

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code : 12675385	
			Catalog # :	00212ET3E184TC-S	
Frame	:	182/4TC	Cooling method	: IC411 - TEFC	
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>	: 88.4 lb	
Protection degree	:	IP55	Moment of inertia (J)	: 0.3424 sq.ft.lb	
Design	:	B			
Output [HP]		2	2	2	
Poles		6	6	6	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190-220/380	415	
Rated current [A]		6.00/3.00	7.00-6.05/3.50	3.41	
L. R. Amperes [A]		45.0/22.5	42.7-36.9/21.3	24.2	
LRC [A]		7.5x(Code K)	6.1x(Code H)	7.1x(Code K)	
No load current [A]		3.74/1.87	3.69-3.19/1.85	2.15	
Rated speed [RPM]		1170	955	965	
Slip [%]		2.50	4.50	3.50	
Rated torque [ft.lb]		8.98	11.0	10.9	
Locked rotor torque [%]		260	210	280	
Breakdown torque [%]		370	280	350	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)	
Efficiency (%)	25%	82.0	85.5	83.1	
	50%	84.0	85.3	83.7	
	75%	86.5	86.4	86.0	
	100%	88.5	85.7	86.2	
Power Factor	25%	0.28	0.33	0.28	
	50%	0.50	0.57	0.50	
	75%	0.62	0.69	0.63	
	100%	0.71	0.76	0.71	
Bearing type	:	<u>Drive end</u> 6206 ZZ <u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	:	V'Ring Without Bearing Seal	Max. traction	: 199 lb	
			Max. compression	: 287 lb	
Lubrication interval	:	-			
Lubricant amount	:	-			
Lubricant type	:	Mobil Polyrex EM			
Notes USABLE @208V 6.63A SF 1.00 SFA 6.63A					
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



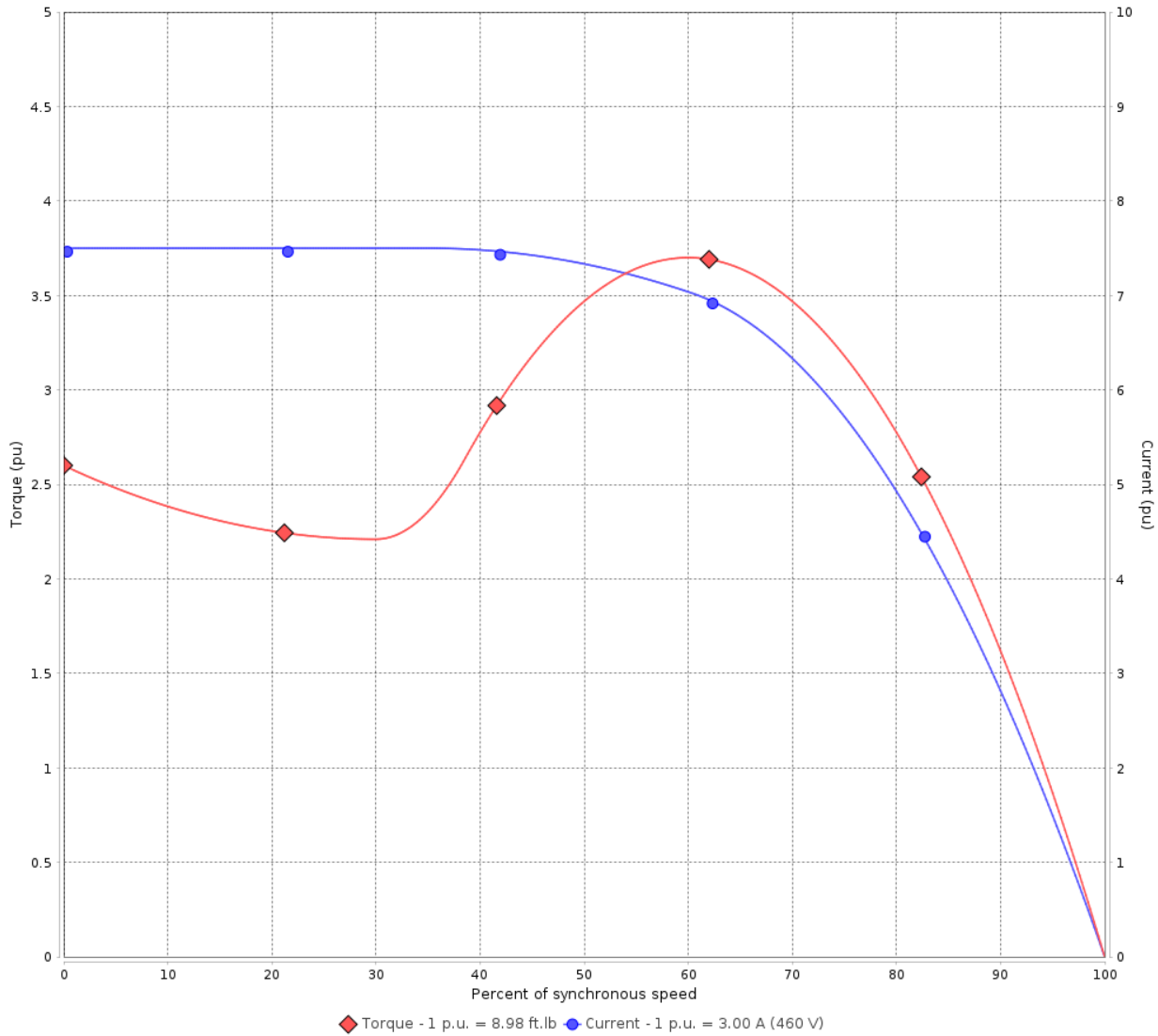
Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12675385

Catalog # : 00212ET3E184TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 6.00/3.00 A  
LRC : 7.5  
Rated torque : 8.98 ft.lb  
Locked rotor torque : 260 %  
Breakdown torque : 370 %  
Rated speed : 1170 rpm

Moment of inertia (J) : 0.3424 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Locked rotor time : 79s (cold) 44s (hot)

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# TORQUE AND CURRENT VS SPEED CURVE



