DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Multimounting IE3 Three-Phase

Product code : 13984006
Catalog # : 00136ET3WAL80-W22

Frame	: 80	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	: 33.1 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0356 sq.ft.lb
Design	: N		

Output [HP]		1.5	1.5	1.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		460	220/380	240/415
Rated current [A]		2.08	4.18/2.42	4.12/2.38
L. R. Amperes [A]		19.3	30.9/17.9	32.9/19.0
LRC [A]		9.3	7.4	8.0
No load current [A]		1.10	1.90/1.10	2.25/1.30
Rated speed [RPM]		3465	2820	2855
Slip [%]		3.75	6.00	4.83
Rated torque [ft.lb]		2.27	2.79	2.76
Locked rotor torque [%]		480	340	409
Breakdown torque [%]		470	330	400
Service factor		1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	41s (cold) 23s (hot)	37s (cold) 21s (hot)
Noise level²		62.0 dB(A)	59.0 dB(A)	59.0 dB(A)
Efficiency (%)	25%			
	50%	78.5	82.0	80.0
	75%	81.5	83.7	83.0
	100%	84.0	83.1	83.4
Power Factor	25%			
	50%	0.60	0.66	0.56
	75%	0.71	0.77	0.68
	100%	0.79	0.83	0.77

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	17.3	18.4	18.0
	P2 (0,5;1,0)	12.5	13.4	13.1
	P3 (0,25;1,0)	11.6	12.4	12.1
	P4 (0,9;0,5)	10.9	11.6	11.4
	P5 (0,5;0,5)	6.1	6.5	6.4
	P6 (0,5;0,25)	4.7	5.0	4.9
	P7 (0,25;0,25)	2.9	3.1	3.0

		Drive end	Non drive end
Bearing type	:	6204 ZZ	6203 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads
Max. traction : 91 lb
Max. compression : 124 lb

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

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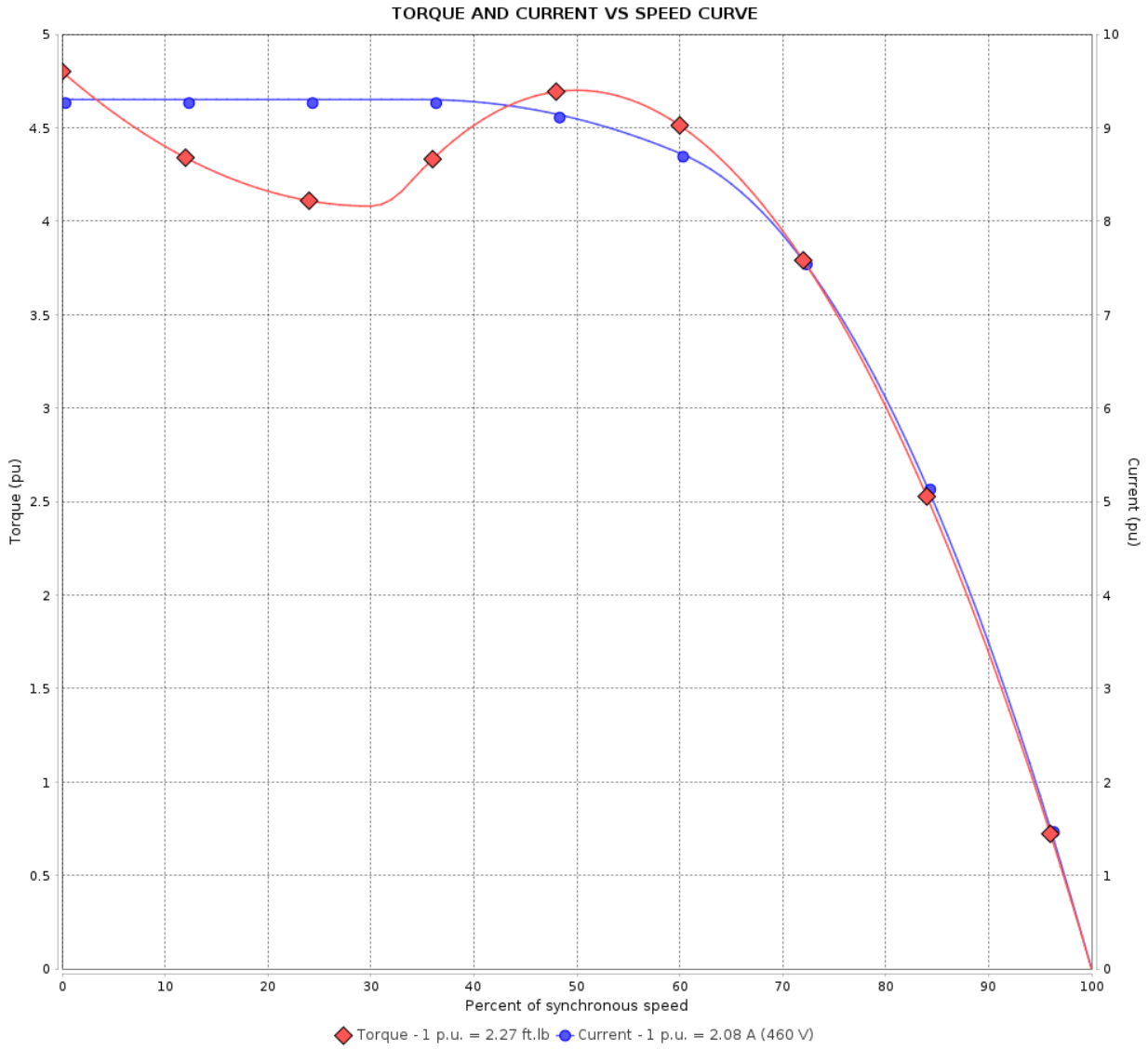
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 460 V 60 Hz 2P

Rated current	: 2.08 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 9.3	Duty cycle	: S1
Rated torque	: 2.27 ft.lb	Insulation class	: F
Locked rotor torque	: 480 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 3465 rpm	Design	: N

Locked rotor time	: 39s (cold) 22s (hot)

