

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W40 JP Pump NEMA Premium Efficiency Three-Phase	Product code :	14490330		
		Catalog # :	06036OT3G326JP-W40		
Frame	: 324/6JP	Cooling method	: IC01 - ODP		
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	: 487 lb		
Protection degree	: IP23	Moment of inertia (J)	: 3.82 sq.ft.lb		
Design	: B				
Output [HP]	60	50	50	50	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	460	380	400	415	
Rated current [A]	71.0	69.8	68.7	69.5	
L. R. Amperes [A]	447	482	460	473	
LRC [A]	6.3x(Code G)	6.9x(Code H)	6.7x(Code H)	6.8x(Code H)	
No load current [A]	25.0	23.0	27.0	30.0	
Rated speed [RPM]	3560	2960	2960	2965	
Slip [%]	1.11	1.33	1.33	1.17	
Rated torque [ft.lb]	88.5	88.7	88.7	88.6	
Locked rotor torque [%]	220	220	240	260	
Breakdown torque [%]	229	229	250	270	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	
Noise level ²	75.0 dB(A)				
Efficiency (%)	25%	91.7	88.9	89.0	89.2
	50%	92.4	90.5	90.6	90.7
	75%	93.0	92.0	92.1	92.2
	100%	93.6	93.7	93.7	93.7
Power Factor	25%	0.48	0.50	0.43	0.38
	50%	0.73	0.73	0.67	0.60
	75%	0.82	0.82	0.77	0.72
	100%	0.85	0.86	0.83	0.79
Bearing type	: Drive end : 6312 Z C3	Non drive end : 6211 Z C3	Foundation loads		
Sealing	: Without	Without	Max. traction		
	Bearing Seal	Bearing Seal	Max. compression		
Lubrication interval	: 19658 h	20000 h			
Lubricant amount	: 21 g	11 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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 21	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



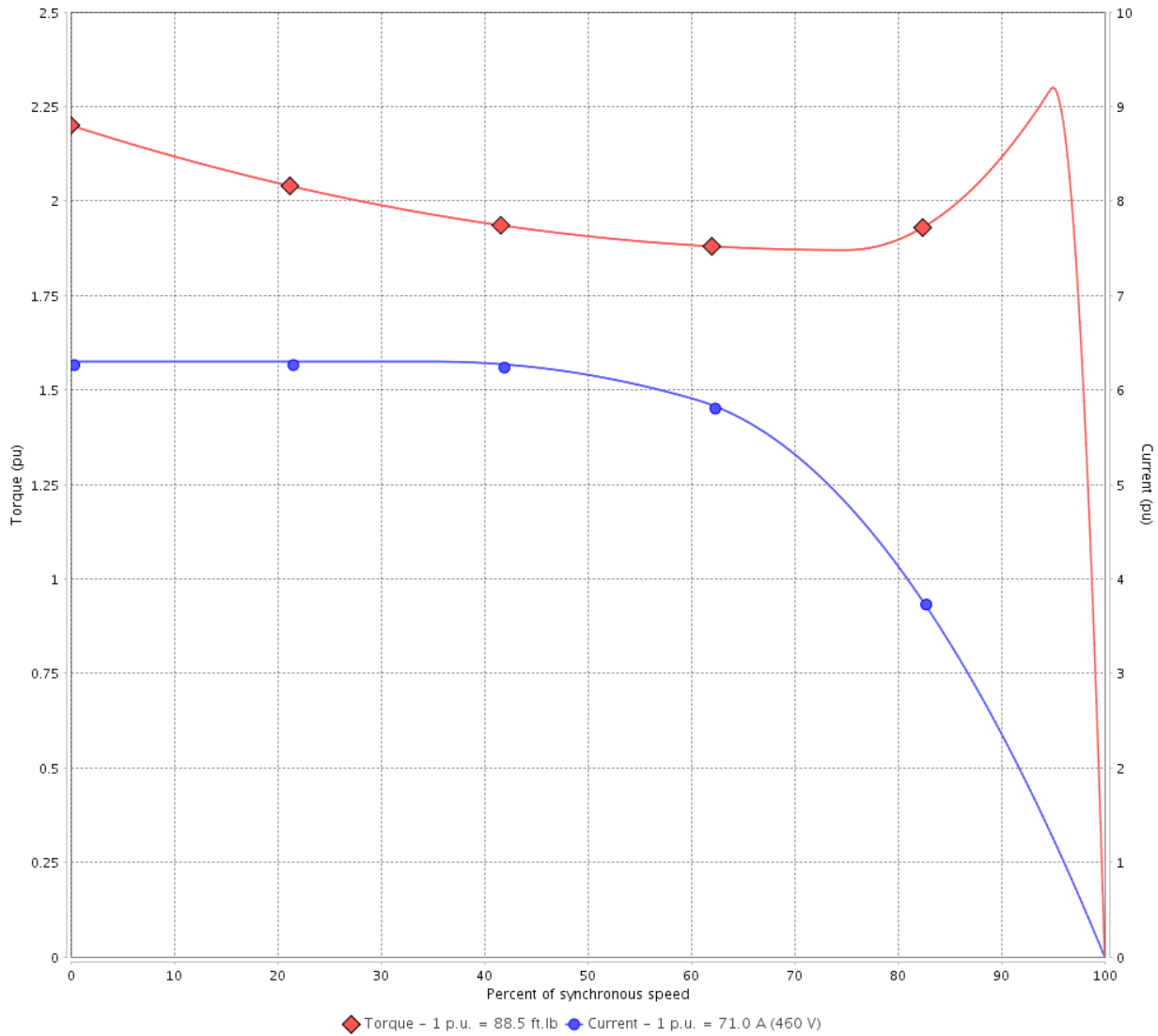
Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14490330

Catalog # : 06036OT3G326JP-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 460 V 60 Hz 2P

Rated current	: 71.0 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 88.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3560 rpm	Design	: B

Locked rotor time : 27s (cold) 15s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 21	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



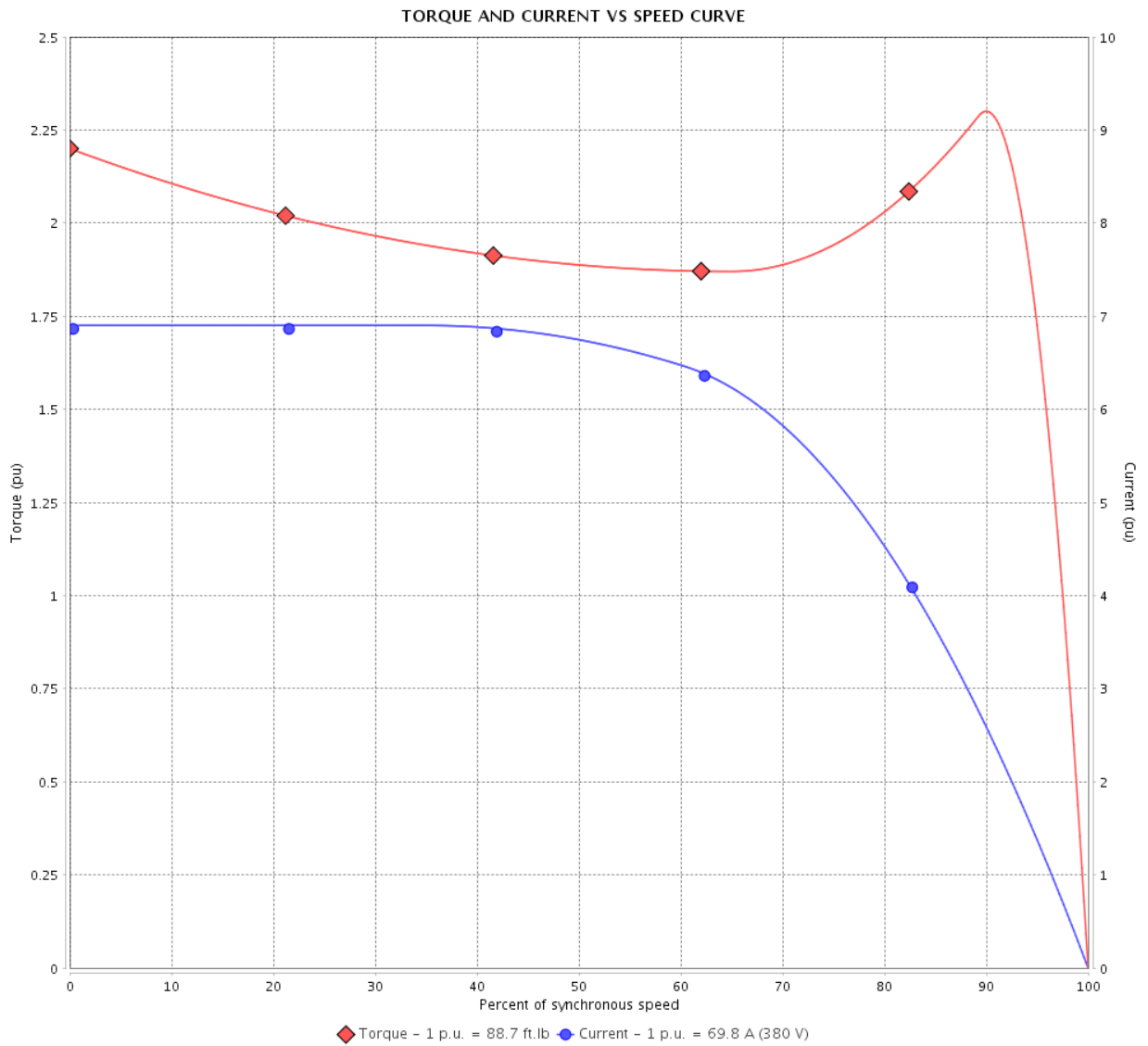
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14490330