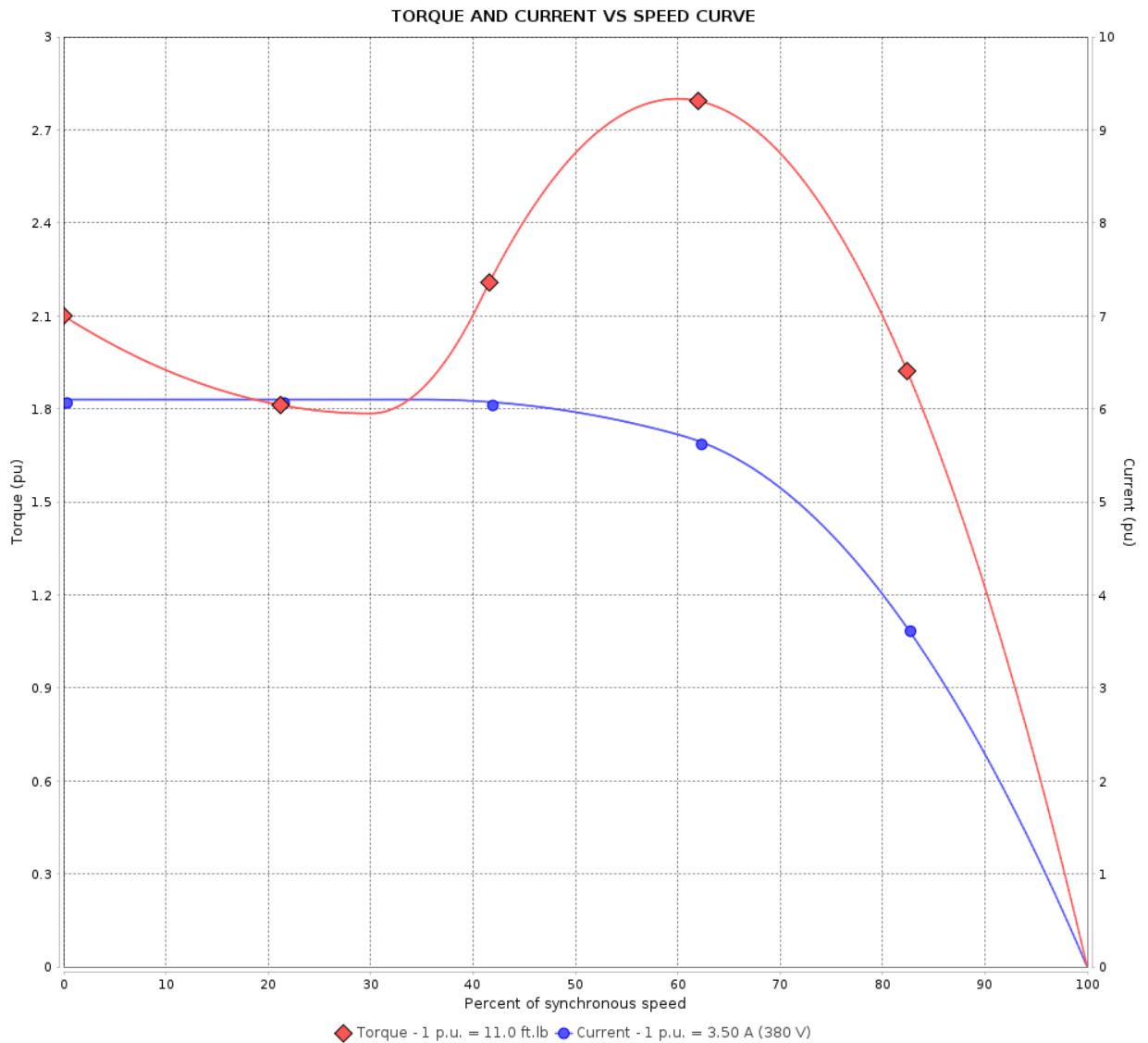
## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency  
Three-Phase

Product code : 12675385

Catalog # : 00212ET3E184TC-S



Performance : 190-220/380 V 50 Hz 6P

Rated current	: 7.00-6.05/3.50 A	Moment of inertia (J)	: 0.3424 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 11.0 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 955 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



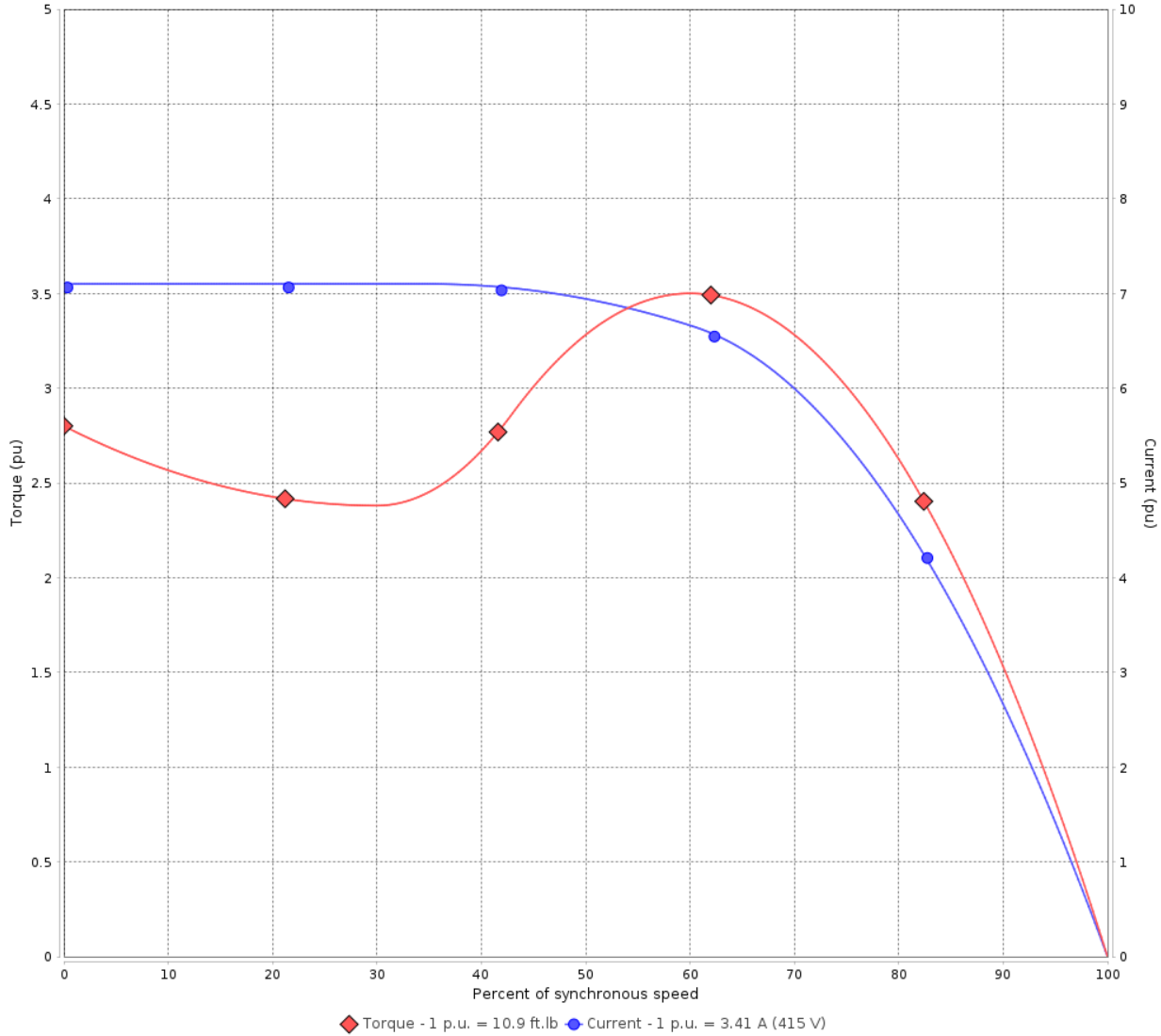
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Three-Phase