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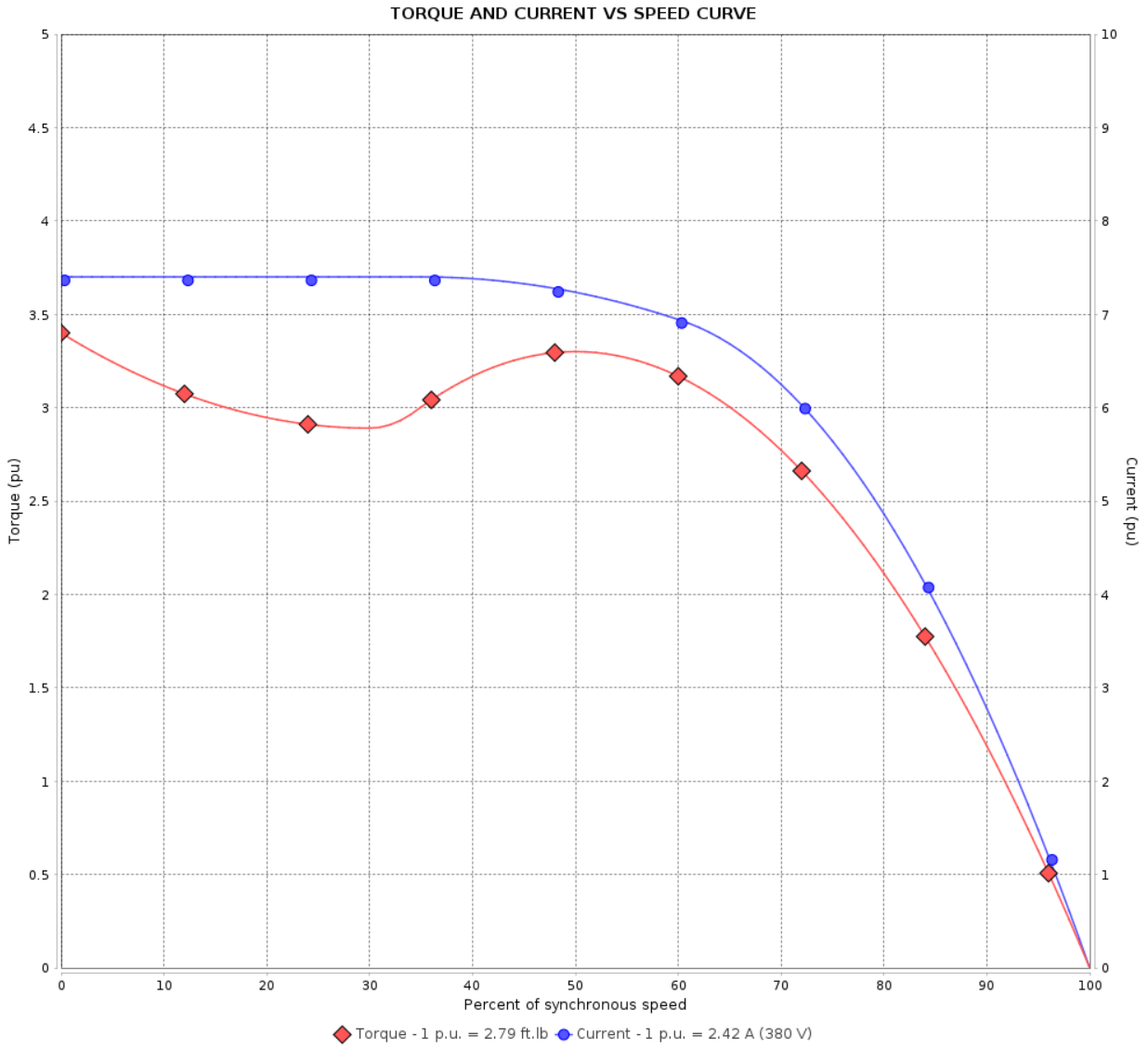
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 220/380 V 50 Hz 2P		
Rated current	: 4.18/2.42 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 2.79 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: N
Locked rotor time	: 41s (cold) 23s (hot)		

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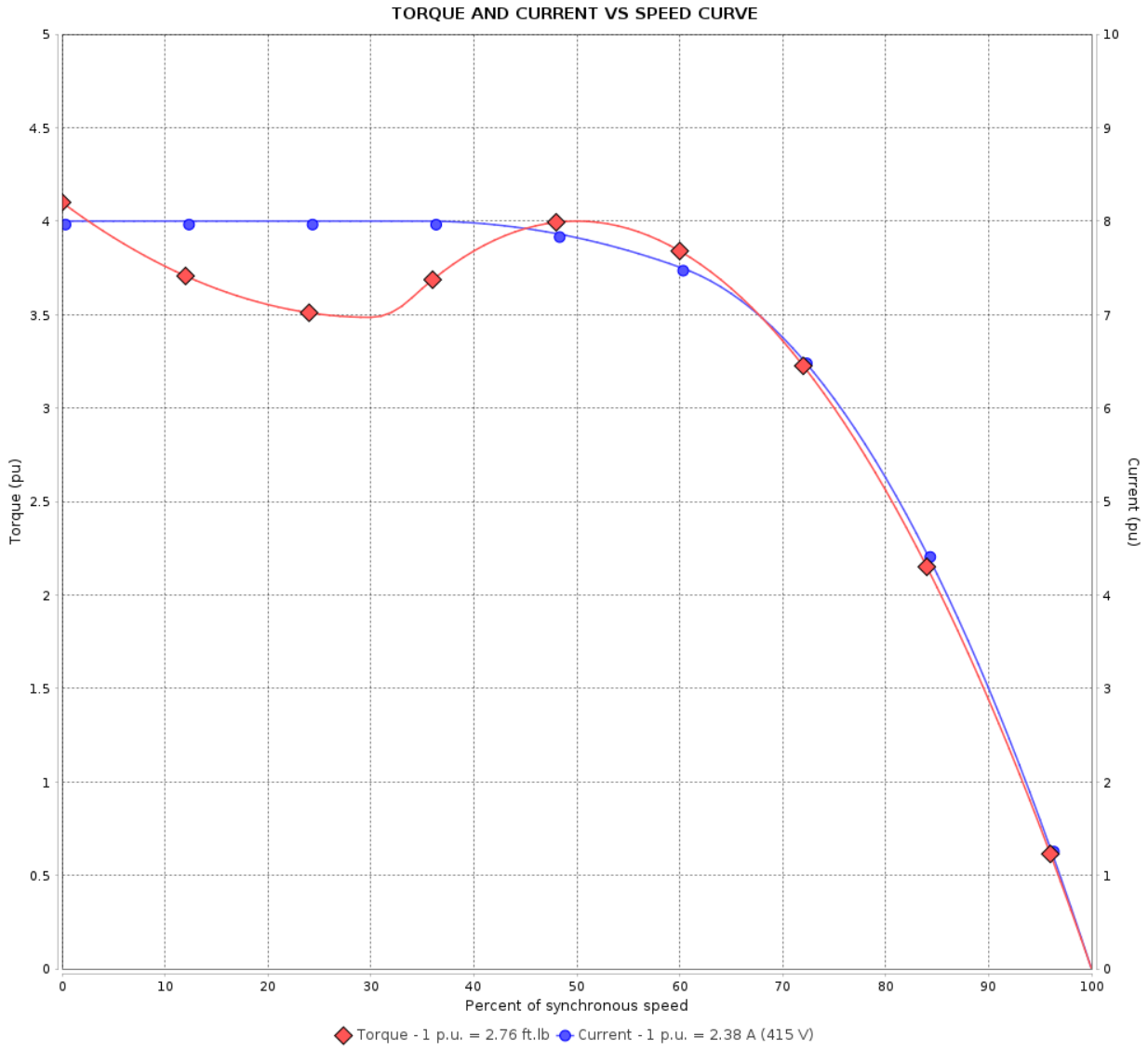
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 240/415 V 50 Hz 2P