Catalog # : 06036OT3G326JP-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A
 LRC : 6.9
 Rated torque : 88.7 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 21	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



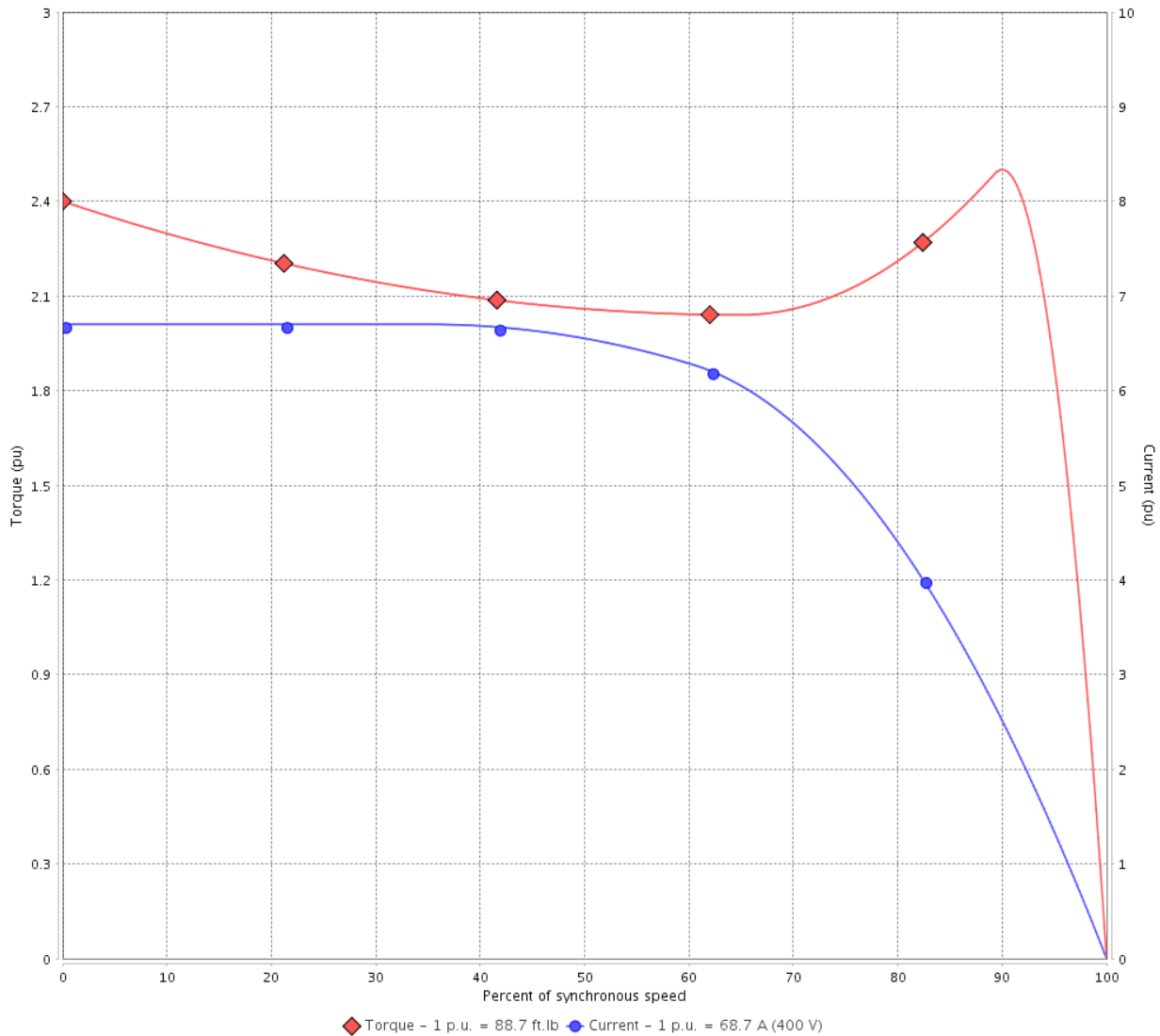
Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14490330

Catalog # : 06036OT3G326JP-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 2P IE3

Rated current	: 68.7 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 88.7 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 21	Revision
Checked by				
Date	13/04/2022			

TORQUE AND CURRENT VS SPEED CURVE



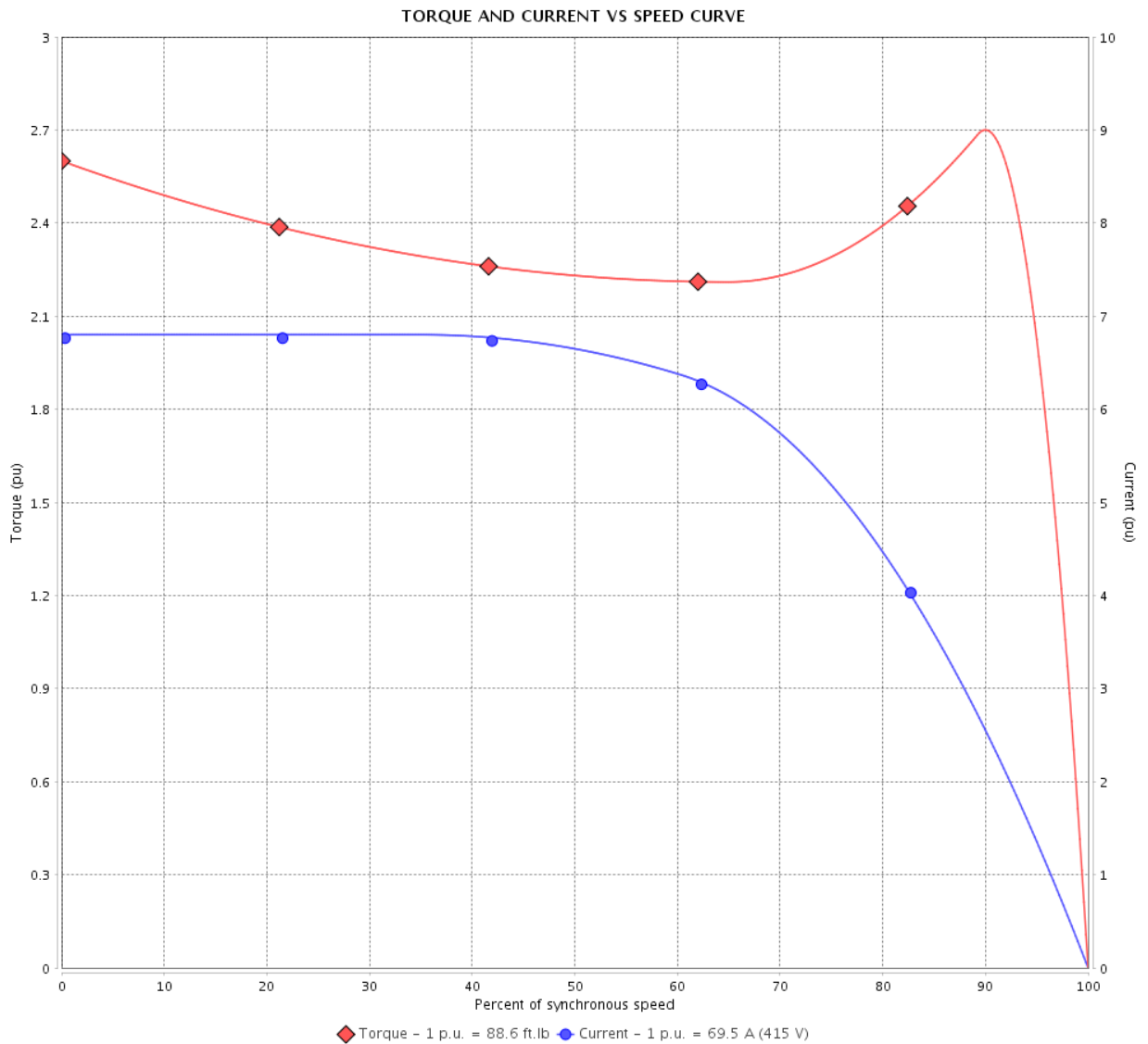
Three Phase Induction Motor - Squirrel Cage

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Product code : 14490330

Catalog # : 06036OT3G326JP-W40



Performance : 415 V 50 Hz 2P IE3

Rated current	: 69.5 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 88.6 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 21	Revision
Checked by				
Date	13/04/2022			