Product code : 12675385

Catalog # : 00212ET3E184TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 6P

Rated current	: 3.41 A	Moment of inertia (J)	: 0.3424 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 10.9 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

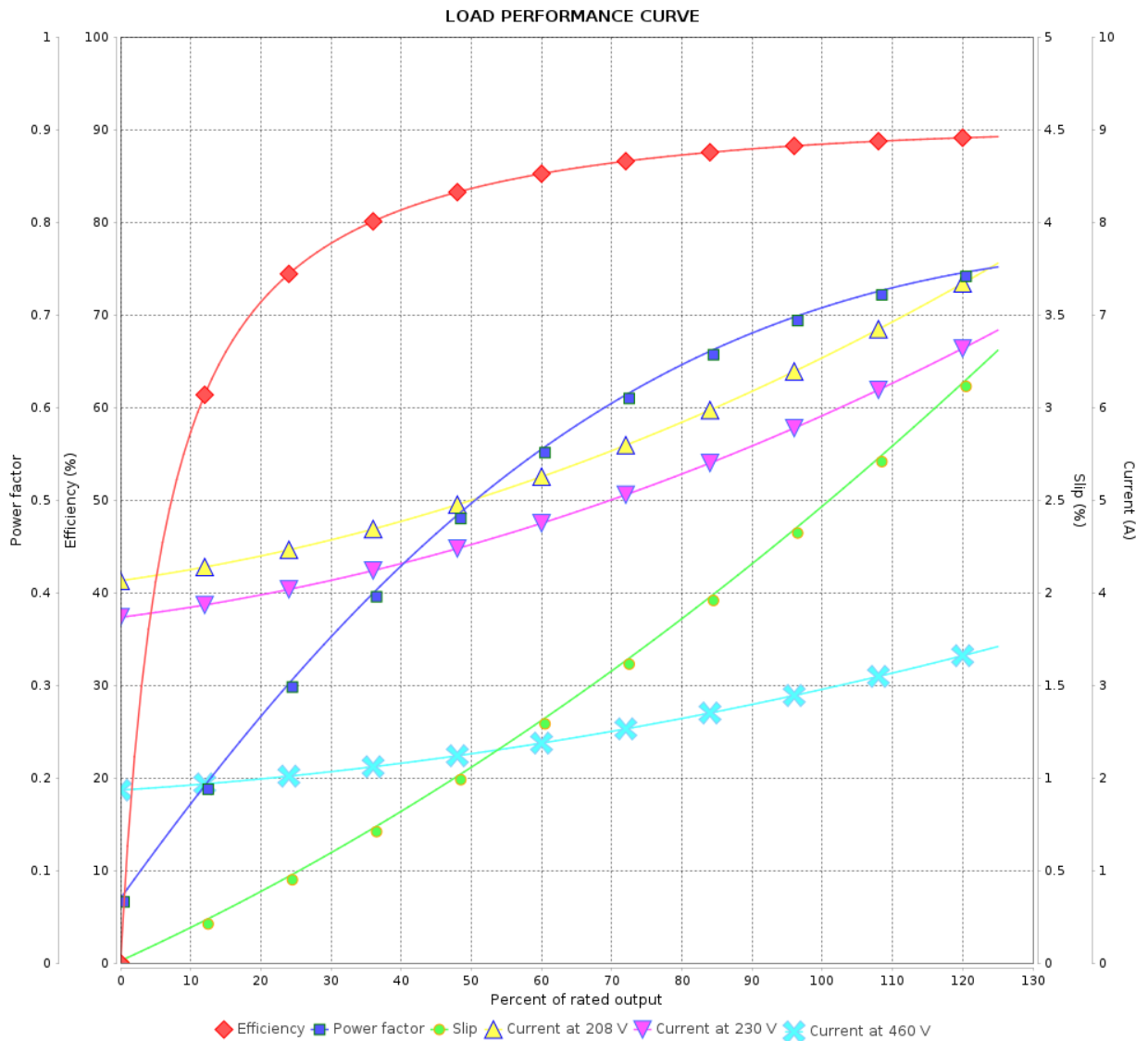


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Three-Phase

Product code : 12675385

Catalog # : 00212ET3E184TC-S



Performance : 230/460 V 60 Hz 6P

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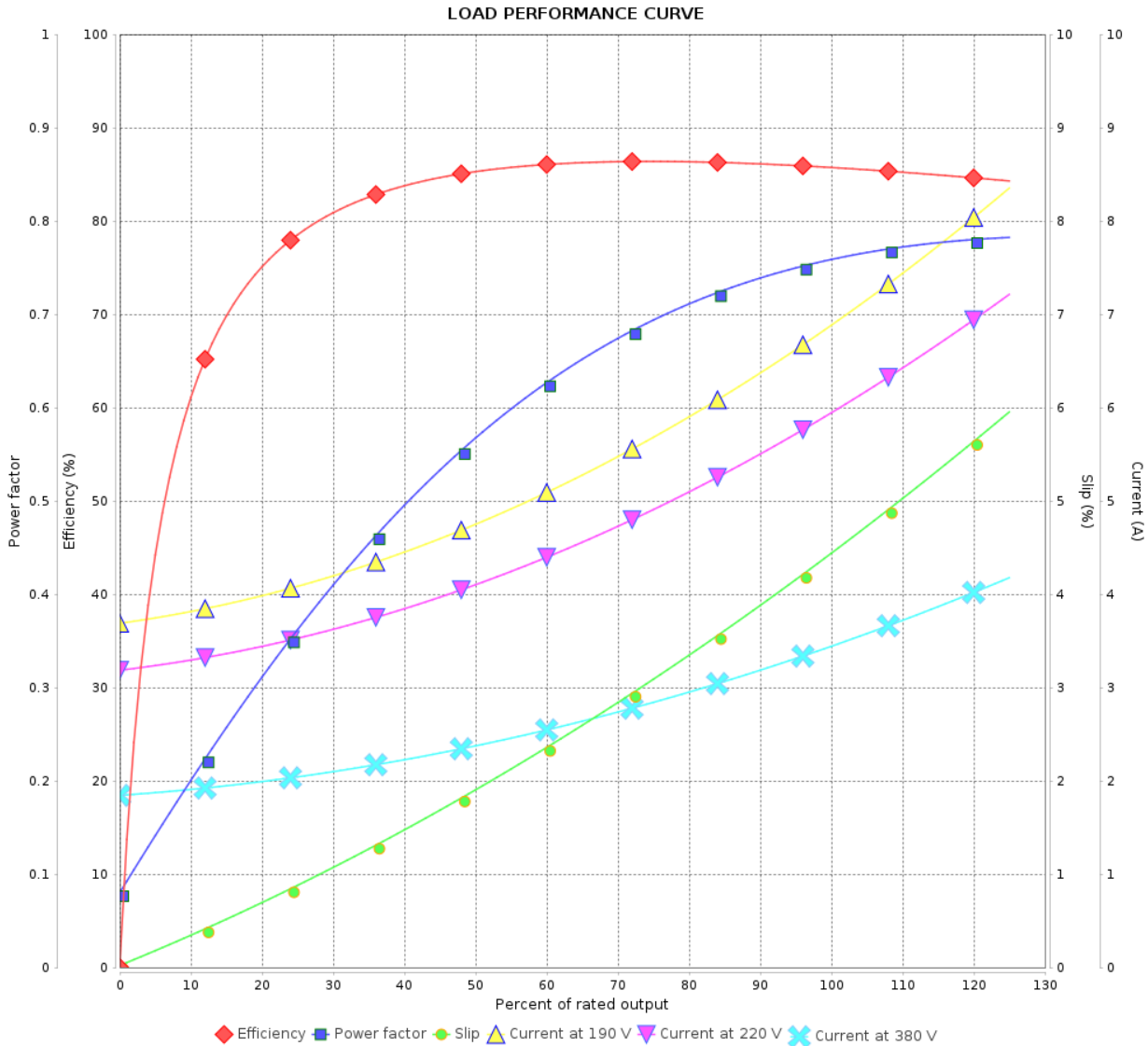


