DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22

Frame	: 71	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: S1	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 12.3 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0078 sq.ft.lb
Design	: N		

Output [HP]		0.5	0.5	0.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	380	415
Rated current [A]		1.65/0.826	0.928	0.916
L. R. Amperes [A]		11.2/5.62	6.31	6.23
LRC [A]		6.8	6.8	6.8
No load current [A]		0.920/0.460	0.450	0.550
Rated speed [RPM]		3420	2760	2800
Slip [%]		5.00	8.00	6.67
Rated torque [ft.lb]		0.768	0.951	0.938
Locked rotor torque [%]		270	200	240
Breakdown torque [%]		270	200	240
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level²		60.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%			
	50%	67.0	70.0	69.0
	75%	72.0	72.0	72.0
	100%	73.0	73.0	73.0
Power Factor	25%			
	50%	0.56	0.63	0.54
	75%	0.68	0.75	0.67
	100%	0.77	0.83	0.77

		Drive end	Non drive end
Bearing type	:	6202 ZZ	6202 ZZ
Sealing	:	Oil Seal	Oil Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads
Max. traction : 18 lb
Max. compression : 30 lb

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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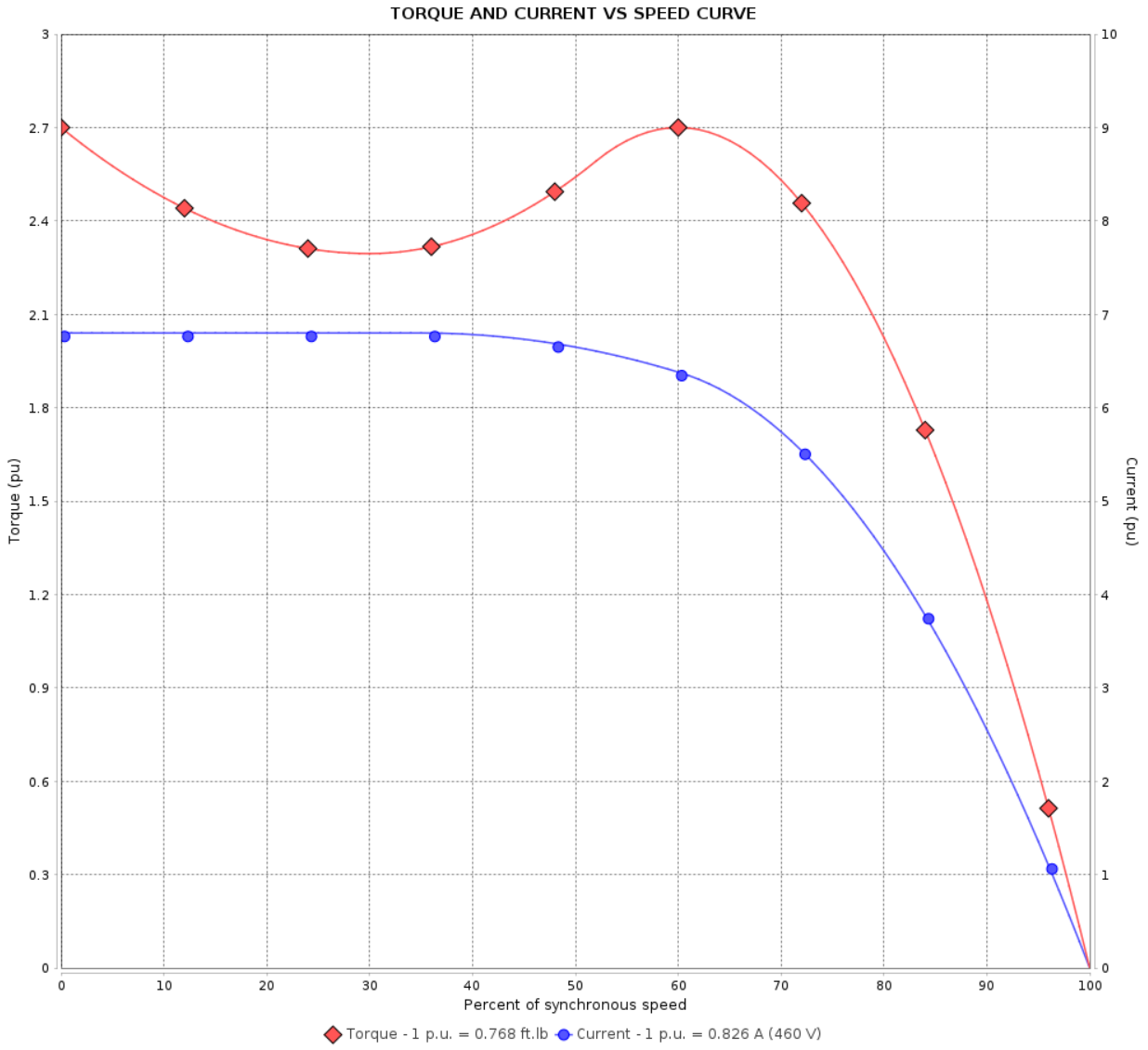
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 1.65/0.826 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.768 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3420 rpm	Design	: N
Locked rotor time	: 16s (cold) 9s (hot)		

