DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531

Frame	: 132M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B5T
Duty cycle	: 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[3]	: 79.6 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0563 kgm²
Design	: N		

Output [kW]		7.5	7.5	7.5	7.5
Poles		4	4	4	4
Frequency [Hz]		50	50	50	60
Rated voltage [V]		380/660	400/690	415	460
Rated current [A]		14.8/8.54	14.6/8.46	14.6	12.7
L. R. Amperes [A]		123/70.9	124/71.9	127	120
LRC [A]		8.3	8.5	8.7	9.5
No load current [A]		6.80/3.92	7.50/4.35	8.30	6.90
Rated speed [RPM]		1460	1465	1465	1770
Slip [%]		2.67	2.33	2.33	1.67
Rated torque [kgfm]		5.00	4.99	4.99	4.13
Locked rotor torque [%]		229	250	280	280
Breakdown torque [%]		310	350	380	400
Service factor		1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	19s (cold) 11s (hot)
Noise level[2]		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	58.0 dB(A)
Efficiency (%)	25%				
	50%	90.0	89.0	88.5	90.1
	75%	90.2	90.4	90.3	91.2
	100%	90.4	90.4	90.4	91.7
Power Factor	25%				
	50%	0.66	0.63	0.59	0.62
	75%	0.79	0.76	0.72	0.74
	100%	0.85	0.82	0.79	0.81

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

Losses (%)	P1 (0,9;1,0)	10.6	10.6	10.6	9.0
	P2 (0,5;1,0)	9.6	9.6	9.6	8.2
	P3 (0,25;1,0)	9.3	9.3	9.3	7.9
	P4 (0,9;0,5)	5.0	5.0	5.0	4.2
	P5 (0,5;0,5)	3.8	3.8	3.8	3.2
	P6 (0,5;0,25)	2.5	2.5	2.5	2.1
	P7 (0,25;0,25)	2.1	2.1	2.1	1.8

		Drive end	Non drive end
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	Oil Seal	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 265 kgf

Max. compression : 345 kgf

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 IEC 60034-1.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

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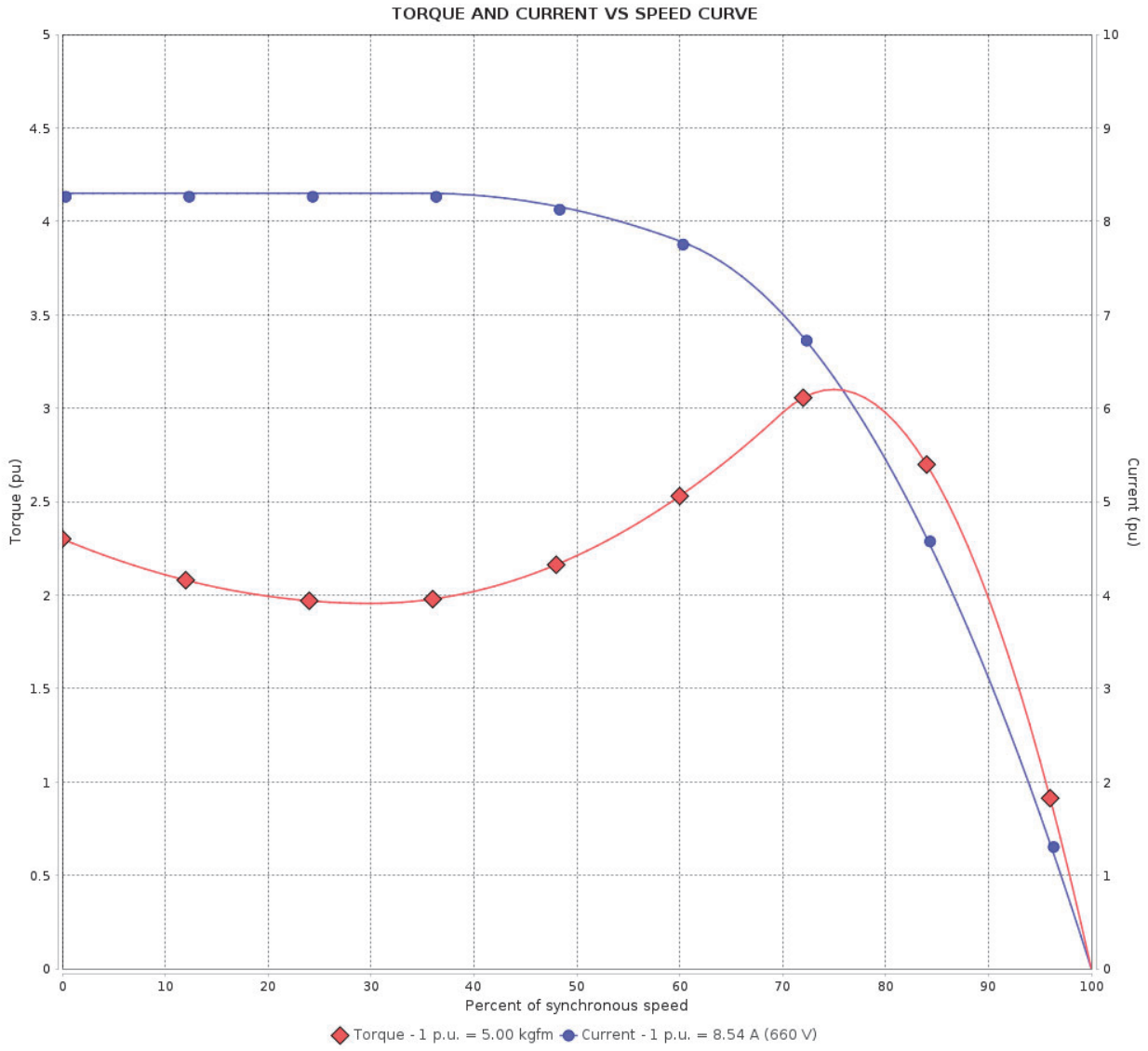
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 380/660 V 50 Hz 4P		
Rated current	: 14.8/8.54 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N
Locked rotor time	: 18s (cold) 10s (hot)		

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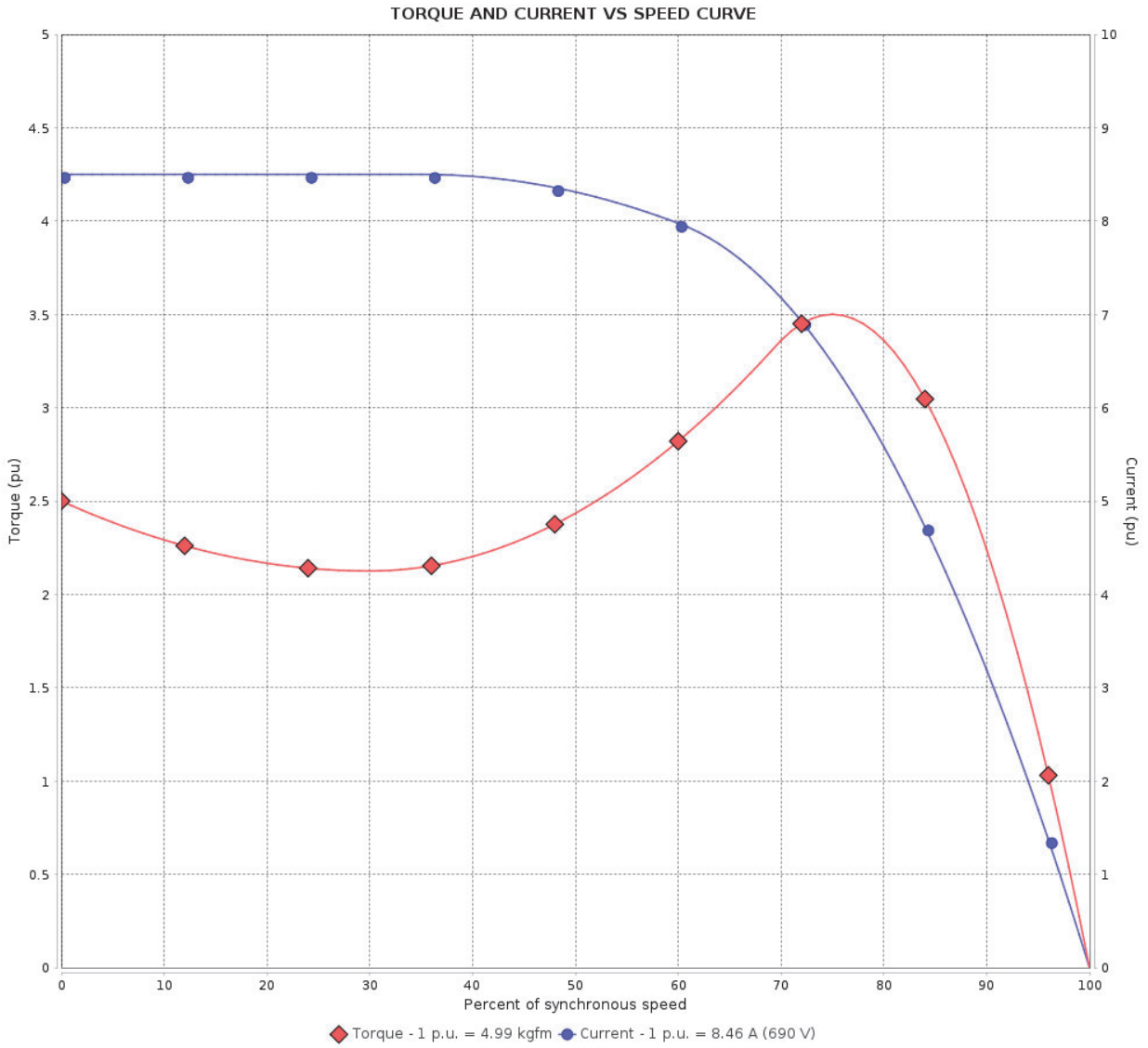
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 14.6/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N
Locked rotor time	: 16s (cold) 9s (hot)		

