



# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



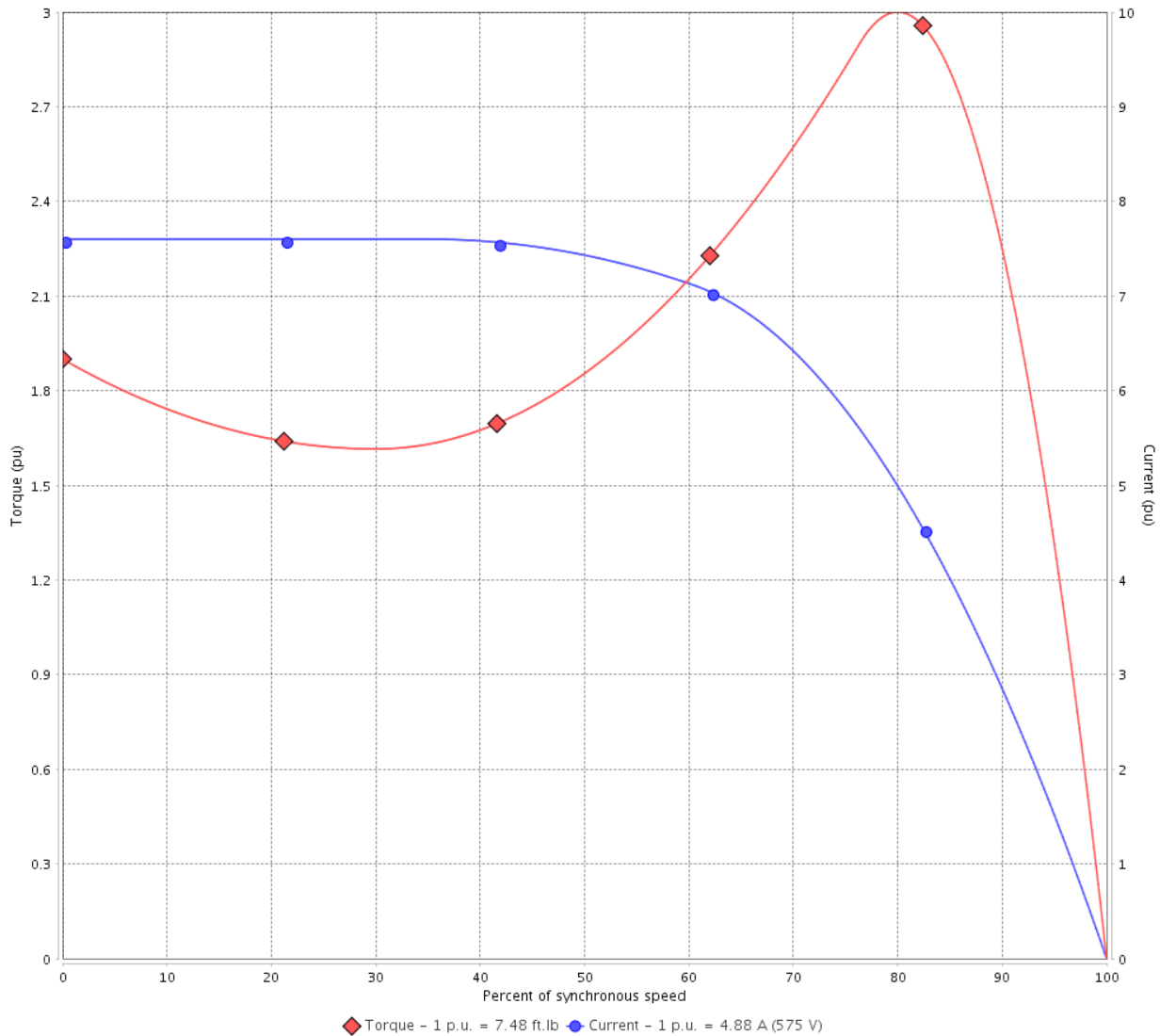
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751145

Catalog # : 005360T3H182TC-S

TORQUE AND CURRENT VS SPEED CURVE



Performance : 575 V 60 Hz 2P

Rated current	: 4.88 A	Moment of inertia (J)	: 0.1386 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.48 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