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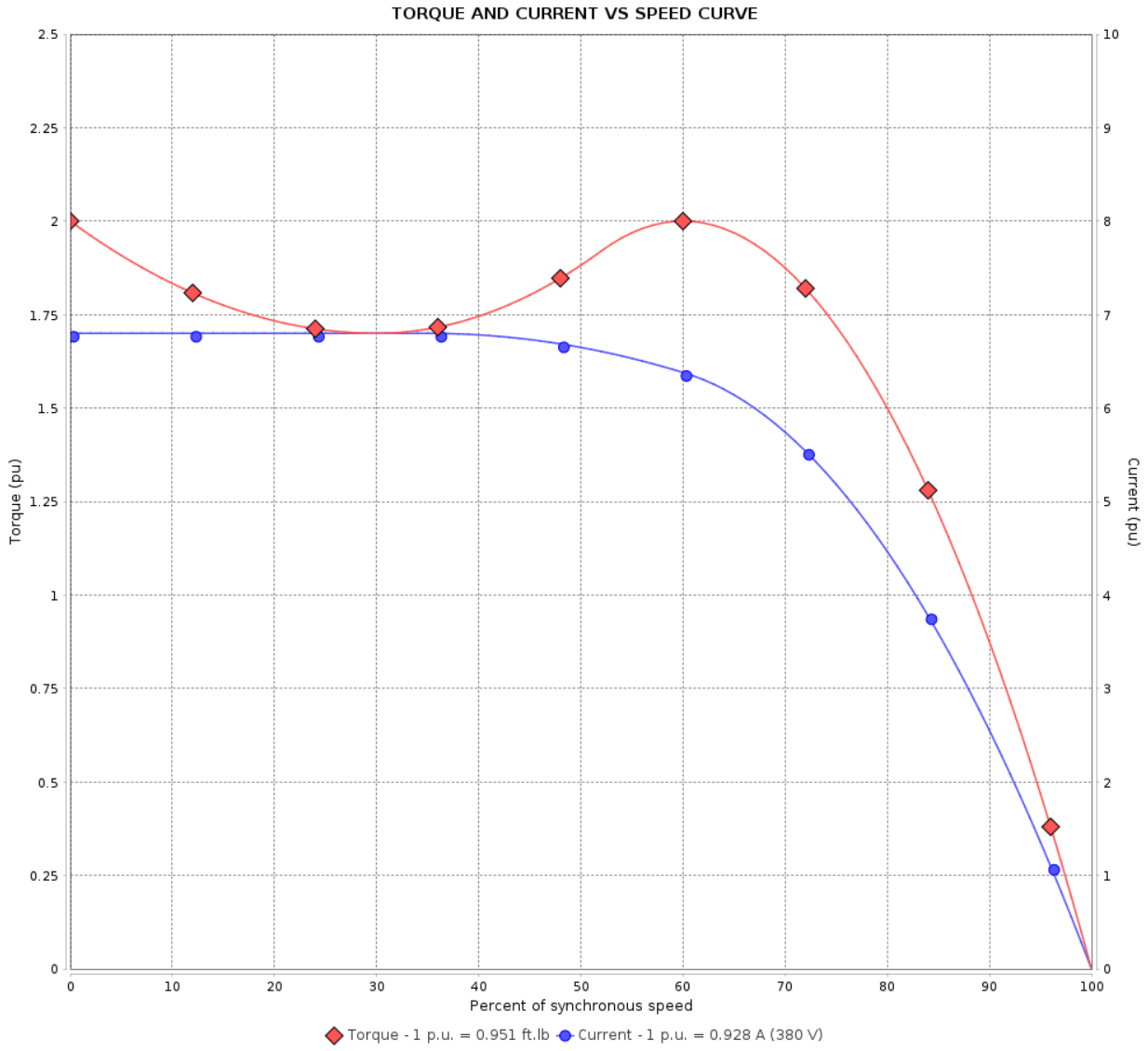
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 380 V 50 Hz 2P

Rated current	: 0.928 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.951 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2760 rpm	Design	: N

Locked rotor time : 16s (cold) 9s (hot)

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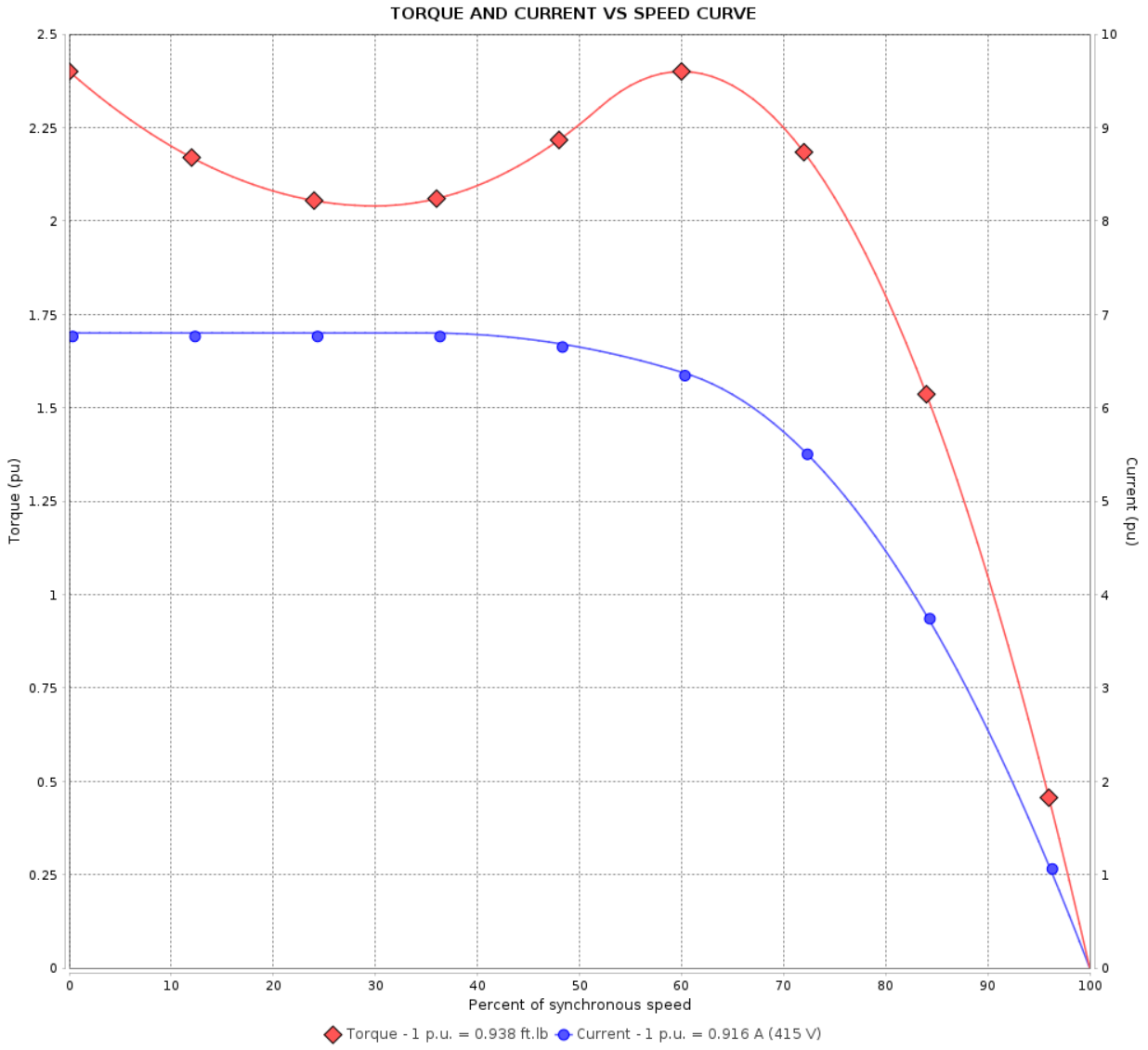
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 415 V 50 Hz 2P		
Rated current	: 0.916 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.938 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2800 rpm	Design	: N
Locked rotor time	: 16s (cold) 9s (hot)		