Rated current	: 4.12/2.38 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.76 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2855 rpm	Design	: N

Locked rotor time	: 37s (cold) 21s (hot)

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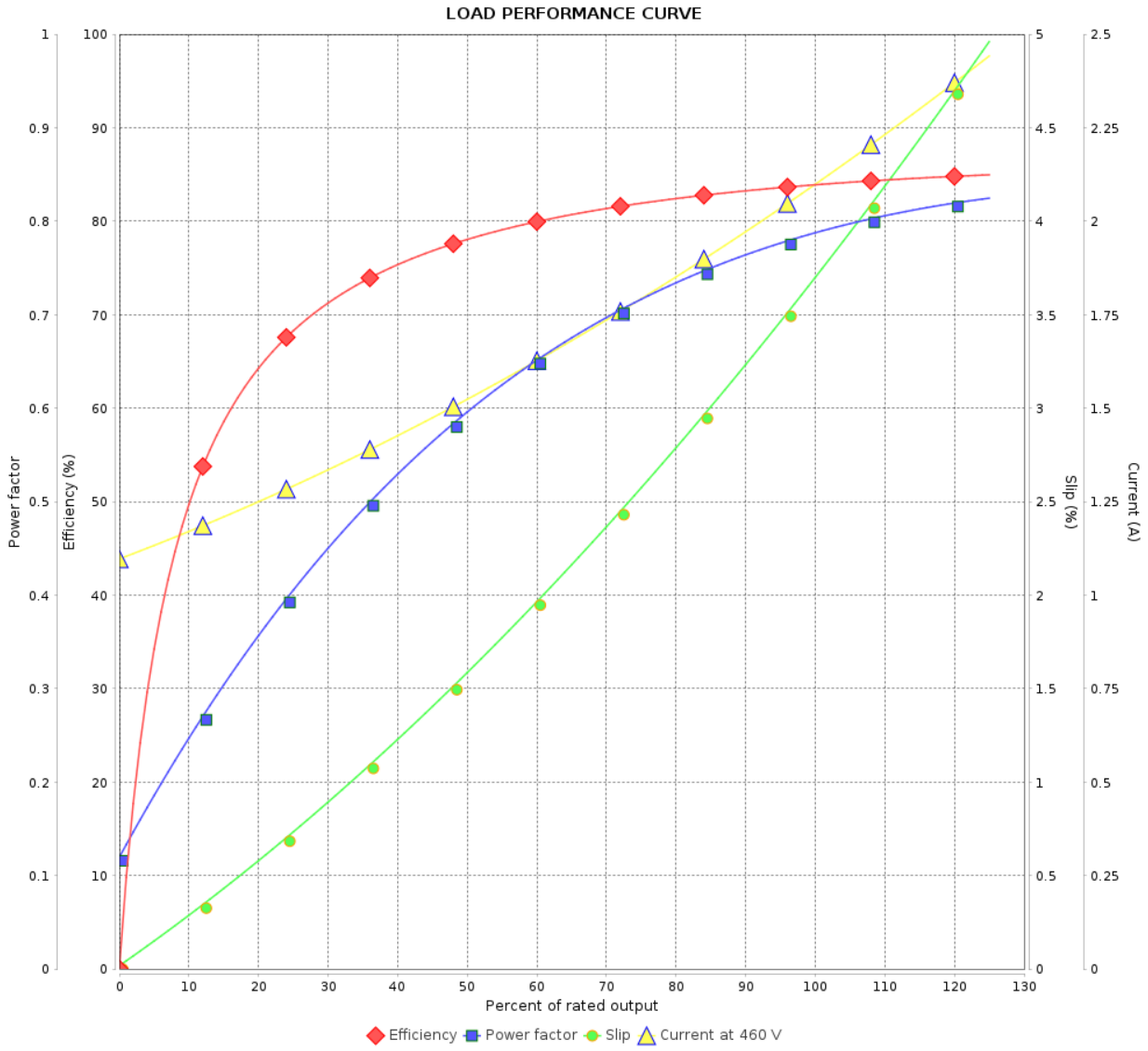
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 460 V 60 Hz 2P		
Rated current	: 2.08 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 9.3	Duty cycle	: S1
Rated torque	: 2.27 ft.lb	Insulation class	: F
Locked rotor torque	: 480 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 3465 rpm	Design	: N

