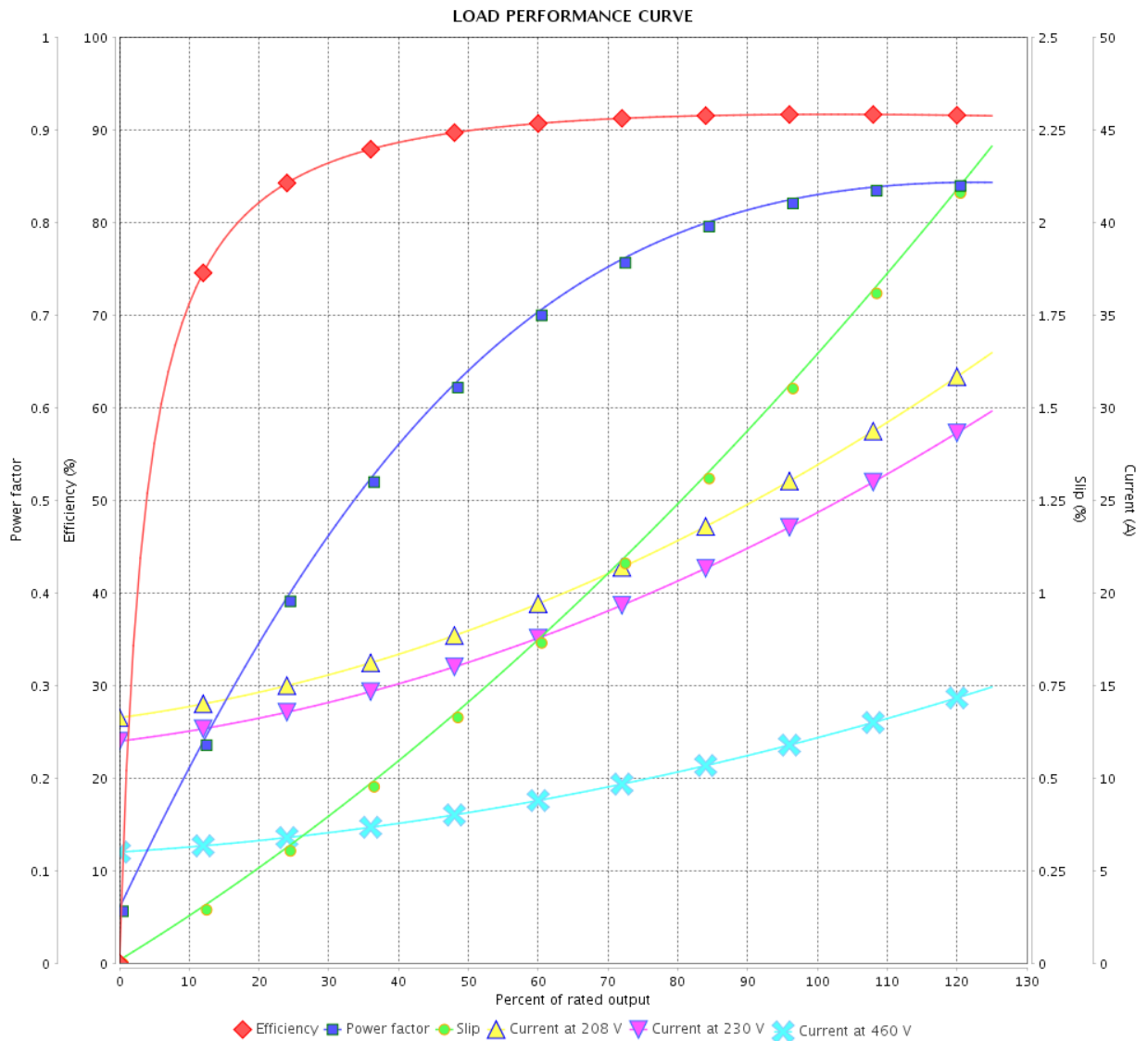


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Product code : 12682728

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Performance : 230/460 V 60 Hz 4P

Rated current : 24.8/12.4 A  
 LRC : 7.0  
 Rated torque : 29.7 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 350 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 1.30 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