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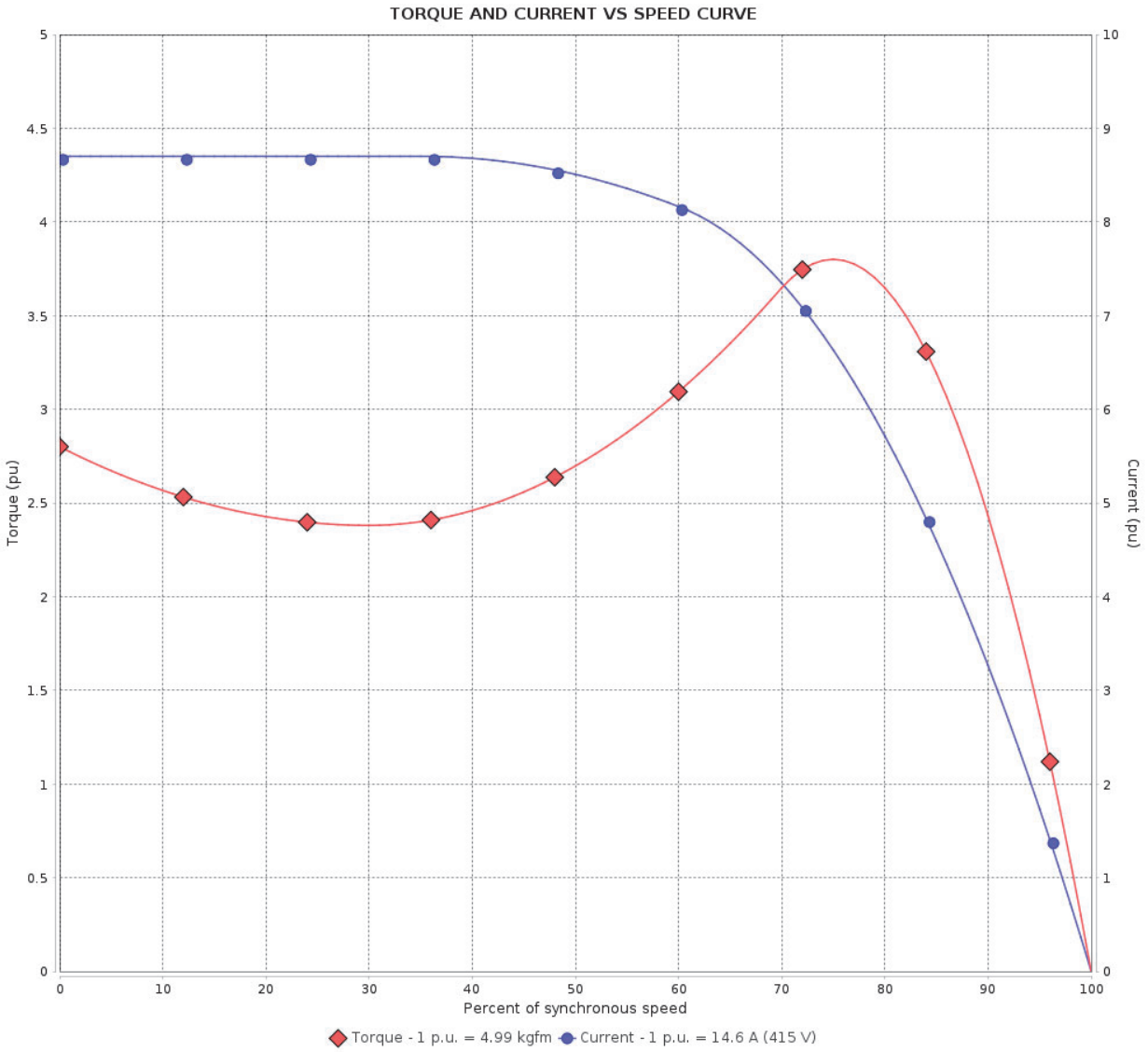
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 415 V 50 Hz 4P		
Rated current	: 14.6 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N
Locked rotor time	: 16s (cold) 9s (hot)		

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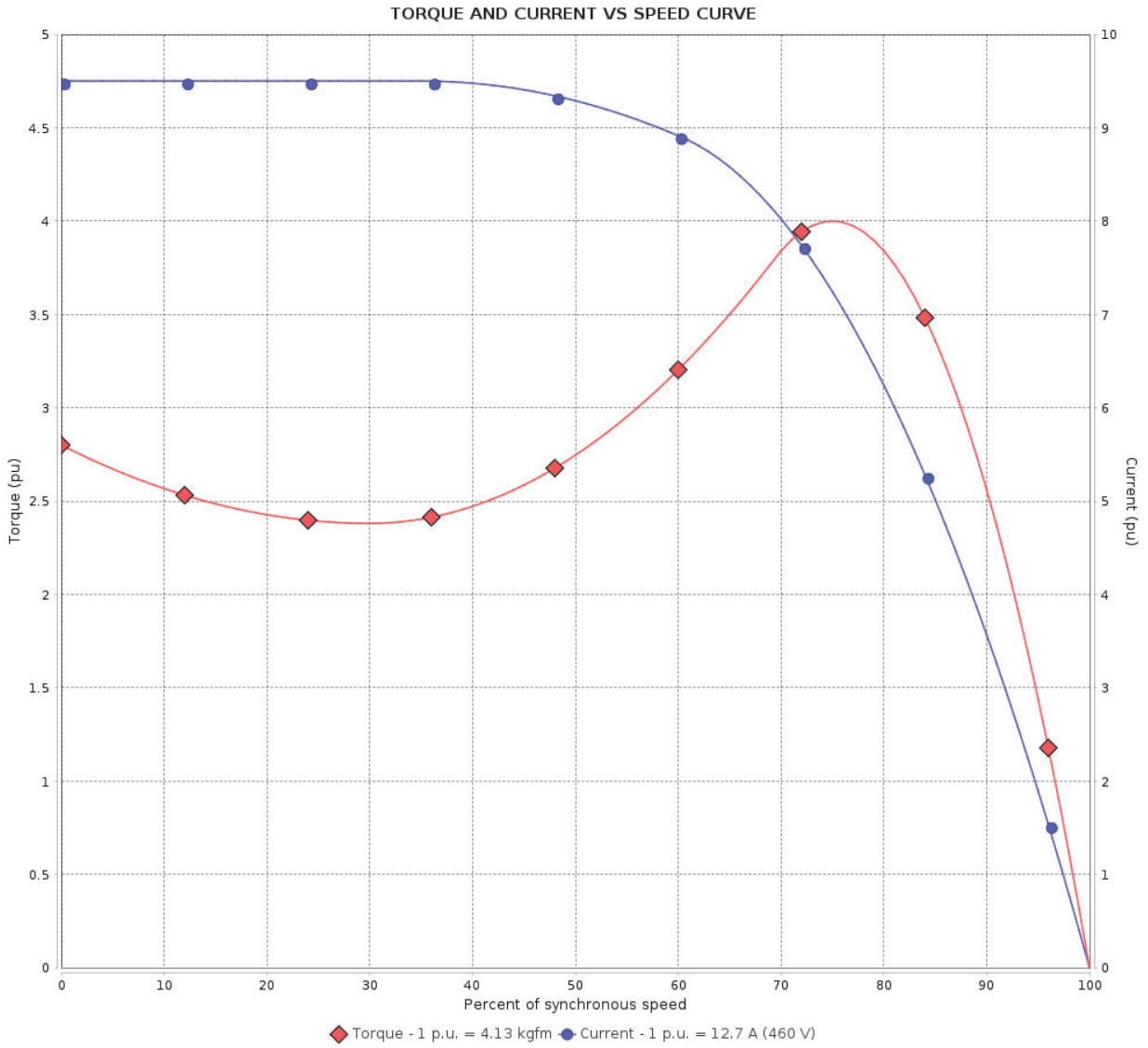
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 460 V 60 Hz 4P		
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 9.5	Duty cycle	: S1
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N
Locked rotor time	: 19s (cold) 11s (hot)		

