

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: NEMA Premium Efficiency Three-Phase	Product code :	12075527		
		Catalog # :	30018ET3G449TS-W22		
Frame	: 447/9TS	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	: 2767 lb		
Protection degree	: IP55	Moment of inertia (J)	: 89.6 sq.ft.lb		
Design	: B				
Output [HP]	300	250	250	250	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	460	380	400	415	
Rated current [A]	330	337	320	311	
L. R. Amperes [A]	2145	2056	2144	2239	
LRC [A]	6.5x(Code G)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)	
No load current [A]	105	104	111	116	
Rated speed [RPM]	1780	1480	1480	1485	
Slip [%]	1.11	1.33	1.33	1.00	
Rated torque [ft.lb]	885	887	887	884	
Locked rotor torque [%]	250	210	240	260	
Breakdown torque [%]	250	220	250	270	
Service factor	1.15	1.00	1.00	1.00	
Temperature rise	80 K	105 K	105 K	105 K	
Locked rotor time	28s (cold) 16s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	
Noise level ²	75.0 dB(A)	71.0 dB(A)	71.0 dB(A)	71.0 dB(A)	
Efficiency (%)	25%	95.7	95.5	95.8	94.9
	50%	95.8	95.8	95.8	95.4
	75%	96.2	95.8	96.2	95.8
	100%	96.2	96.0	96.0	96.2
Power Factor	25%	0.52	0.53	0.49	0.47
	50%	0.77	0.78	0.75	0.73
	75%	0.84	0.84	0.83	0.82
	100%	0.87	0.87	0.87	0.86
Bearing type	: <u>Drive end</u> 6314 C3 <u>Non drive end</u> 6314 C3	Foundation loads			
Sealing	: WSeal WSeal	Max. traction	: 4980 lb		
Lubrication interval	: 12000 h 12000 h	Max. compression	: 7747 lb		
Lubricant amount	: 27 g 27 g				
Lubricant type	: Mobil Polyrex EM				
Notes					
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



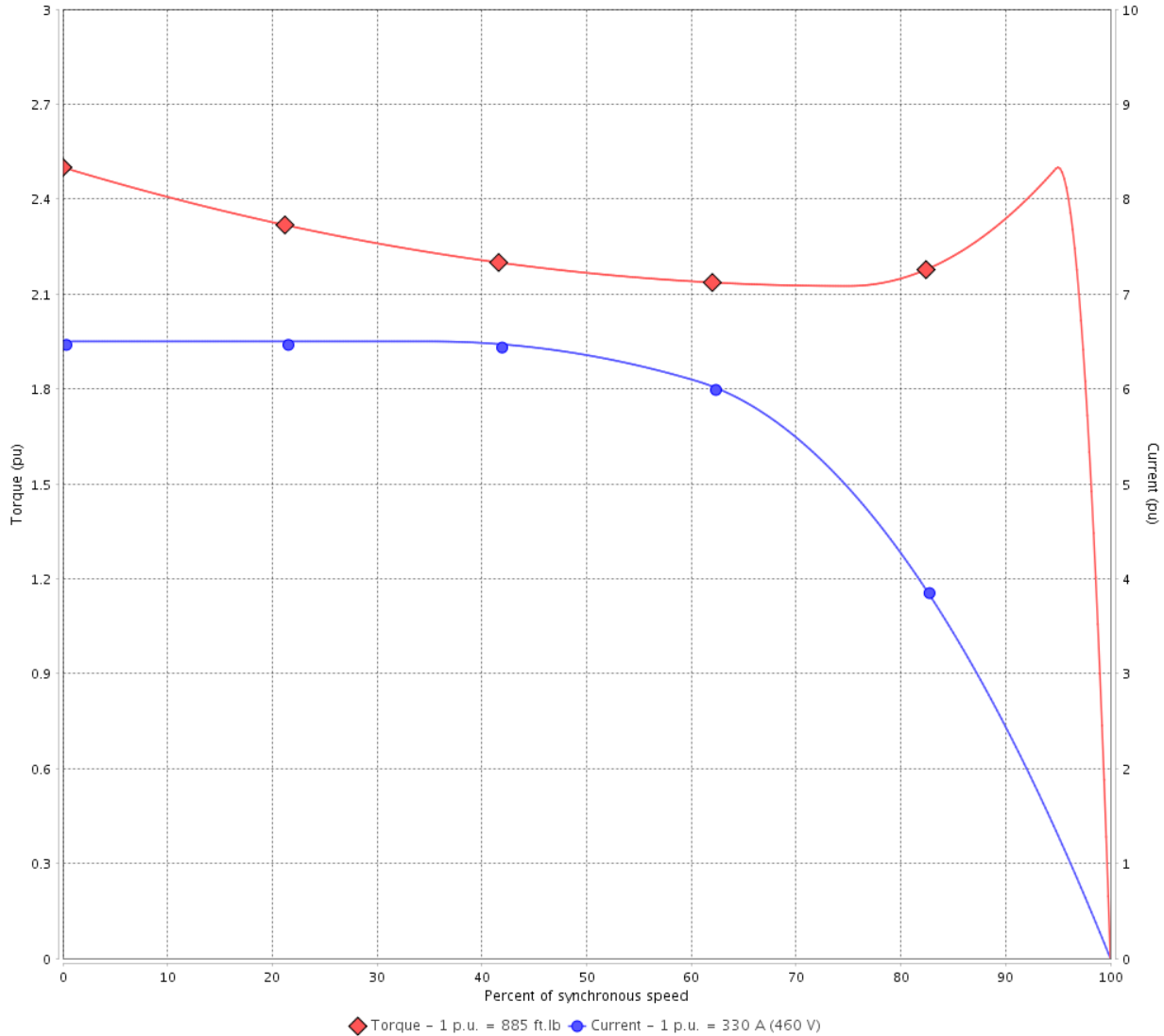
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12075527

Catalog # : 30018ET3G449TS-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 4P

Rated current	: 330 A	Moment of inertia (J)	: 89.6 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 885 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



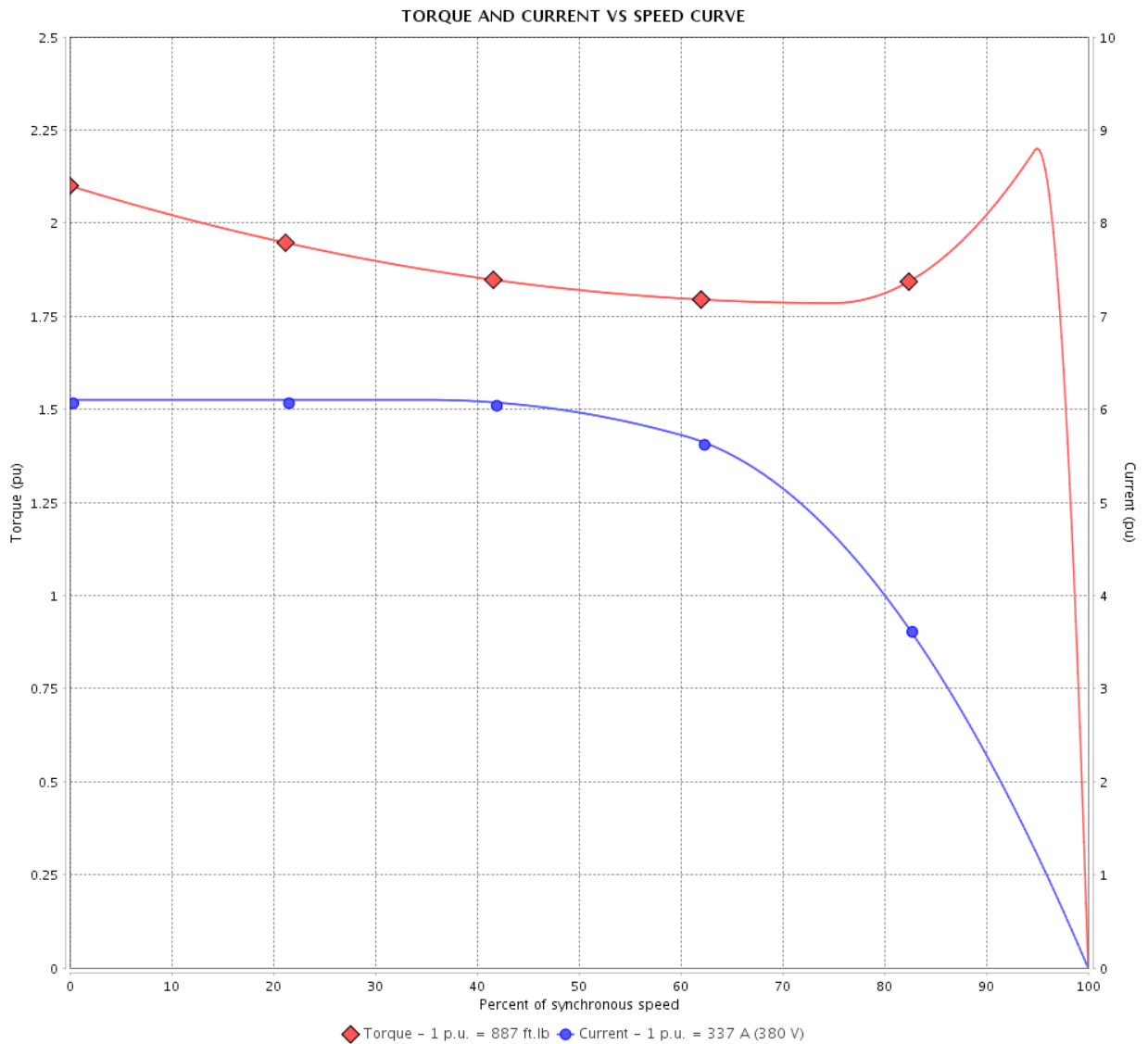
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12075527