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Three Phase Induction Motor - Squirrel Cage

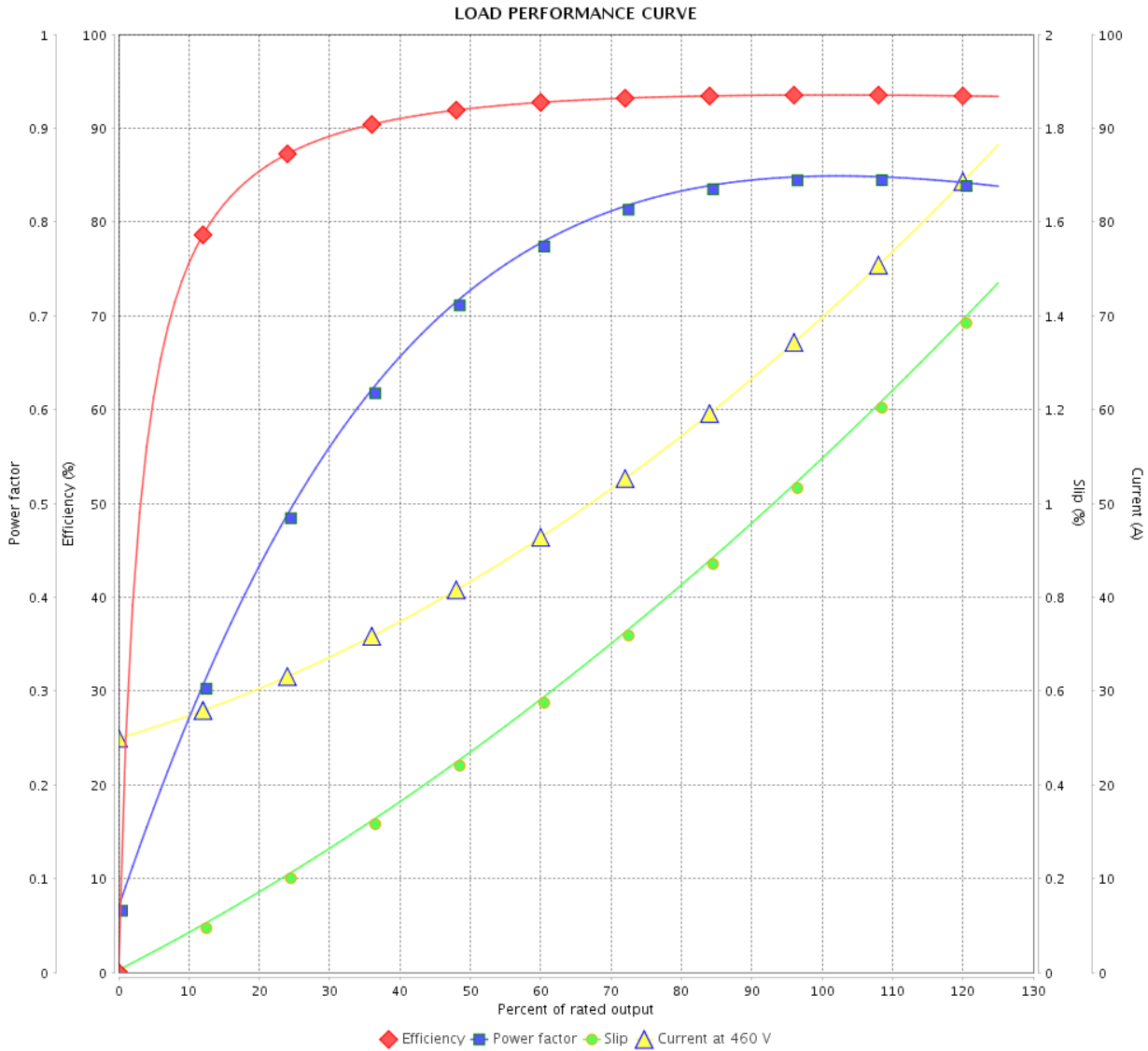


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Catalog # : 06036OT3G326JP-W40



Performance : 460 V 60 Hz 2P

Rated current : 71.0 A
 LRC : 6.3
 Rated torque : 88.5 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 229 %
 Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 21	Revision
Checked by				
Date	13/04/2022			

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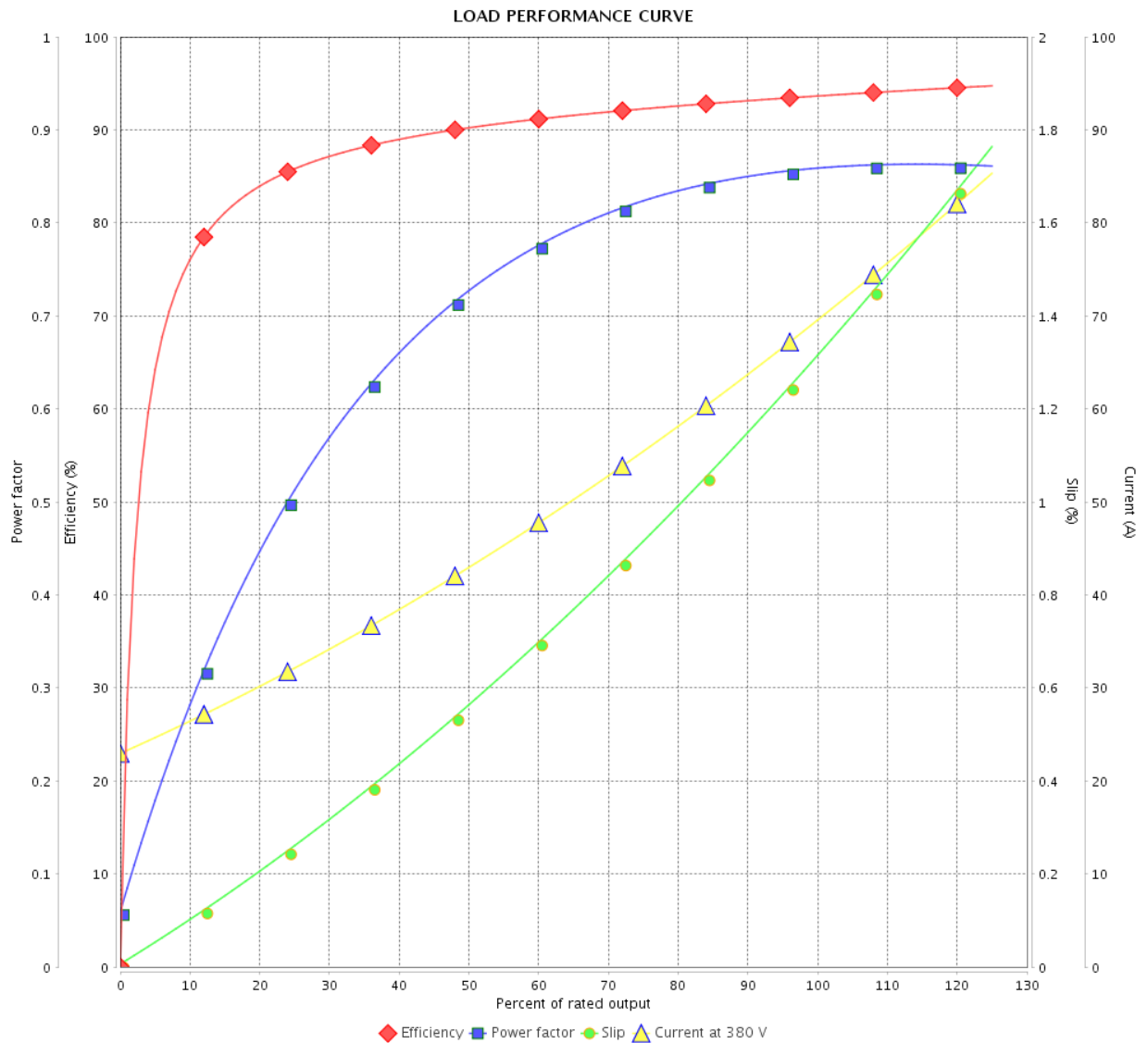