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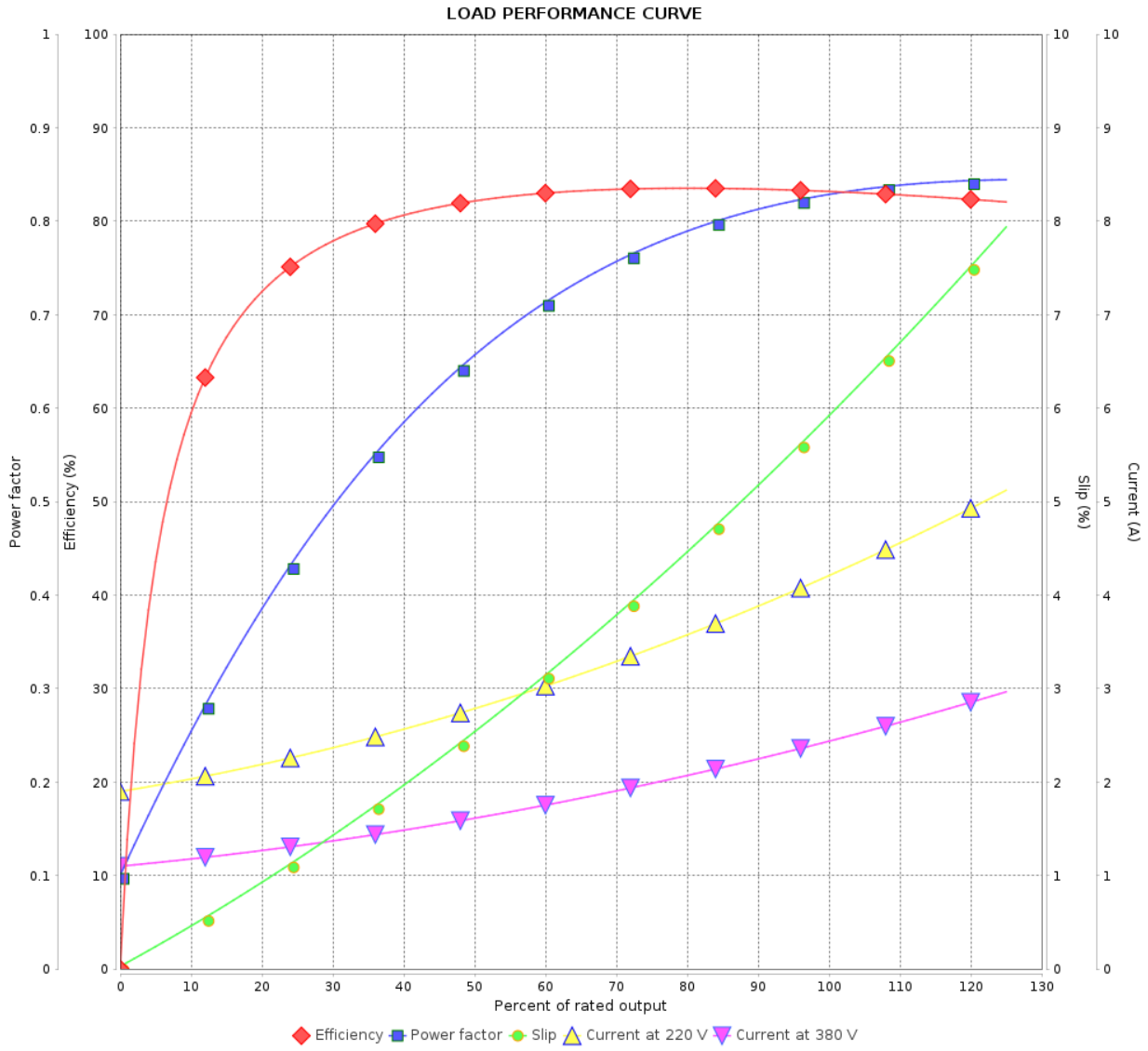
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 220/380 V 50 Hz 2P		
Rated current	: 4.18/2.42 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 2.79 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: N

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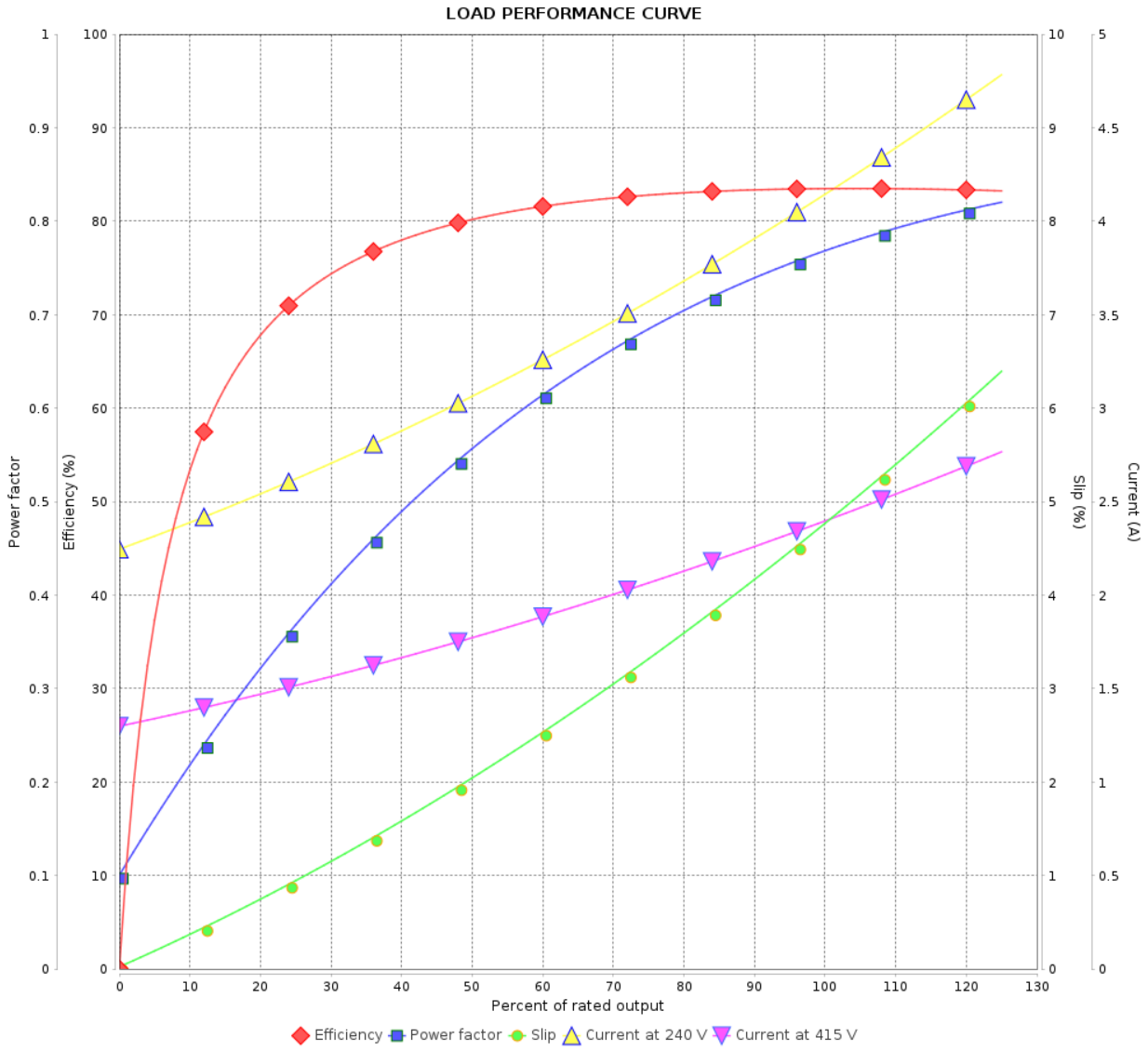
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 240/415 V 50 Hz 2P

Rated current	: 4.12/2.38 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.76 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2855 rpm	Design	: N