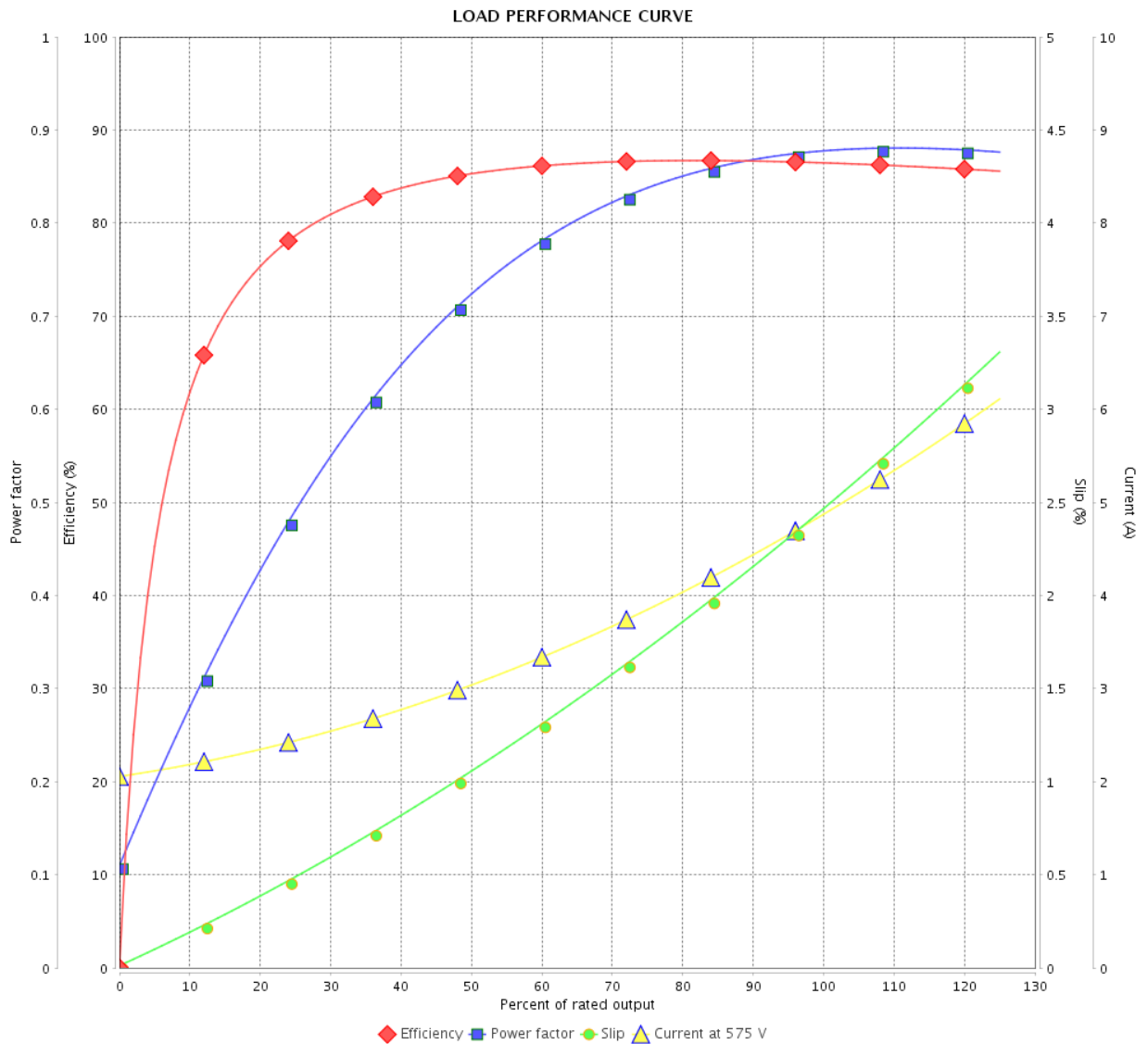


Customer : \_\_\_\_\_

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751145

Catalog # : 00536OT3H182TC-S



Performance : 575 V 60 Hz 2P

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 LRC : 7.6  
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 Breakdown torque : 300 %  
 Rated speed : 3510 rpm

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 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

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Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