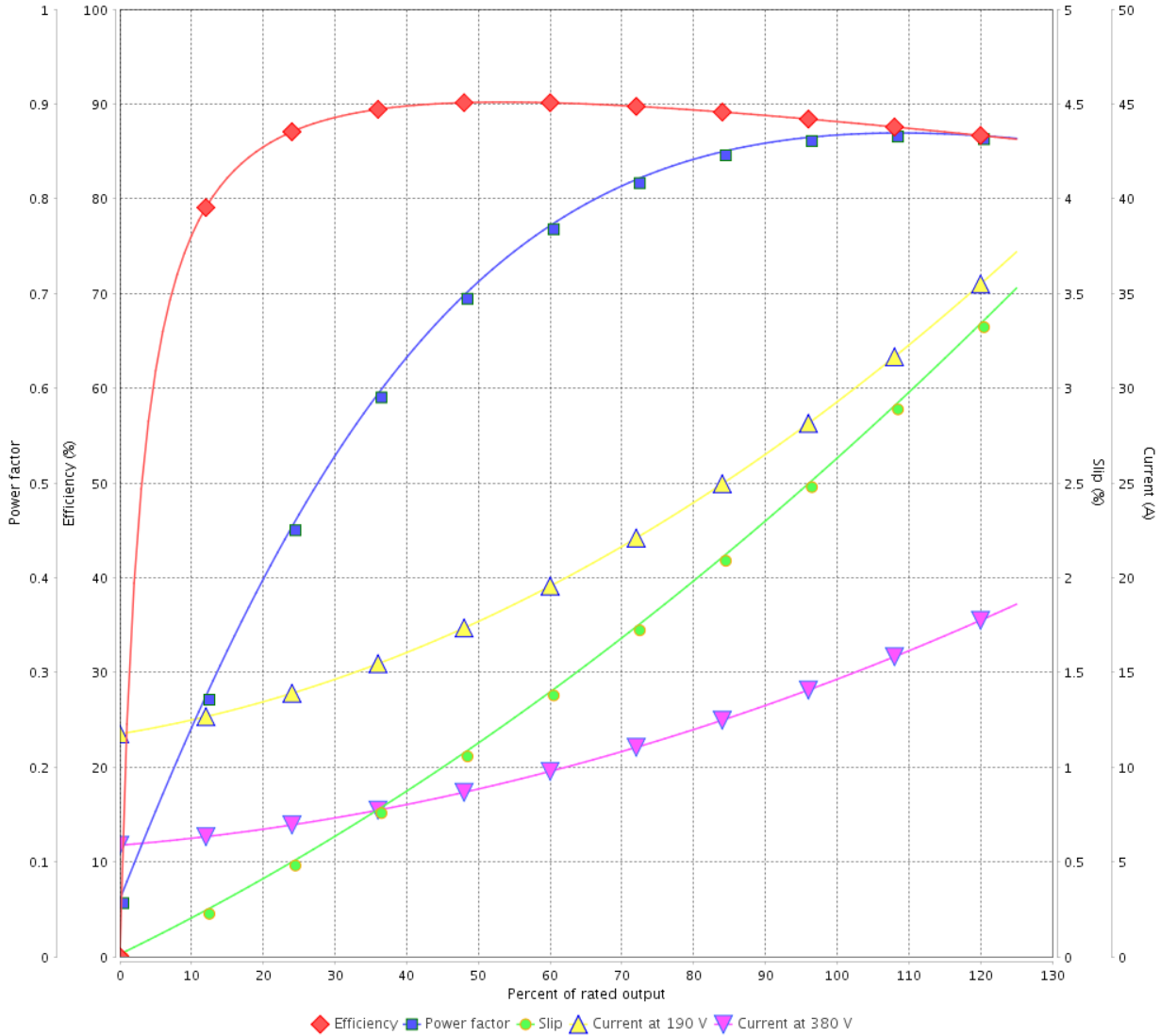
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LOAD PERFORMANCE CURVE



Performance : 190/380 V 50 Hz 4P

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Breakdown torque : 250 %  
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Insulation class : F  
Service factor : 1.15  
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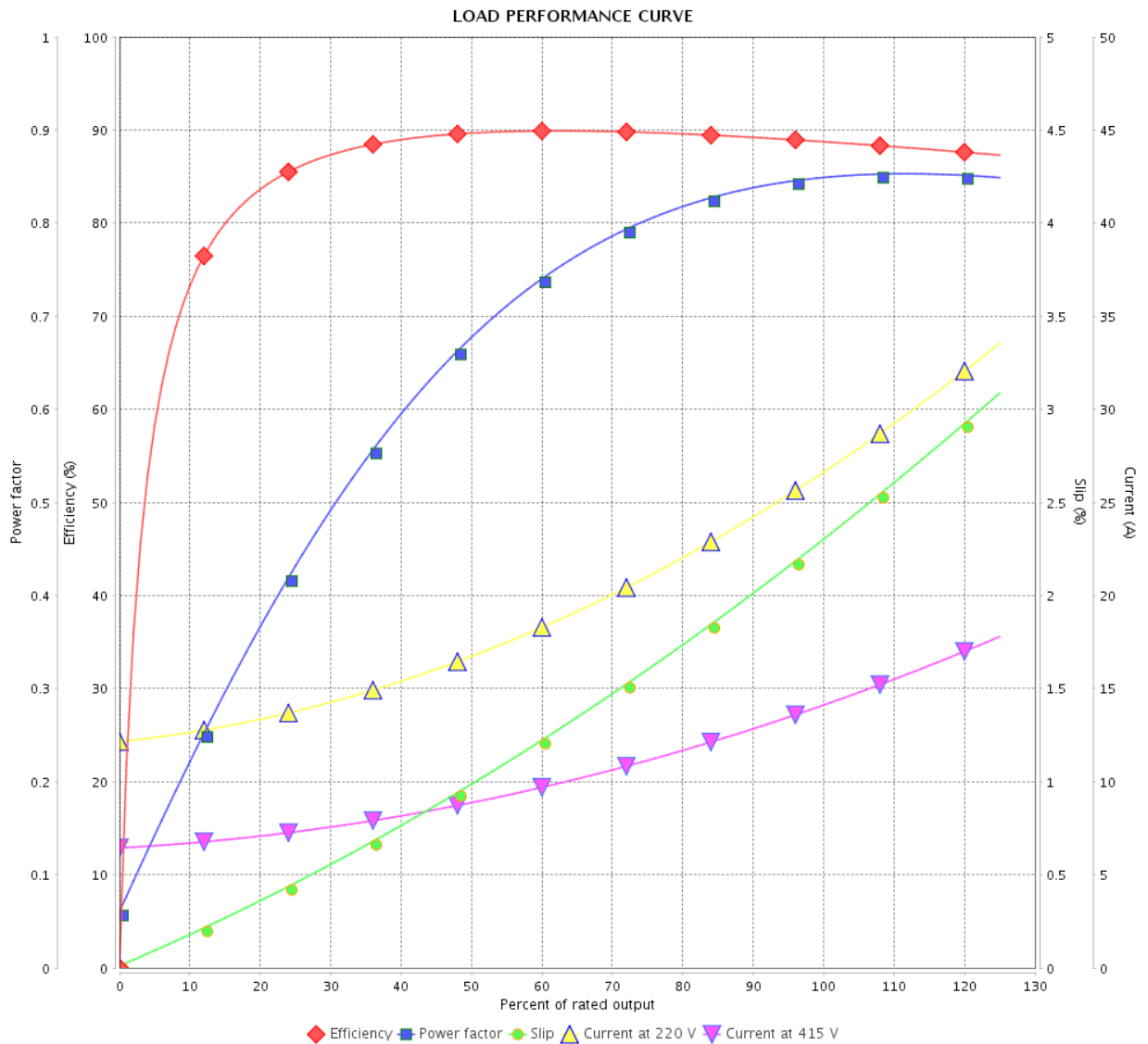