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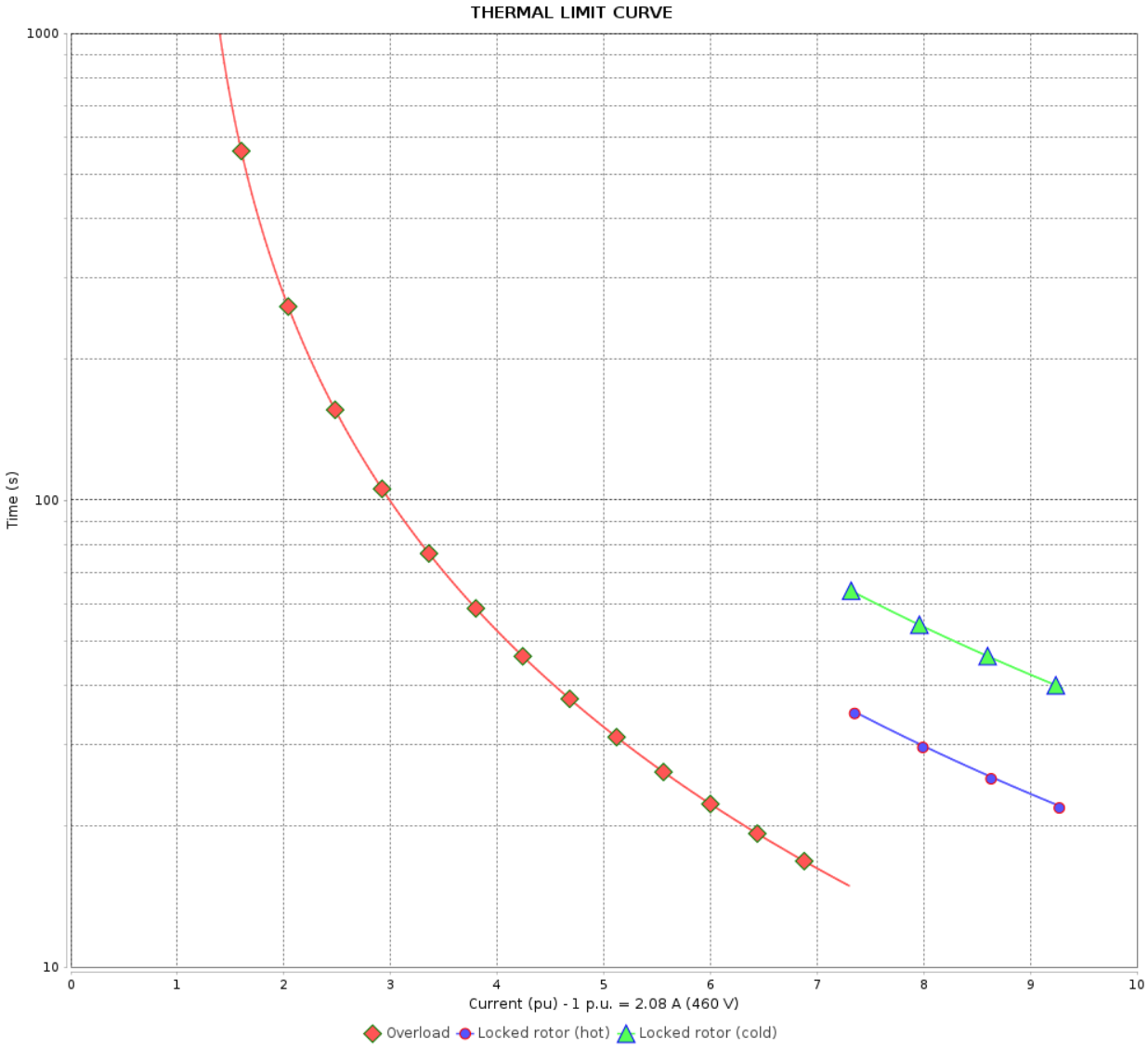
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 460 V 60 Hz 2P		
Rated current	: 2.08 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 9.3	Duty cycle	: S1
Rated torque	: 2.27 ft.lb	Insulation class	: F
Locked rotor torque	: 480 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 3465 rpm	Design	: N
Heating constant			
Cooling constant			

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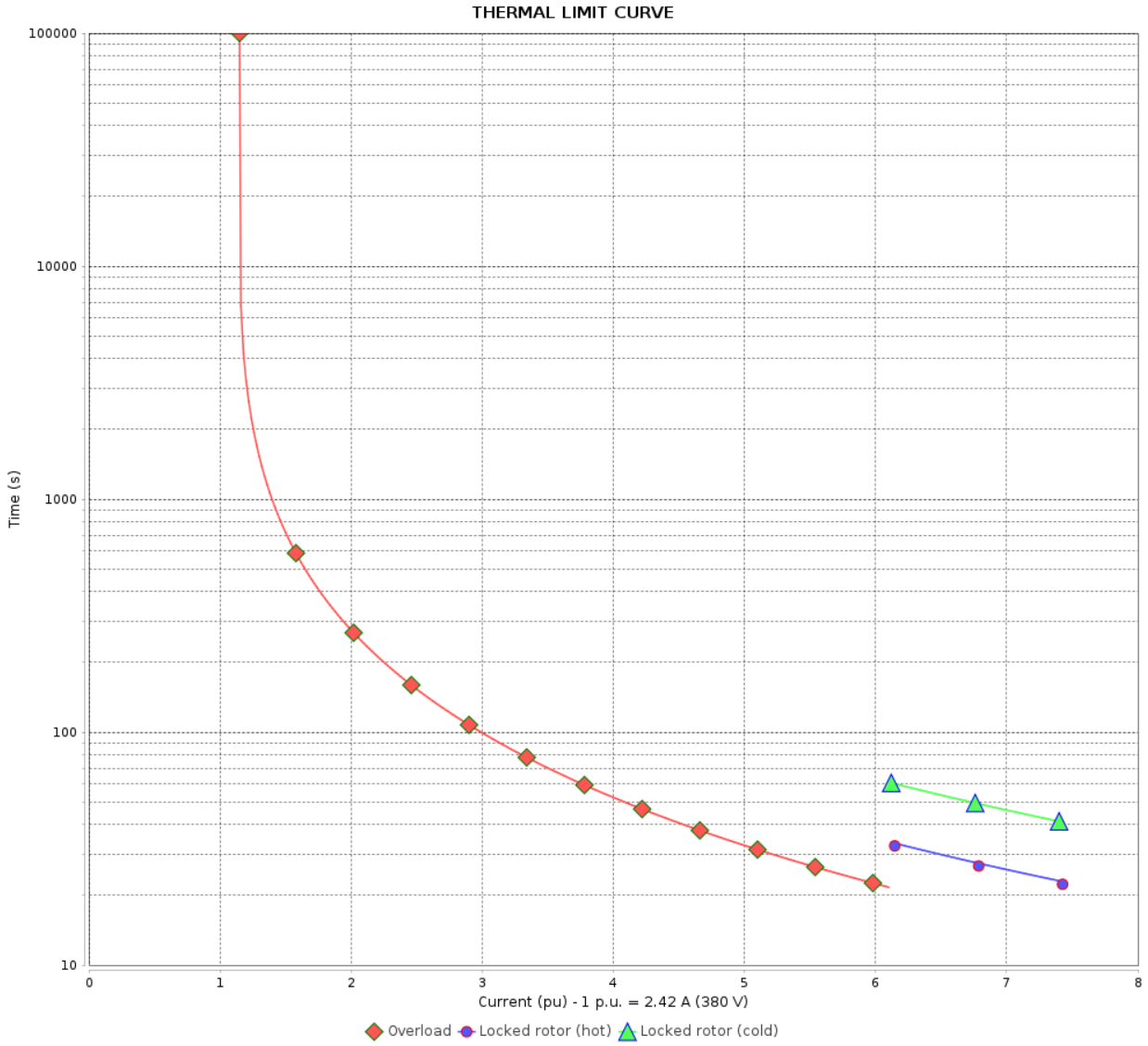
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 220/380 V 50 Hz 2P		
Rated current	: 4.18/2.42 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 2.79 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: N
Heating constant			
Cooling constant			