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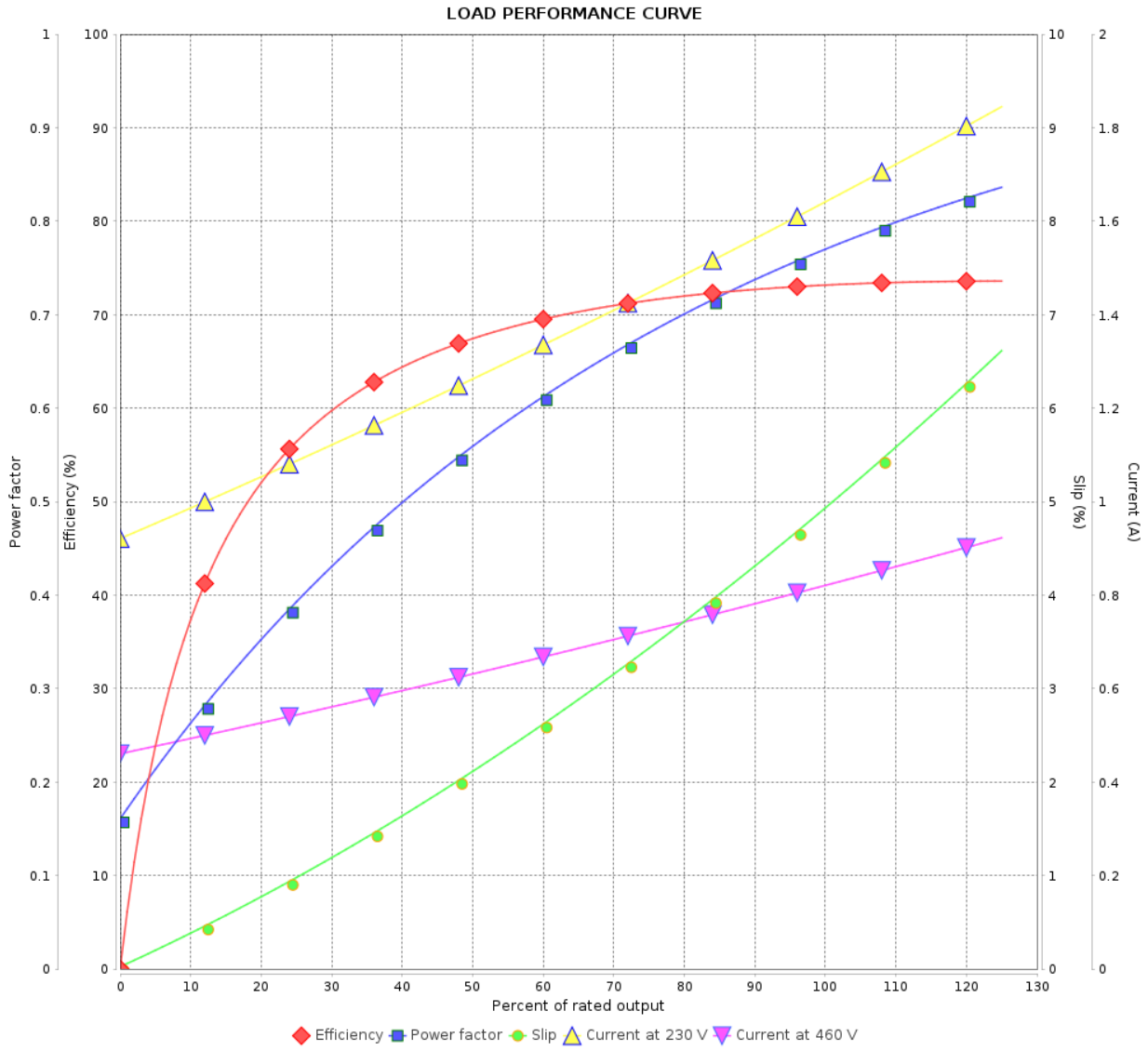
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 1.65/0.826 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.768 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3420 rpm	Design	: N

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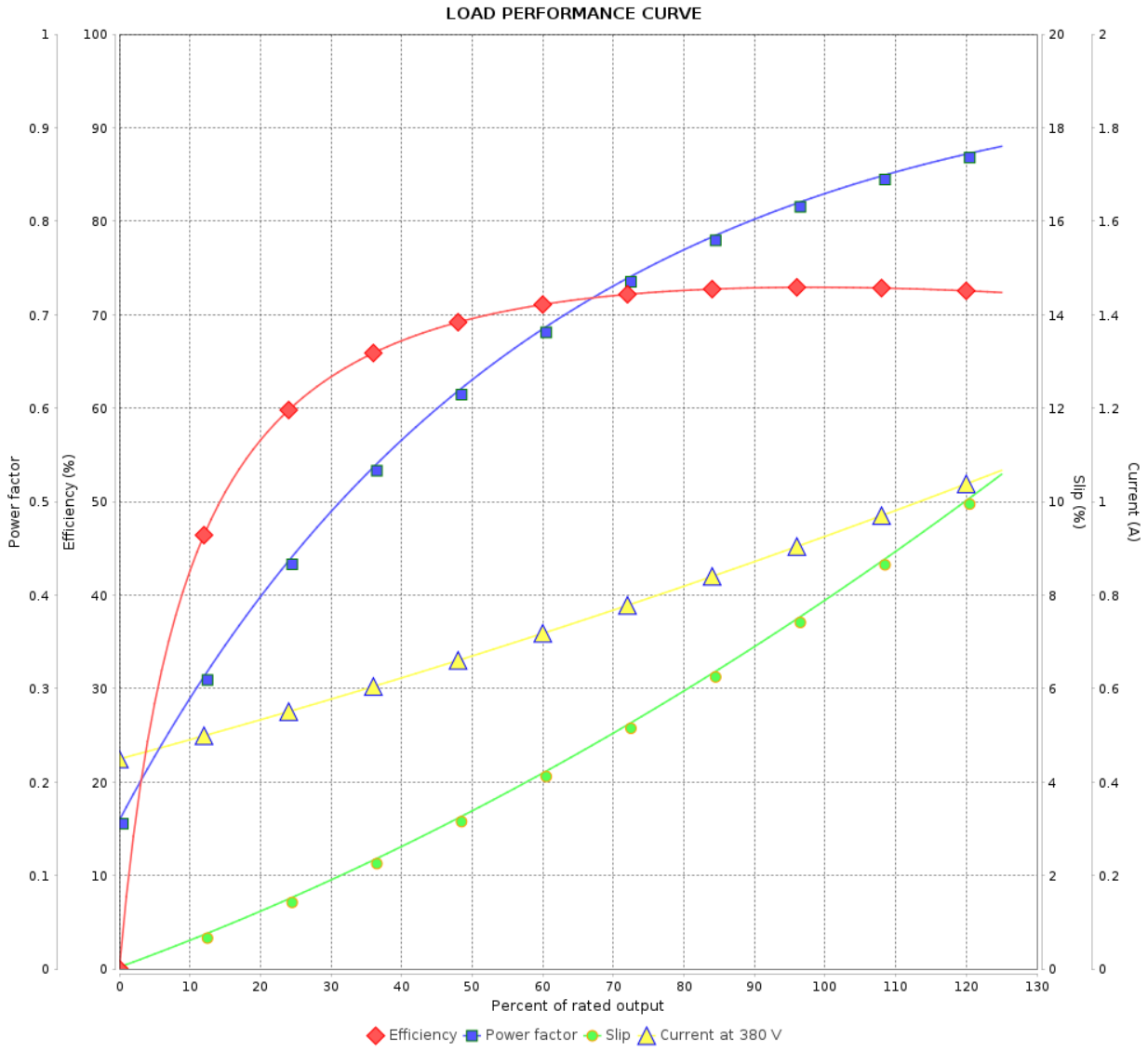
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 380 V 50 Hz 2P