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Product line : JP Pump NEMA Premium  
Efficiency Three-Phase

Product code : 12682728

Catalog # : 01018OT3E215JP-S



Performance : 220/415 V 50 Hz 4P

Rated current : 27.2/14.4 A  
 LRC : 7.1  
 Rated torque : 35.8 ft.lb  
 Locked rotor torque : 220 %  
 Breakdown torque : 280 %  
 Rated speed : 1465 rpm

Moment of inertia (J) : 1.30 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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# THERMAL LIMIT CURVE



## Three Phase Induction Motor - Squirrel Cage

Customer :

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Efficiency Three-Phase

Product code : 12682728

Catalog # : 01018OT3E215JP-S

Performance : 230/460 V 60 Hz 4P

Rated current : 24.8/12.4 A  
LRC : 7.0  
Rated torque : 29.7 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 350 %  
Rated speed : 1770 rpm

Moment of inertia (J) : 1.30 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

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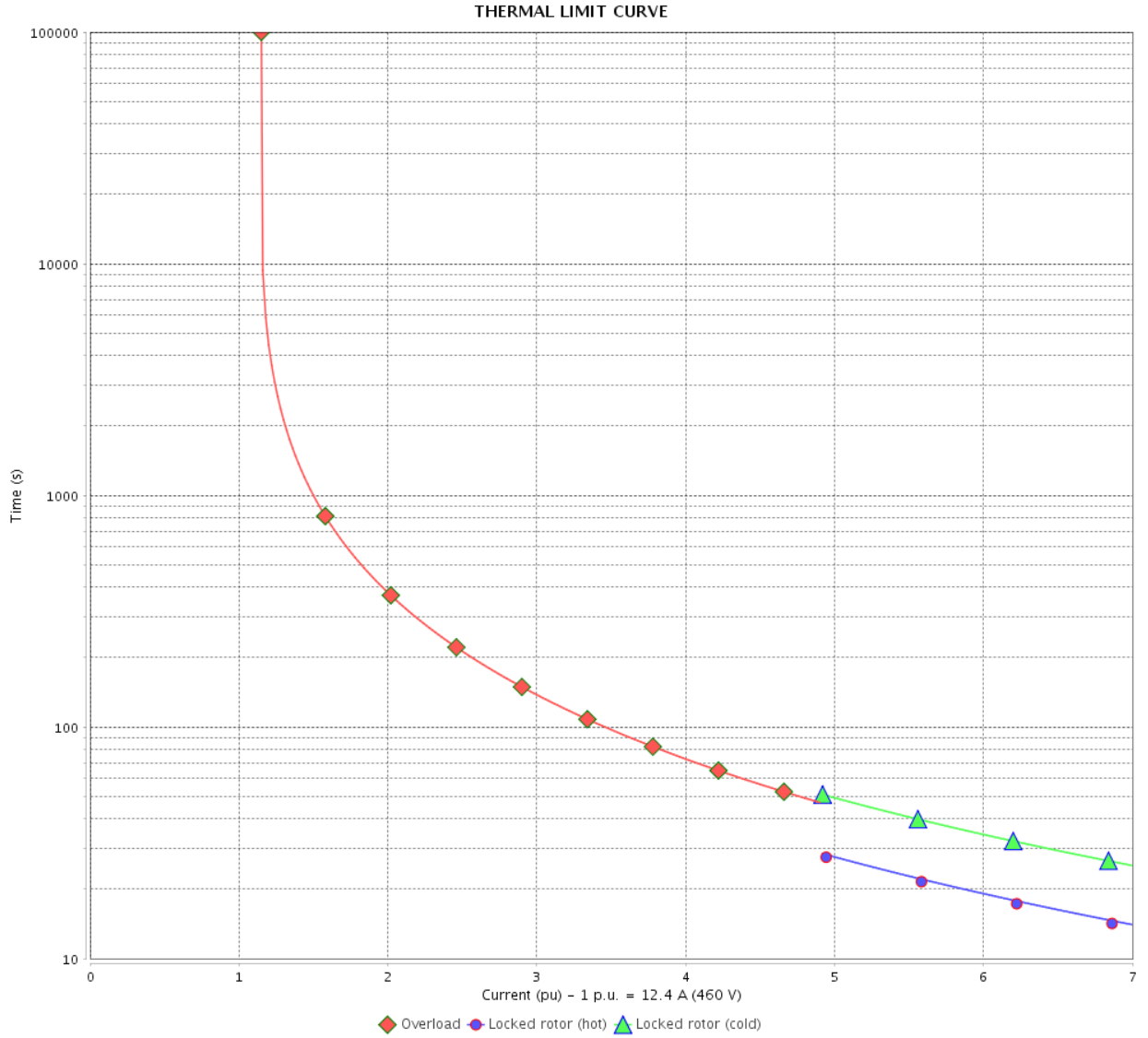


# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_



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Design : B

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Cooling constant

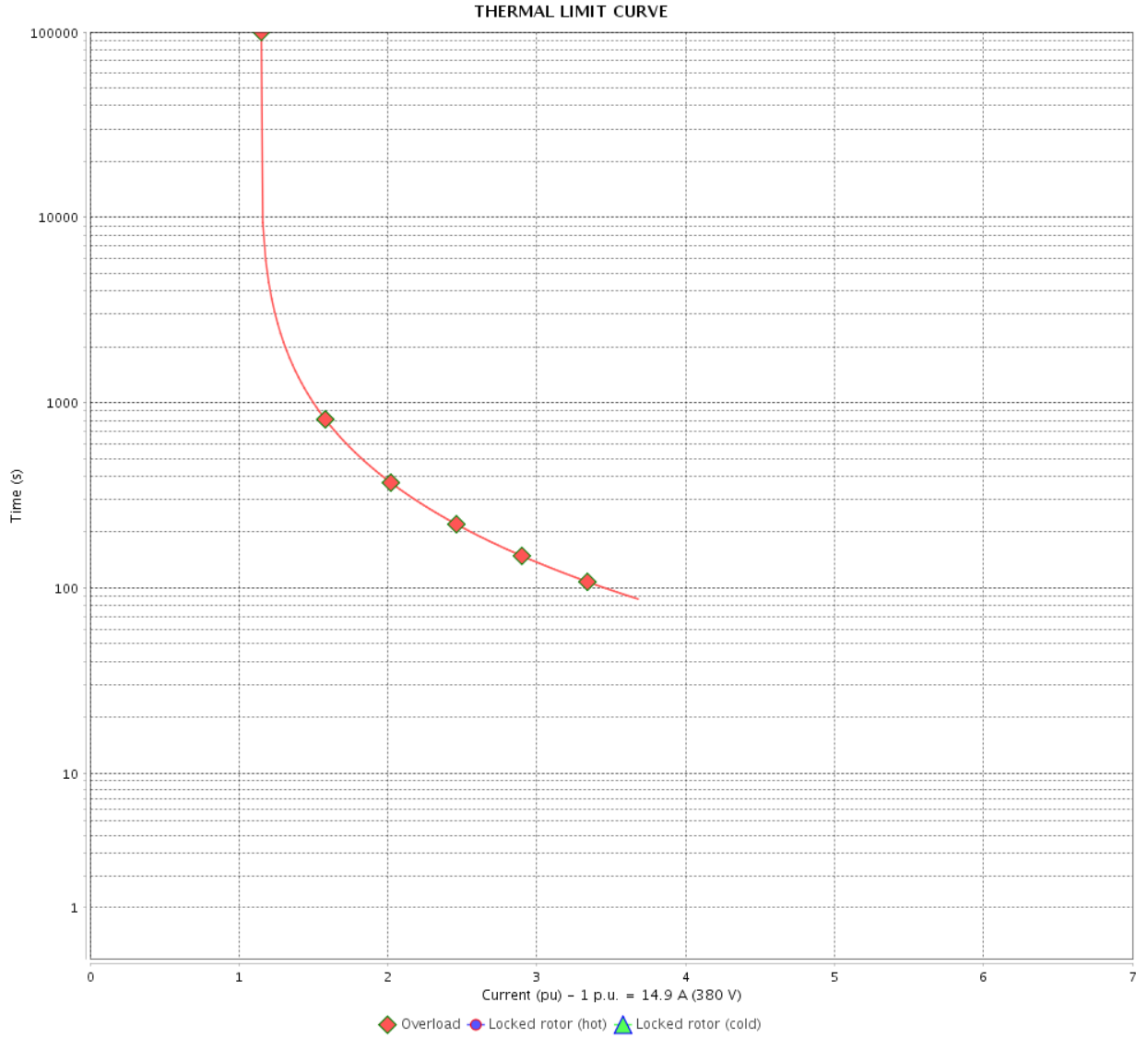
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Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

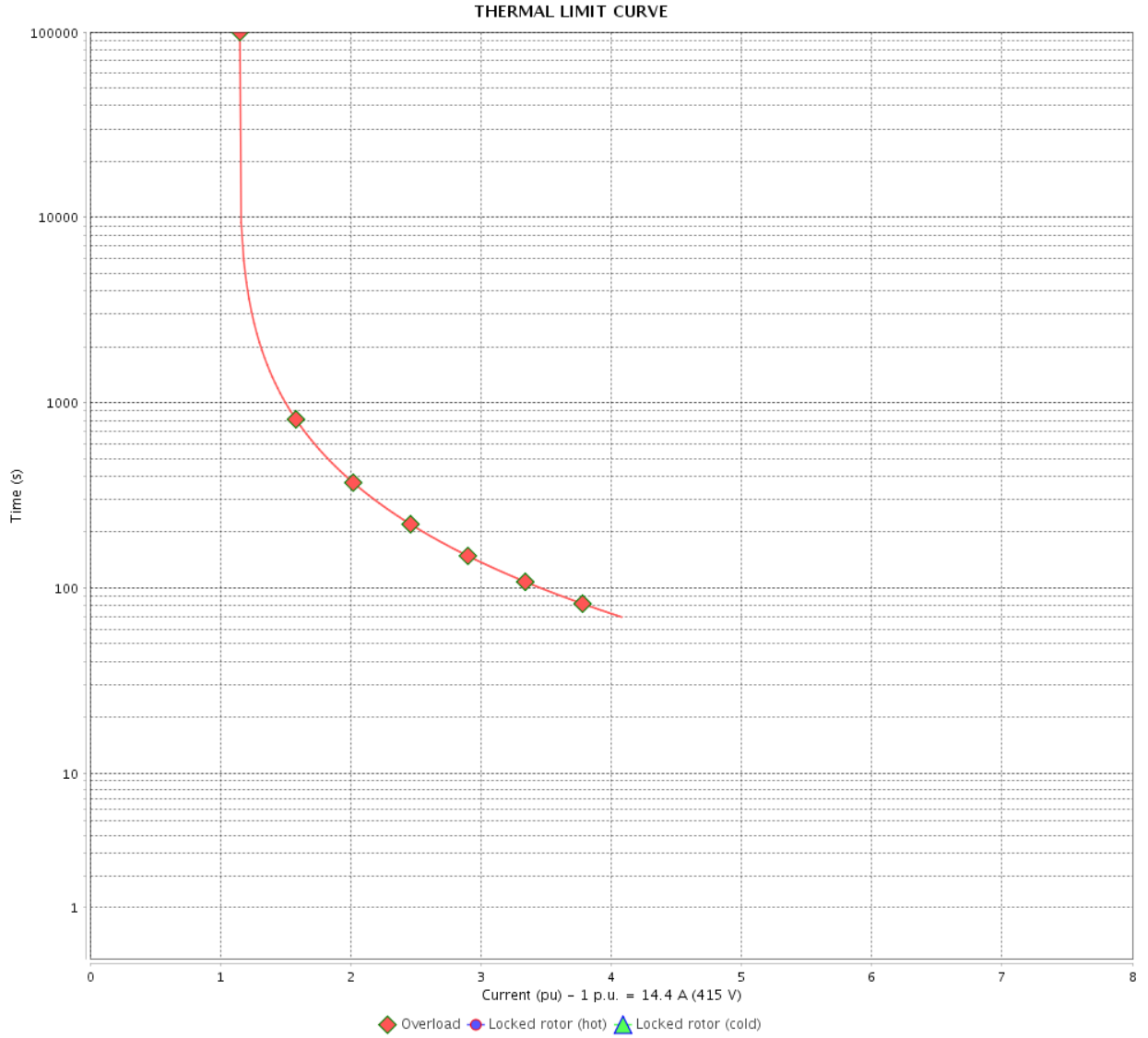
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