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Performance : 190-220/380 V 50 Hz 6P

Rated current : 7.00-6.05/3.50 A  
 LRC : 6.1  
 Rated torque : 11.0 ft.lb  
 Locked rotor torque : 210 %  
 Breakdown torque : 280 %  
 Rated speed : 955 rpm

Moment of inertia (J) : 0.3424 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
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# THERMAL LIMIT CURVE

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Design : B

Heating constant

Cooling constant

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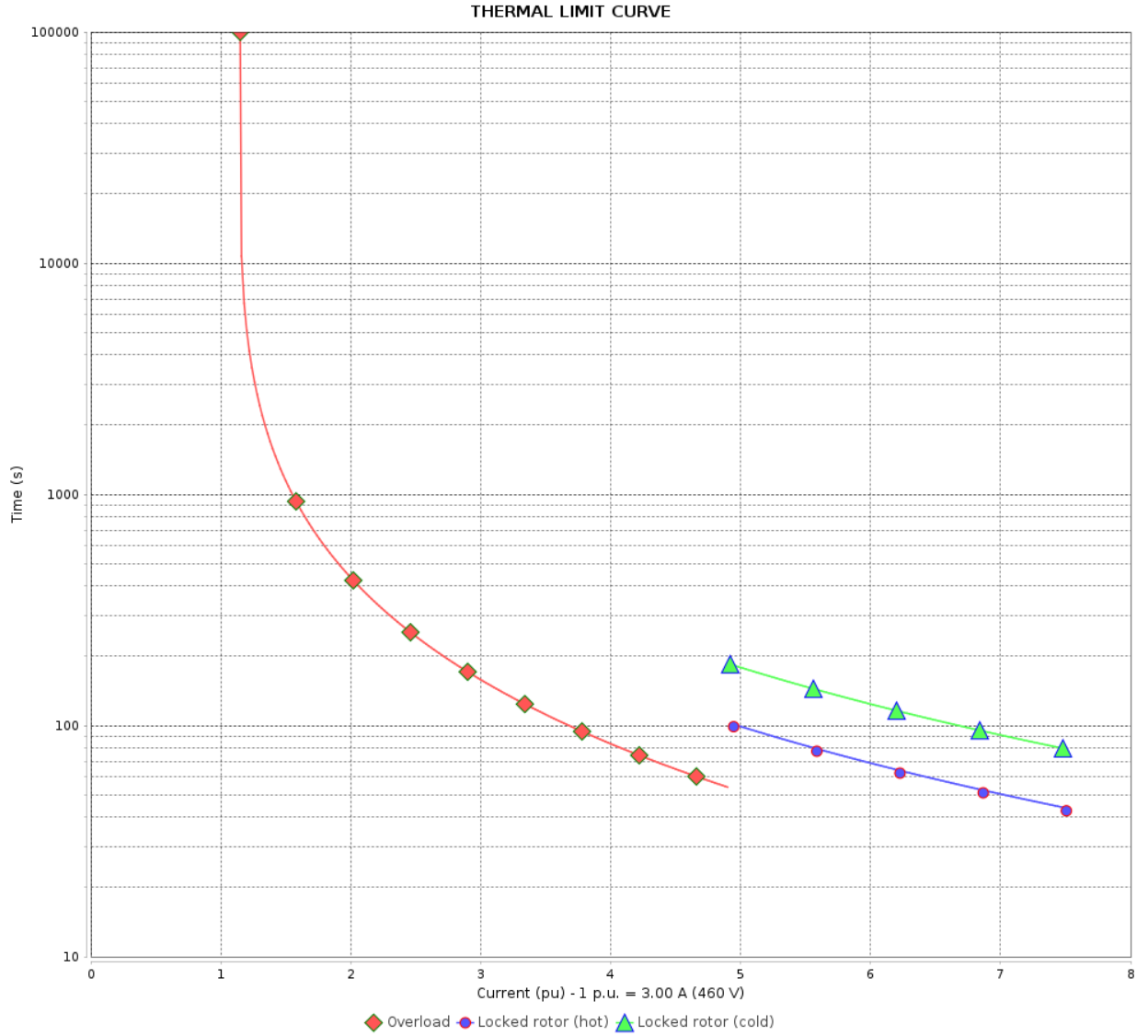