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		7 / 21		
Date		13/04/2022		

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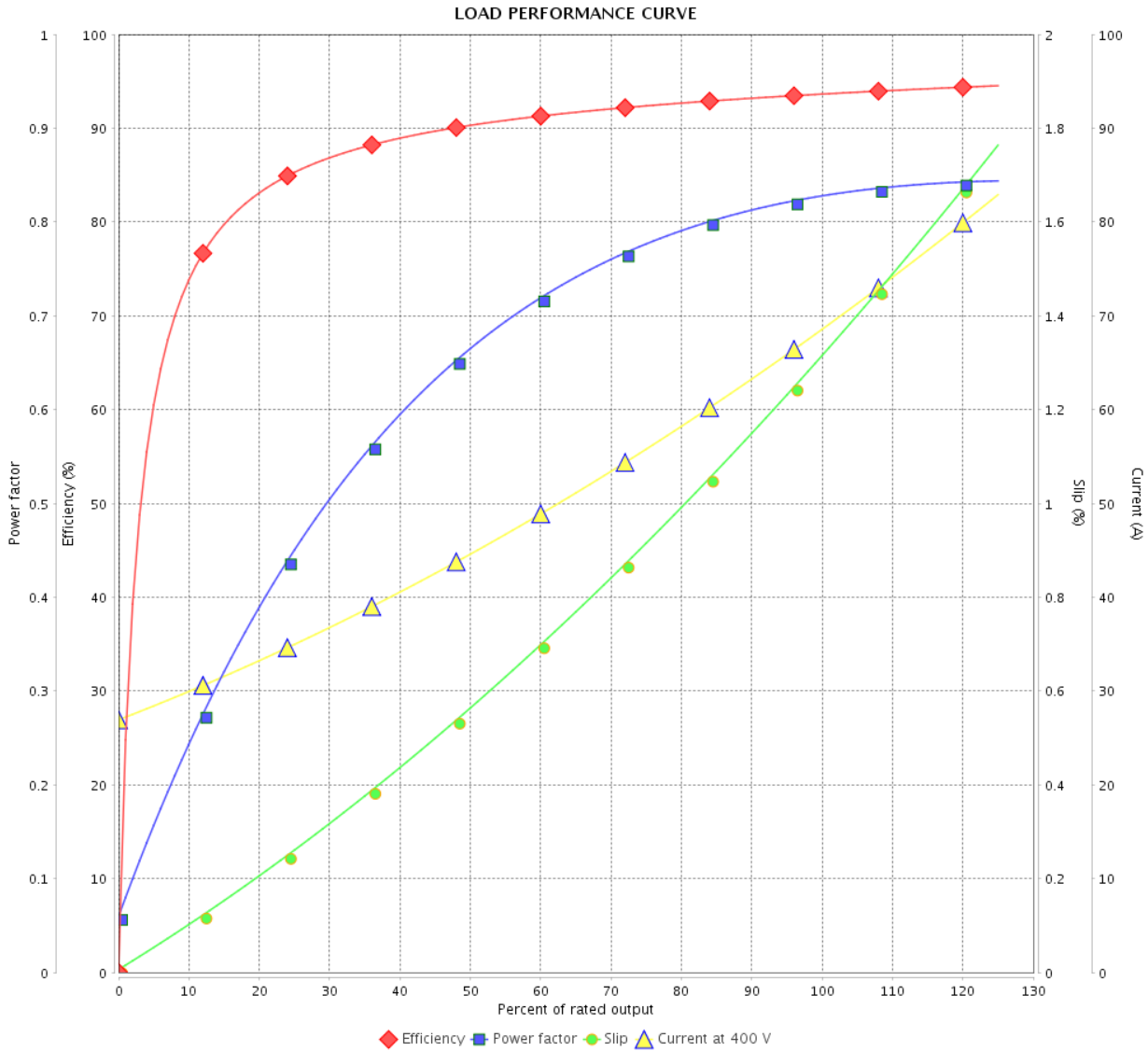


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Performance : 400 V 50 Hz 2P IE3

Rated current : 68.7 A
 LRC : 6.7
 Rated torque : 88.7 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 250 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		8 / 21		
Date	13/04/2022			

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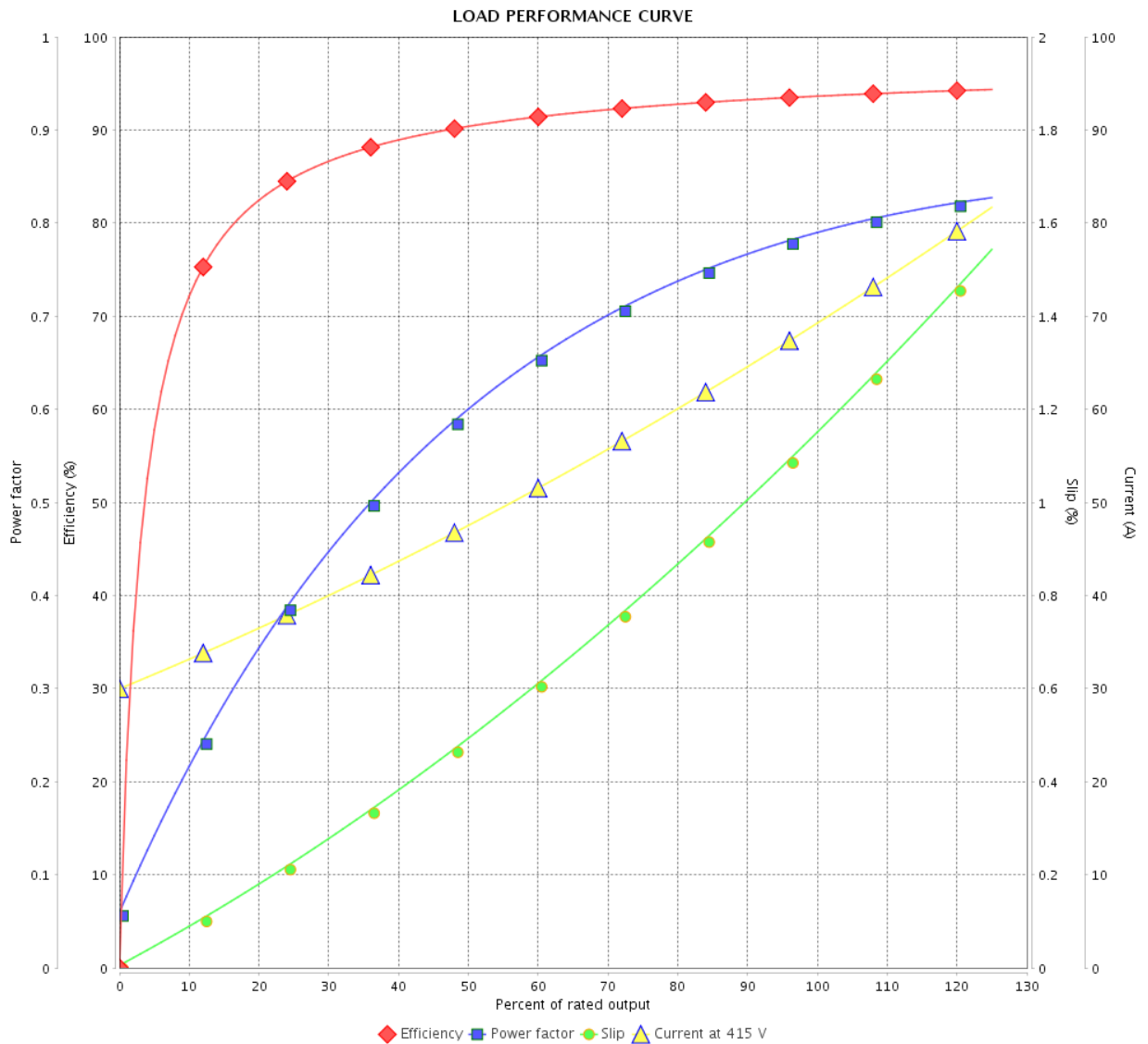


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by			9 / 21	
Date	13/04/2022			

THERMAL LIMIT CURVE



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Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