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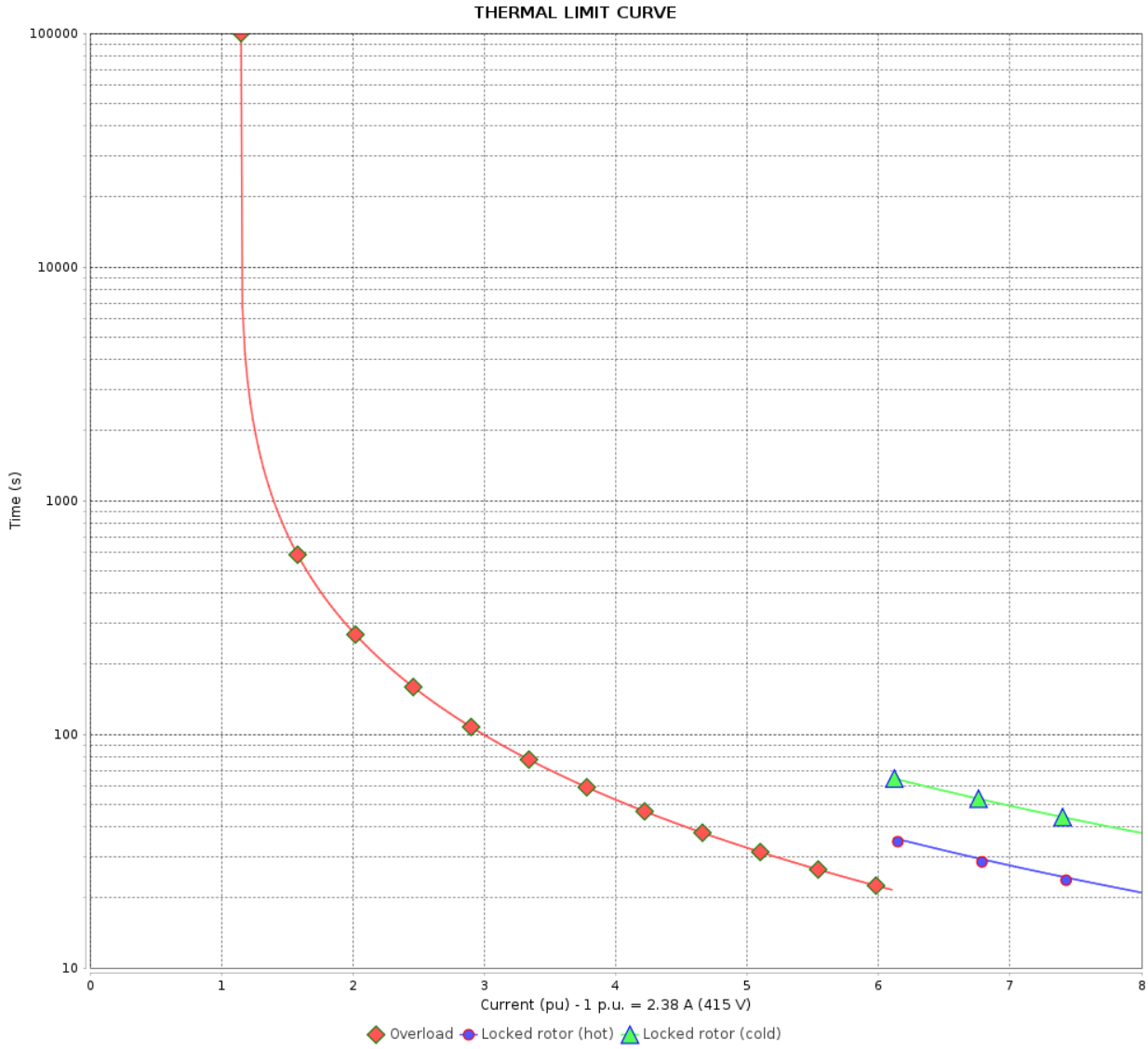
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		Catalog # :	00136ET3WAL80-W22



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LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.76 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2855 rpm	Design	: N
Heating constant			
Cooling constant			