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Three Phase Induction Motor - Squirrel Cage



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Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

Heating constant

Cooling constant

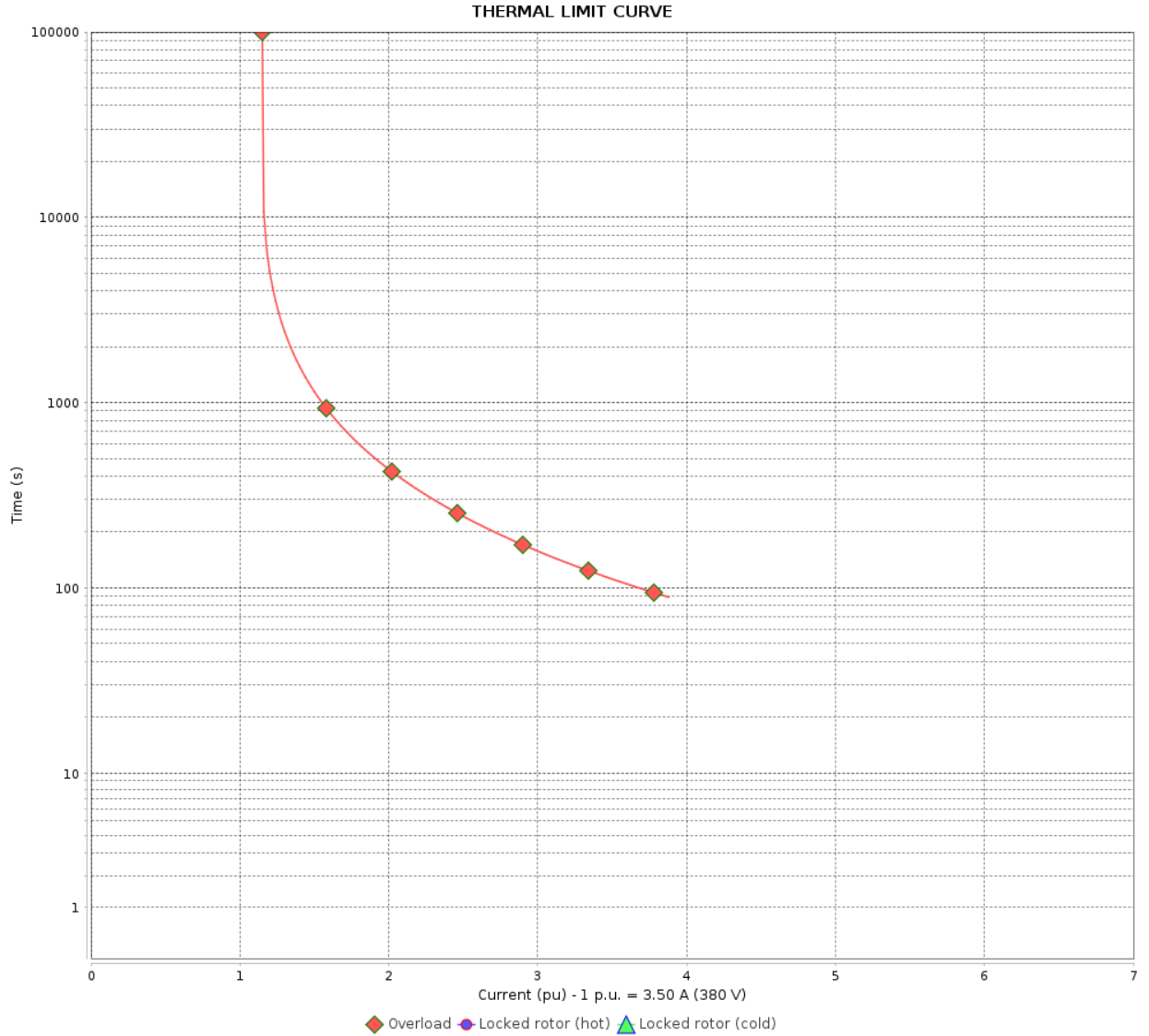
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Cooling constant

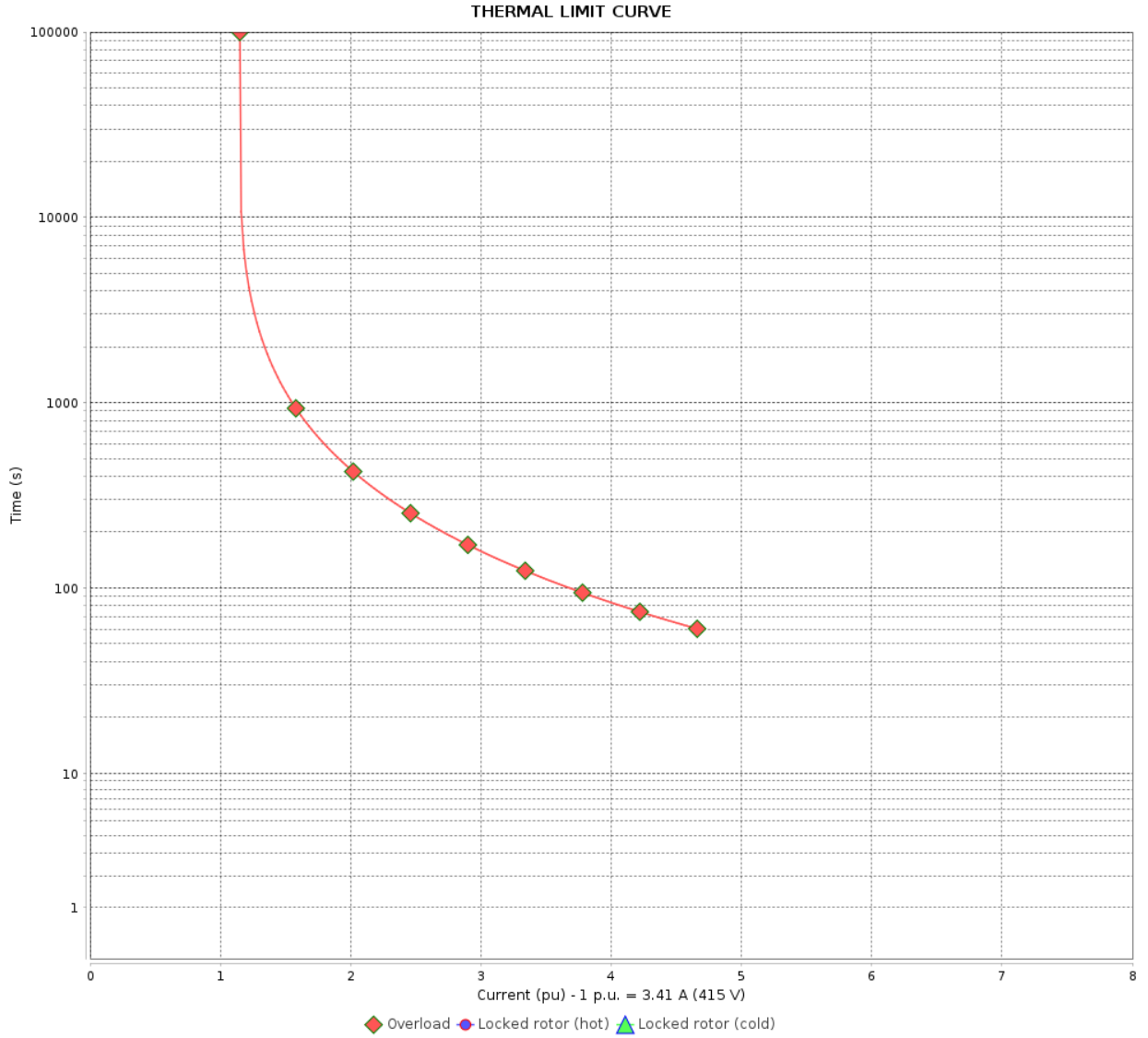
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# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