Heating constant

Cooling constant

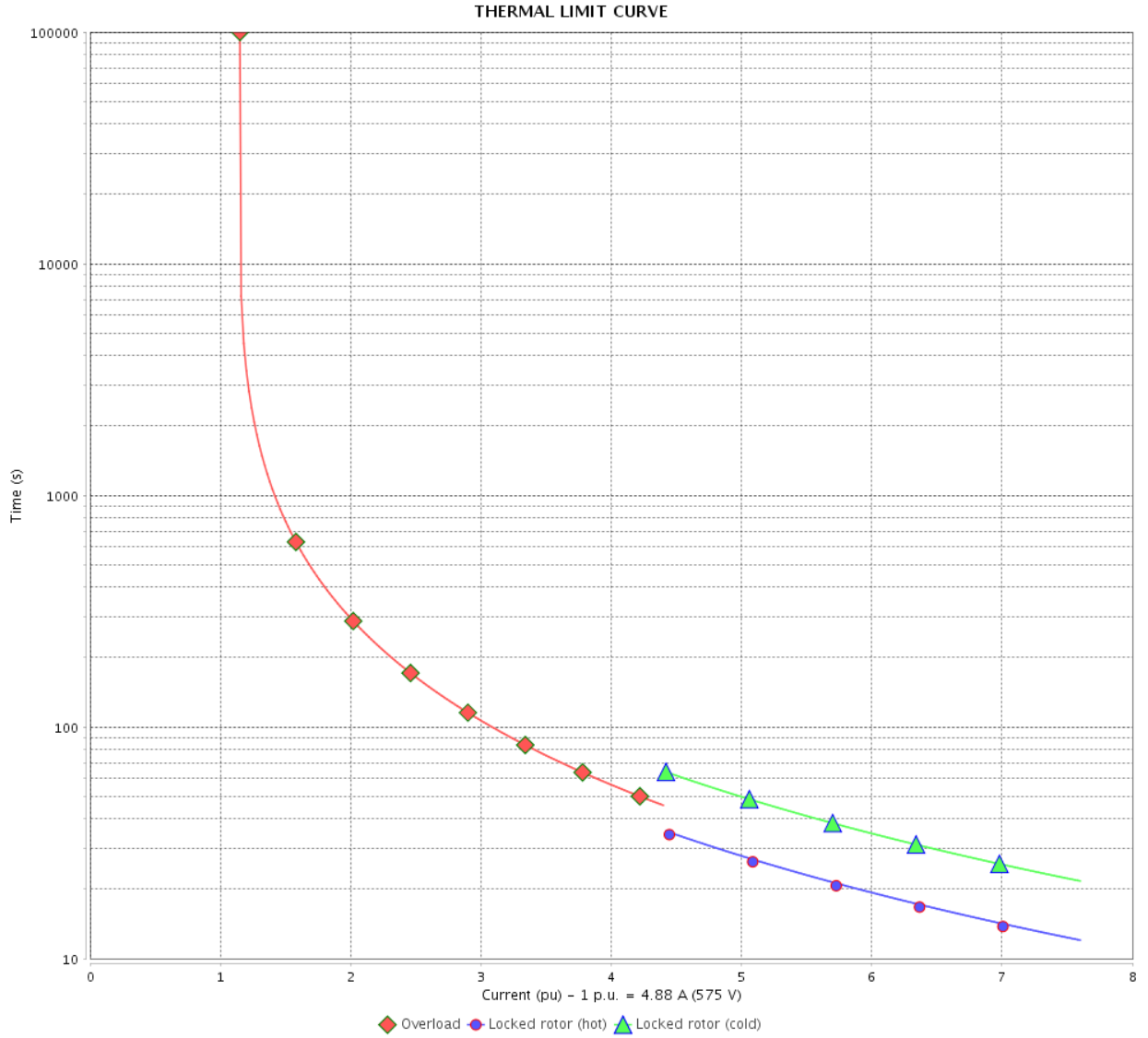
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# THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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