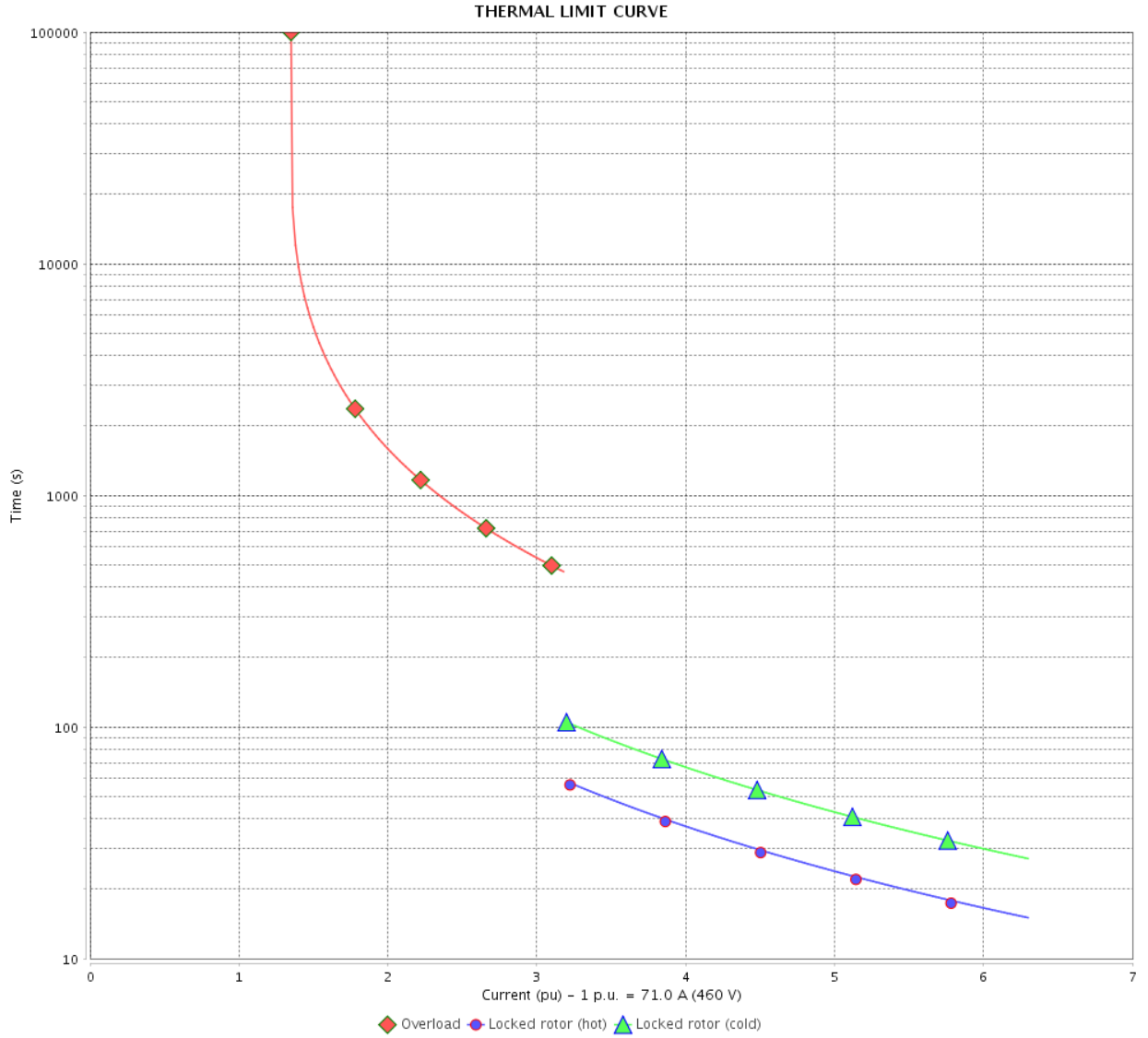
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Performed by				
Checked by			Page	Revision
Date	13/04/2022		10 / 21	

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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		11 / 21		
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Rated speed	: 2960 rpm	Design	: B

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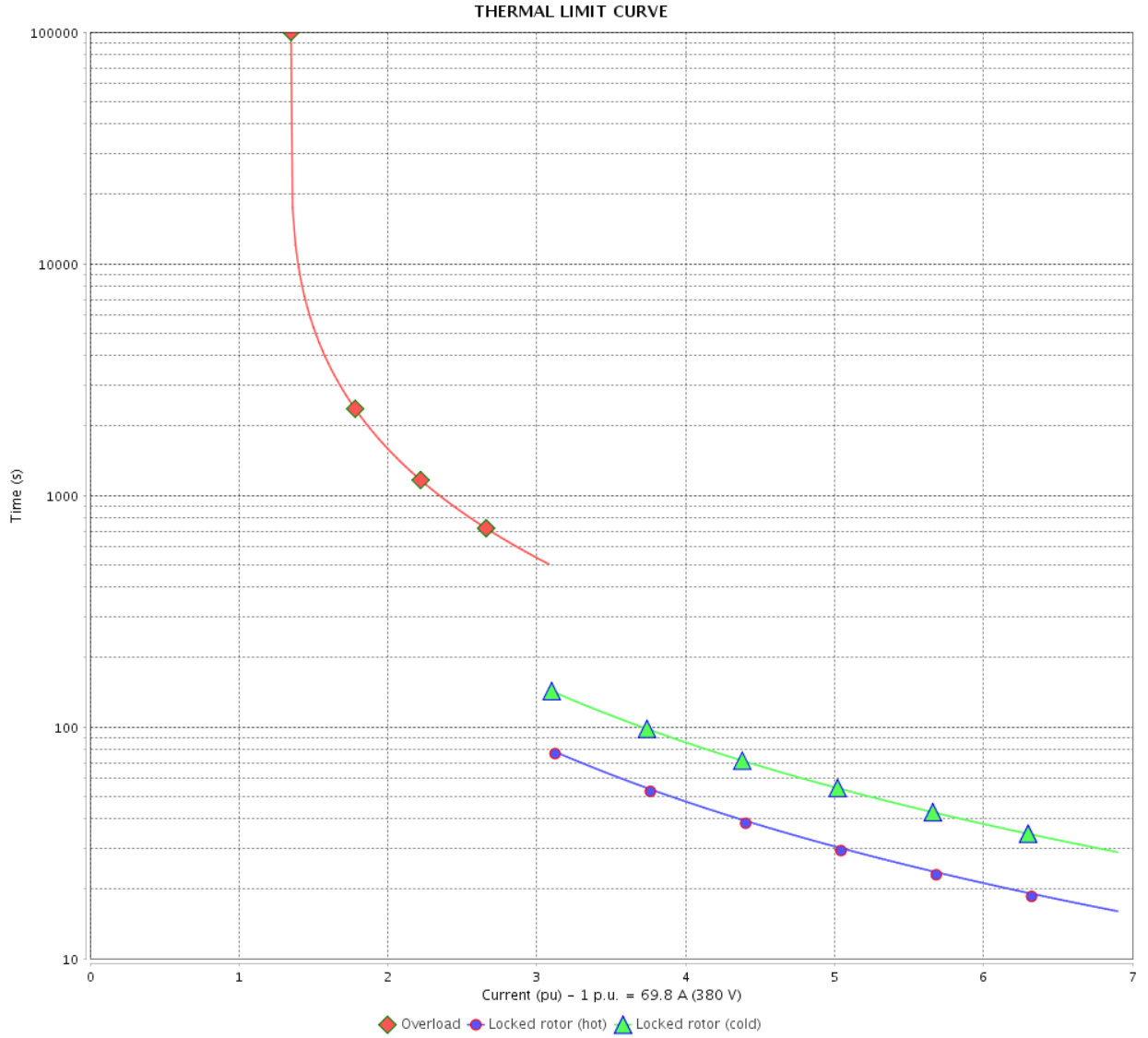
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Date	13/04/2022		12 / 21	

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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		13 / 21		
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LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 88.7 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Heating constant

Cooling constant

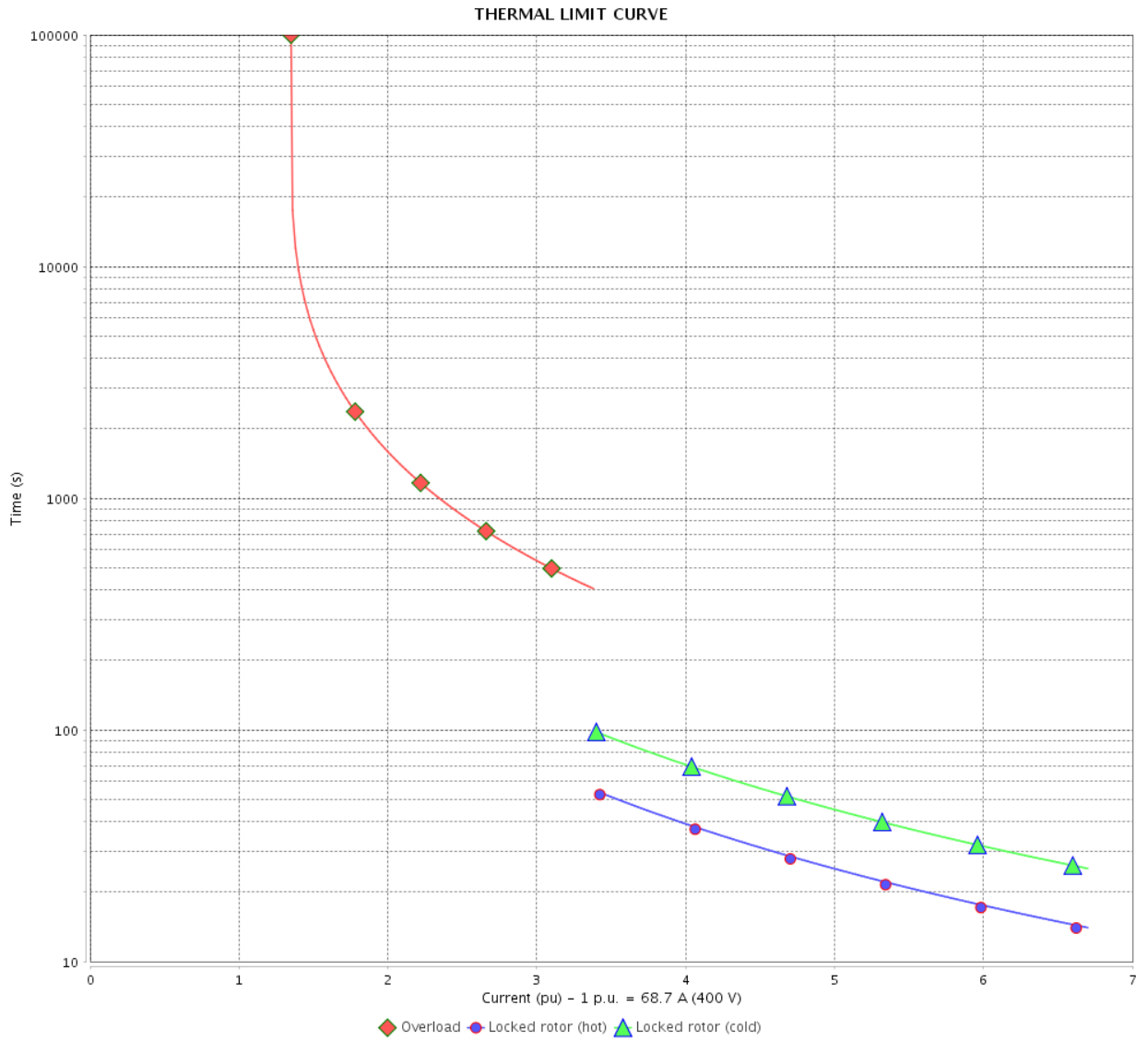
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Checked by		14 / 21		
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Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		15 / 21		
Date		13/04/2022		