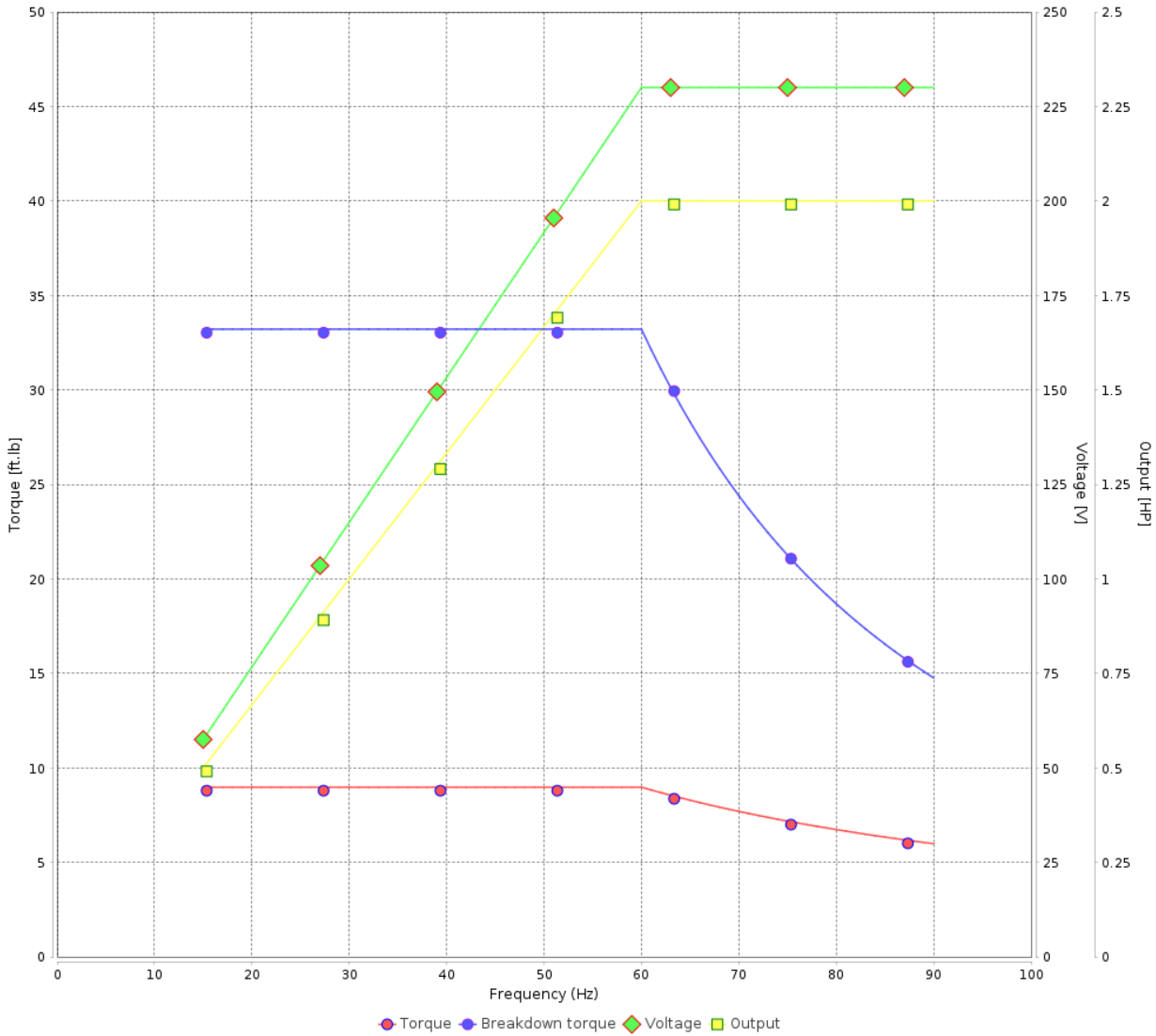
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Three-Phase

Product code : 12675385

Catalog # : 00212ET3E184TC-S

VFD OPERATION CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 6.00/3.00 A  
LRC : 7.5  
Rated torque : 8.98 ft.lb  
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Breakdown torque : 370 %  
Rated speed : 1170 rpm

Moment of inertia (J) : 0.3424 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K  
Design : B