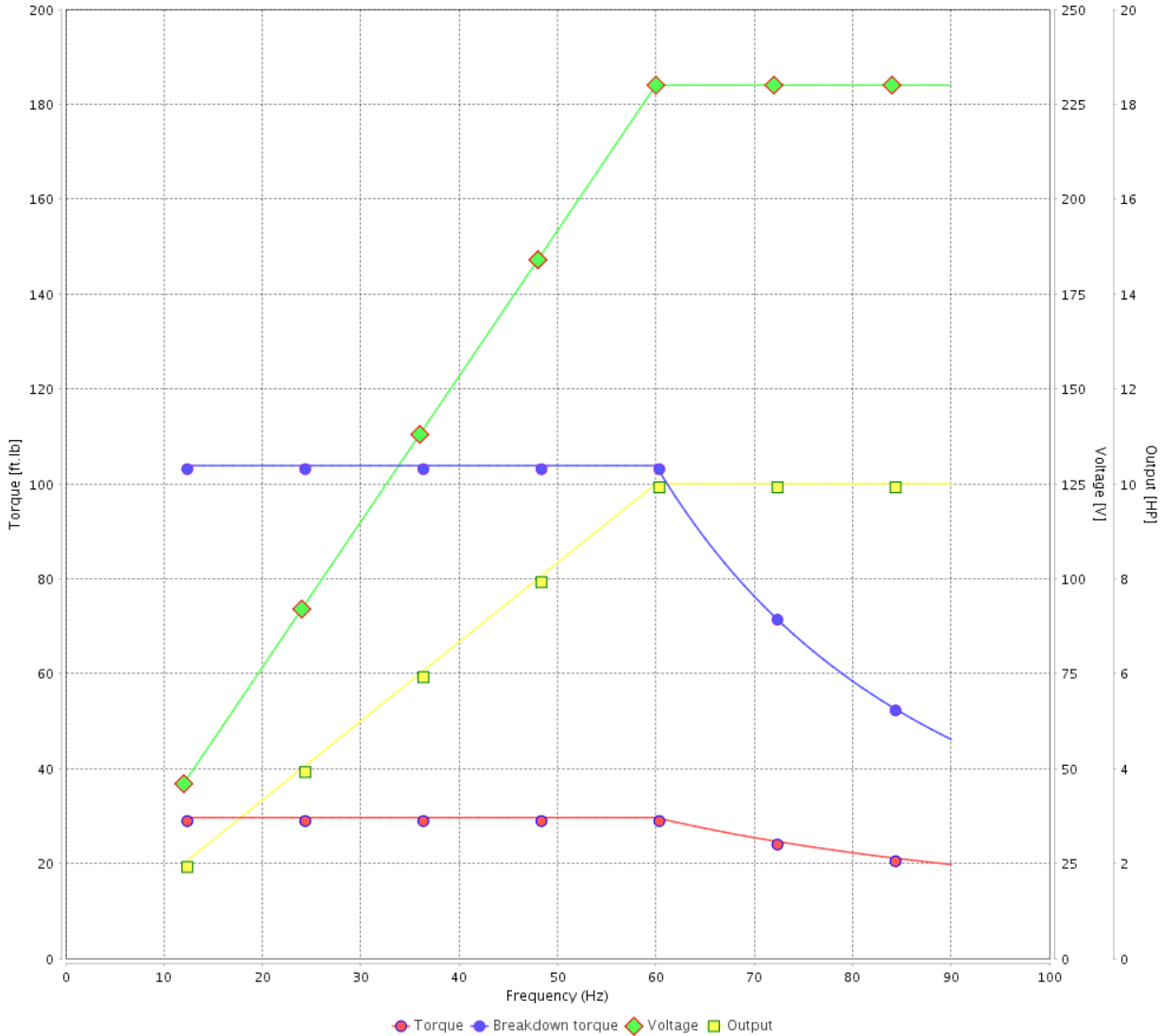
Customer :

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VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 24.8/12.4 A  
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 Rated torque : 29.7 ft.lb  
 Locked rotor torque : 250 %  
 Breakdown torque : 350 %  
 Rated speed : 1770 rpm

Moment of inertia (J) : 1.30 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