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Date				

# VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

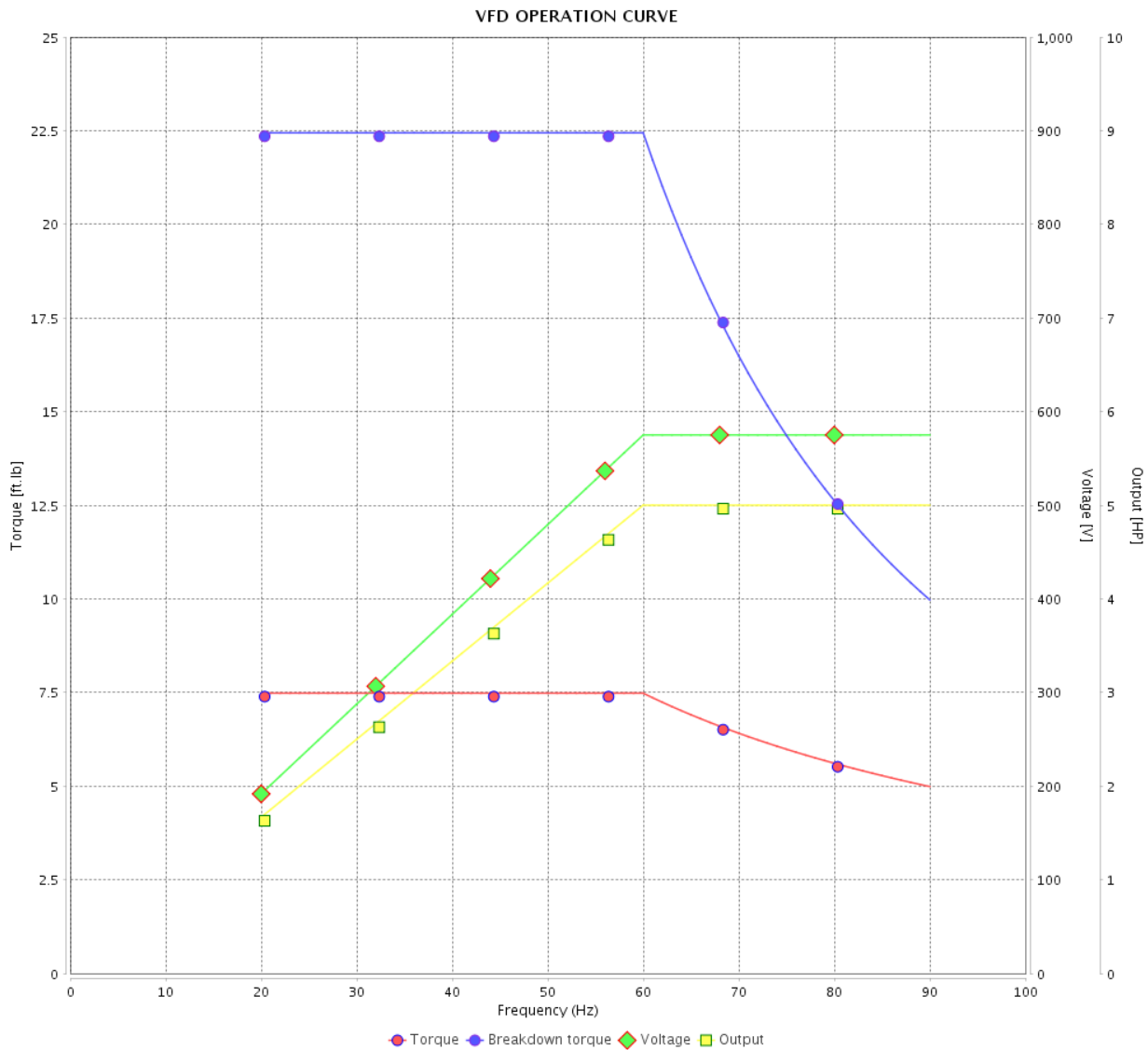


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12751145

Catalog # : 00536OT3H182TC-S



Performance : 575 V 60 Hz 2P

Rated current : 4.88 A  
 LRC : 7.6  
 Rated torque : 7.48 ft.lb  
 Locked rotor torque : 190 %  
 Breakdown torque : 300 %  
 Rated speed : 3510 rpm

Moment of inertia (J) : 0.1386 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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**NEMA**  
**Premium**

MADE IN MEXICO

MAT: 12751145 CC029A

W01.T00IC0X0N

CP005502NPW01

11APR2022 S/N:

PH 3	Hz 60	HP 5.0
FR 182/4TC		KW 3.7
DUTY CONT.		V 575
ALT 1000 m.a.s.l		A 4.88
INS CL F AT 80K		SFA 5.61
AMB 40°C	DES B	SF 1.15
ENCL ODP	CODE J	PF 0.88
		RPM 3510
		NEMA NOM. EFF 86.5%

Inverter duty motor For use on VPWM 1000:1 VT, 3:1 CT

DE 6206-ZZ ODE 6205-ZZ MOBIL POLYREX EM

T1-BLU  
T2-WHT  
T3-ORG  
T4-YEL  
T5-BLK  
T6-GRY

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.