Catalog # : 30018ET3G449TS-W22



Performance : 380 V 50 Hz 4P IE3

Rated current	: 337 A	Moment of inertia (J)	: 89.6 sq.ft.lb
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



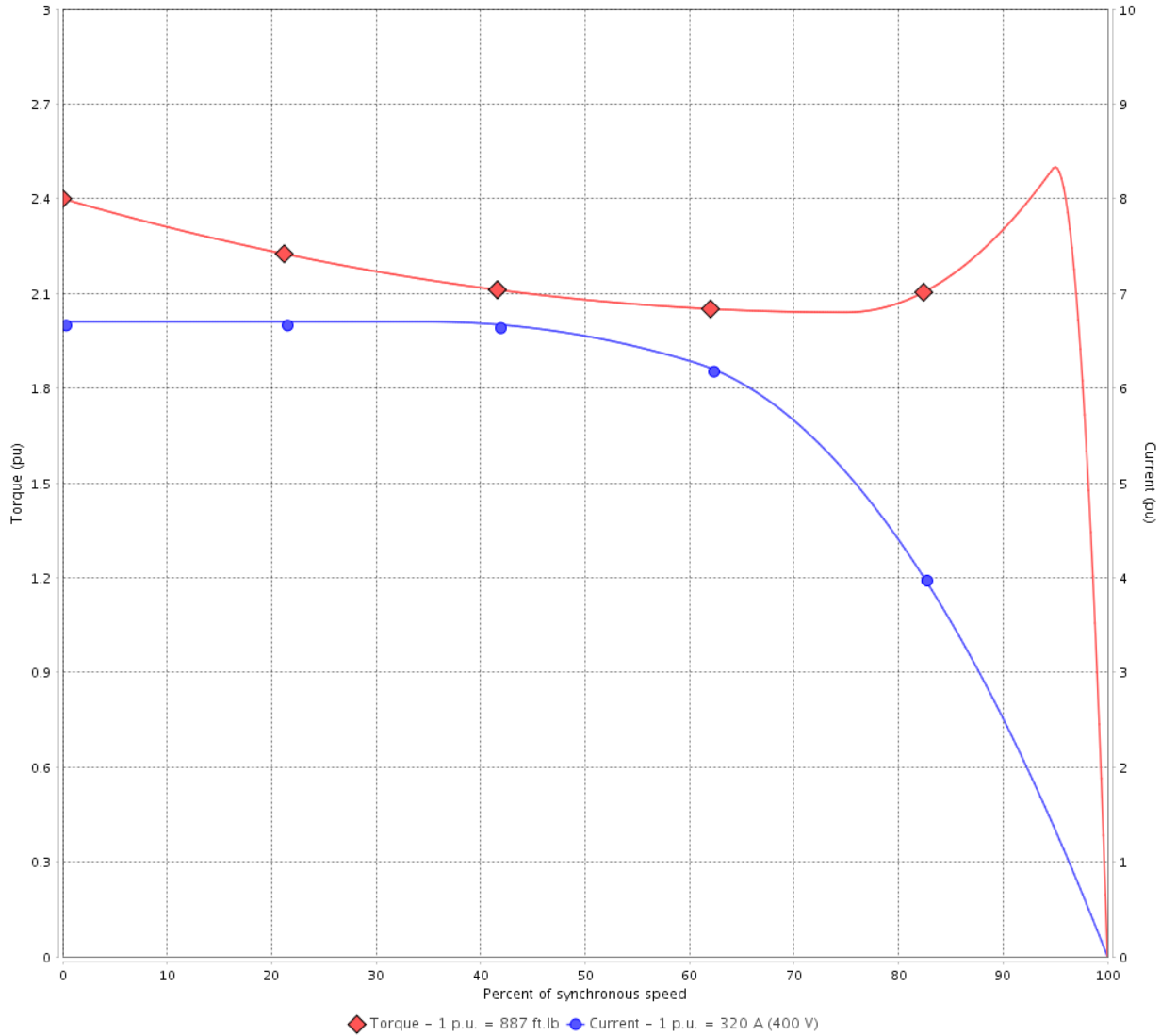
Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12075527

Catalog # : 30018ET3G449TS-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current	: 320 A	Moment of inertia (J)	: 89.6 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 887 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



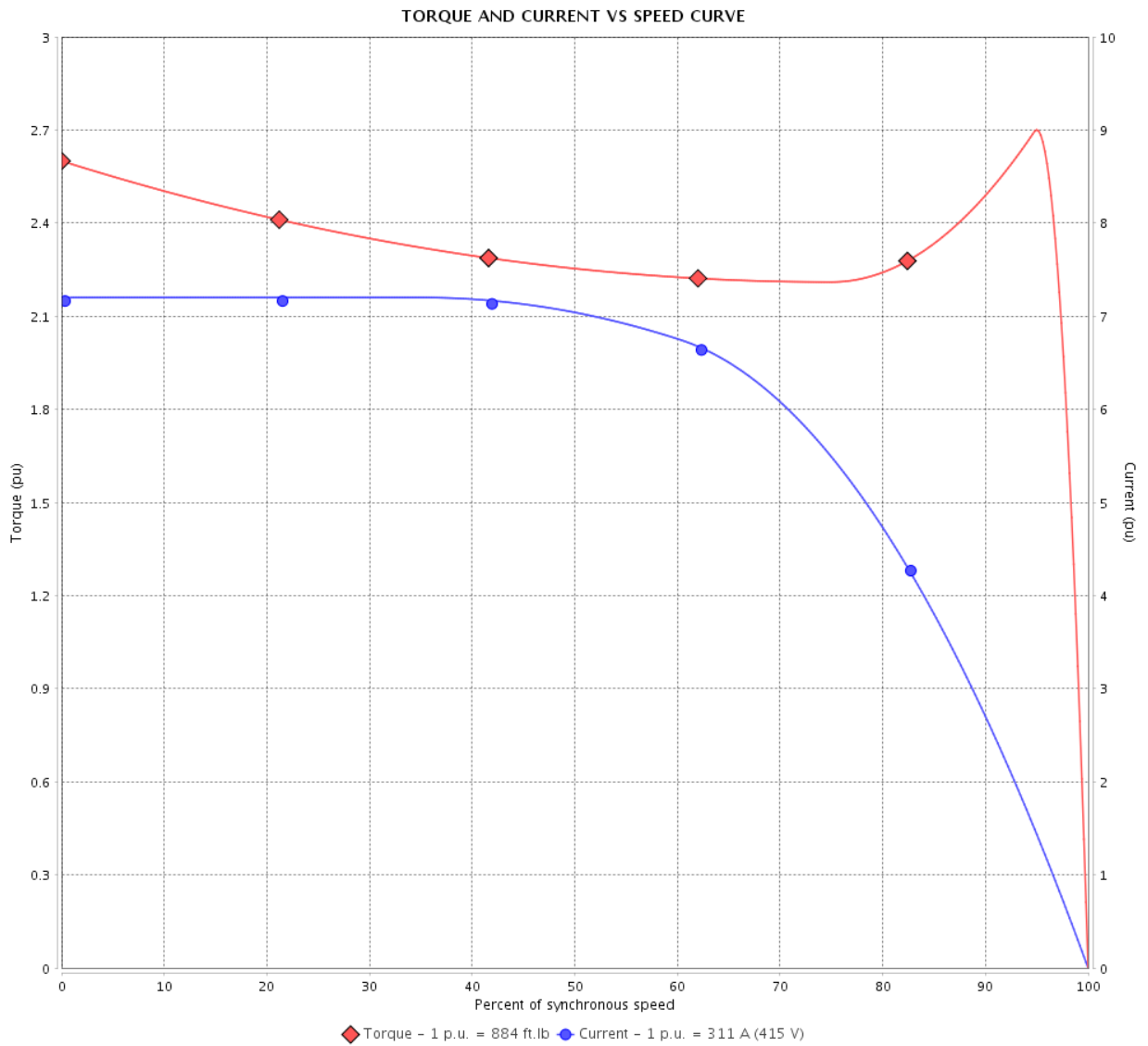
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12075527

Catalog # : 30018ET3G449TS-W22



Performance : 415 V 50 Hz 4P IE3

Rated current	: 311 A	Moment of inertia (J)	: 89.6 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 884 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 1485 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage