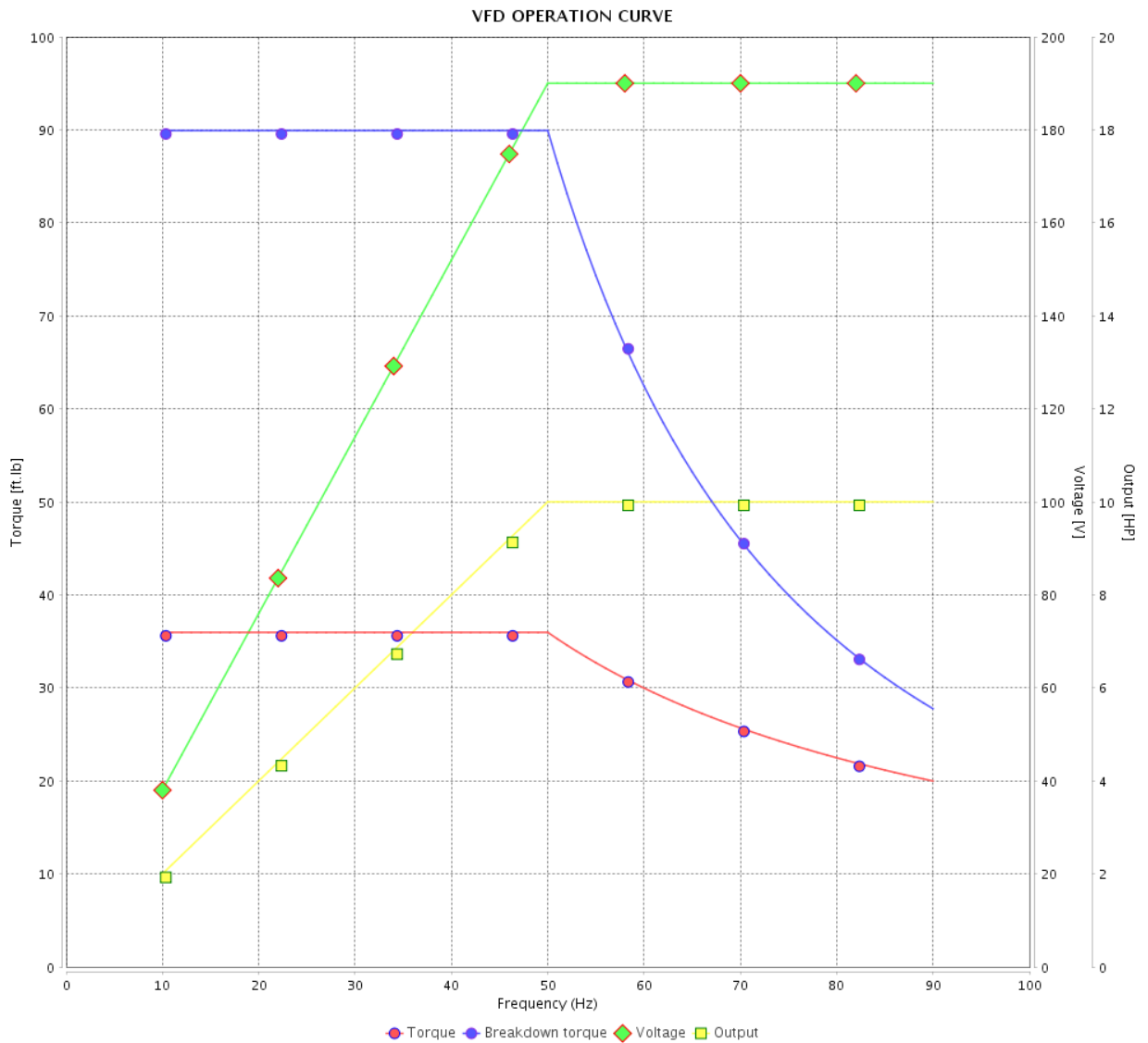


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Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