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Locked rotor torque	: 260 %	Service factor	: 1.00
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Heating constant

Cooling constant

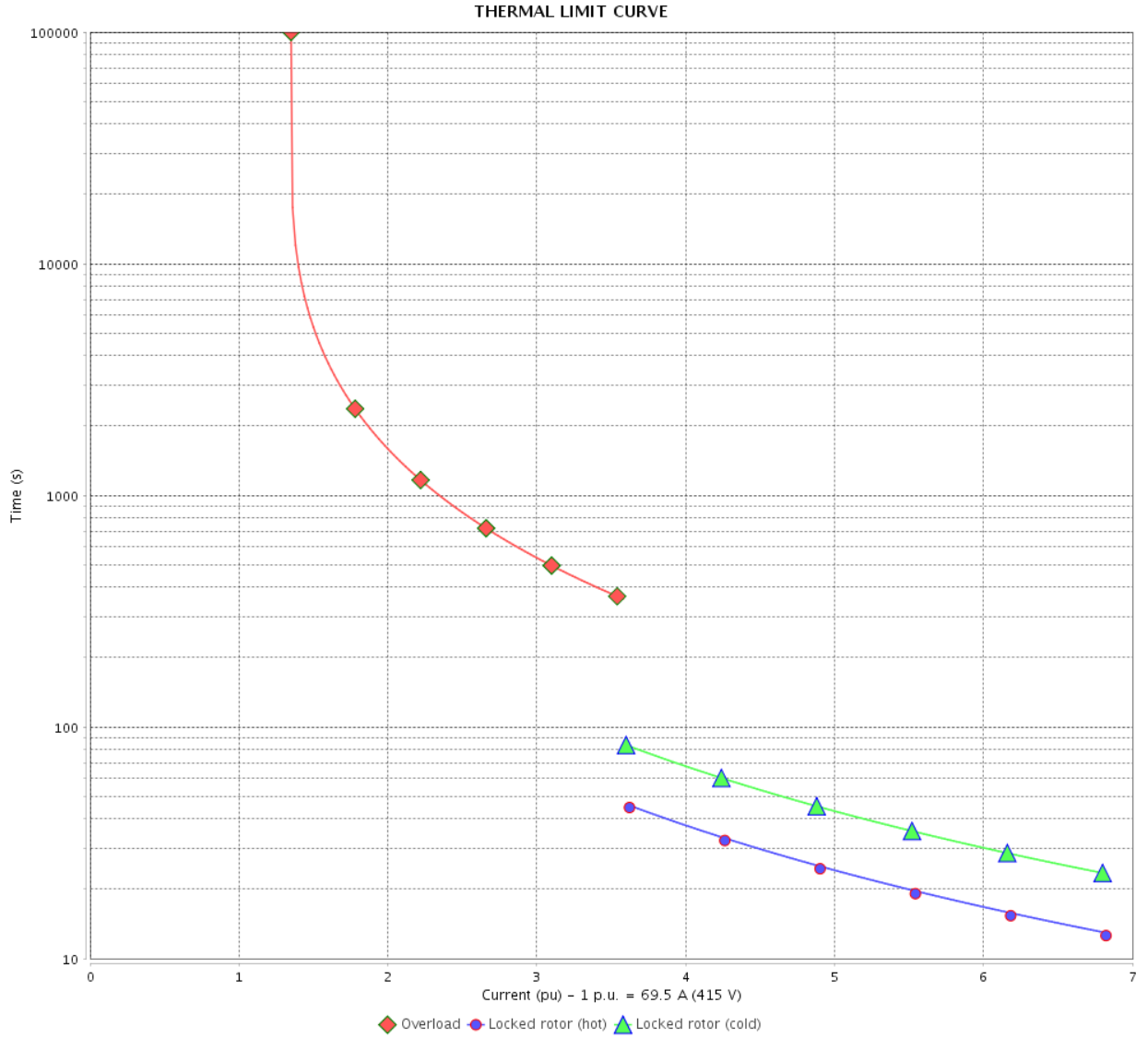
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Checked by			Page	Revision
Date	13/04/2022		16 / 21	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 17 / 21		Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

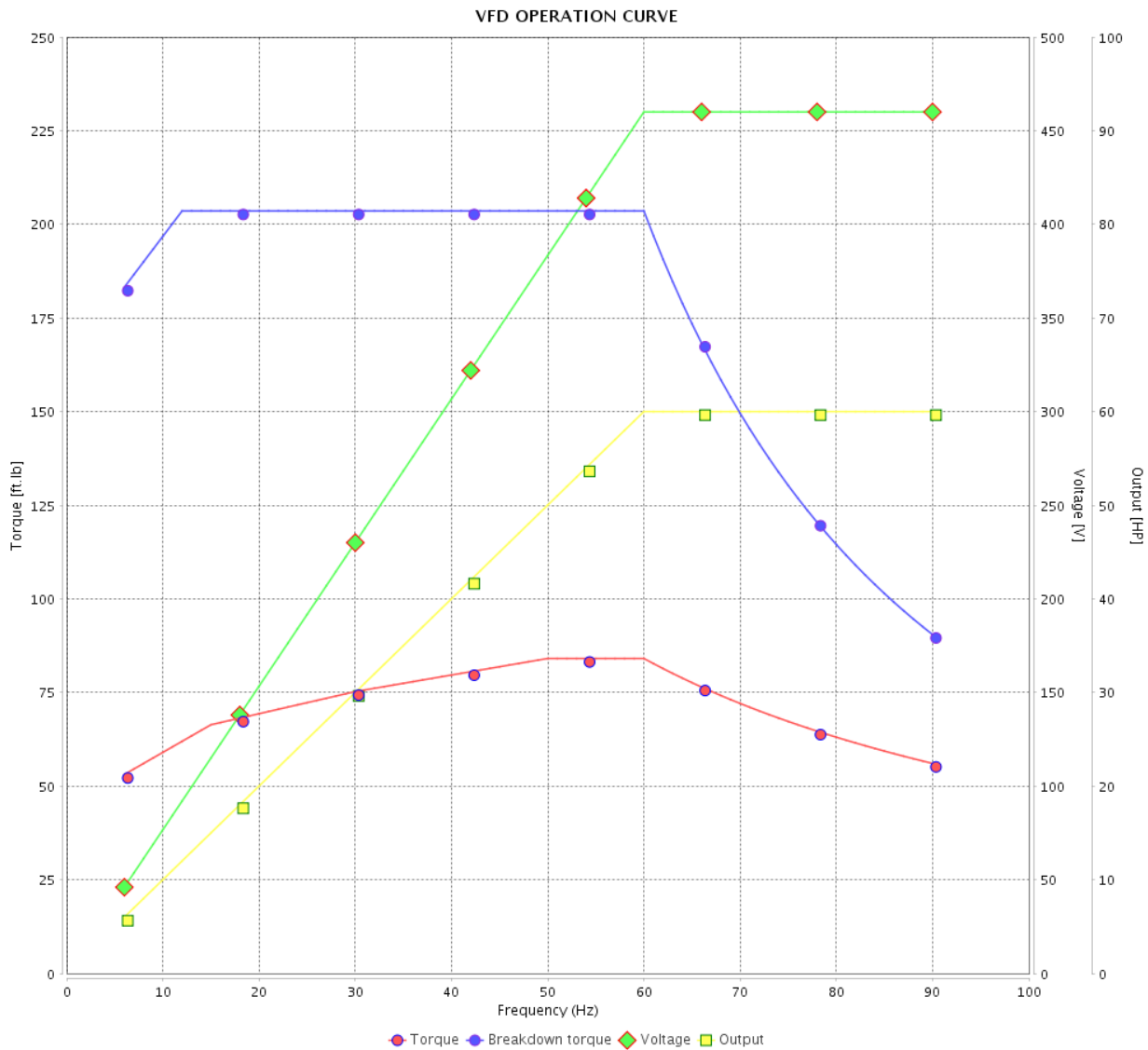


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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Performed by			Page	Revision
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