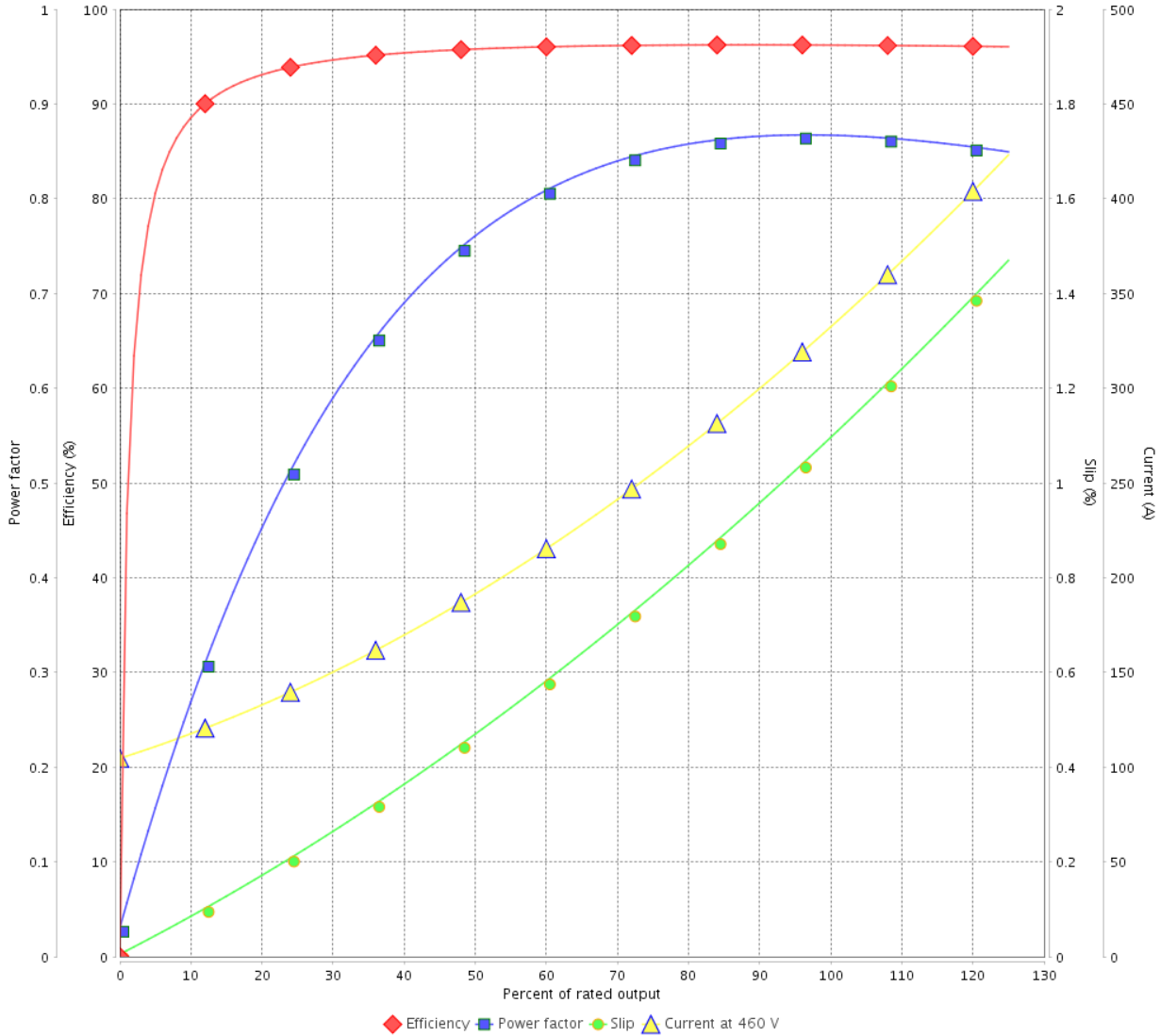
Customer :

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Product code : 12075527

Catalog # : 30018ET3G449TS-W22

LOAD PERFORMANCE CURVE



Performance : 460 V 60 Hz 4P

Rated current : 330 A
 LRC : 6.5
 Rated torque : 885 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 250 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 89.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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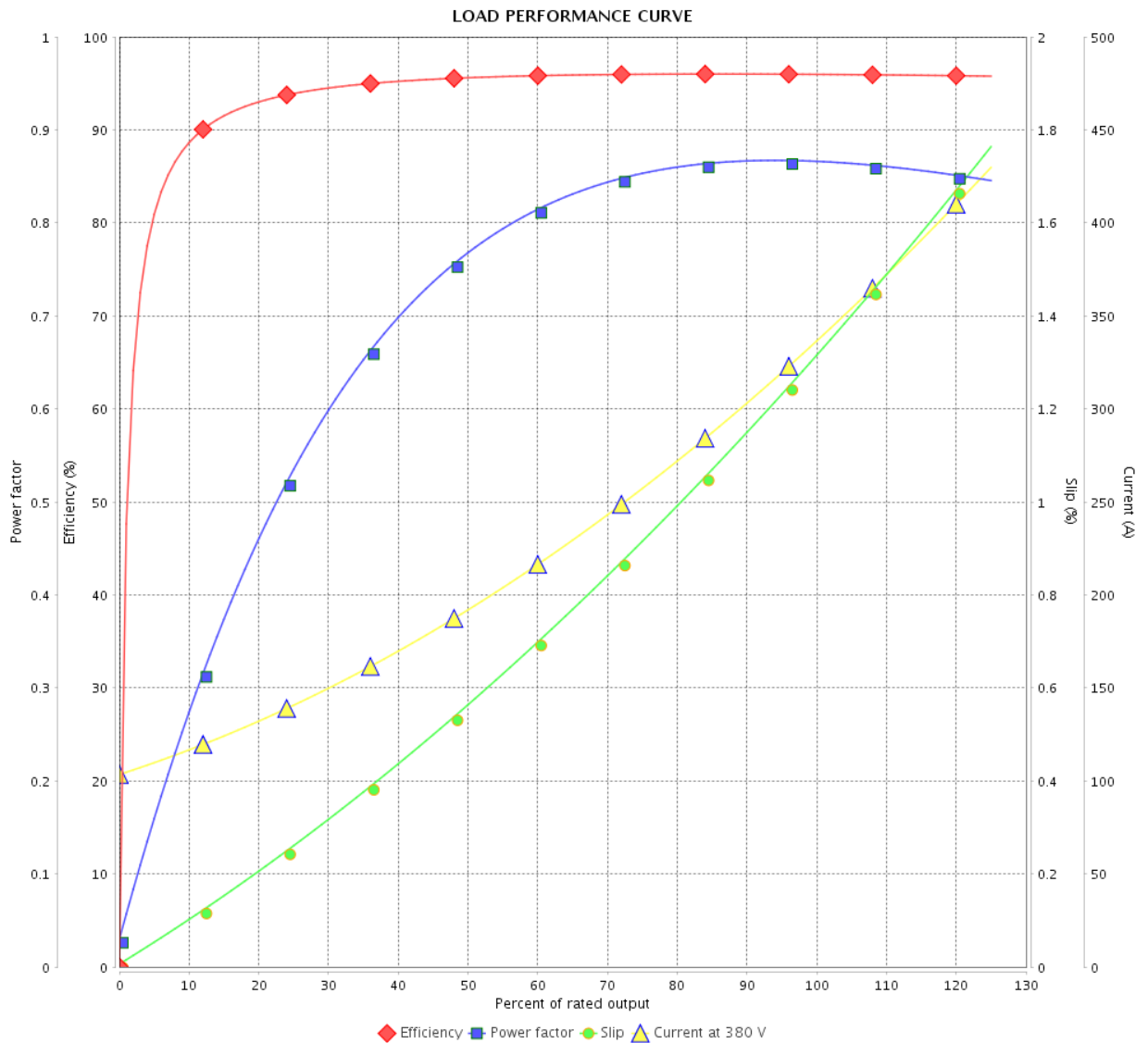


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Performance : 380 V 50 Hz 4P IE3

Rated current : 337 A
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Moment of inertia (J) : 89.6 sq.ft.lb
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 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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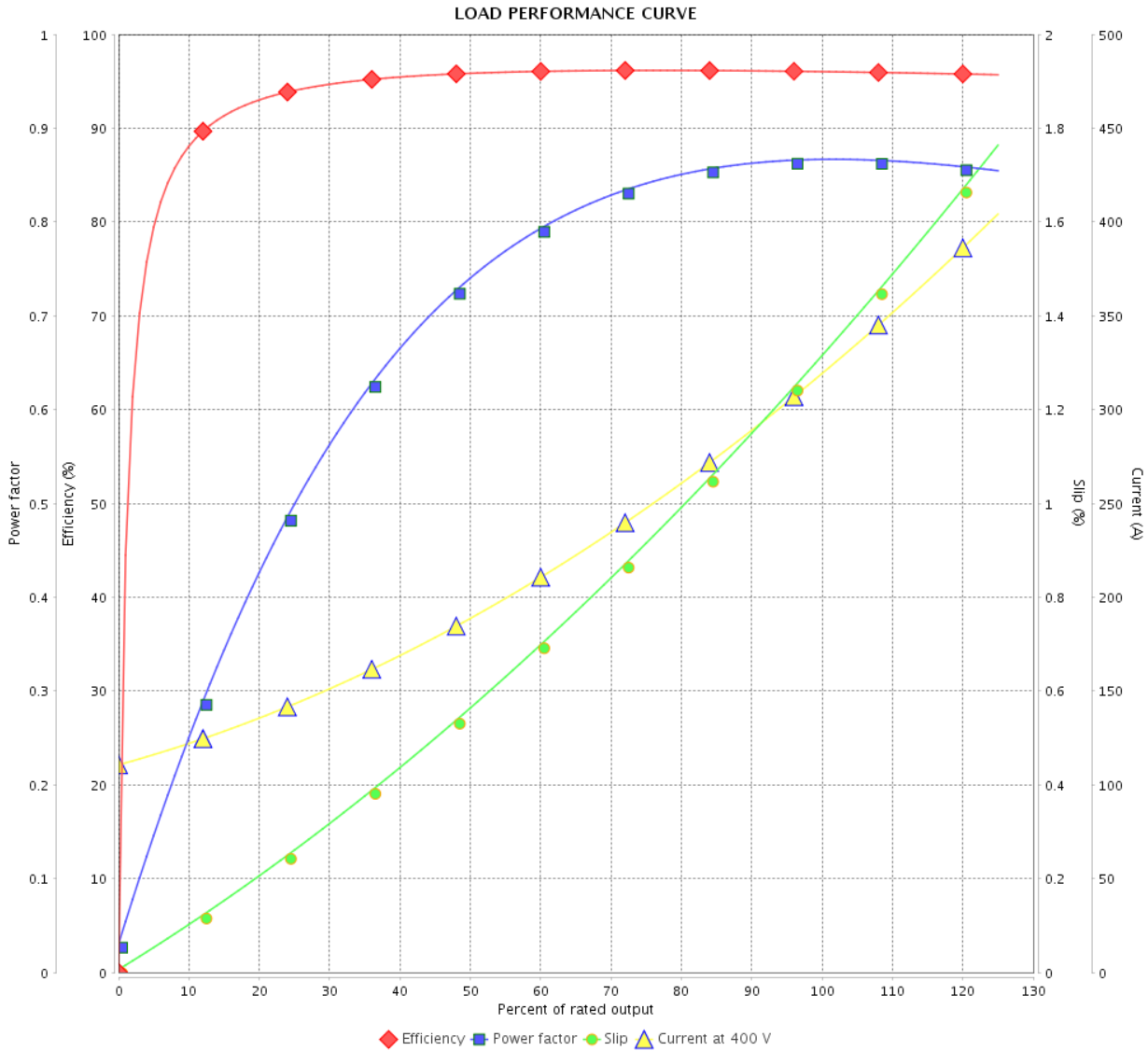