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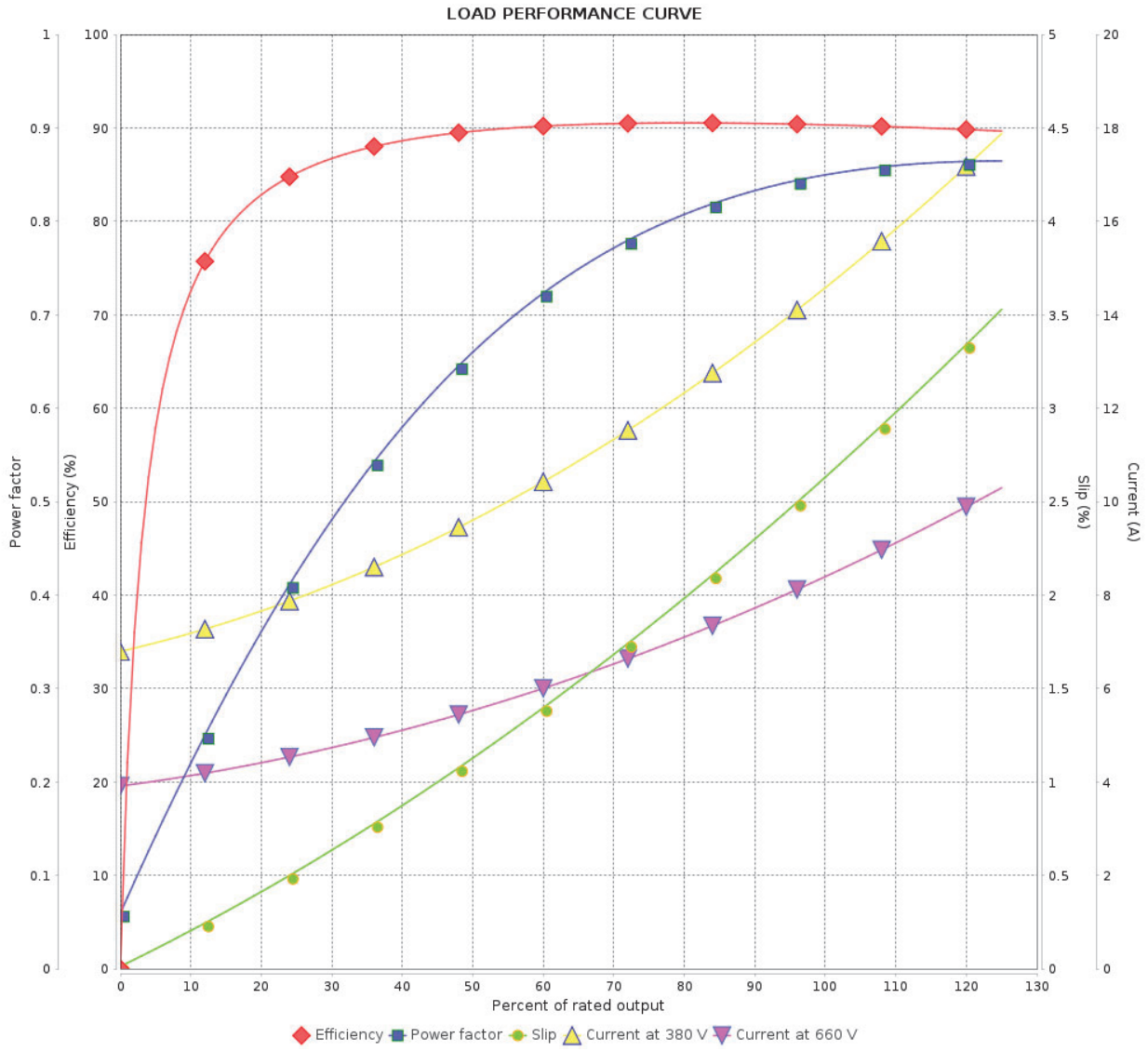
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 380/660 V 50 Hz 4P		
Rated current	: 14.8/8.54 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

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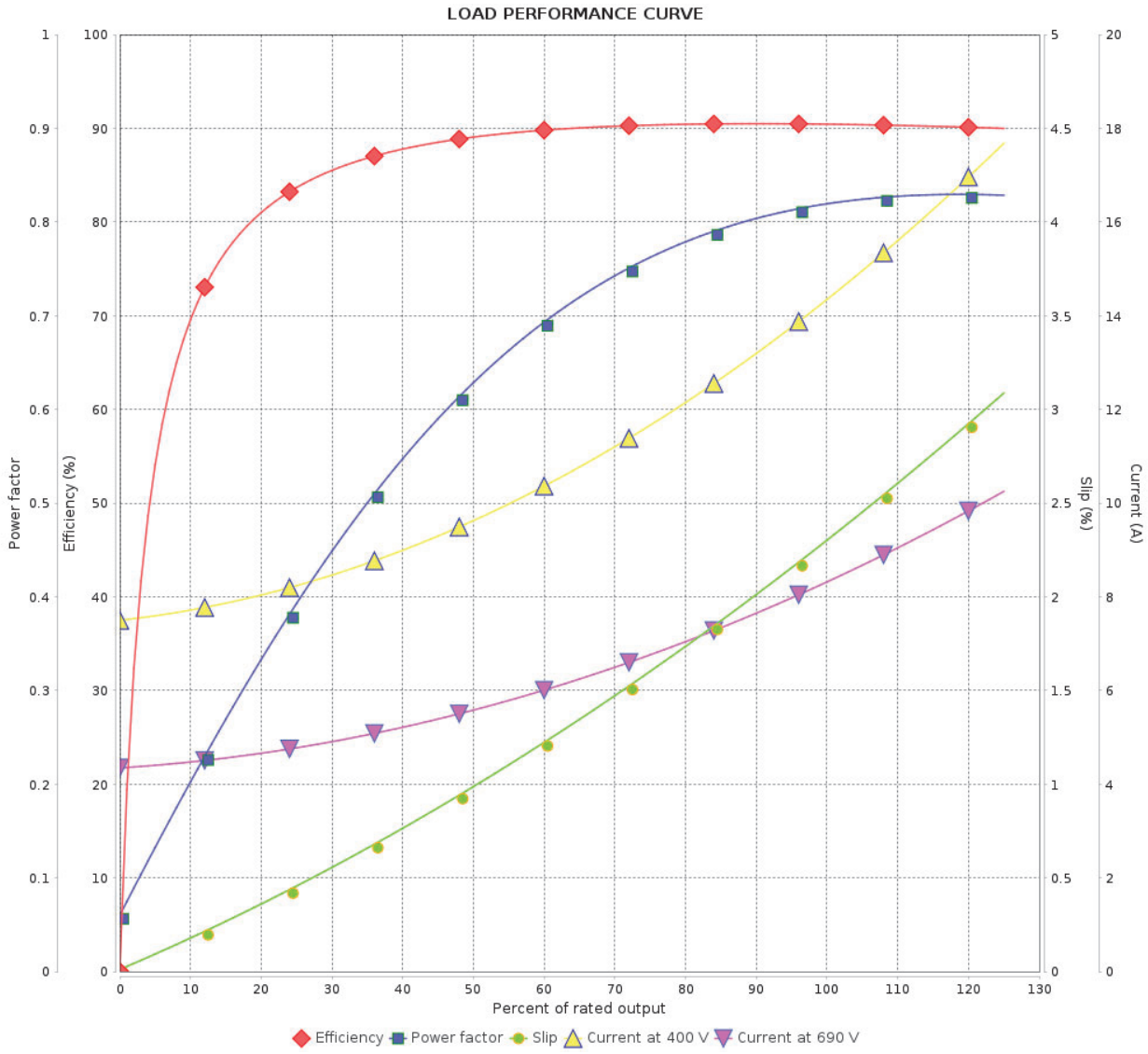
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 14.6/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