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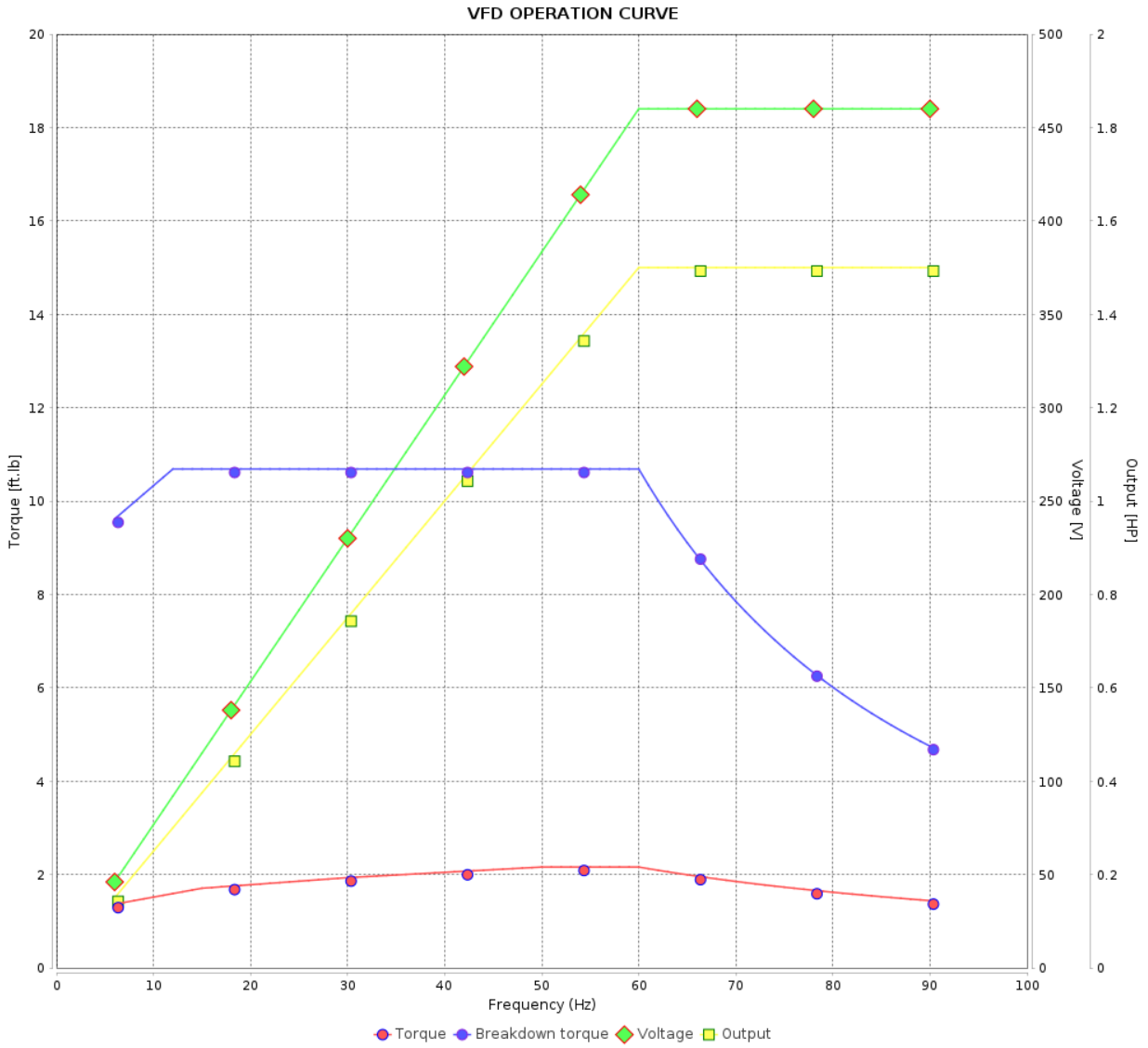
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 460 V 60 Hz 2P		
Rated current	: 2.08 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 9.3	Duty cycle	: S1
Rated torque	: 2.27 ft.lb	Insulation class	: F
Locked rotor torque	: 480 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 3465 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

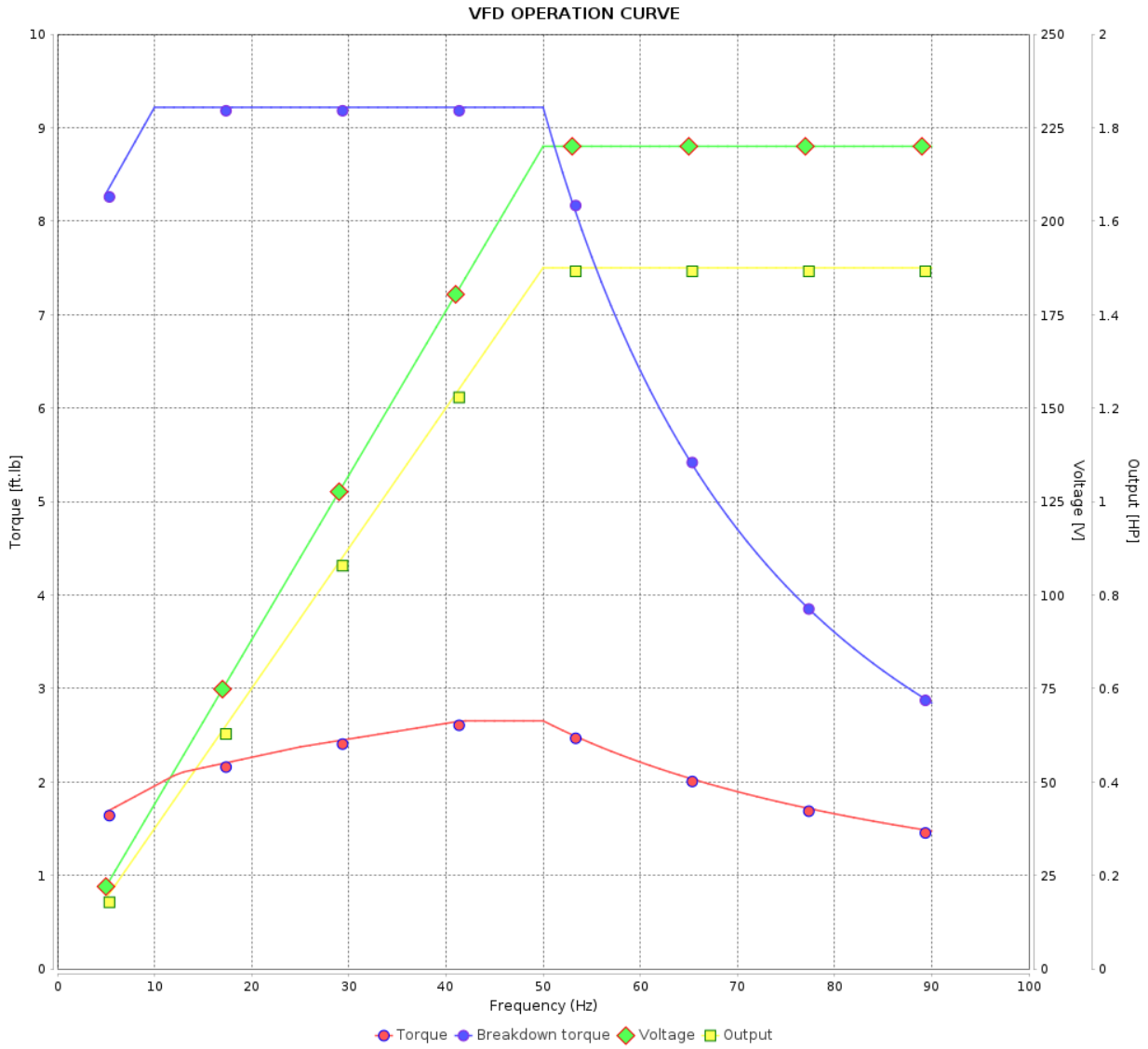
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: Multimounting IE3 Three-Phase	Product code :	13984006
		Catalog # :	00136ET3WAL80-W22



Performance	: 220/380 V 50 Hz 2P		
Rated current	: 4.18/2.42 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 2.79 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2820 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date