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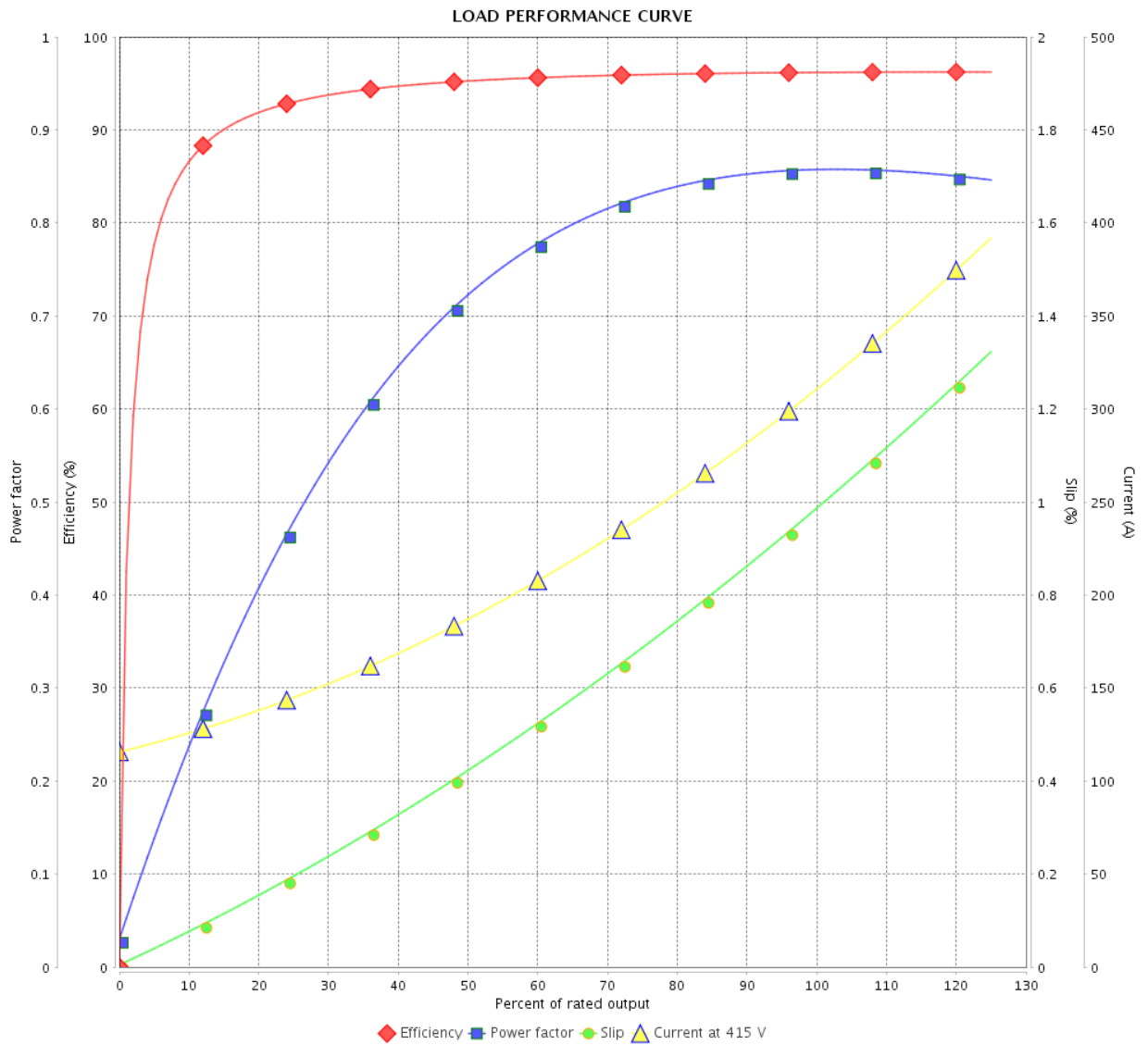


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 Insulation class : F
 Service factor : 1.00
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THERMAL LIMIT CURVE



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Heating constant

Cooling constant

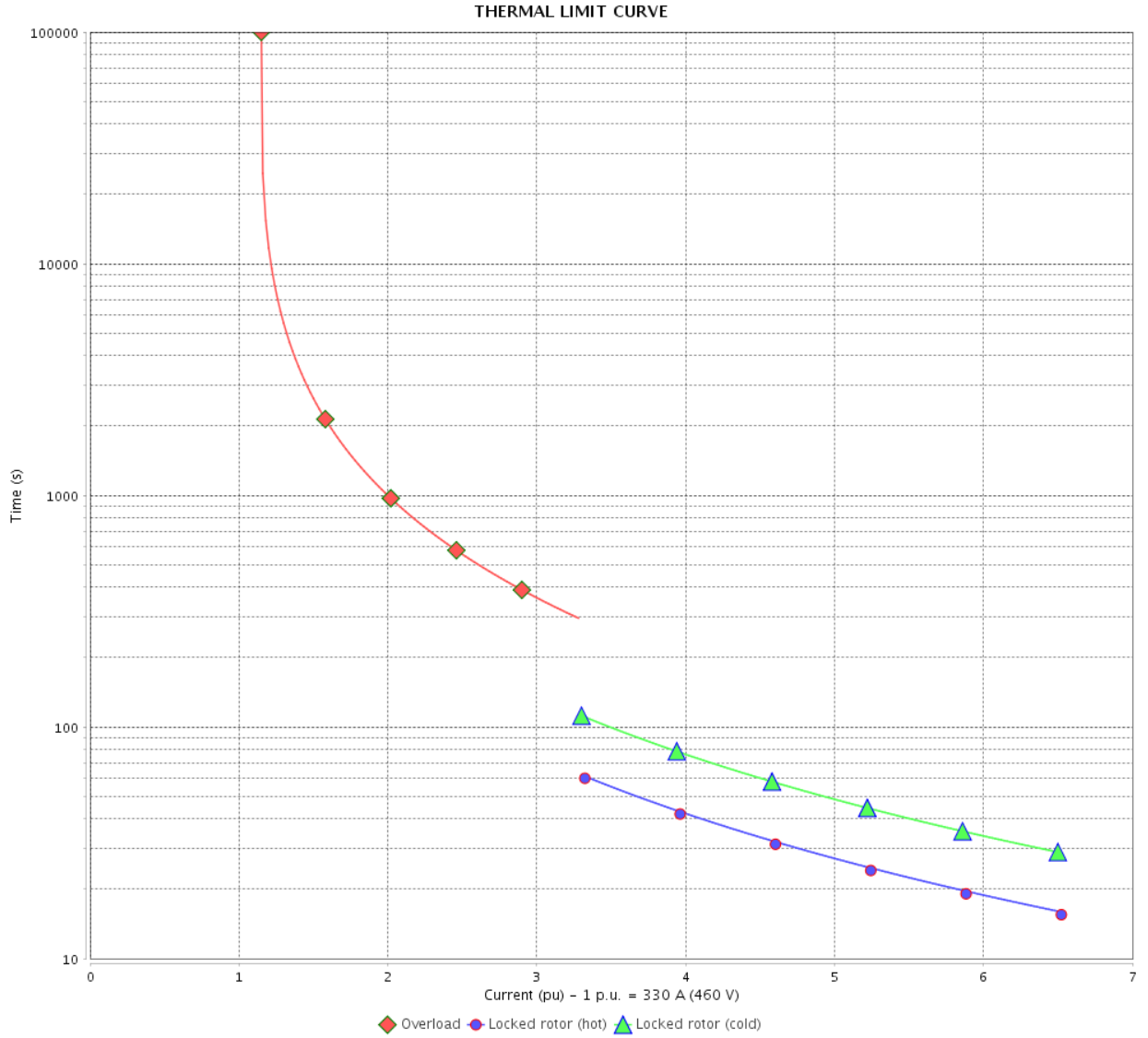
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THERMAL LIMIT CURVE