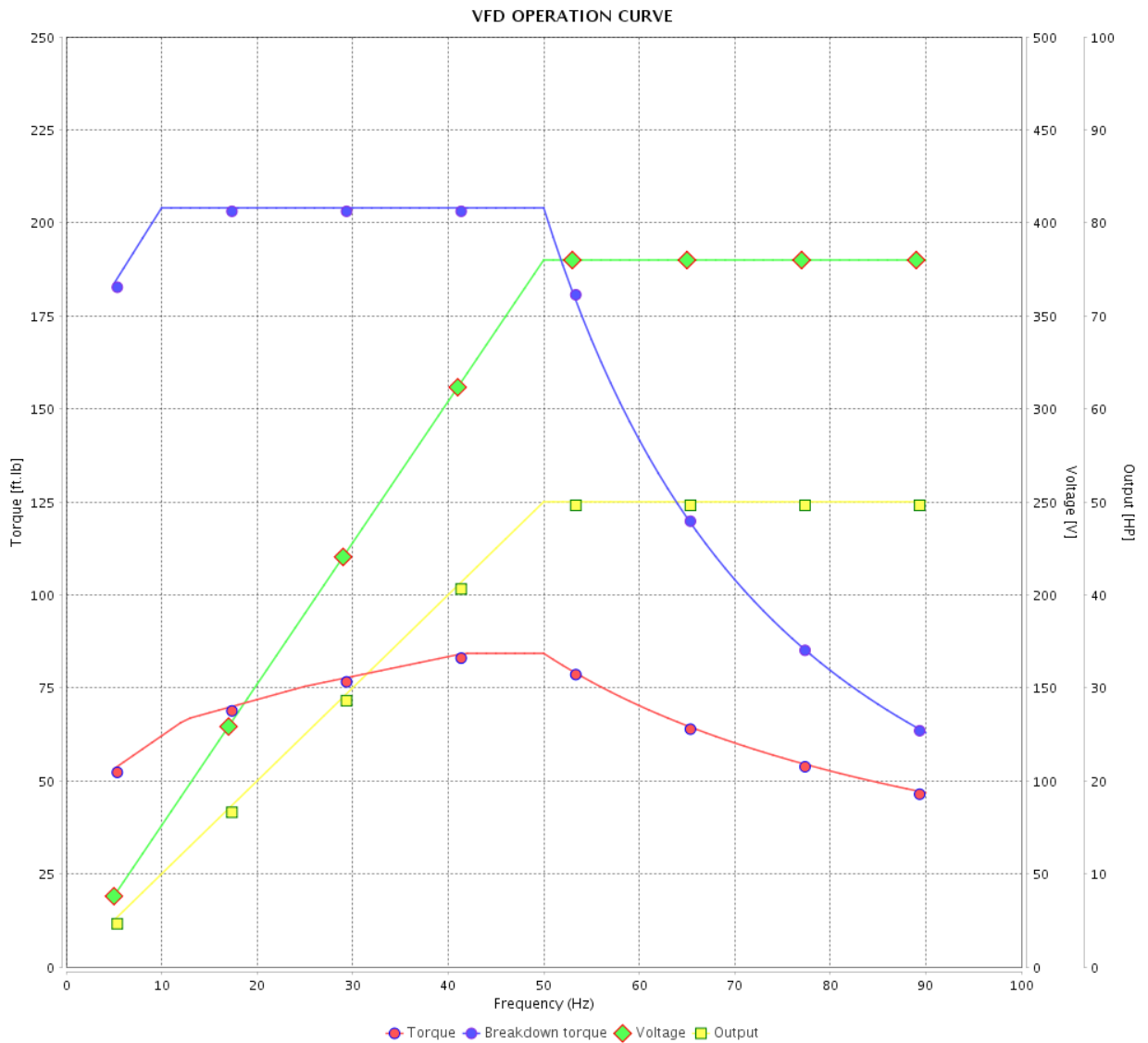


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 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 19 / 21	Revision
Checked by				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



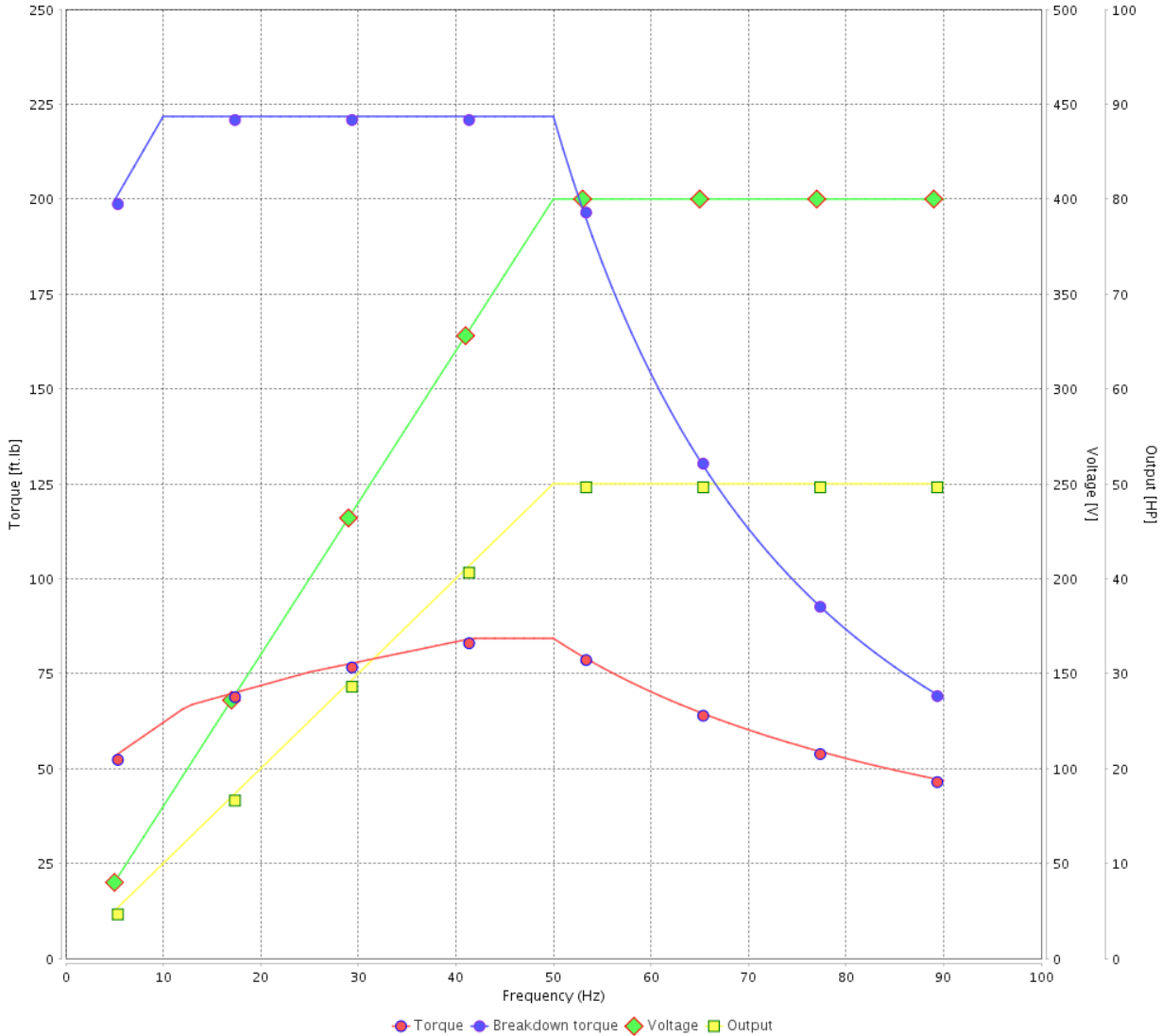
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VFD OPERATION CURVE