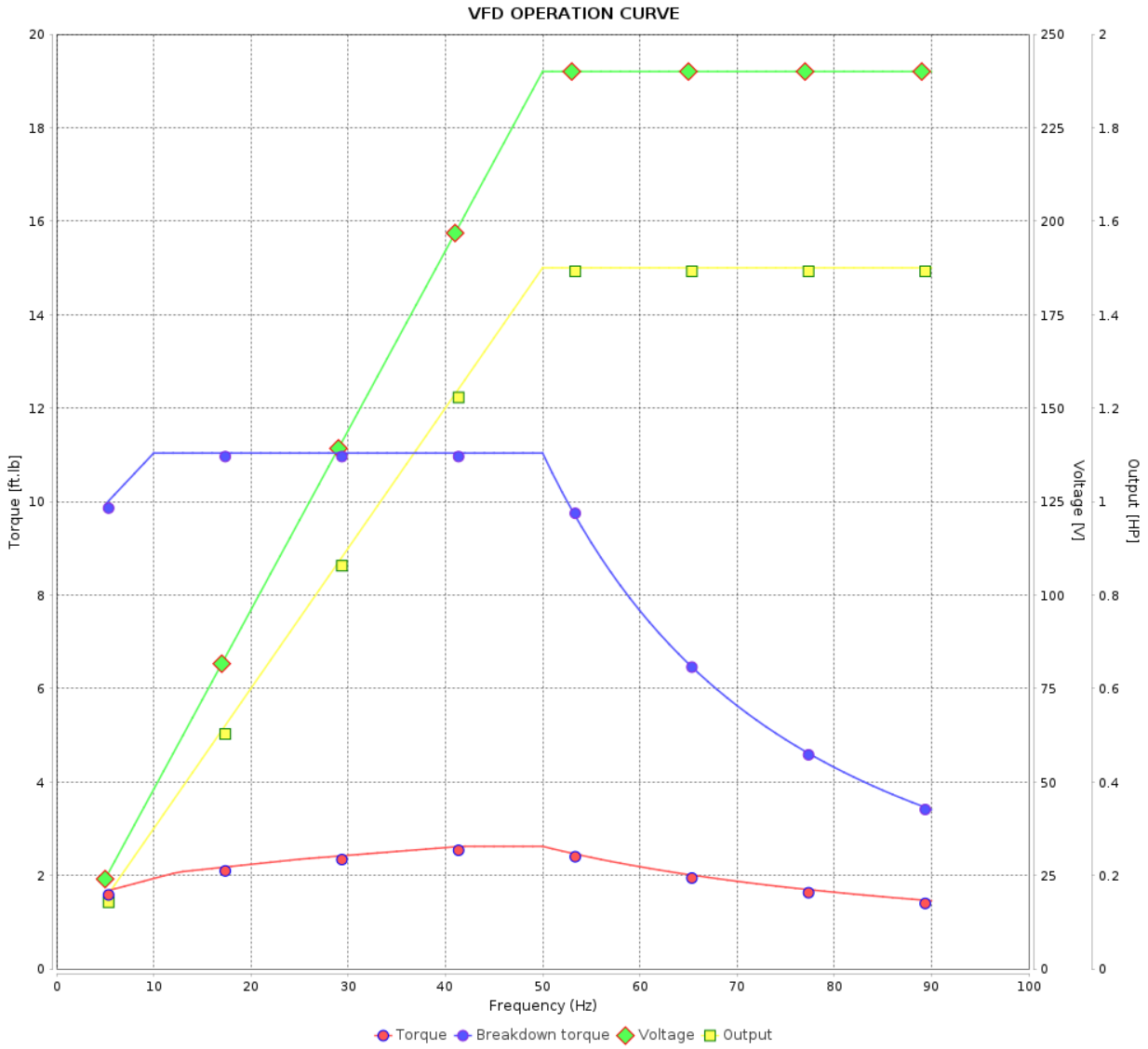
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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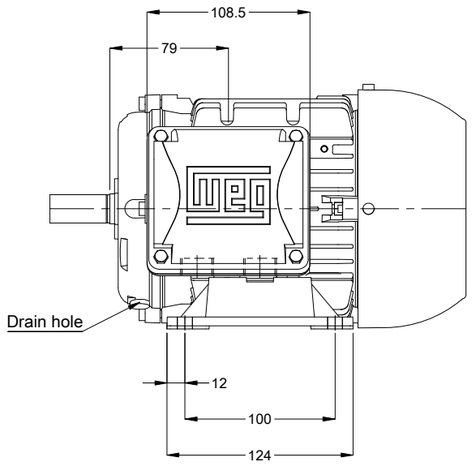


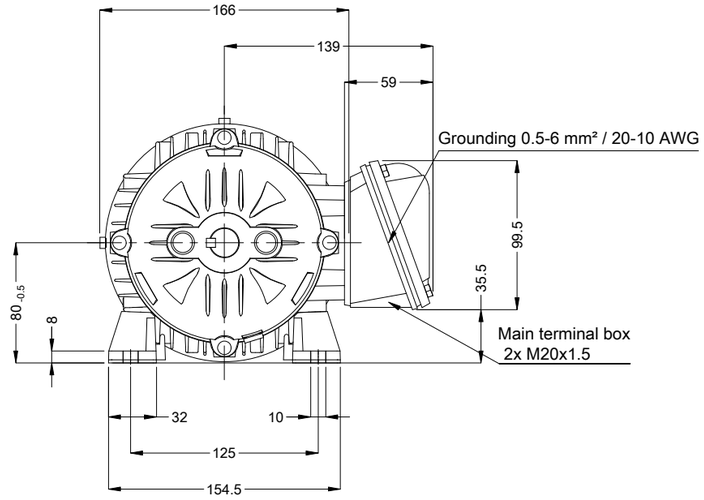
Performance	: 240/415 V 50 Hz 2P		
Rated current	: 4.12/2.38 A	Moment of inertia (J)	: 0.0356 sq.ft.lb
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.76 ft.lb	Insulation class	: F
Locked rotor torque	: 409 %	Service factor	: 1.25
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 2855 rpm	Design	: N

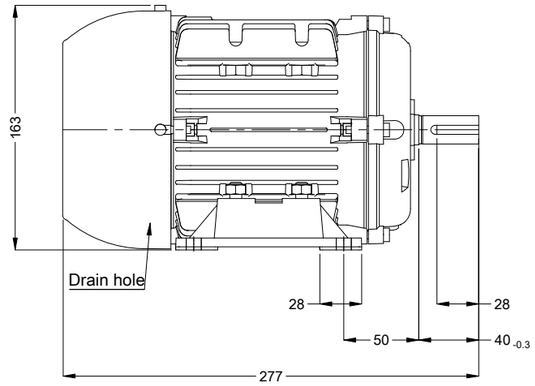
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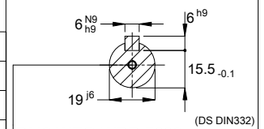
Connection cables connected in the high voltage

Color RAL 5009

Painting plan 207N

Mounting B3L(E)

DE Shaft End



DM6 WEG WPR-7339

1.5 HP 02 Poles 60 Hz

A

Scale 1 : 4

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR MULTIMOUNTIN IE3

FRAME 80 IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in mm

A3

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