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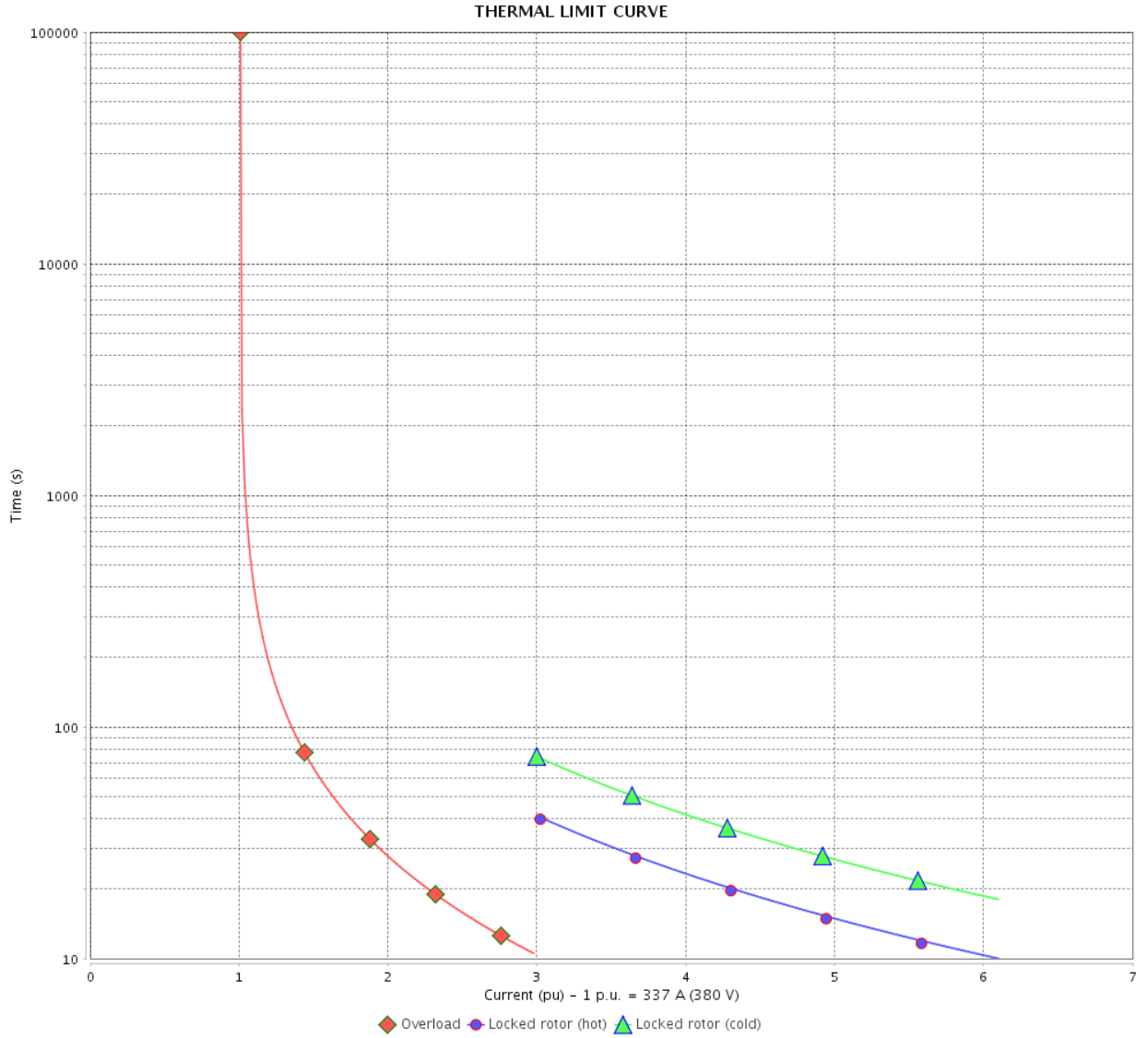
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Locked rotor torque : 240 %	Service factor : 1.00
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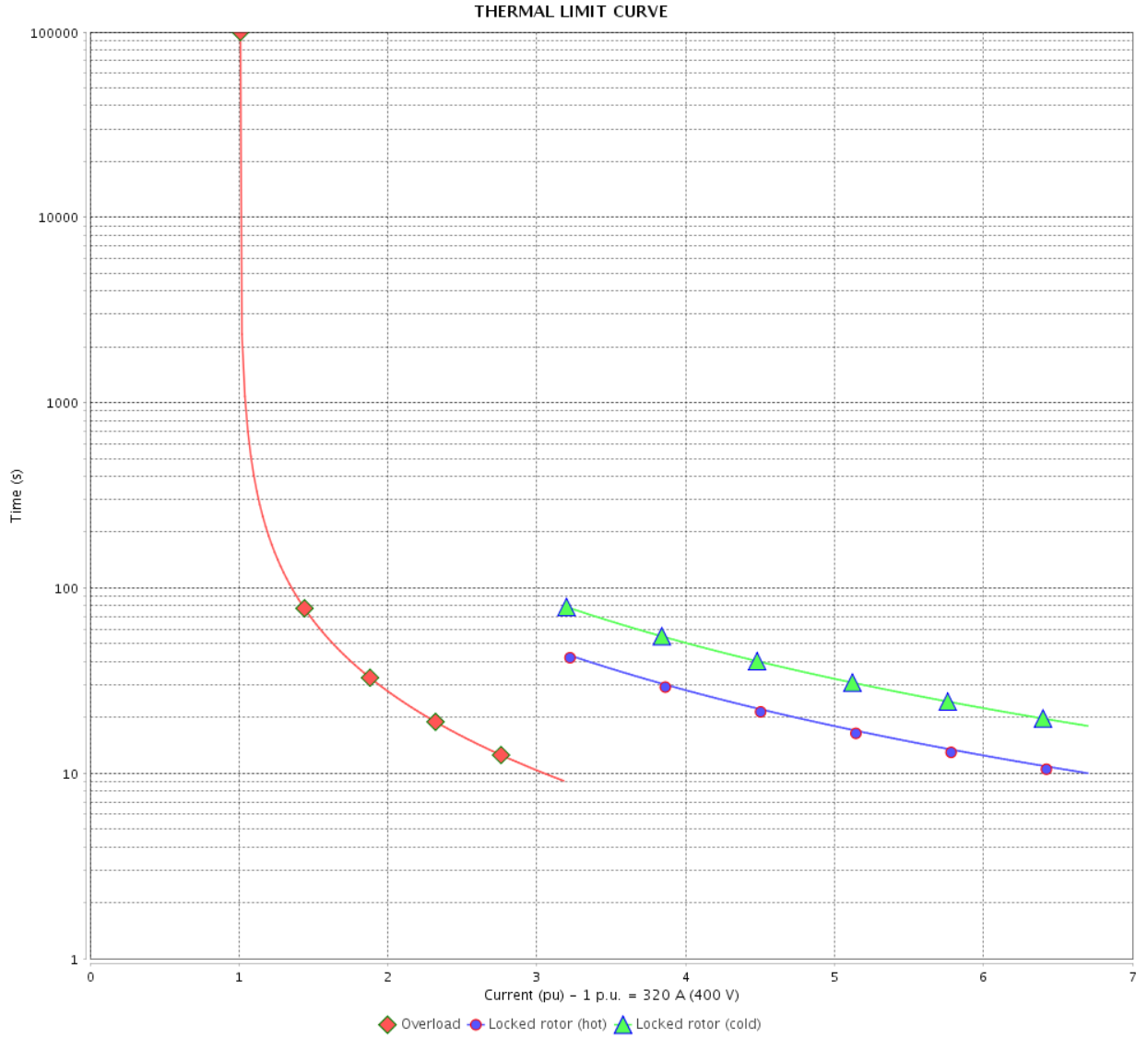
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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Rated current	: 311 A	Moment of inertia (J)	: 89.6 sq.ft.lb
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 884 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 105 K
Rated speed	: 1485 rpm	Design	: B