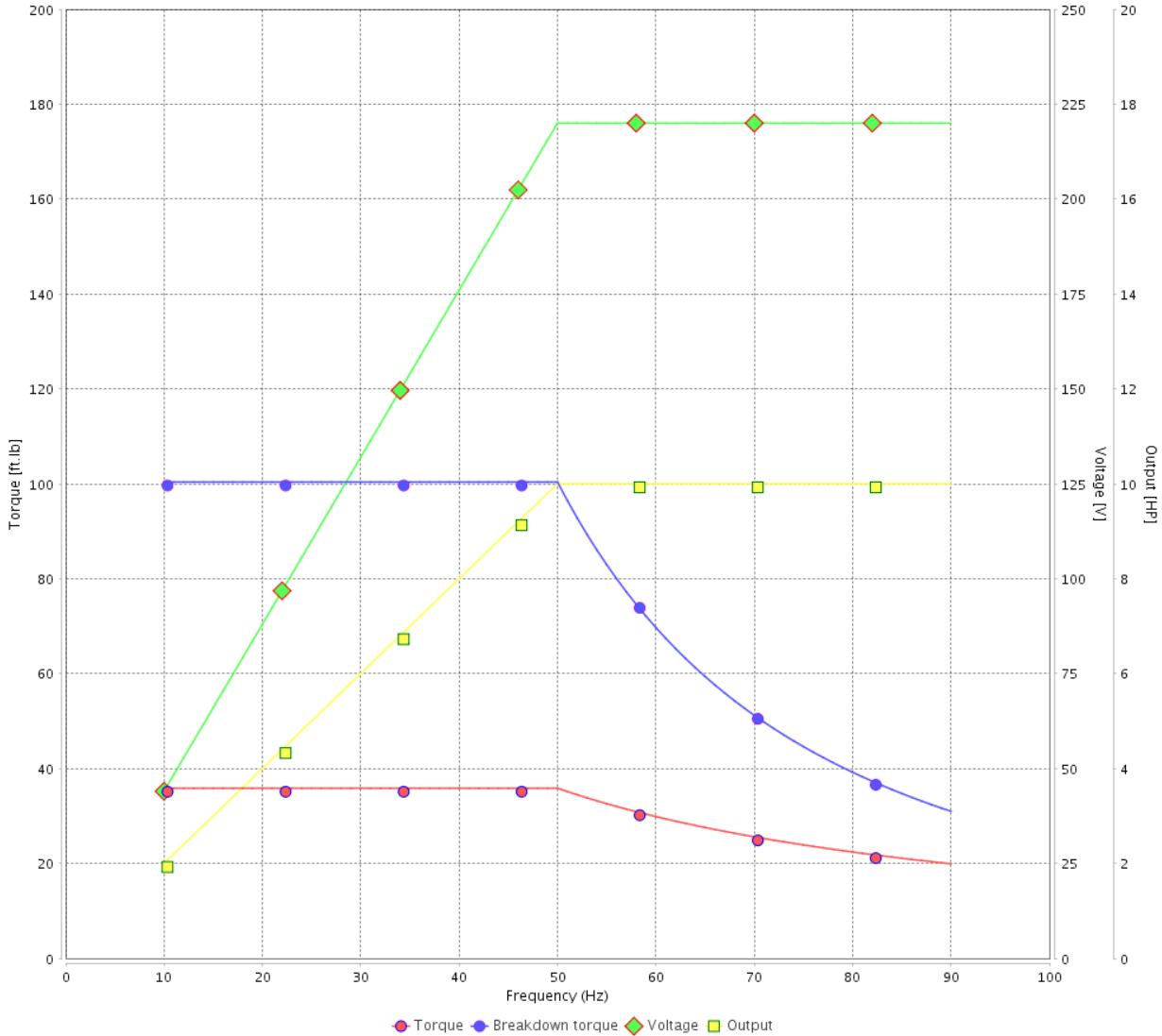
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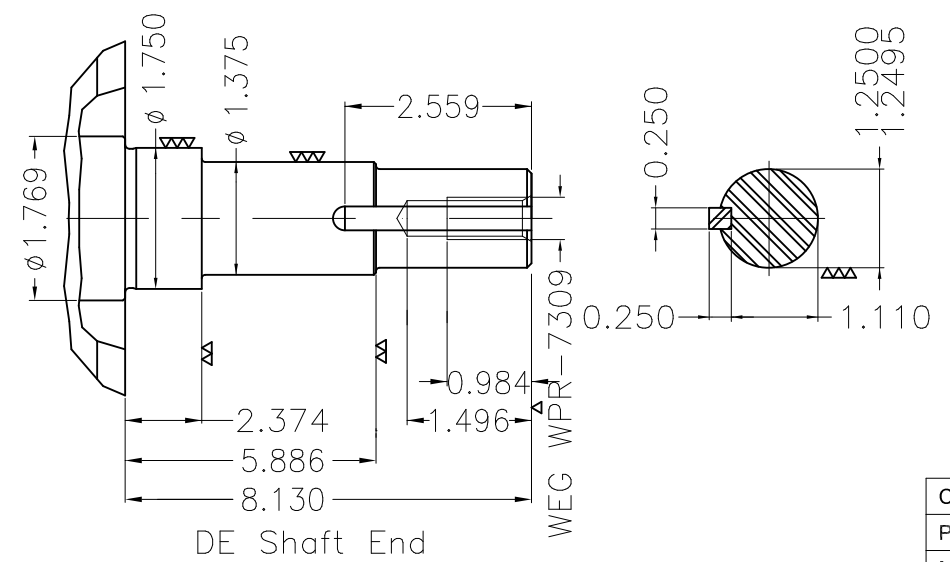
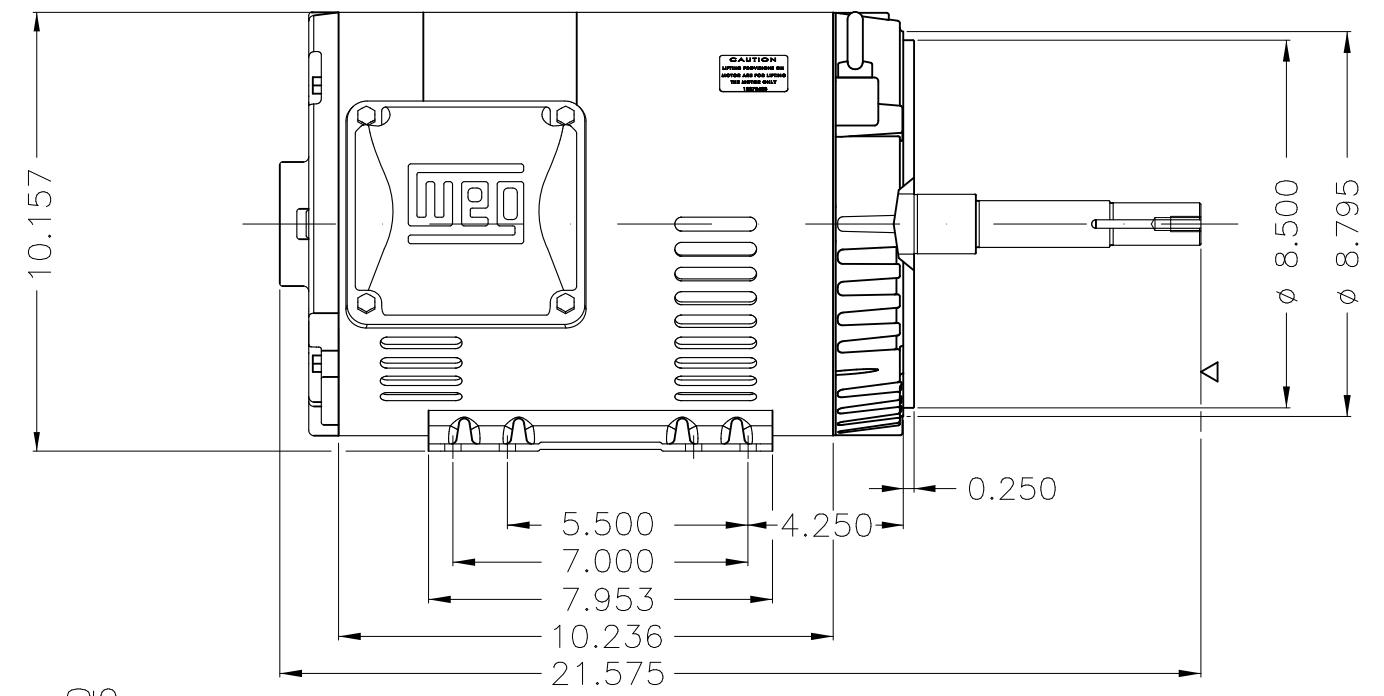
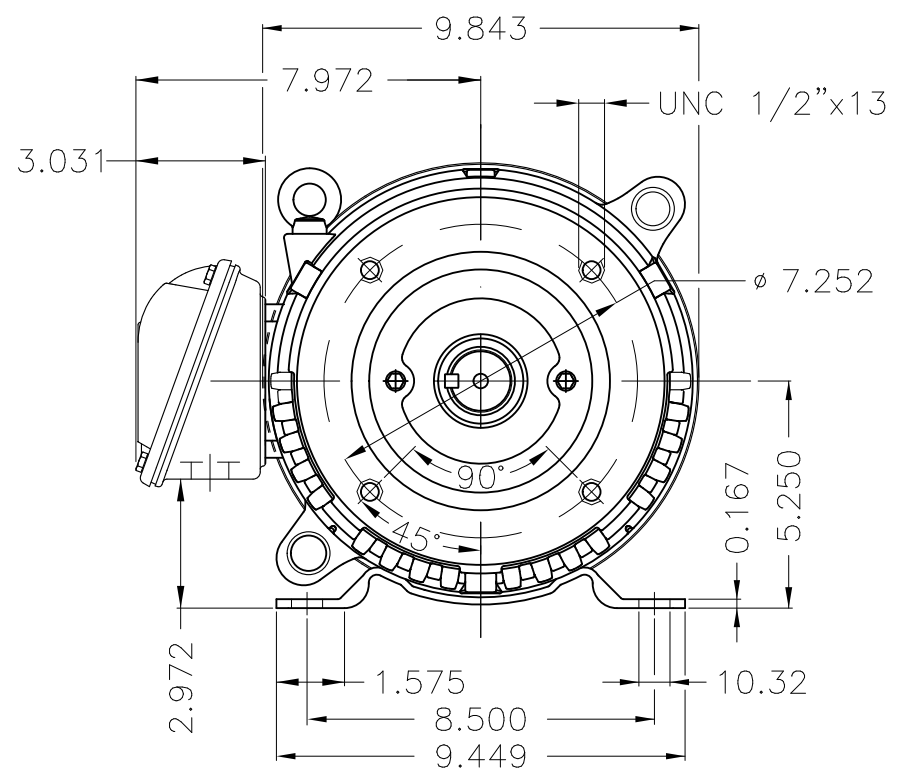
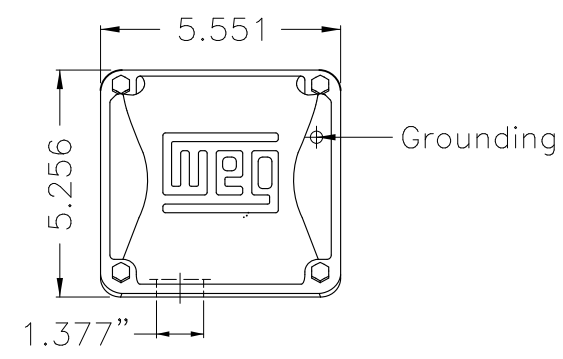
A