Rated current	: 0.928 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.951 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2760 rpm	Design	: N

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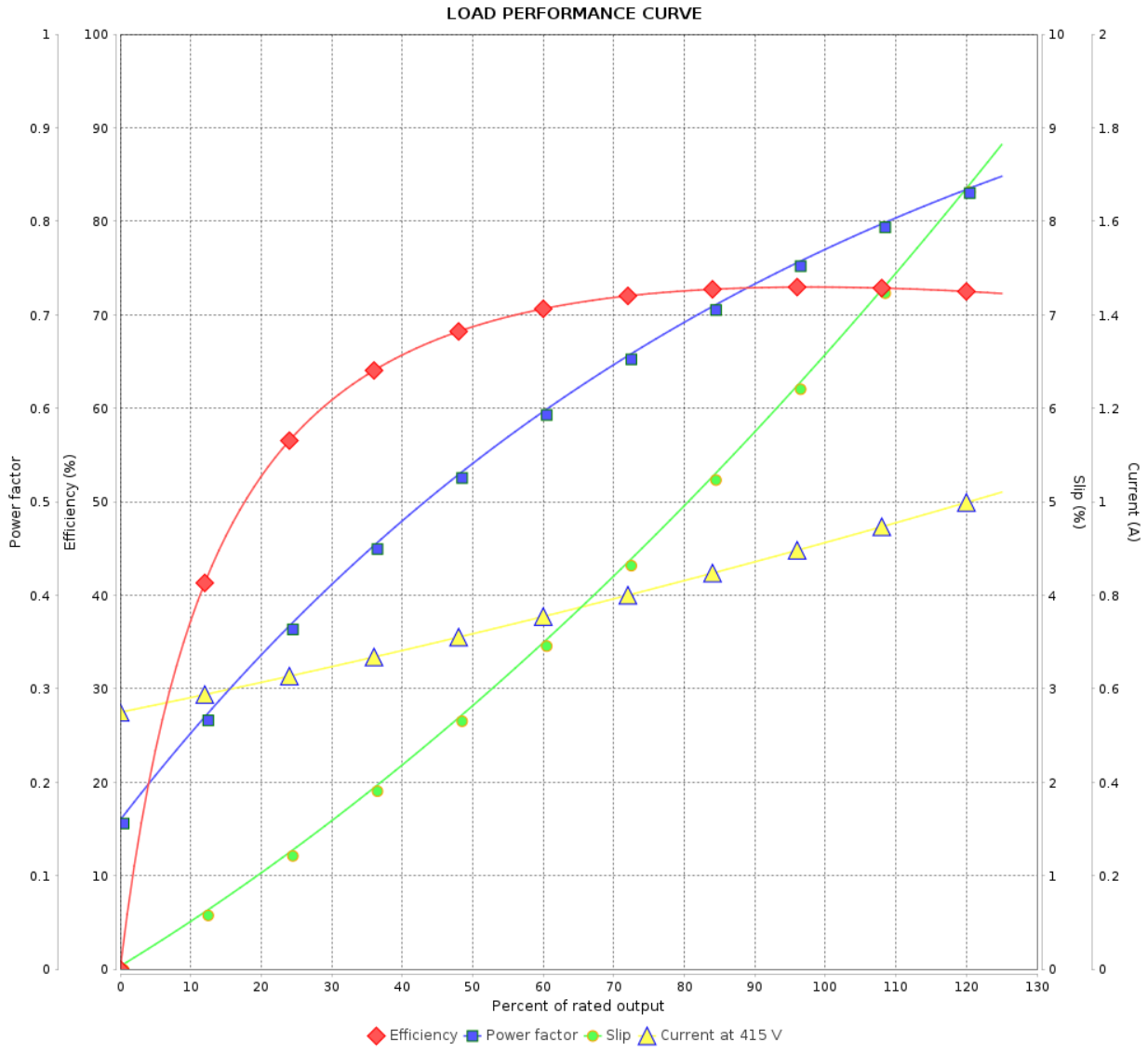
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Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 415 V 50 Hz 2P		
Rated current	: 0.916 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.938 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2800 rpm	Design	: N

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
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Performance	: 230/460 V 60 Hz 2P

Rated current	: 1.65/0.826 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.768 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3420 rpm	Design	: N