Heating constant

Cooling constant

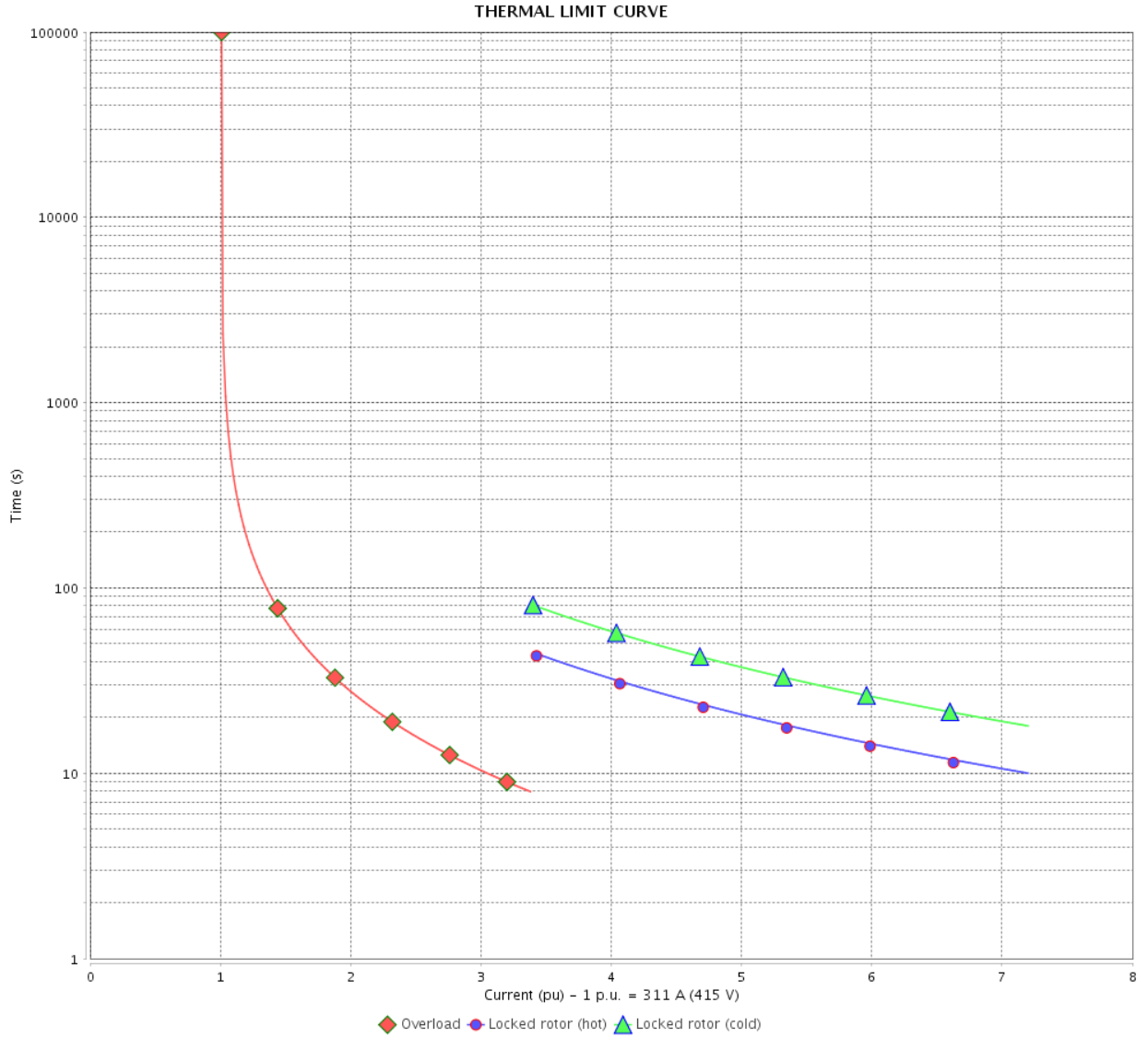
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

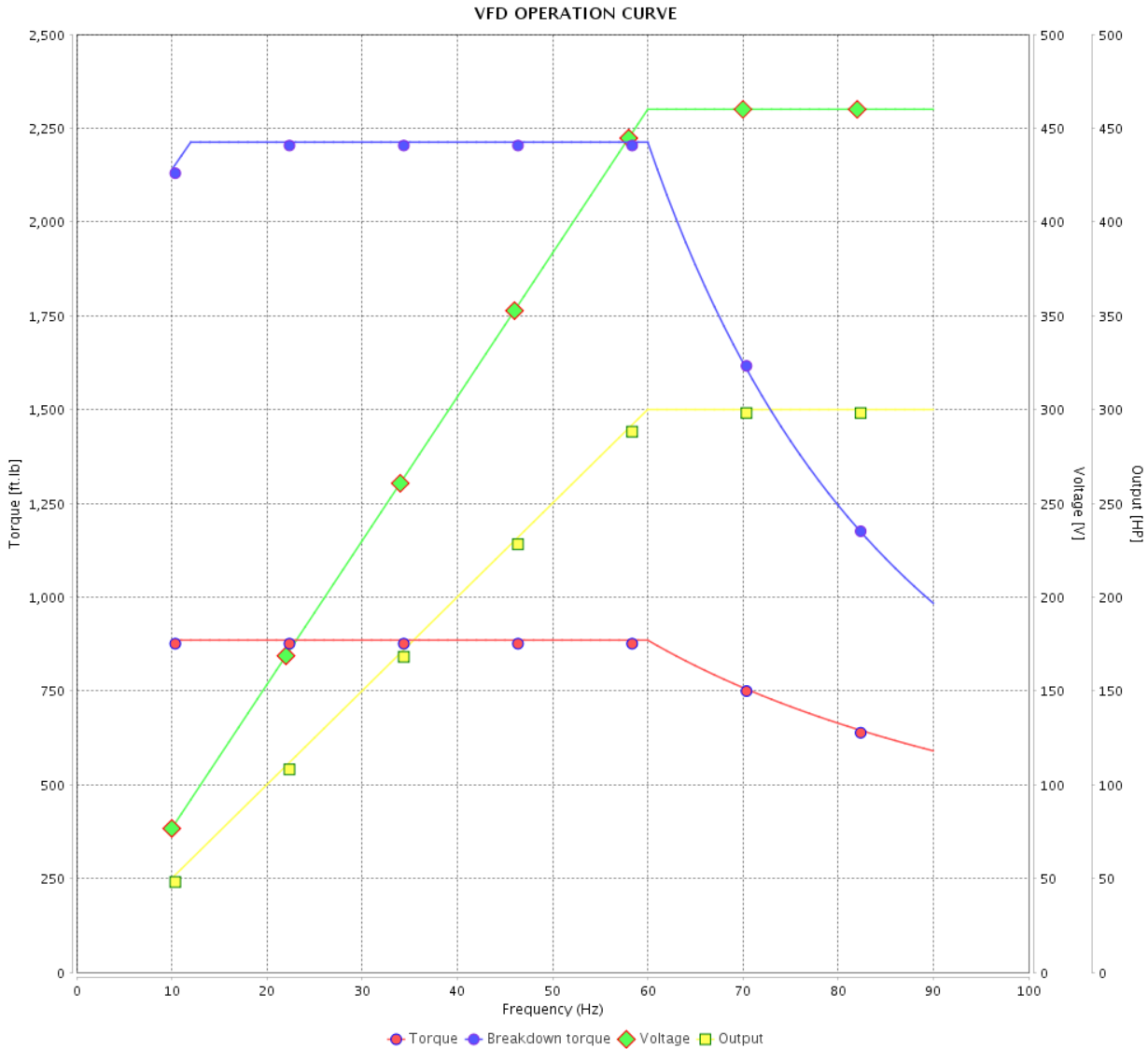


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Performance : 460 V 60 Hz 4P

Rated current : 330 A
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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

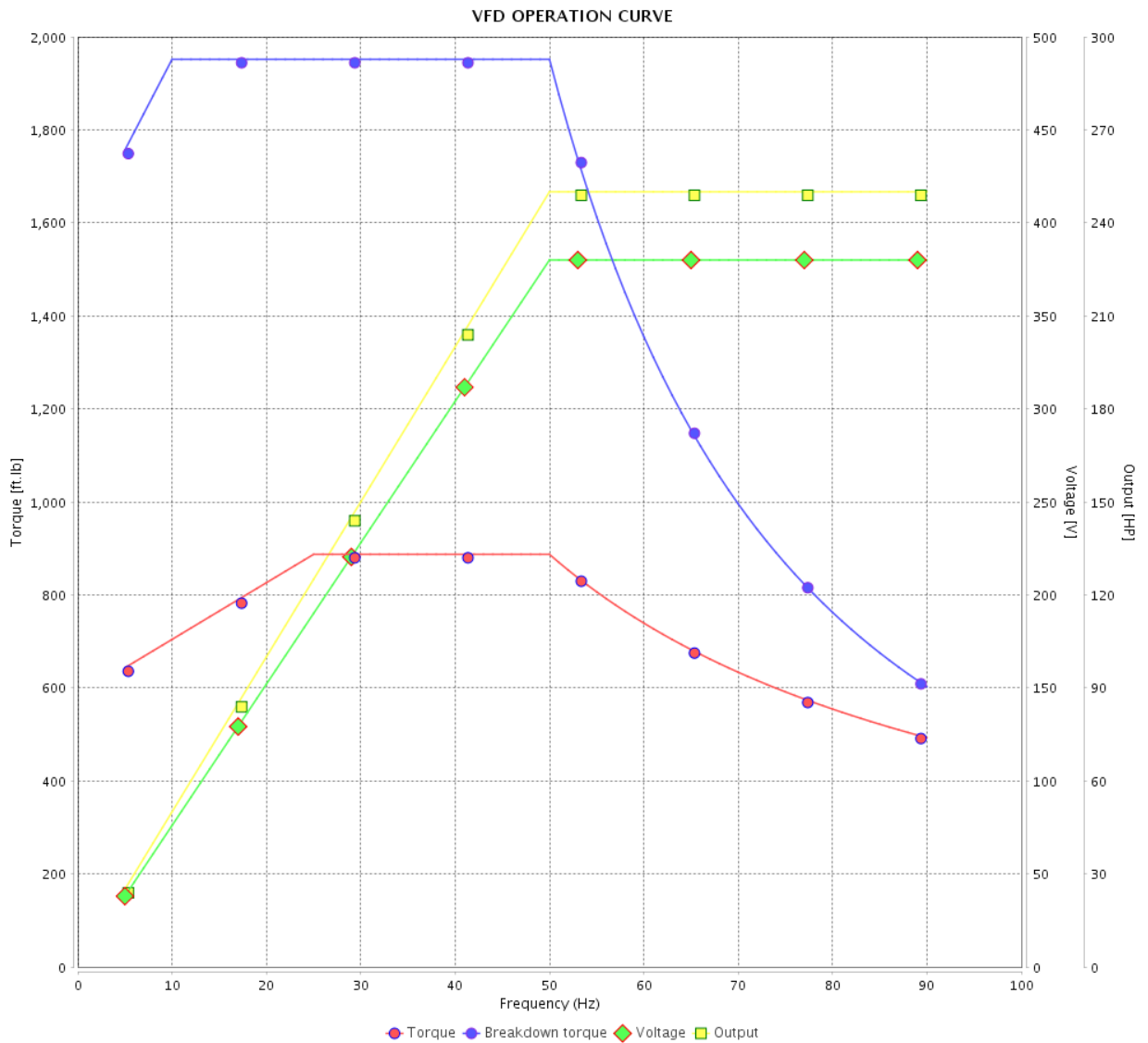


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Catalog # : 30018ET3G449TS-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 337 A
 LRC : 6.1
 Rated torque : 887 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 220 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 89.6 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