B

C

D

E



EUNC 1/2"-13 WEG WPR-7309

DE Shaft End

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	PIRBUSER	THREE PH. MOTOR ROLLED STEEL CLOSE COUPLED PUMP JP 5/5 DE PREL ETX							
CHECKED		FRAME 213/5JP IP21 ODP							
RELEASED									
REL DT.	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1	PREVIEW		WDD	

10 HP 04 Poles 60 Hz



**NEMA**  
**Premium**



MADE IN MEXICO

**MAT: 12682728 CC029A**

**W01.T00IC0X0N**

**MODEL 010180T3E215JP-S**

**15MAR2022 S/N:**

<b>PH 3</b>	<b>Hz 60</b>	<b>HP 10</b>
<b>FR 213/5.JP</b>		<b>KW 7.5</b>
<b>DUTY CONT.</b>		<b>V 230/460</b>
<b>ALT 1000 m.a.s.l.</b>		<b>A 24.8/12.4</b>
<b>INS CL F AT 80K</b>		<b>SFA 28.5/14.3</b>
<b>AMB 40°C</b>	<b>DES B</b>	<b>SF 1.15</b>
<b>ENCL ODP</b>	<b>CODE H</b>	<b>PF 0.83</b>
<b>USABLE @ 208V 27.4A</b>		<b>RPM 1770</b>
<b>SF1.00</b>		<b>NEMA NOM. EFF 91.7%</b>

**ALTERNATE RATING: 10HP 50Hz 190-220/380-415V SF1.15**  
**29.8-28.4/14.9-14.0A 1460RPM EFF 88.1% (IE1) IEC 60034-1**

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

<b>DE 6209-ZZ</b>	<b>ODE 6206-ZZ</b>	<b>MOBIL POLYREX EM</b>
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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.