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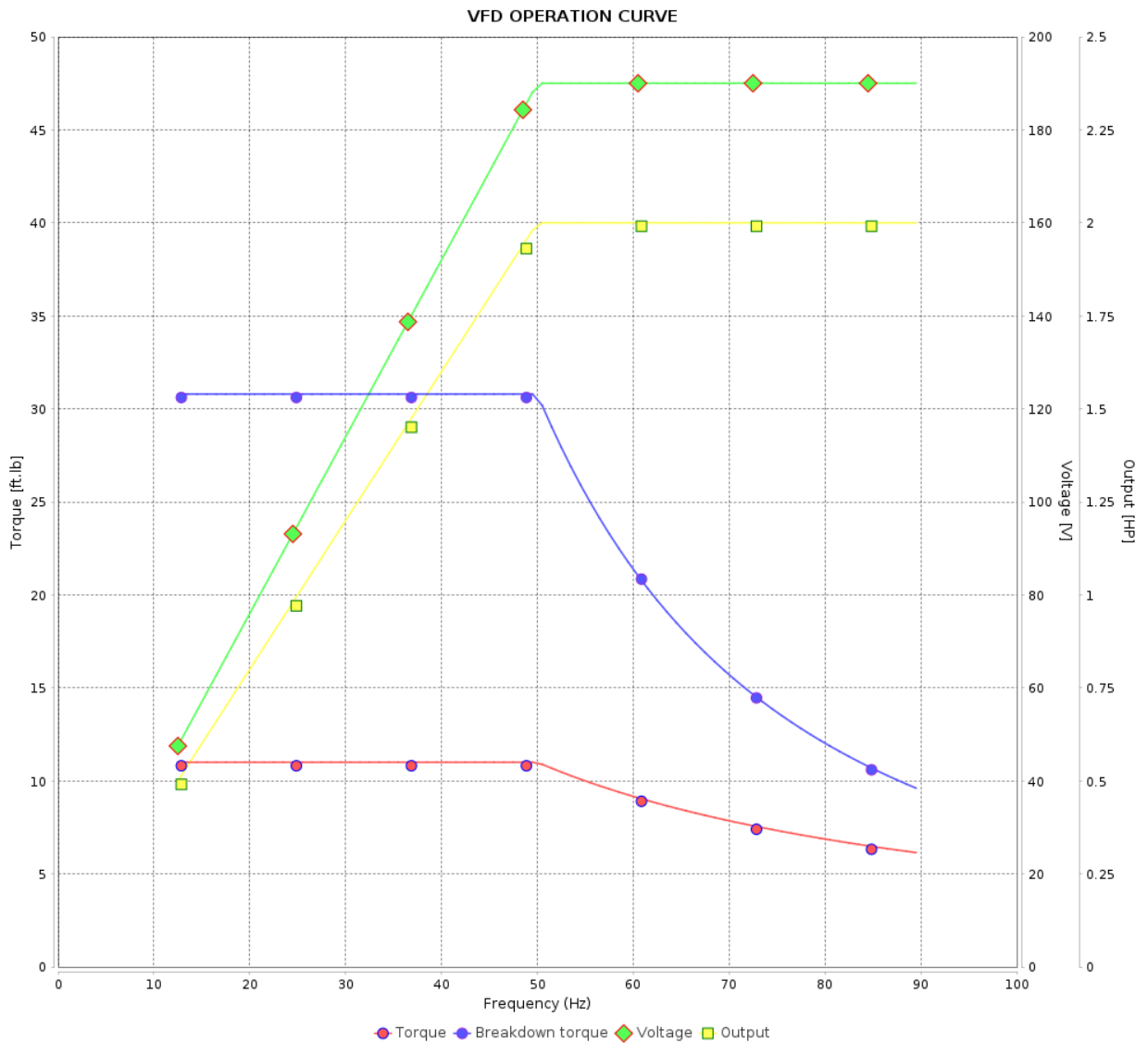


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 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
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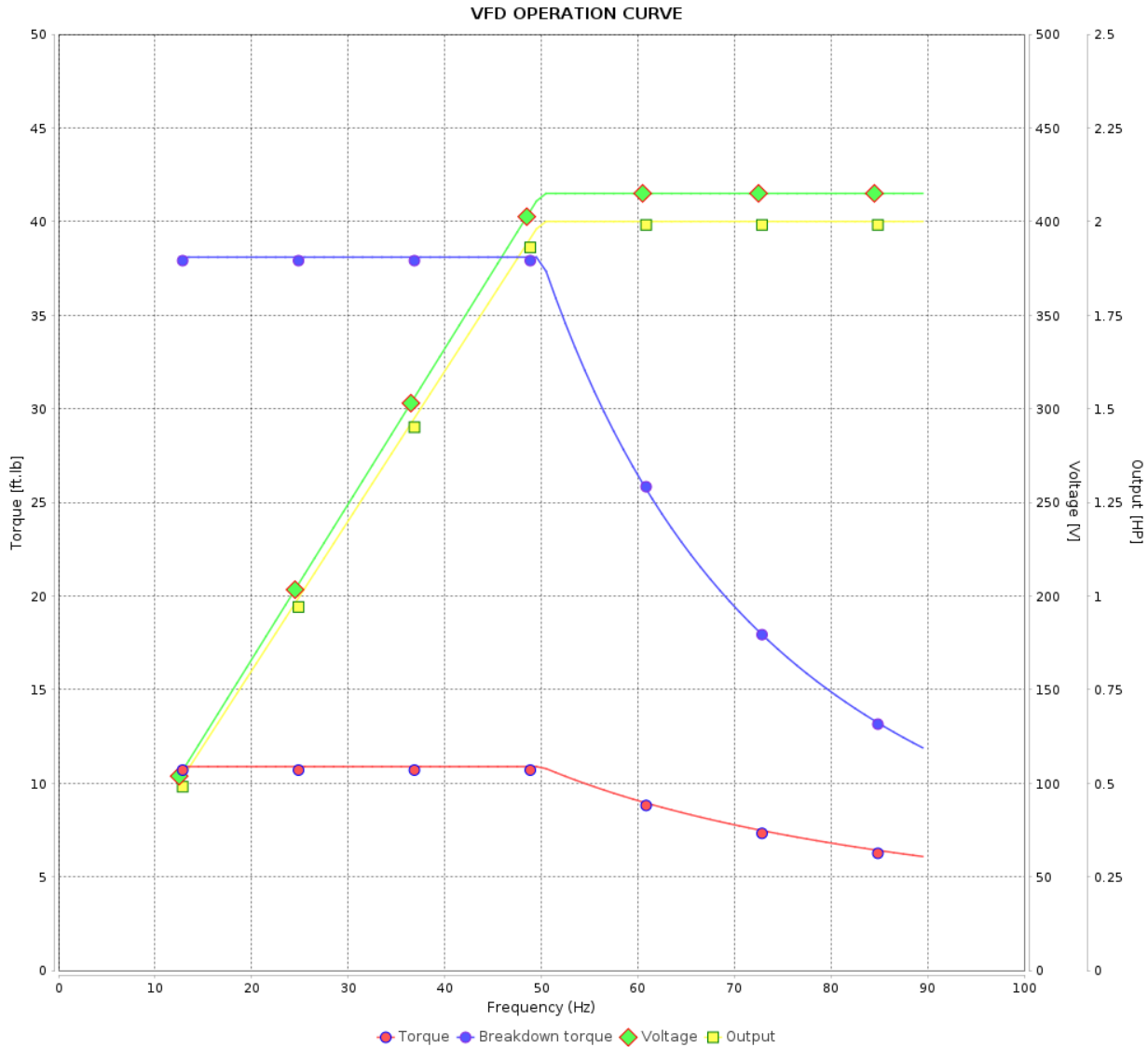