Heating constant	
Cooling constant	

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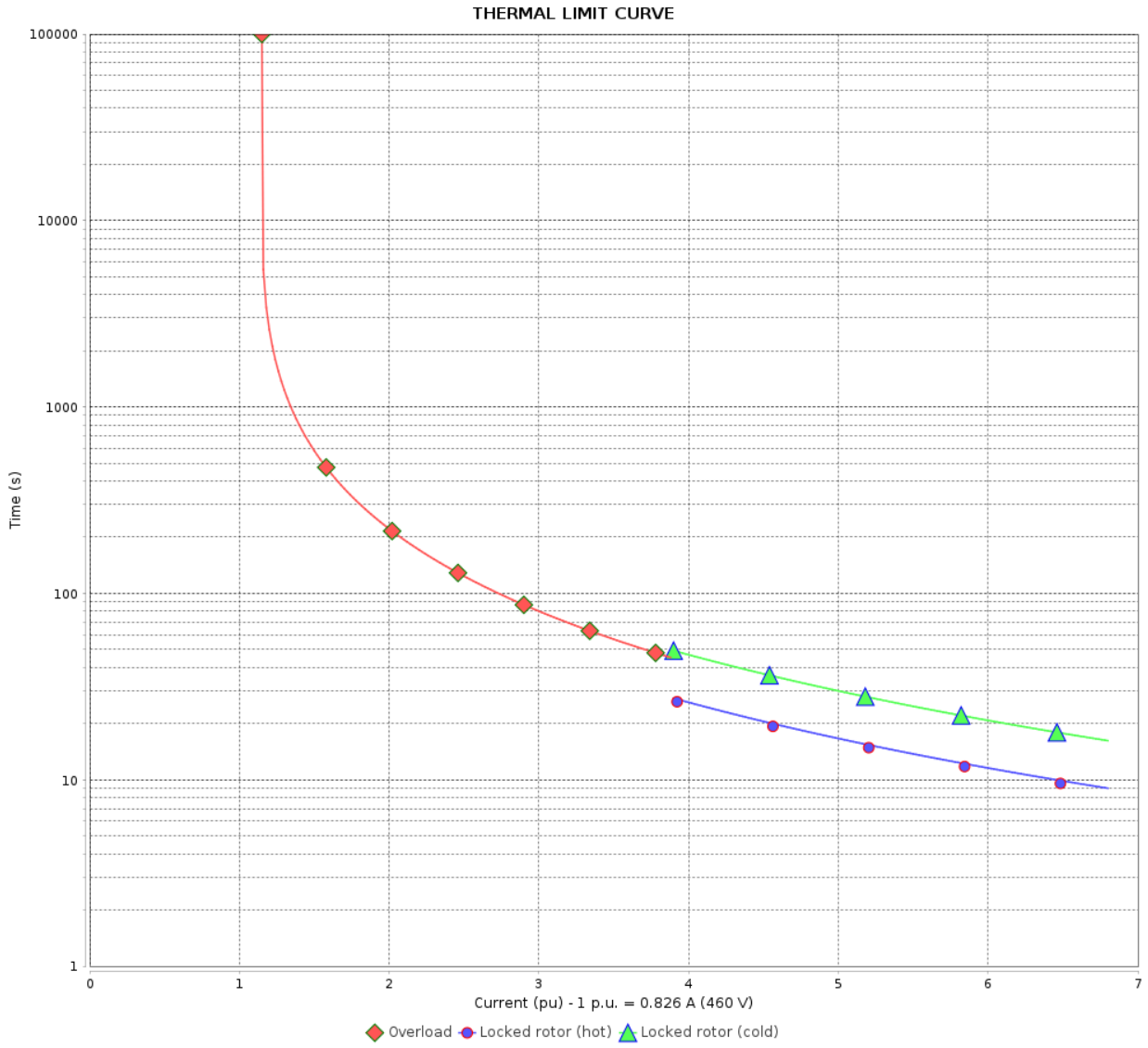
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Performance	: 380 V 50 Hz 2P

Rated current	: 0.928 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.951 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2760 rpm	Design	: N

Heating constant	
Cooling constant	

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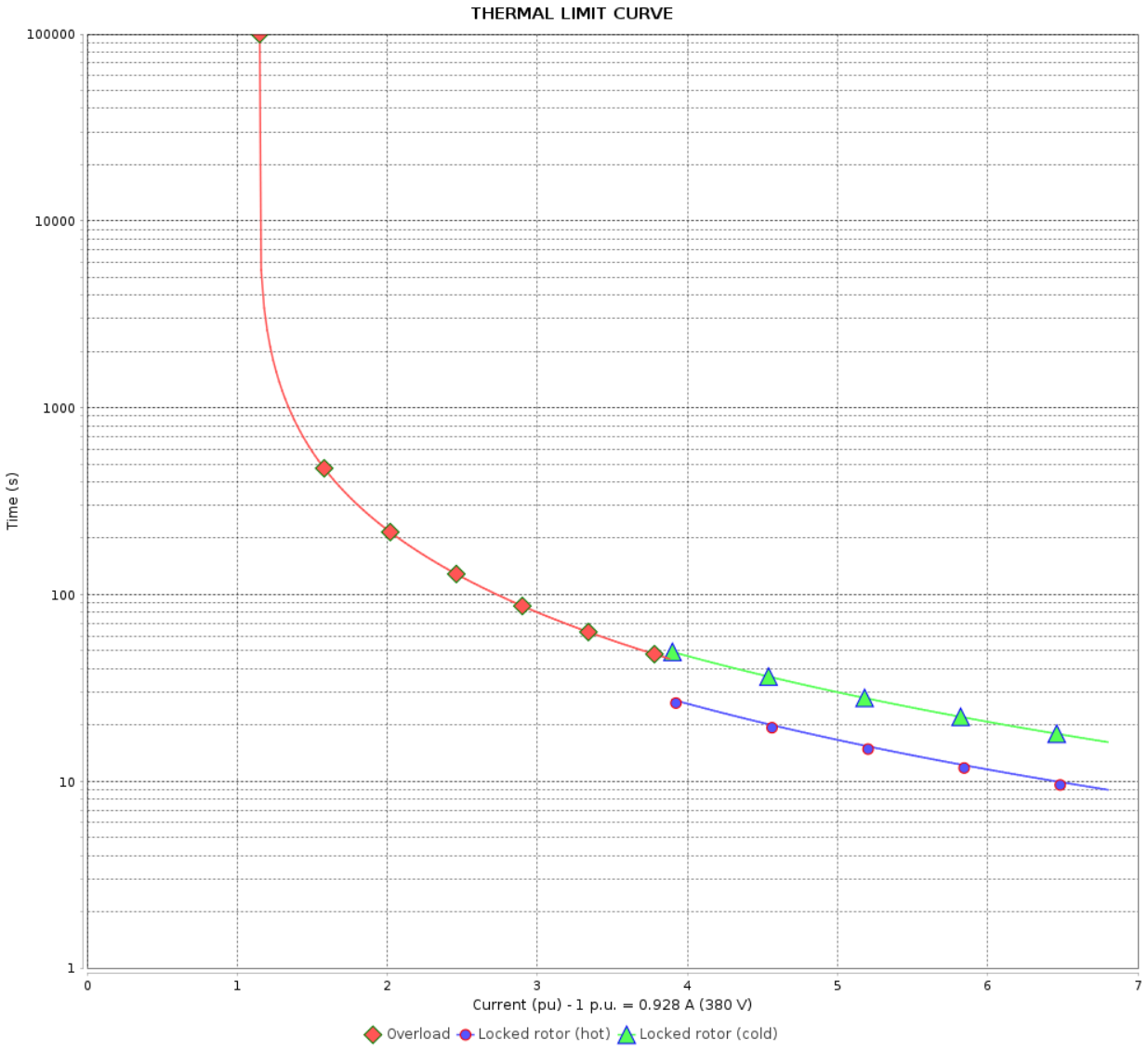
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Performance	: 415 V 50 Hz 2P

