



# TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

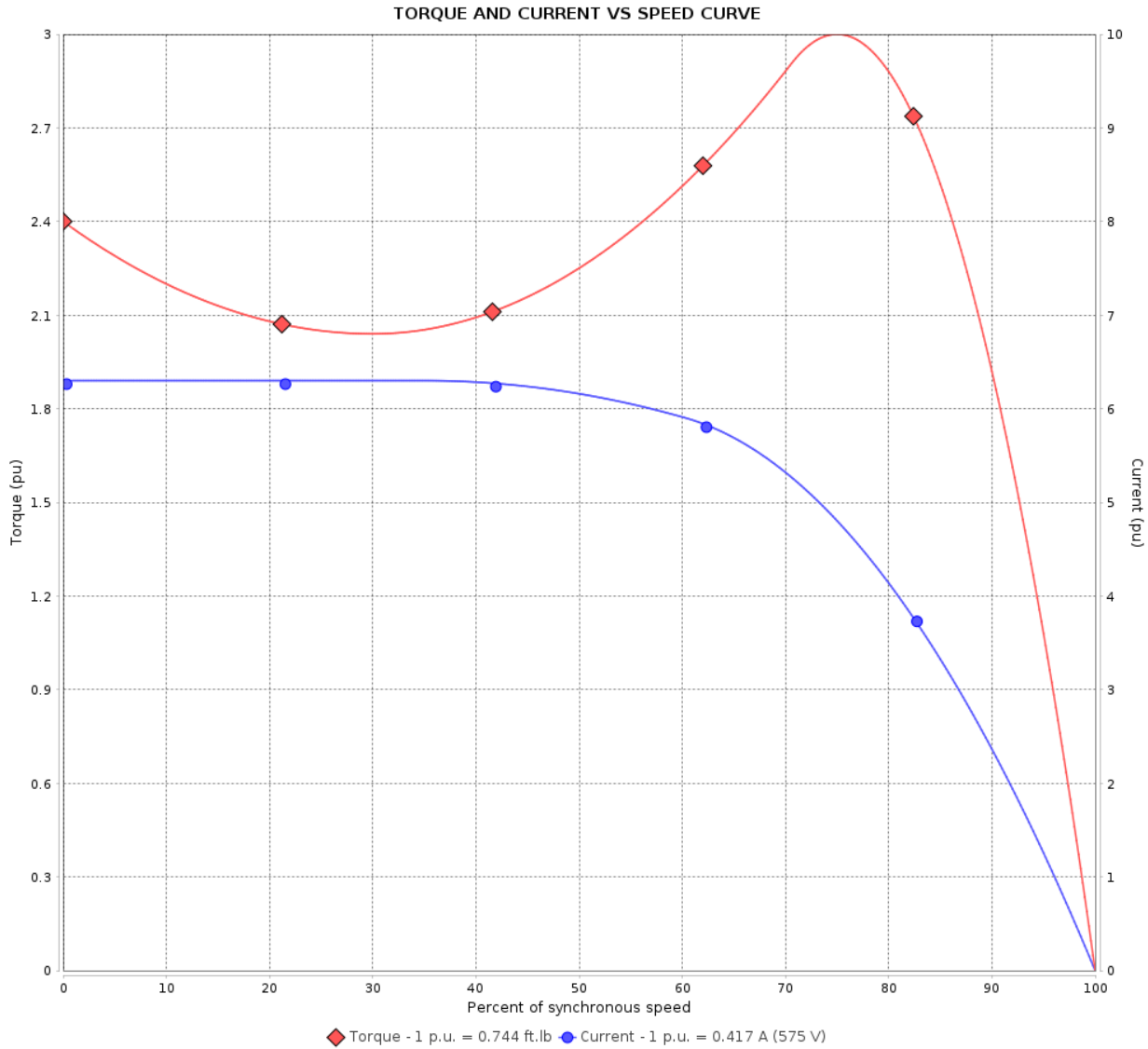
Product line : Standard Efficiency Three-Phase

Product code :

14796866

Catalog # :

.2518ES3H56C-S



Performance : 575 V 60 Hz 4P

Rated current	: 0.417 A	Moment of inertia (J)	: 0.0453 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.744 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm		

Locked rotor time : 68s (cold) 38s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		2 / 5		
Date	30/11/2022			