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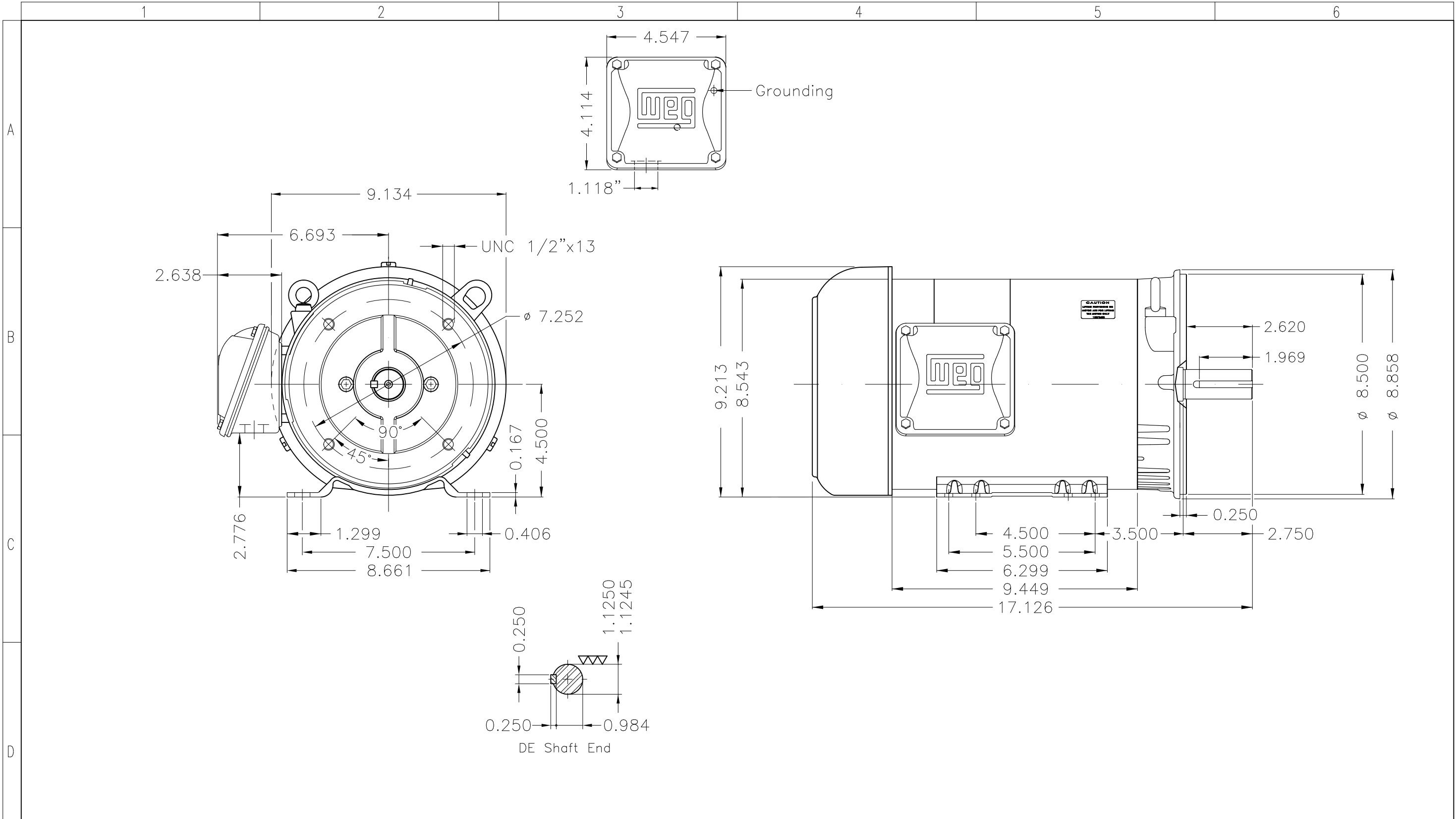


Performance : 415 V 50 Hz 6P

Rated current	: 3.41 A	Moment of inertia (J)	: 0.3424 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 10.9 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

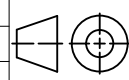

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A  
B  
C  
D  
E

Dimensions in inches XME A3

Color Munsell N 1 matte black									
Painting plan 207N									
Mounting F-1/B34R(D)									
					USERADMIN	00			
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF. FRAME 182/4TC IP55 TEFC			<b>PREVIEW</b> WDD   00				
CHECKED					SHEET				1 / 1
RELEASED									
REL. DATE		WMO	Jaragua do Sul	Product Engineering					

2 HP 06 Poles 60 Hz

A



**NEMA**  
**Premium**



3PT9

US LISTED



US

Energy Verified

MADE IN MEXICO

**MAT: 12675385 CC029A**

**W01.TE0IC0X0N**

**MODEL 00212ET3E184TC-S**

**21JUL2023 S/N:**

**For 60Hz: Class I, Zone 2, IIC  
Class I, Div.2, Gr. A,B,C,D - T3  
Div 2 Inverter Duty (SF1.00)**

**CT 2:1/VT 1000:1**

PH 3	Hz 60	HP 2.0
FR 182/4TC		KW 1.5
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l.		A 6.00/3.00
INS CL F AT 80K	IP55	SFA 6.90/3.45
AMB 40°C	DES B	SF 1.15
ENCL TEFC	CODE K	PF 0.71
		RPM 1170
		NEMA NOM. EFF 88.5%

ALTERNATE RATING: 2.0HP	50Hz	190-220/380-415V	SF1.15
7.00-6.43/3.50-3.41A	955RPM	EFF 85.7%	(IE3) IEC 60034-1

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT

DE 6206-ZZ	ODE 6205-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-RED BRK

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.