Rated current	: 0.916 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.938 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 2800 rpm	Design	: N

Heating constant	
Cooling constant	

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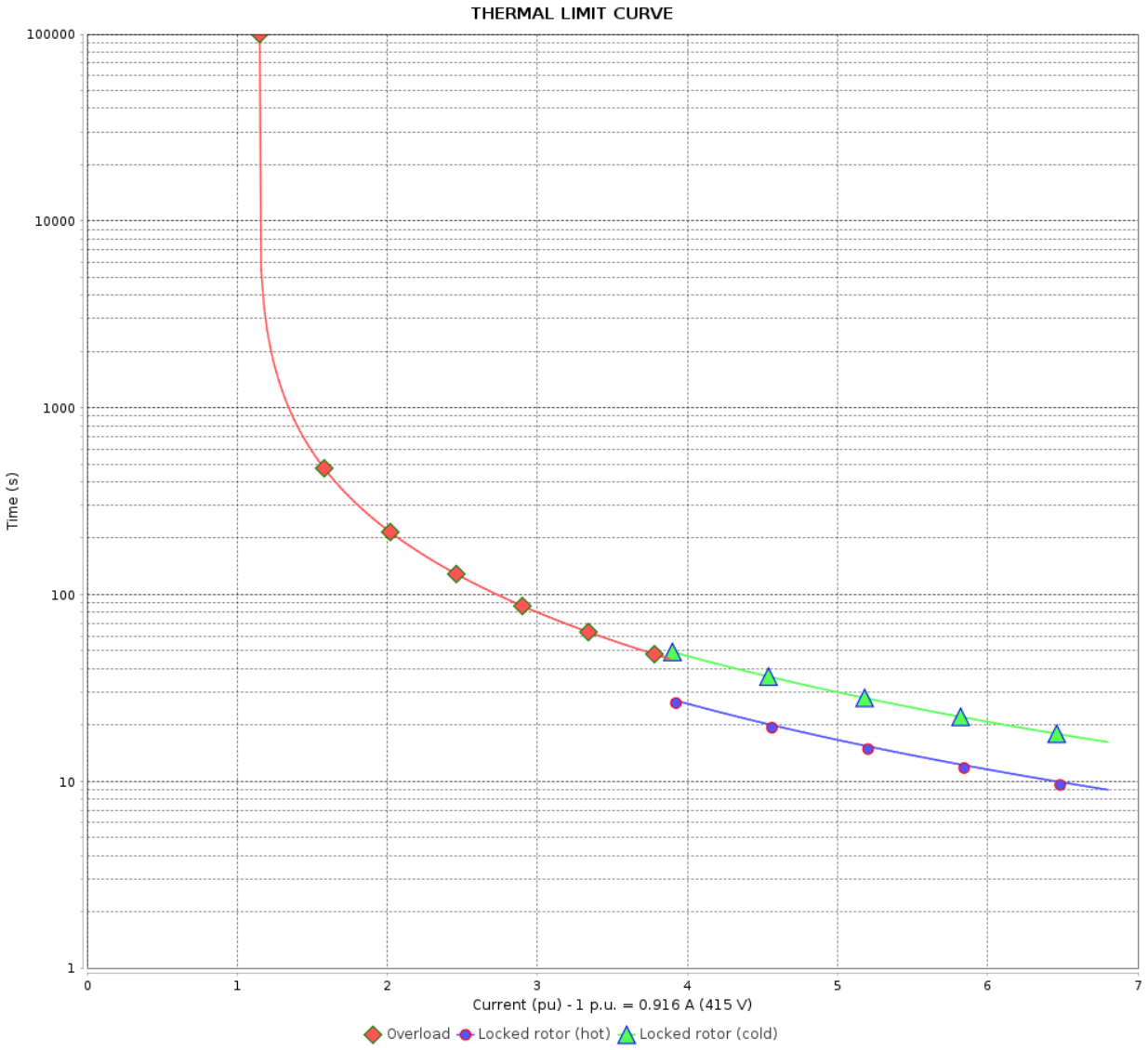
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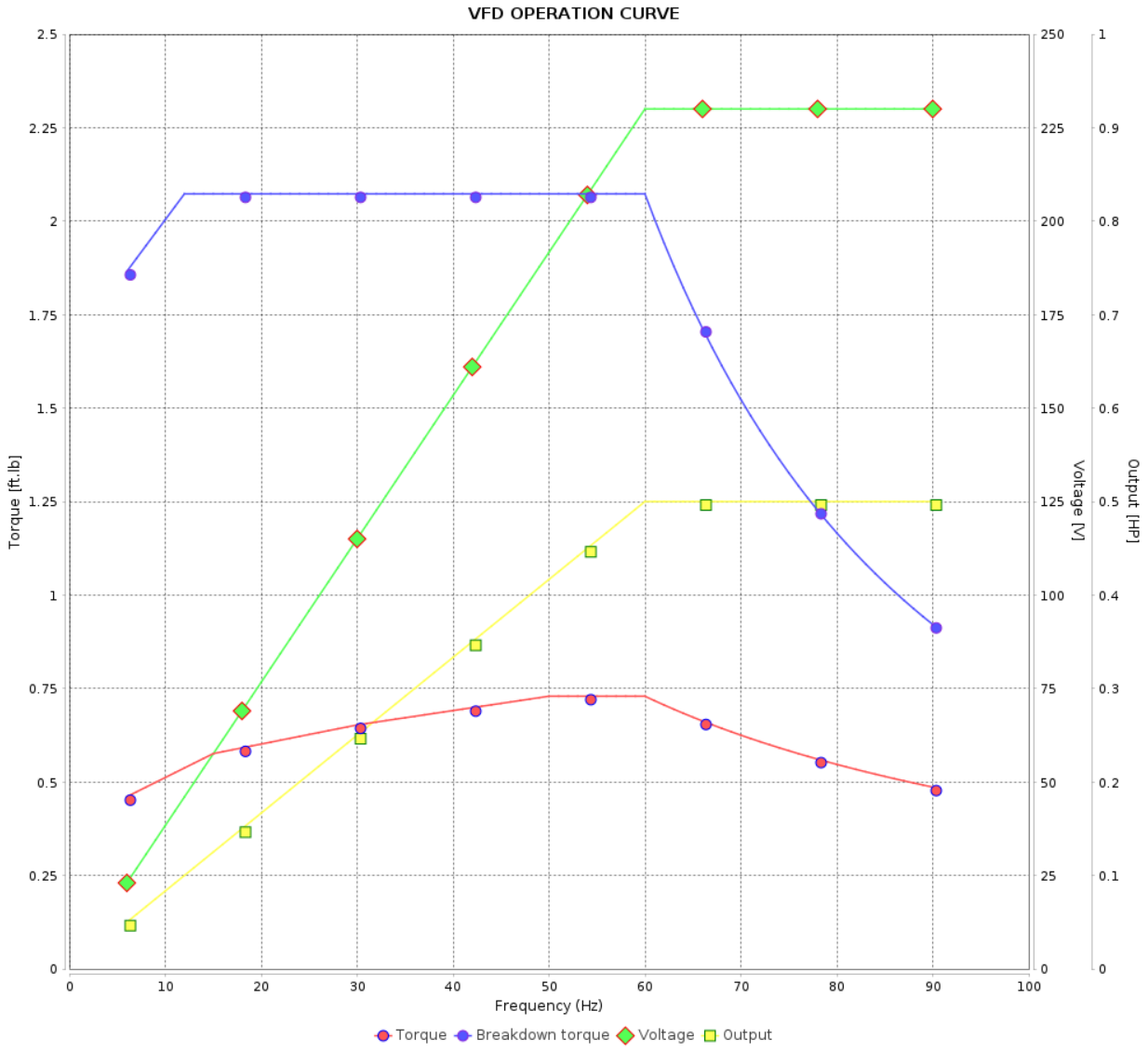
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
		Catalog # :	.3736EP3EAL71-W22