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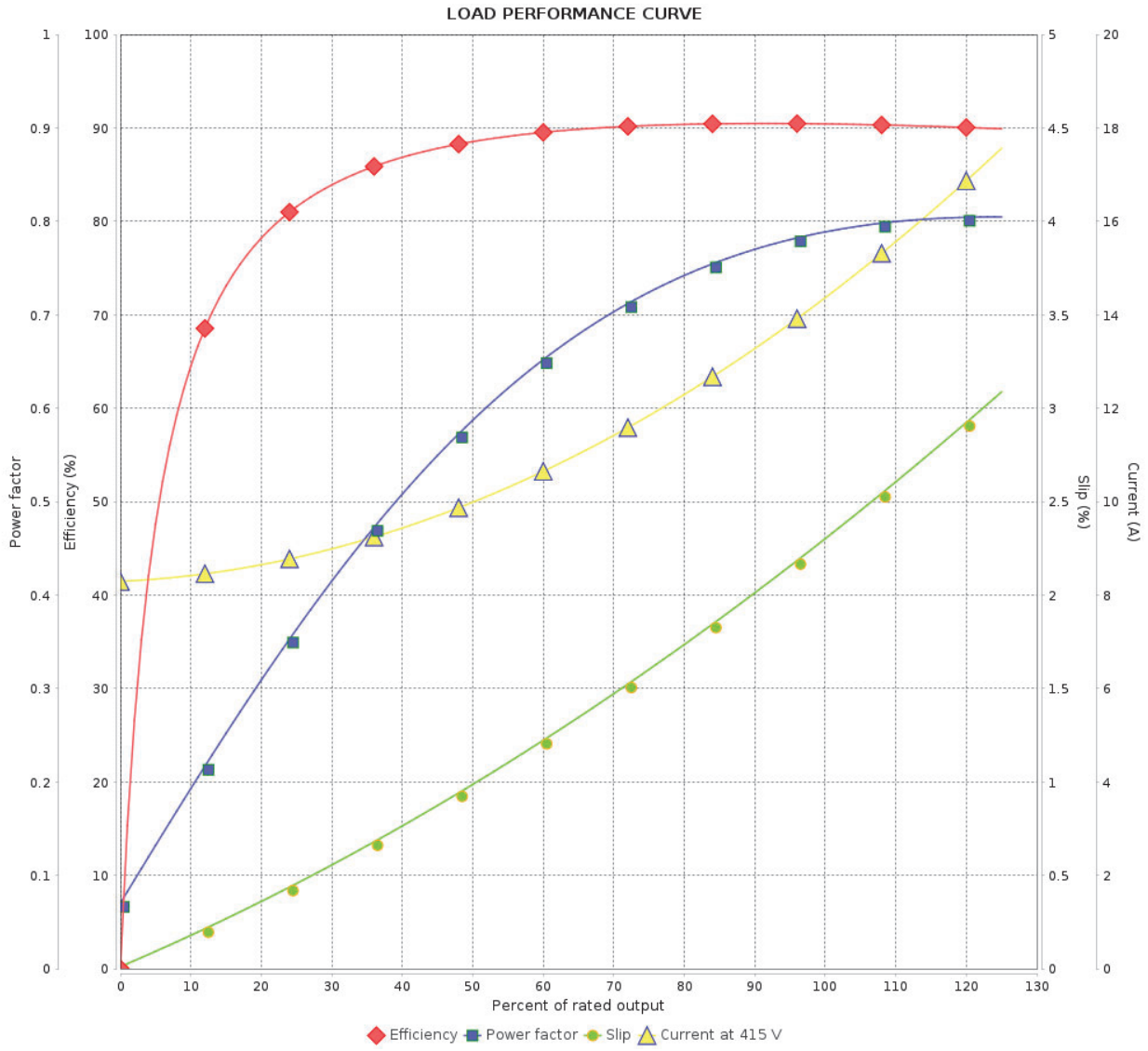
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 415 V 50 Hz 4P		
Rated current	: 14.6 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

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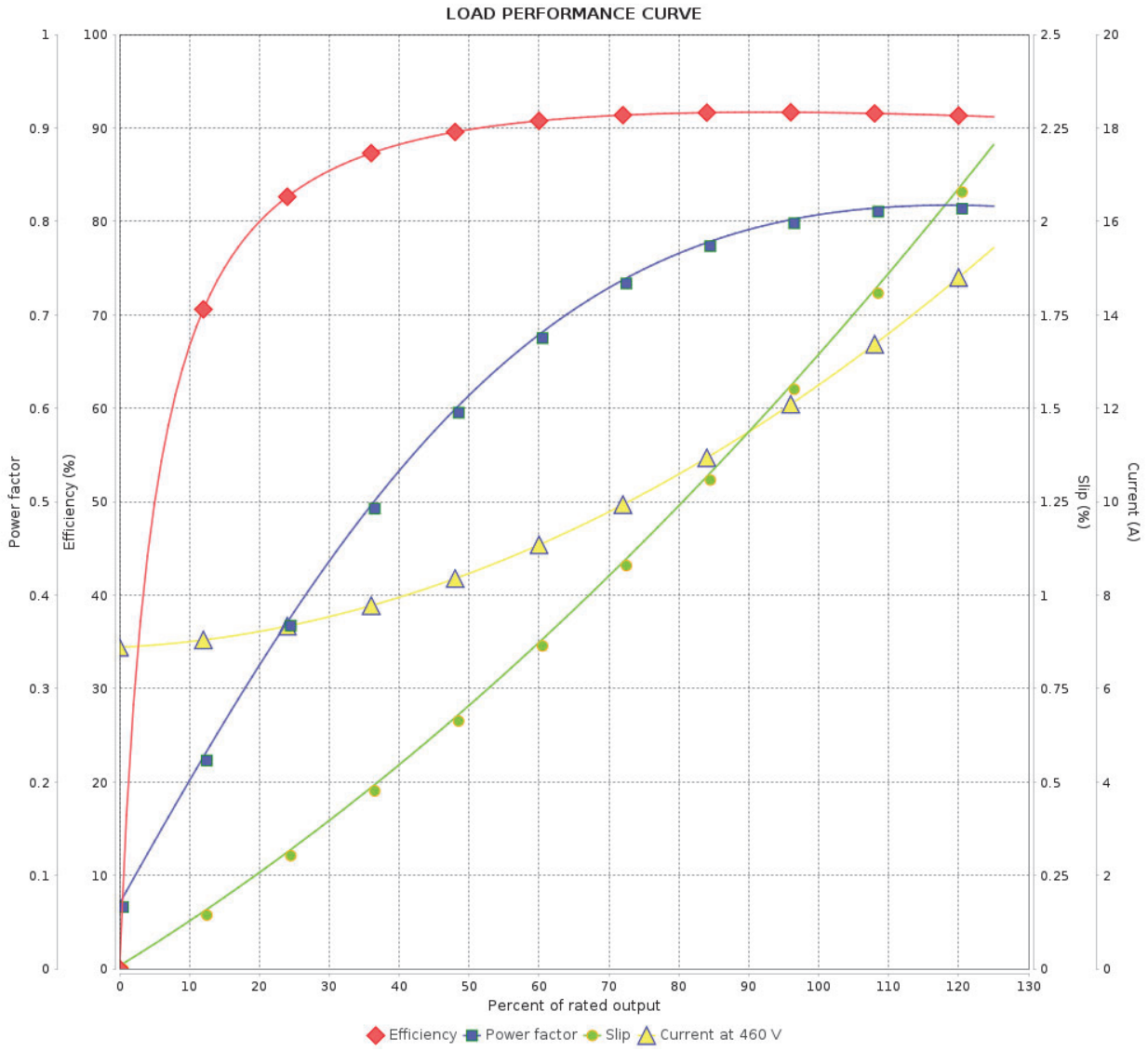
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 460 V 60 Hz 4P		
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 9.5	Duty cycle	: S1
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