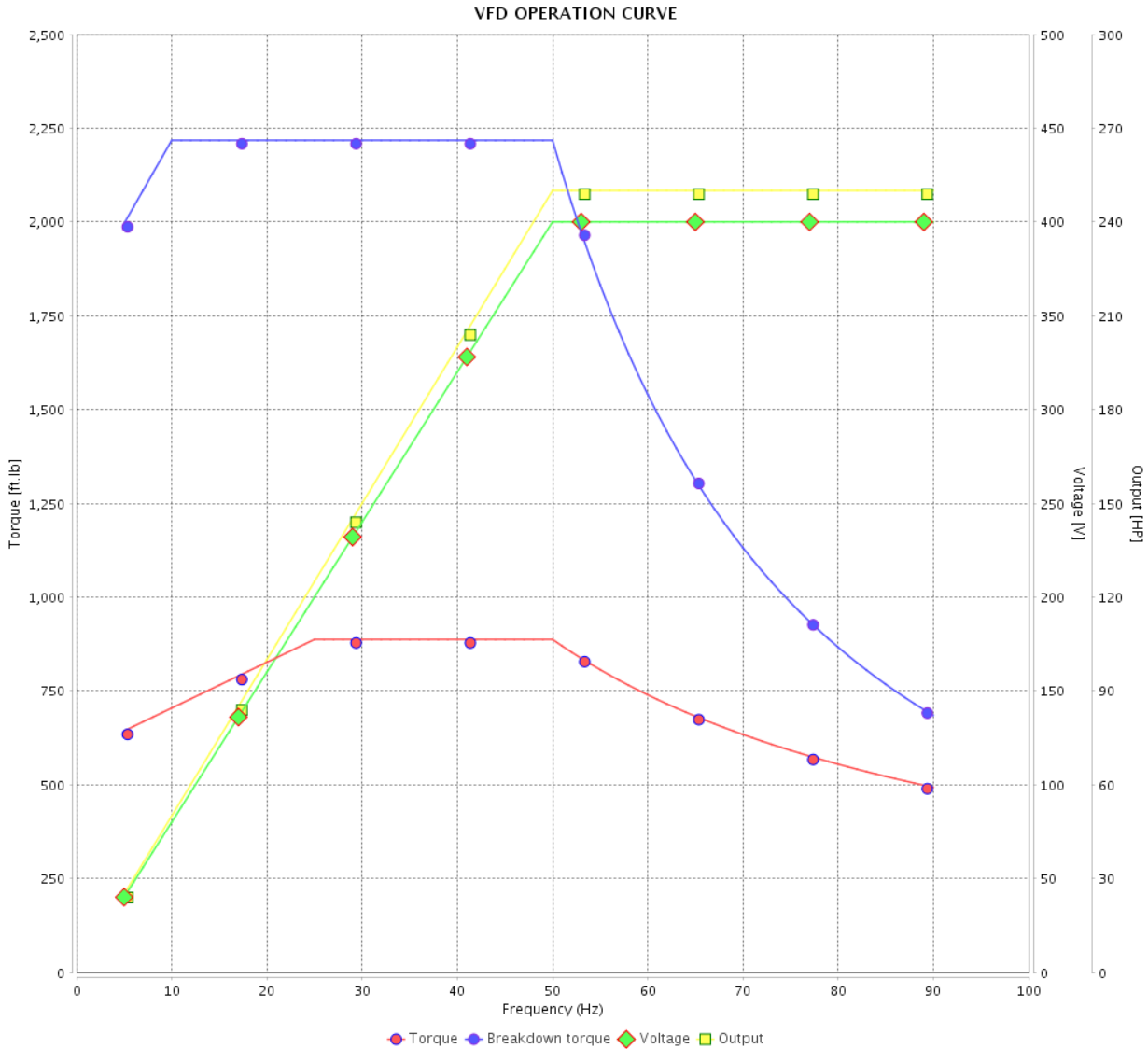


Customer :

Product line : NEMA Premium Efficiency Three-Phase

Product code : 12075527

Catalog # : 30018ET3G449TS-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 320 A
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 Locked rotor torque : 240 %
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

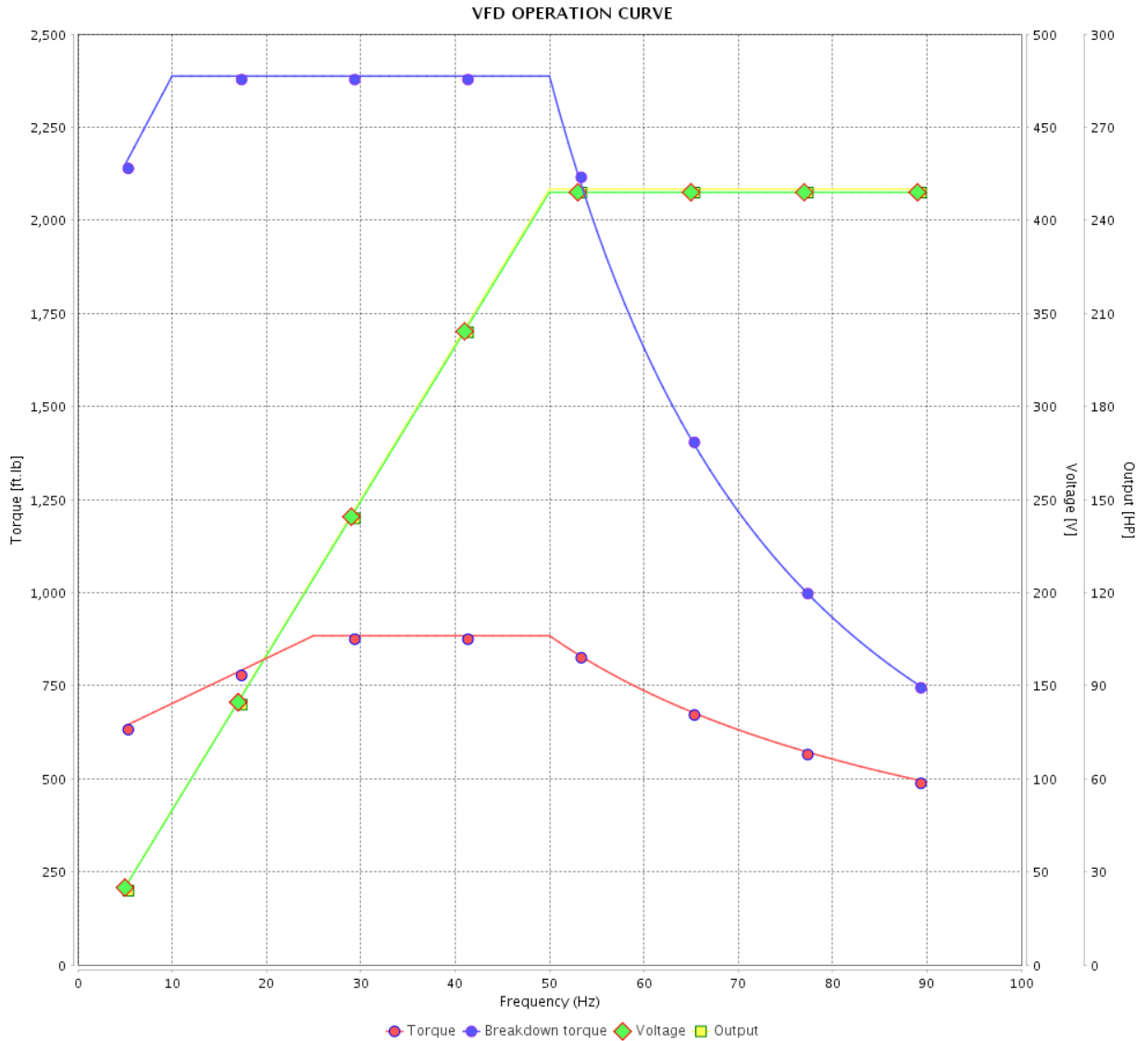


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Performance : 415 V 50 Hz 4P IE3

Rated current : 311 A
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 Locked rotor torque : 260 %
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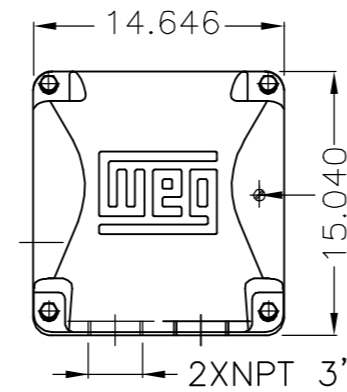
EIXO	
PADRÃO	
OPCIONAL	X
ESPECIAL	