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 1.65/0.826 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.768 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 3420 rpm	Design	: N

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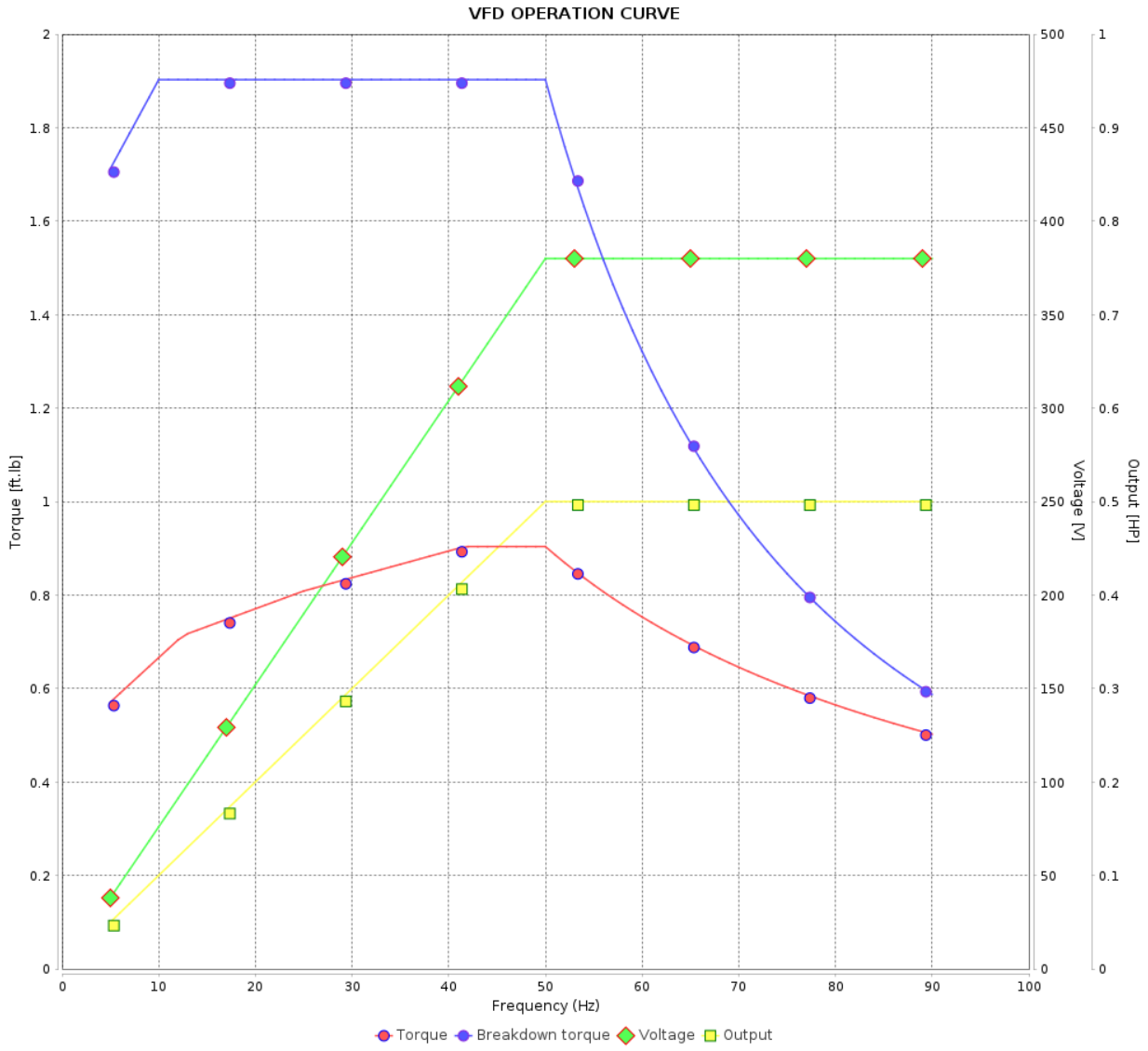
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VFD OPERATION CURVE

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Customer :

Product line	: Multimounting High Efficiency Three-Phase	Product code :	13982766
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Performance	: 380 V 50 Hz 2P		
Rated current	: 0.928 A	Moment of inertia (J)	: 0.0078 sq.ft.lb
LRC	: 6.8	Duty cycle	: S1
Rated torque	: 0.951 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 2760 rpm	Design	: N