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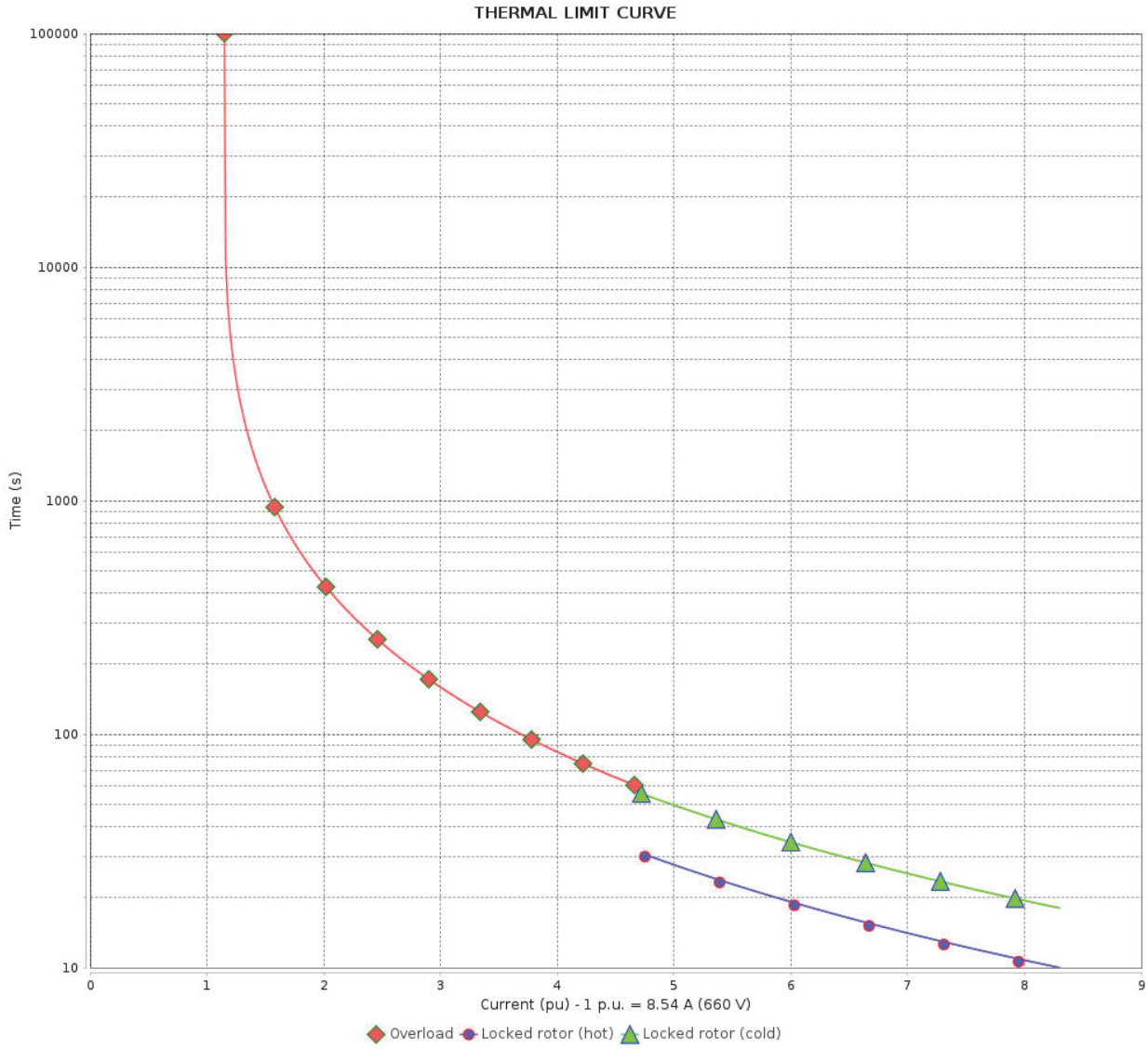
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 380/660 V 50 Hz 4P		
Rated current	: 14.8/8.54 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N
Heating constant			
Cooling constant			

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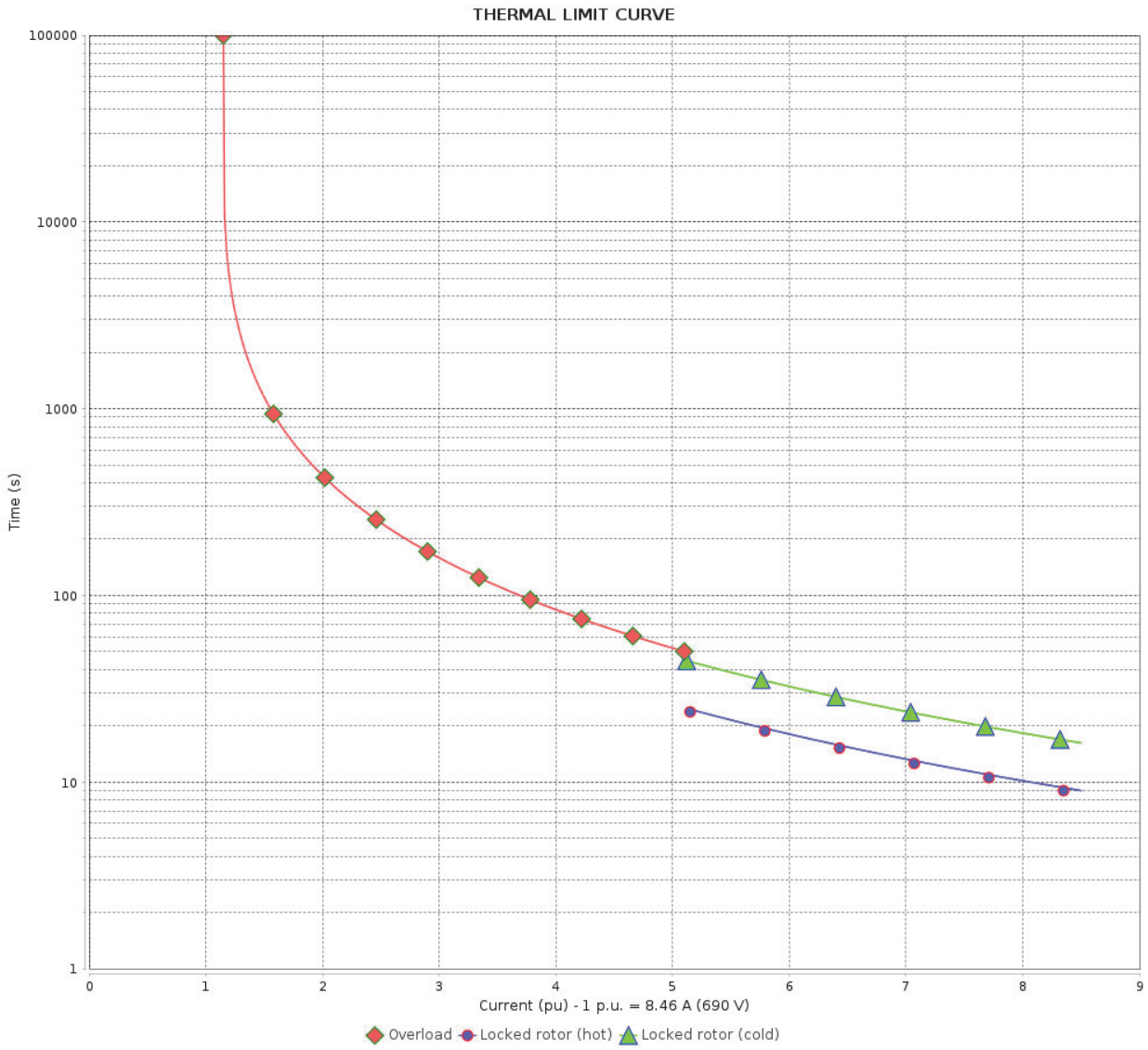
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 14.6/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N
Heating constant			
Cooling constant			