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage



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

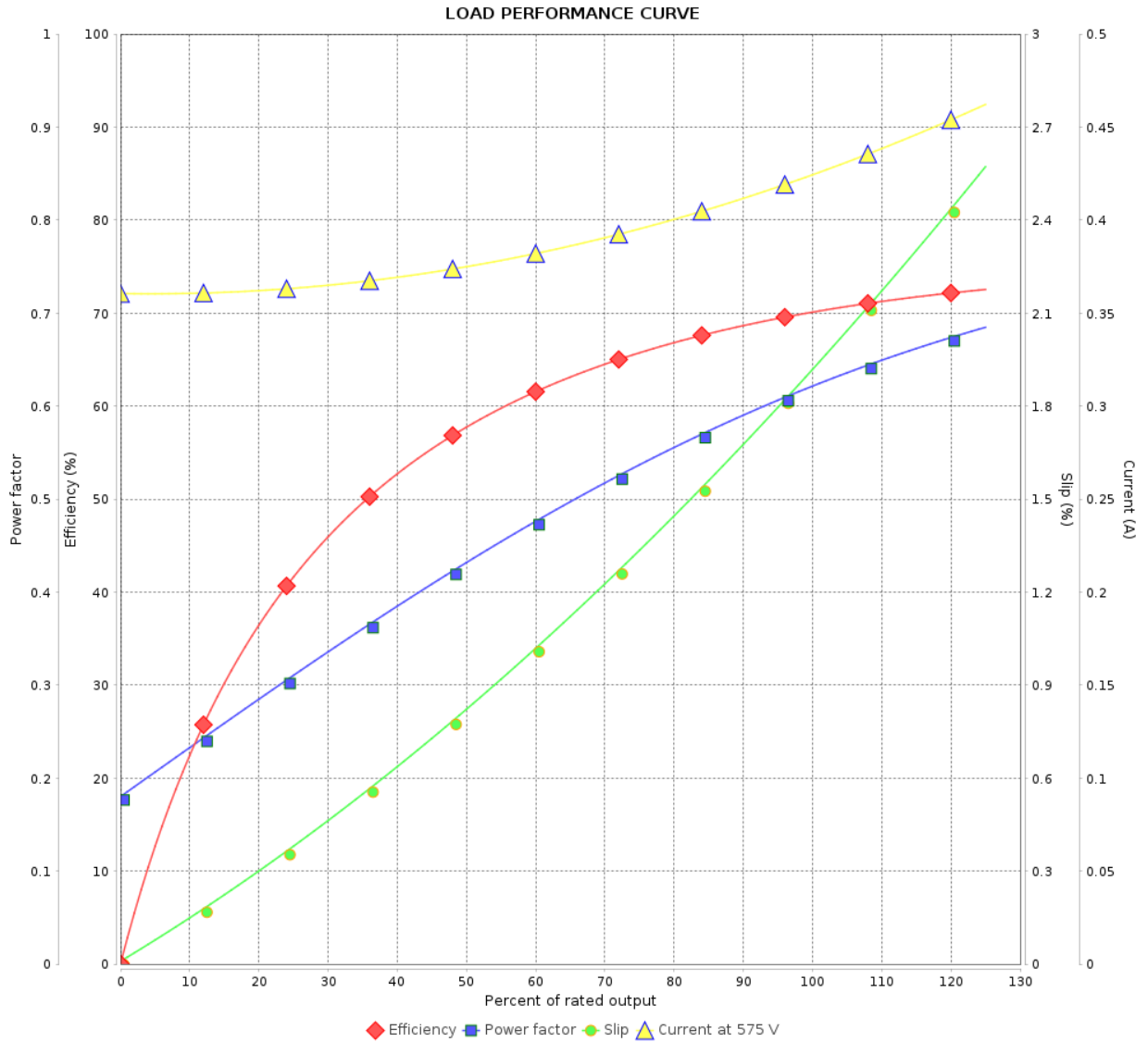
Product line : Standard Efficiency Three-Phase

Product code :

14796866

Catalog # :

.2518ES3H56C-S



Performance : 575 V 60 Hz 4P

Rated current : 0.417 A  
 LRC : 6.3  
 Rated torque : 0.744 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0453 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 5	Revision
Checked by				
Date	30/11/2022			