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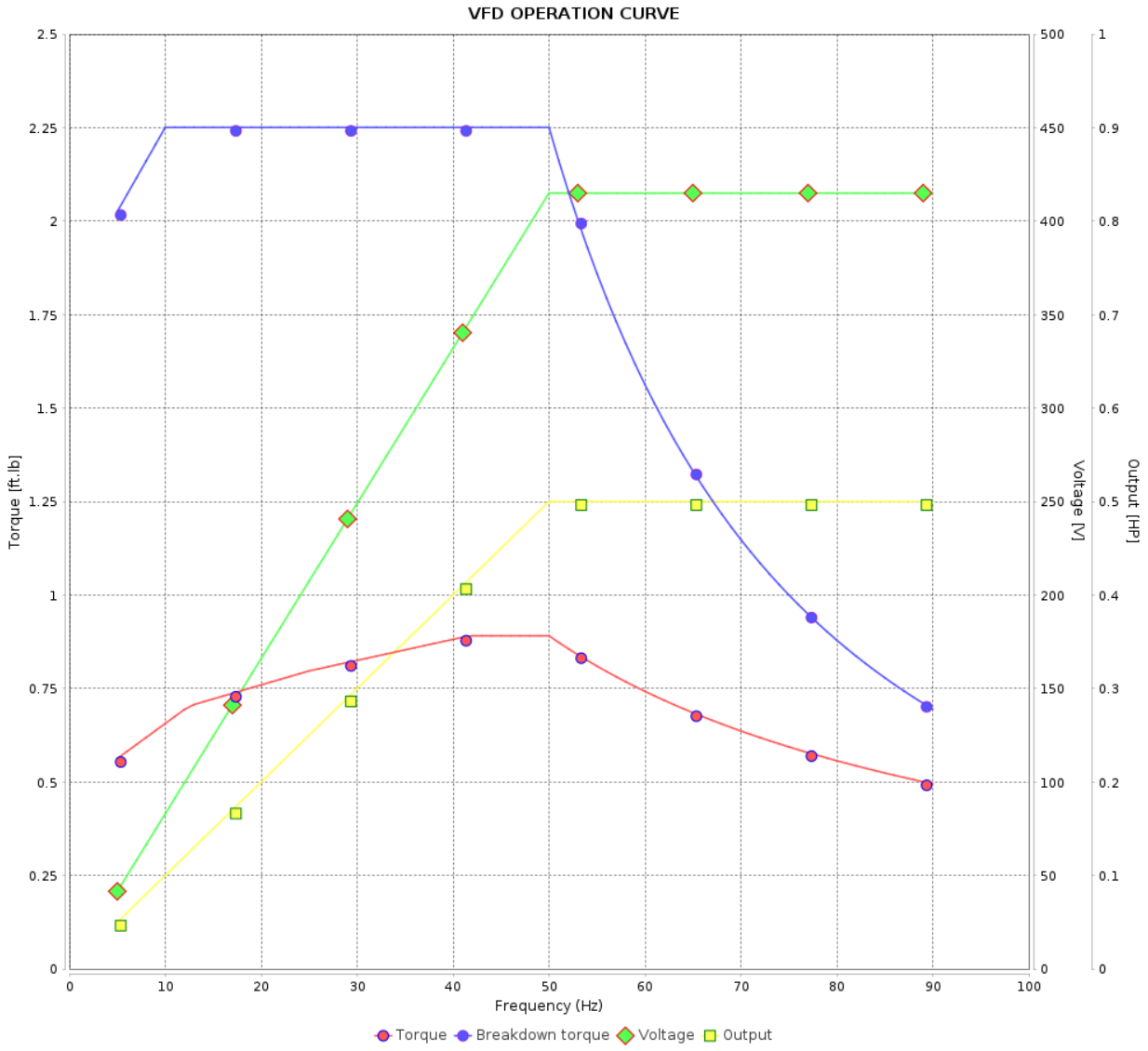
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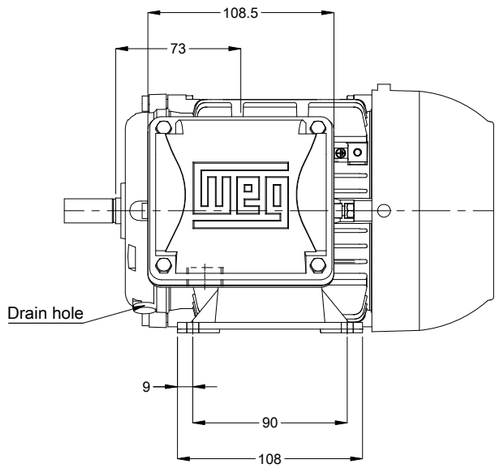


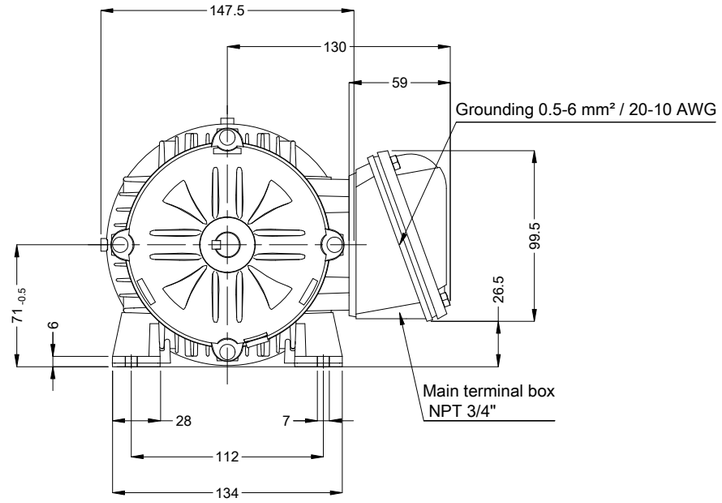
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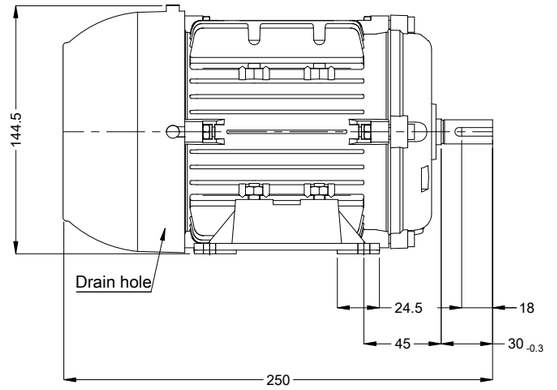
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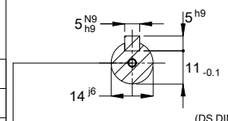


Color RAL 7022

Painting plan 207N

Mounting B3L(E)

DE Shaft End



DM5 WEG WPR-7339

0.5 HP 02 Poles 60 Hz | A

Scale 2 : 7

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR MULTIMOUNTIN HIGH EFF.

FRAME 71 IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

A3

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