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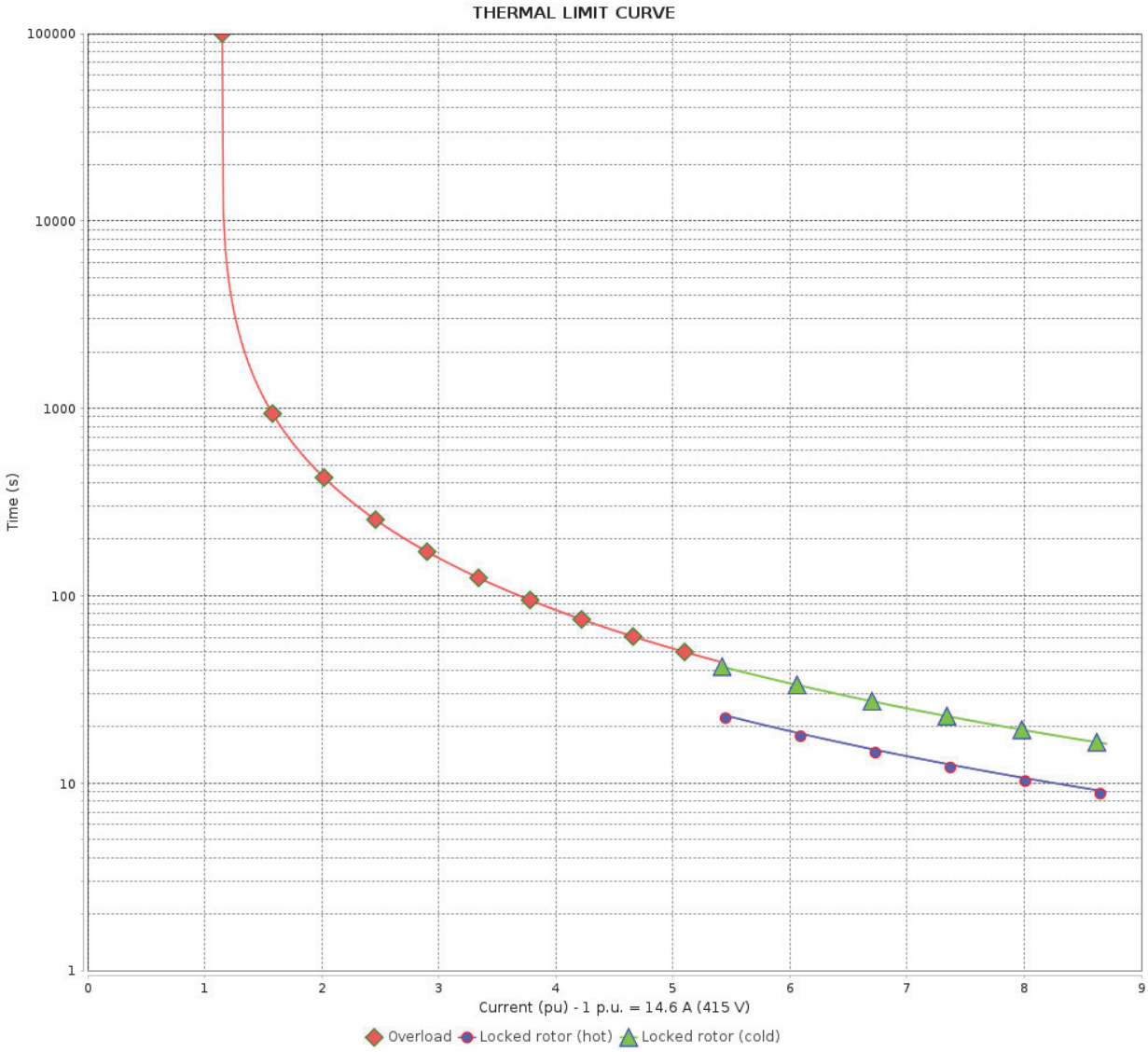
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 415 V 50 Hz 4P		
Rated current	: 14.6 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N
Heating constant			
Cooling constant			

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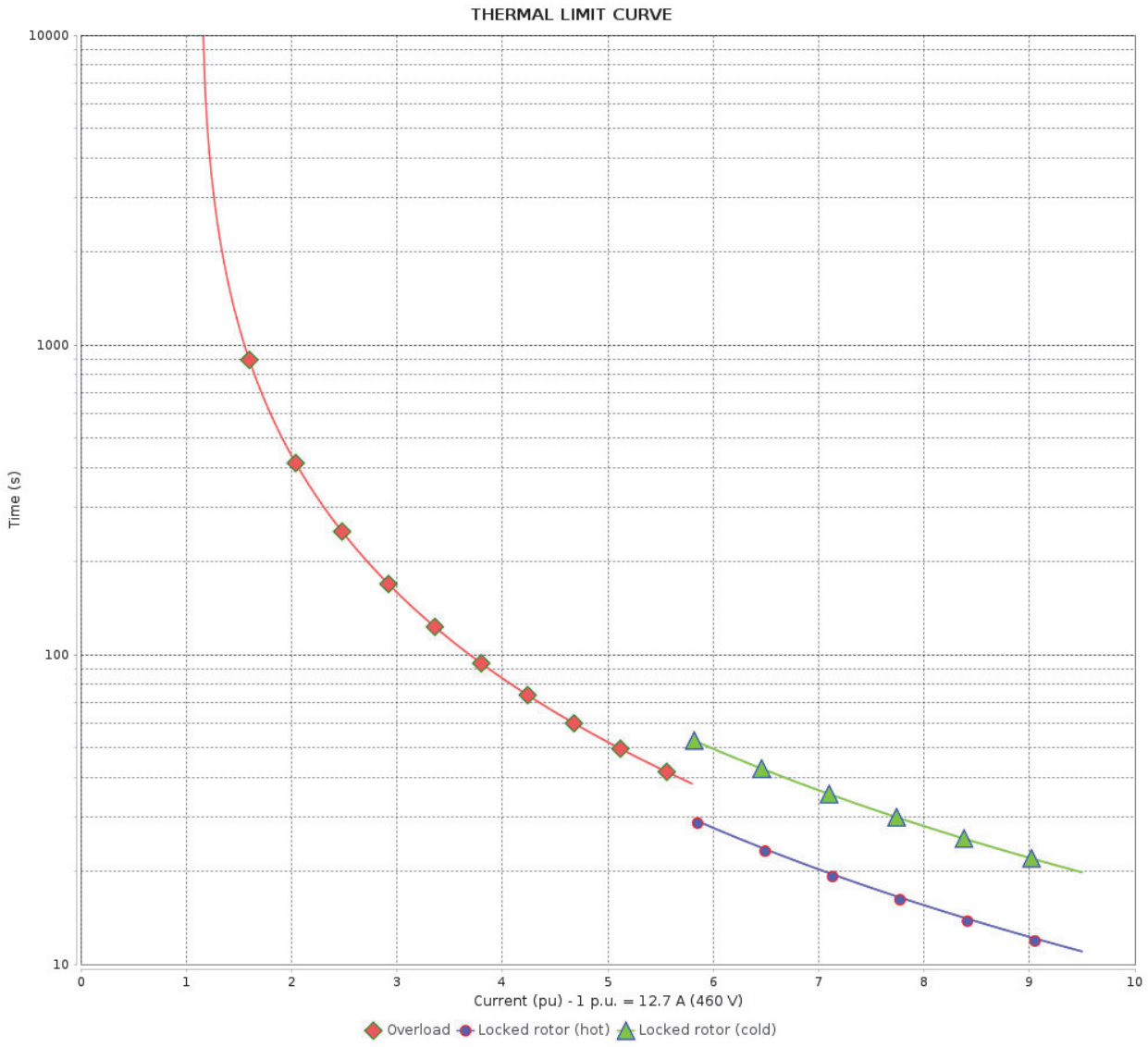
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 460 V 60 Hz 4P		
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 9.5	Duty cycle	: S1
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N
Heating constant			
Cooling constant			