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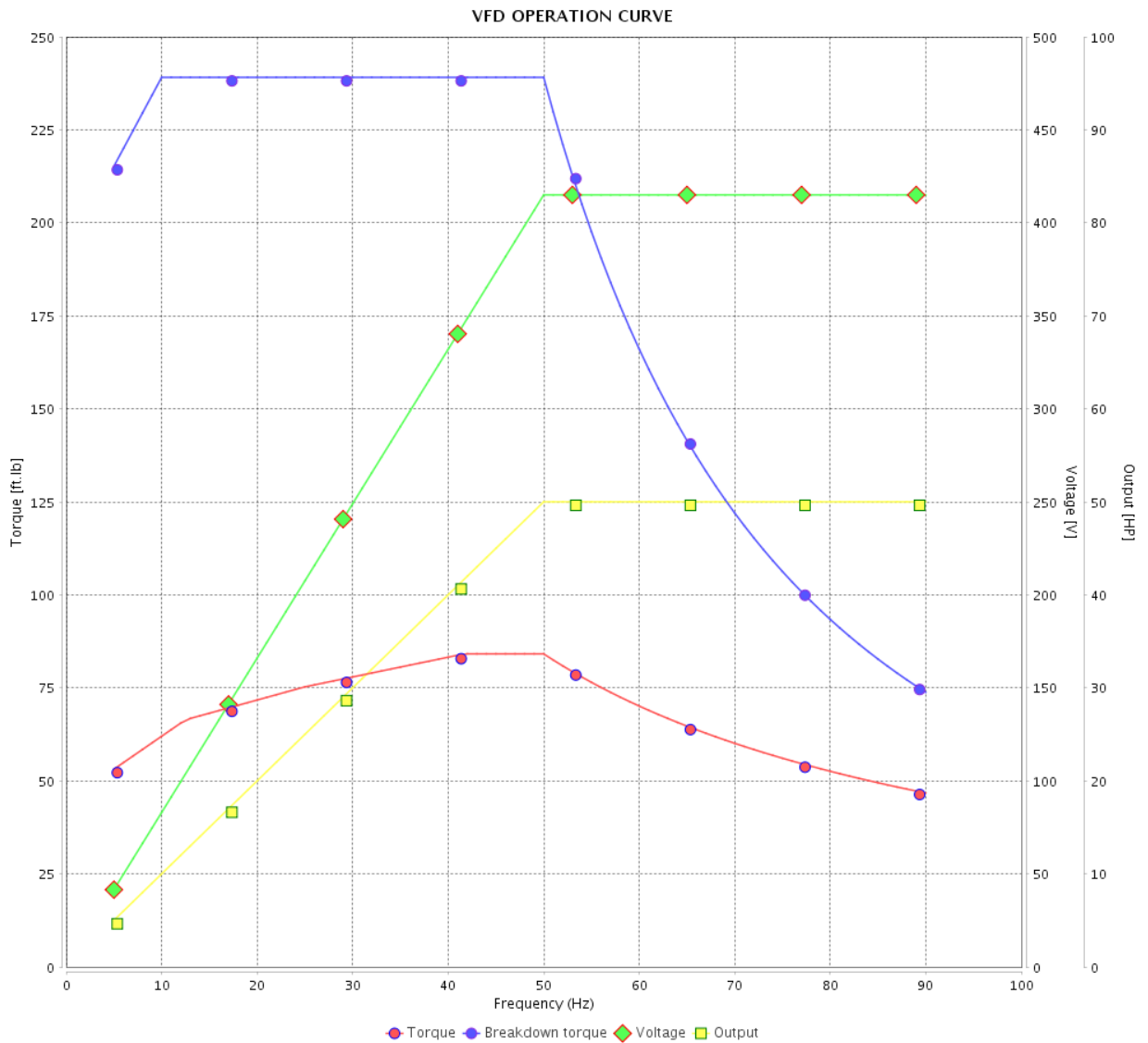


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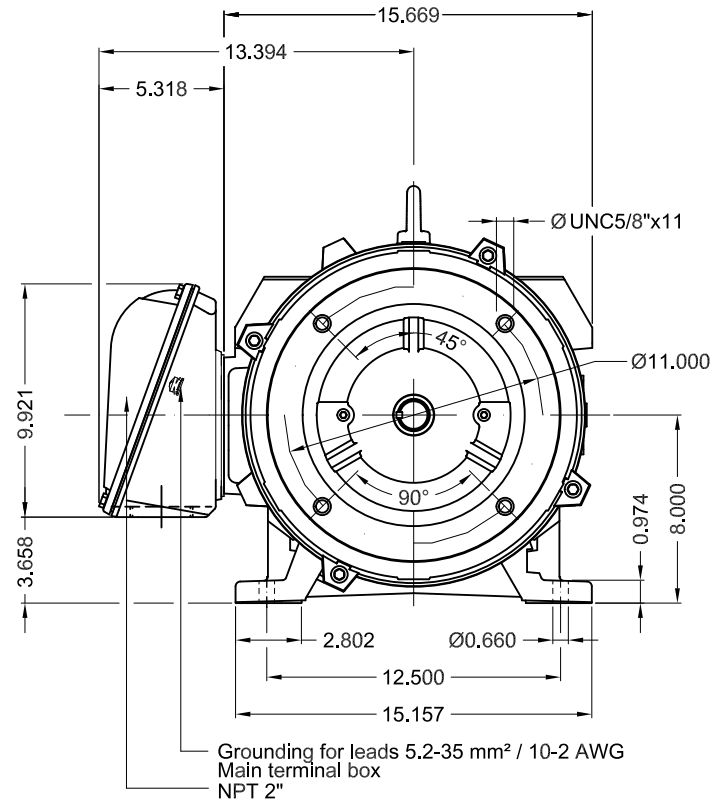


Performance : 415 V 50 Hz 2P IE3

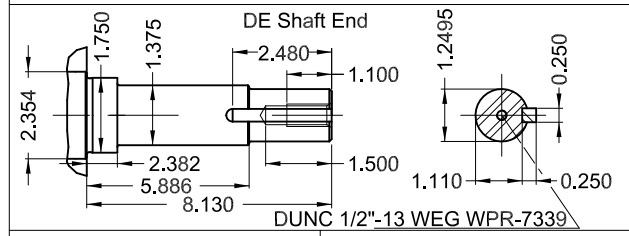
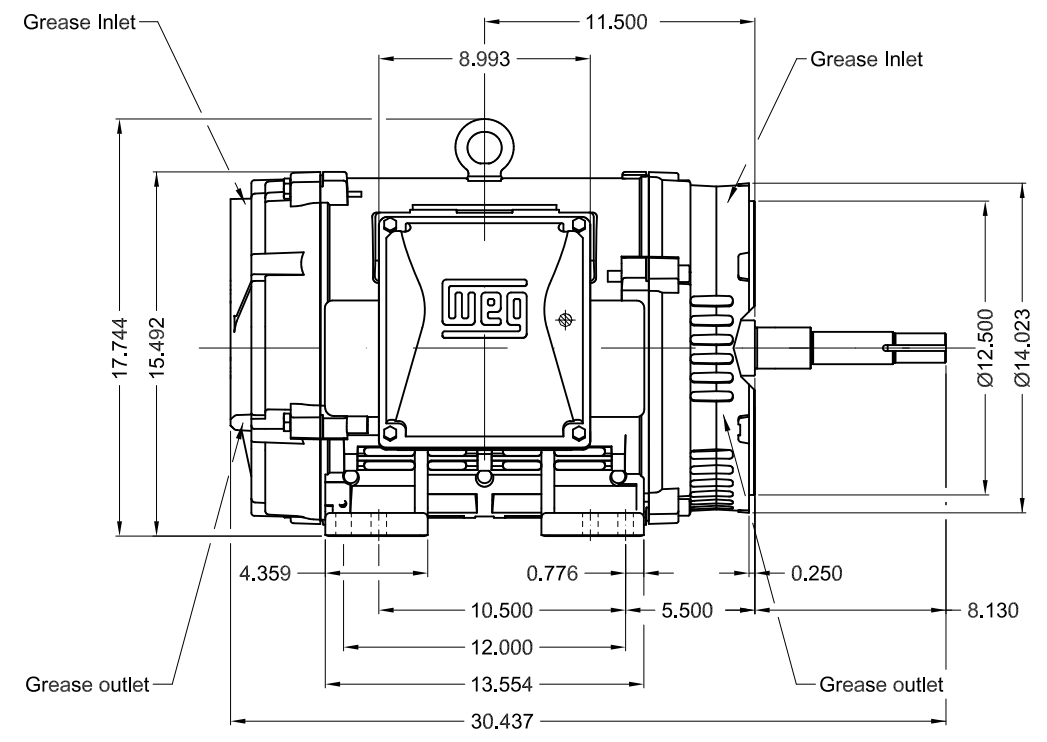
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Performed by			Page 21 / 21	Revision
Checked by				
Date	13/04/2022			



Grounding for leads 5.2-35 mm² / 10-2 AWG
Main terminal box
NPT 2"



60 HP 02 Poles 60 Hz A

1:8

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W40 CLOSE COUPLED PUMP JP TYPE PREM. FT. FRAME 324/6JP IP23 ODP					
CHECKED							
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)

PREVIEW



MODEL 060360T3G326JP-W40
MADE IN BRAZIL
14490330

WEG **W40 NEMA**
CC029A Premium
Inverter Duty Motor

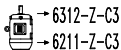
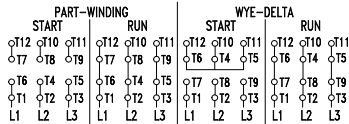


IEC 60034-1
MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 324/6JP	HP(kW) 60(45)		Hz 60
V 460		A 71.0		IP23
NEMA NOM EFF		93.6	%	RPM 3560
ENCL ODP	DUTY CONT.		INS. CL. F Δ T 80 K	
PF 0.85		DES B	CODE G	AMB. 40°C
SF 1.25		SFA 88.8		ALT 1000 m.a.s.l.
50HP 37kW 50Hz 380V 69.8A 2960RPM SF1.00 EFF 93.7% (IE3)				



MOBIL POLYREX EM
21 g 19658 h

476 Lbs