Dimensões em polegadas
Dimensions in inches

CERTIFIED WEG MOTORES

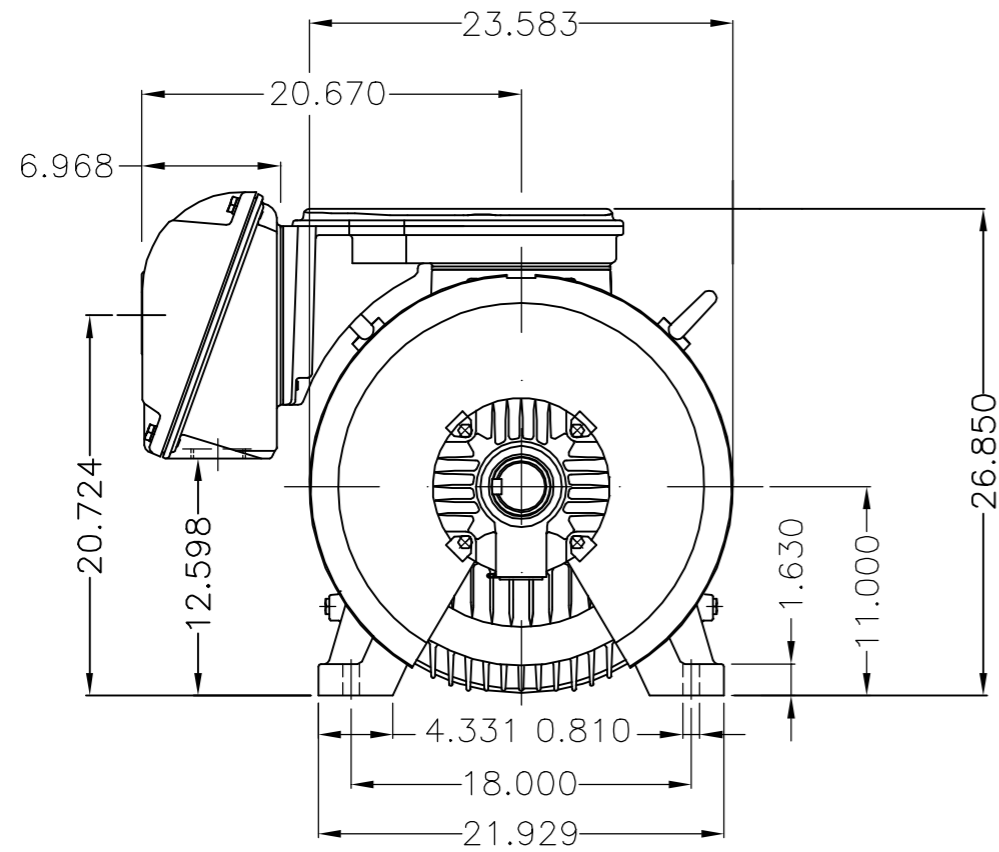
Certified document.
Not subject to changes.

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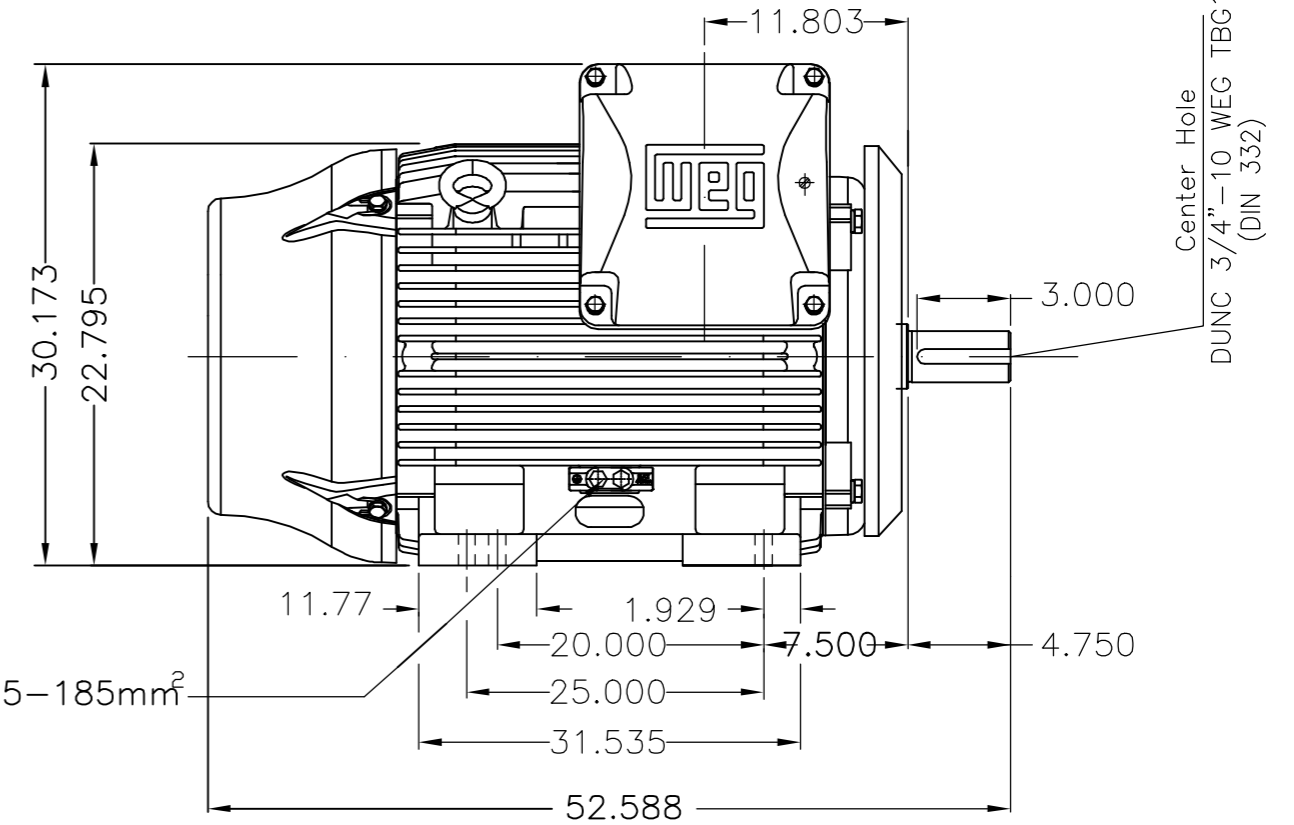


Main terminal box

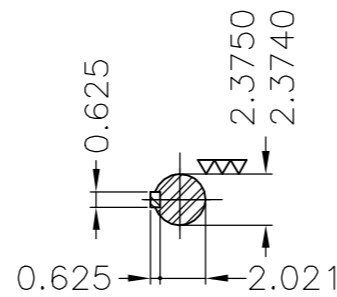
Grounding for leads 35–70mm²



Grounding for leads 25–185mm²



Center Hole
DUNC 3/4"–10 WEG TBG12
(DIN 332)



DE Shaft End

Rolamento dianteiro de esferas 6314 C3 / 6314 C3 DE ball bearing						
Defletor de ar dianteiro / Drive-End Air Deflector						
Ponta de eixo TS / TS shaft end						
Plano de pintura 203A / Painting plan 203A						
Forma construtiva B3D / Mounting B3R(D)						
WEG ELECTRIC CORPORATION – WEC						
500000821834		ALT. CONFORME ECM 500000821834	SCHENKEL	RICARDOAN	08.11.2013	02
500000804573		ALT CONF ECM 500000804573	DCARDOSO	RICARDOAN	02.10.2013	01
ECM ECM	LOC LOC	RESUMO MODIFICAÇÃO SUMMARY OF MODIFICATIONS	EXECUTADO EXECUTED	VERIFICADO CHECKED	LIBERADO RELEASED	DATA DATE
EXEC. /EXECUTED	SCARMAGNANI	THREE PHASE W22 MOTOR - NEMA PREMIUM EFF	10001718808			
VERIF. /CHECKED		FRAME 447/9TS IP55	000 02			
LIBER. /RELEASED	DVEGINI		000 02			
DATA LB /REL DT	27.04.2012	WMO-JGS JARAGUÁ DO SUL	ENG. MOTORES INDUSTRIAIS	FOLHA/SHEET	1 / 1	

350 HP	04 Poles	60Hz	412462295/0	ELET/MEC	B
300 HP	04 Poles	60Hz	412462296/0	ELET/MEC	A



MADE IN MEXICO
12075527



FOR SAFE AREA
Mod.TE1BFOXON
CC029A

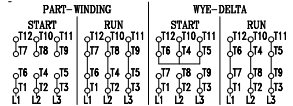


Class I, Div 2, Gr A, B, C and D - T3
Class I, Zone 2, IIC - T3
Class II, Div 2, Gr F and G - T3C
For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 6:1, 1.00SF - T3

MODEL 30018ET3G449TS-W22

Inverter Duty Motor
Severe Duty

PH3	60Hz	Fr. 447/9TS	1000m.a.s.l.	IP55	TEFC	2769lb
V 460				A 330		
HP 300				kW 220		
SF 1.15				SFA 379		
RPM 1780				PF 0.87		
AMB 40°C				INS cl. F DT80K	NEMA NOM EFF 96.2%	
DUTY CONT.				DES B Code G		



→ 6314-C3 (27g)
 → 6314-C3 (27g)

MOBIL POLYREX EM (12000h)