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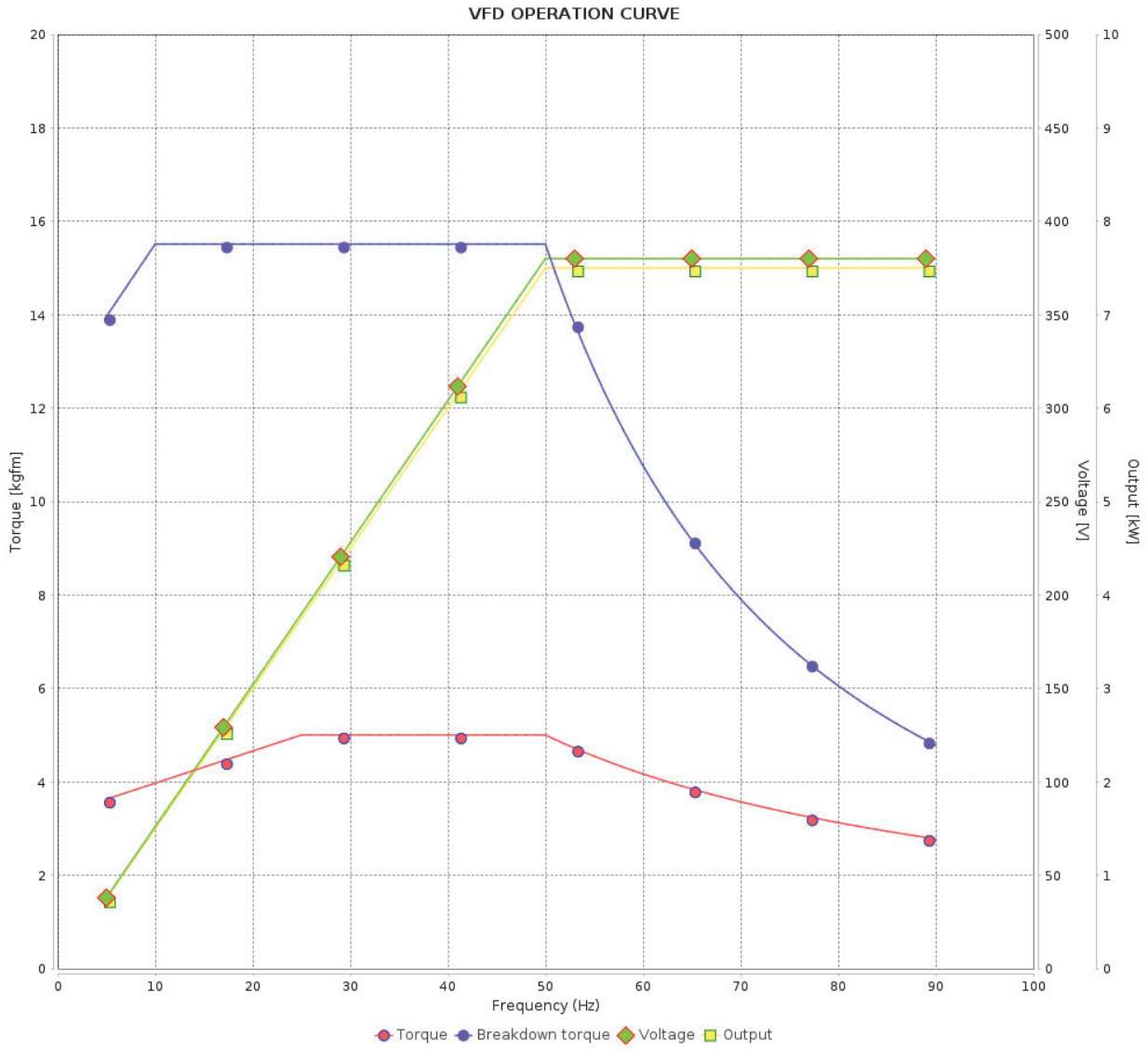
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 380/660 V 50 Hz 4P		
Rated current	: 14.8/8.54 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N

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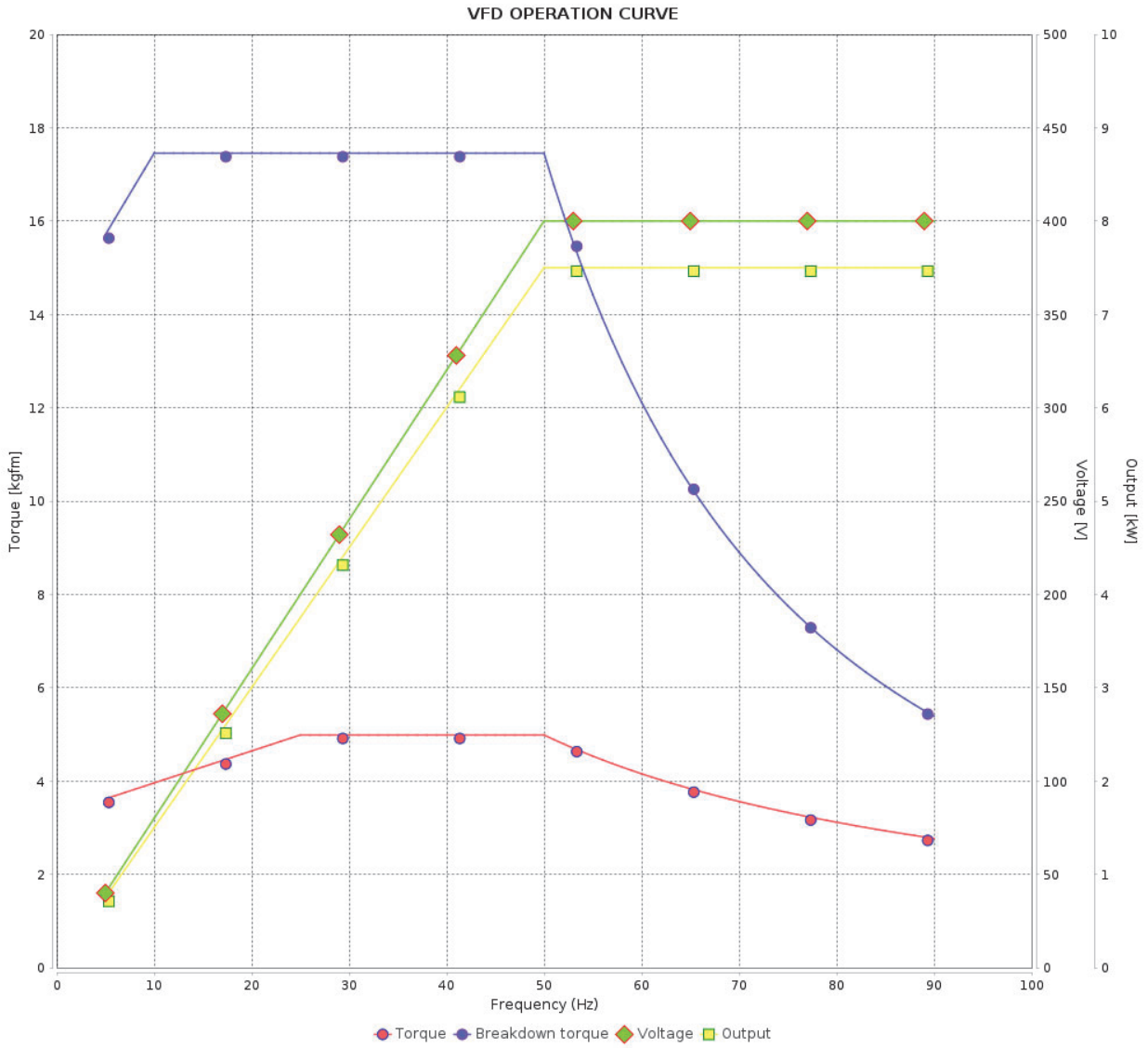
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 14.6/8.46 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

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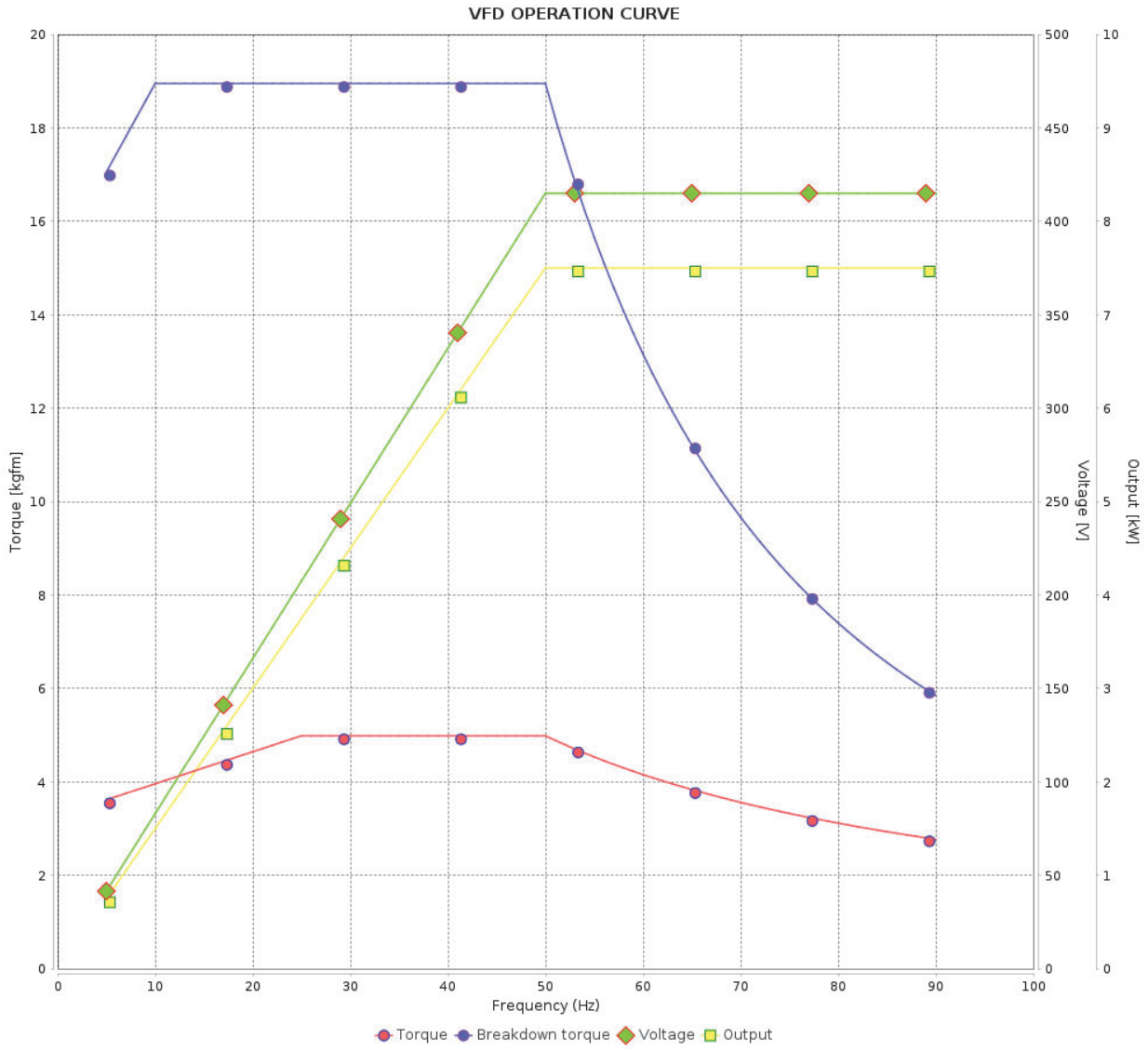
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531