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



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

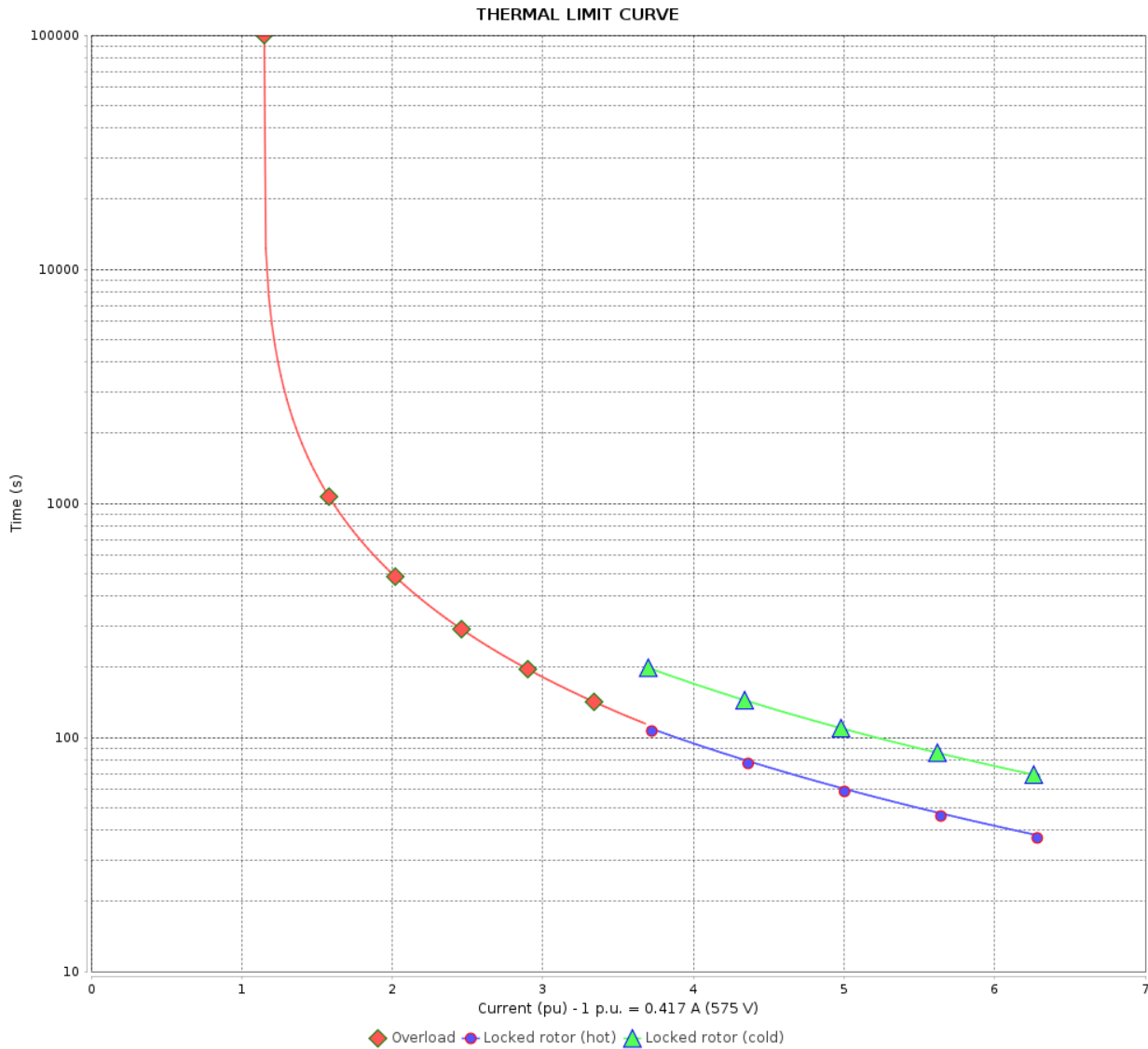
Product line : Standard Efficiency Three-Phase

Product code :

14796866

Catalog # :

.2518ES3H56C-S



Performance : 575 V 60 Hz 4P

Rated current : 0.417 A  
 LRC : 6.3  
 Rated torque : 0.744 ft.lb  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0453 sq.ft.lb  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