Performance	: 415 V 50 Hz 4P		
Rated current	: 14.6 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

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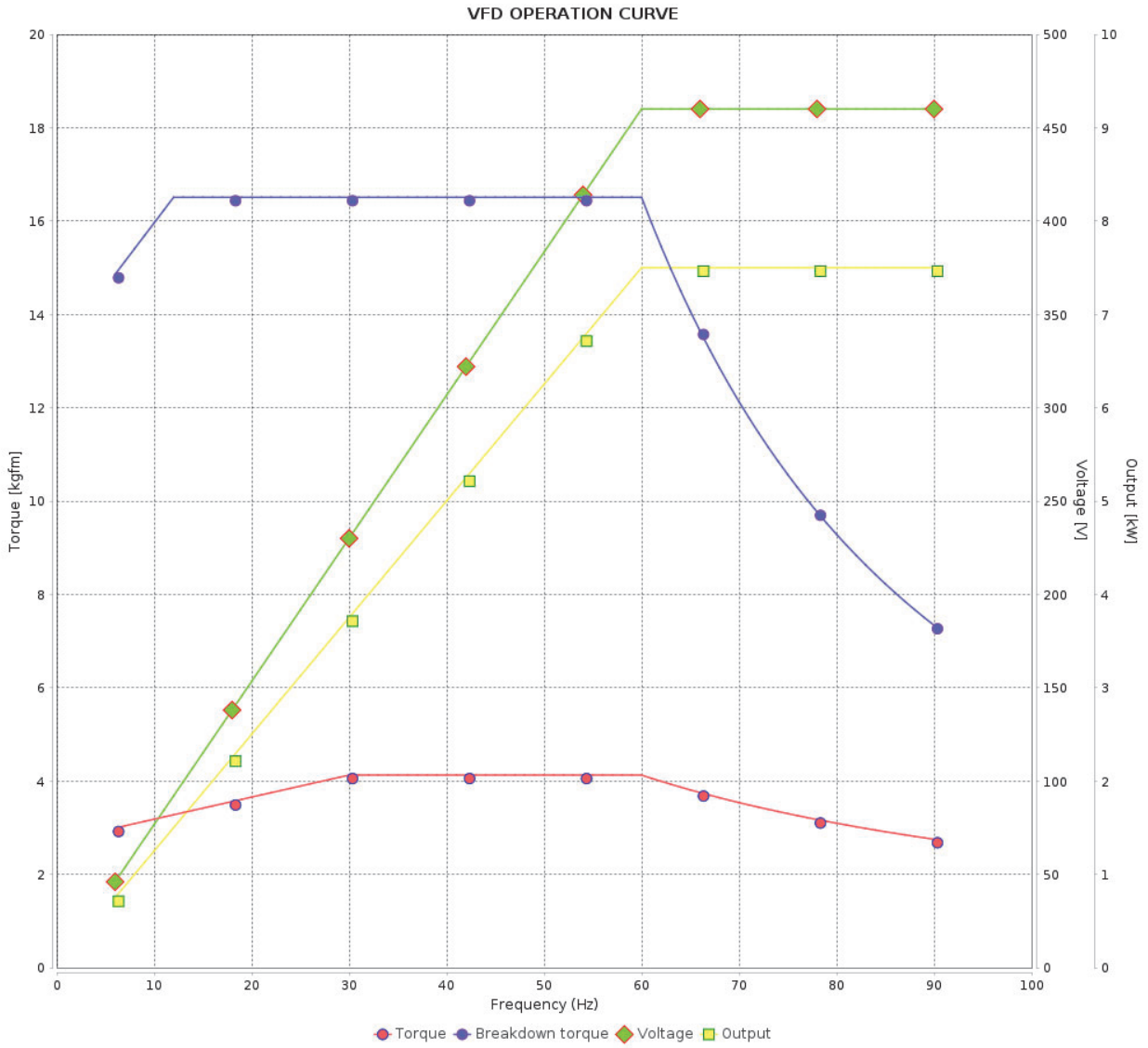
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IE3 Three-Phase Product code : 12862531

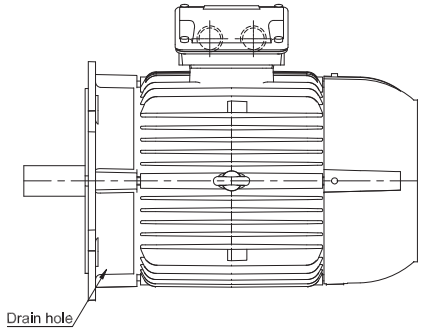


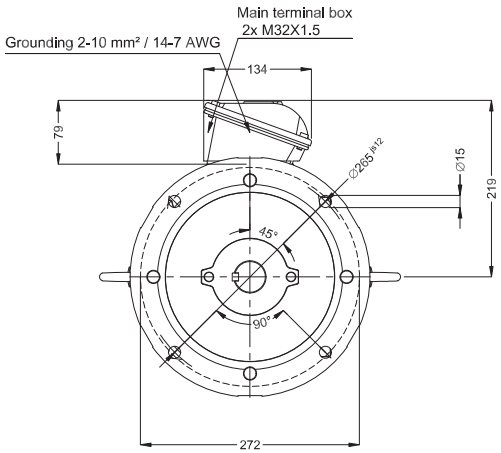
Performance	: 460 V 60 Hz 4P		
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 9.5	Duty cycle	: S1
Rated torque	: 4.13 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: N

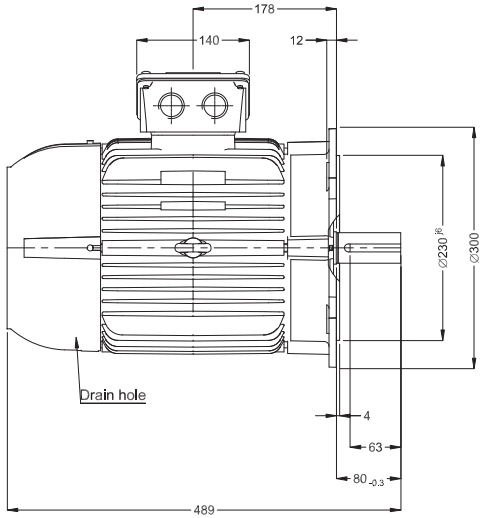
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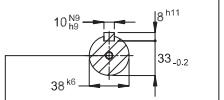






Sealing - oil seal ring
Bearing cap
Color RAL 5009
Painting plan 207A
Mounting B5T

DE Shaft End



DM12 WEG WPR-7339

7.5 kW 04 Poles 50 Hz | A

Scale 2 : 13

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 IE3
FRAME 132M IP55 TEFC

PREVIEW
WDD | 00
SHEET 1 / 1

Dimensions in mm

A3

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