Heating constant

Cooling constant

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by				
Date				

# VFD OPERATION CURVE

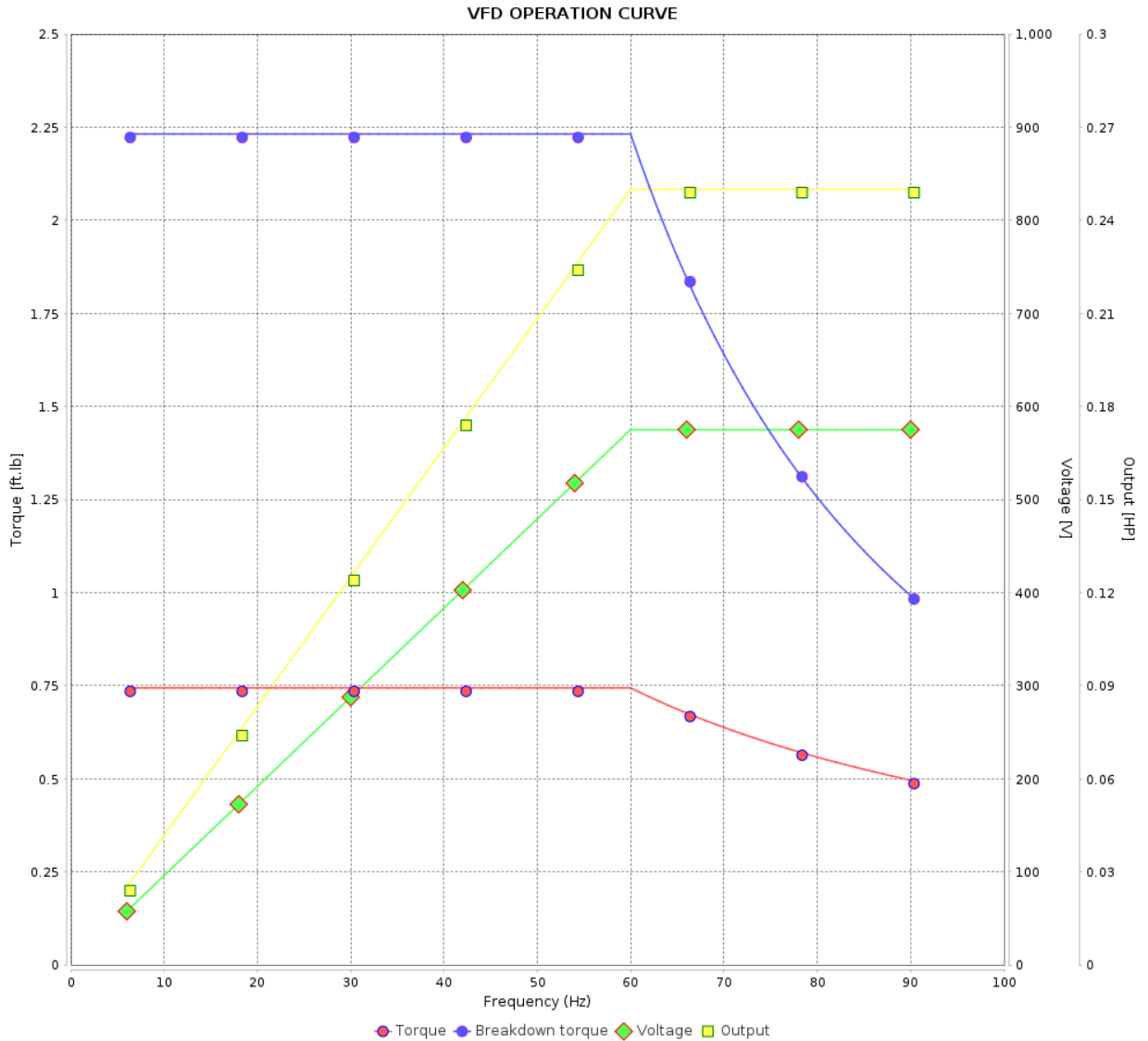
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase

Product code : 14796866  
Catalog # : .2518ES3H56C-S



Performance : 575 V 60 Hz 4P

Rated current : 0.417 A  
LRC : 6.3  
Rated torque : 0.744 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 300 %  
Rated speed : 1765 rpm

Moment of inertia (J) : 0.0453 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.15  
Temperature rise : 80 K

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 5	Revision
Checked by				
Date	30/11/2022			





MADE IN MEXICO

**MAT: 14796866**

**W01.TE0IC0X0X**

**MODEL 2518ES3H56C-S**

**29MAR2022 B/N:**

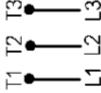


**For 60Hz: Class I, Zone 2, IIC  
Class I, Div.2, Gr. A,B,C,D - T3  
Div 2 Inverter Duty (SF1.00)  
CT 2:1/VT 1000:1**

PH 3	Hz 60	HP 0.25
FR 56C		KW 0.18
DUTY CONT.		V 575
ALT 1000 m.a.s.l.		A 0.417
INS CL F AT 80K	IP55	SFA 0.480
AMB 40°C	DES -	SF 1.15
ENCL TEFC	CODE M	PF 0.62
		RPM 1765
		NEMA NOM. EFF 70.0%

**For safe area-inverter duty motor For use on VPWM 1000:1 VT, 10:1 CT**

**DE 6203-ZZ ODE 6202-ZZ MOBIL POLYREX EM**



T1-BLU

T2-WHT

T3-ORG



**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.

