

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 16689688
 Catalog # : 06018ST3QAP364T-W22

Frame : 364/5T	Cooling method : IC411 - TEFC
Insulation class : F	Mounting : W-8
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 : 877 lb
Protection degree : IP56	Moment of inertia (J) : 22.4 sq.ft.lb
Design : B	

Output [HP]	60	50	50	50	60	60	60	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	460	380	400	415	380	400	415	
Rated current [A]	71.6	71.0	69.1	67.4	86.5	82.6	80.2	
L. R. Amperes [A]	444	447	477	499	450	479	497	
LRC [A]	6.2x(Code G)	6.3x(Code G)	6.9x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code G)	
No load current [A]	28.0	27.6	29.8	31.6	27.6	29.8	31.6	
Rated speed [RPM]	1780	1480	1482	1484	1470	1475	1477	
Slip [%]	1.11	1.33	1.20	1.07	2.00	1.67	1.53	
Rated torque [ft.lb]	177	177	177	177	214	214	213	
Locked rotor torque [%]	220	200	220	240	160	180	200	
Breakdown torque [%]	240	240	260	280	200	210	229	
Service factor	1.15	1.00	1.00	1.00	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K	
Locked rotor time	27s (cold) 15s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	
Noise level ²	67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	
Efficiency (%)	25%	93.5	93.3	92.9	93.2	94.5	94.0	94.0
	50%	94.1	93.7	93.3	93.4	94.1	94.1	94.1
	75%	94.5	93.9	93.9	94.2	93.6	93.6	94.1
	100%	95.0	94.2	94.2	94.3	93.0	93.6	94.1
Power Factor	25%	0.45	0.45	0.42	0.39	0.50	0.47	0.44
	50%	0.71	0.71	0.68	0.65	0.76	0.73	0.70
	75%	0.80	0.80	0.78	0.76	0.82	0.81	0.80
	100%	0.83	0.84	0.82	0.81	0.85	0.84	0.83

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

Losses (%)	P1 (0,9;1,0)	5.1	5.1	5.1	5.1	5.1	5.1	5.1
	P2 (0,5;1,0)	4.1	4.1	4.1	4.1	4.1	4.1	4.1
	P3 (0,25;1,0)	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	P4 (0,9;0,5)	2.6	2.6	2.6	2.6	2.6	2.6	2.6
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	P6 (0,5;0,25)	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	P7 (0,25;0,25)	0.8	0.8	0.8	0.8	0.8	0.8	0.8

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	NU-314 C3	6314 C3	Max. traction : 1241 lb
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 2118 lb
Lubrication interval :	4000 h	6000 h	
Lubricant amount :	27 g	27 g	
Lubricant type :	Mobil Polyrex EM		

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes

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TORQUE AND CURRENT VS SPEED CURVE



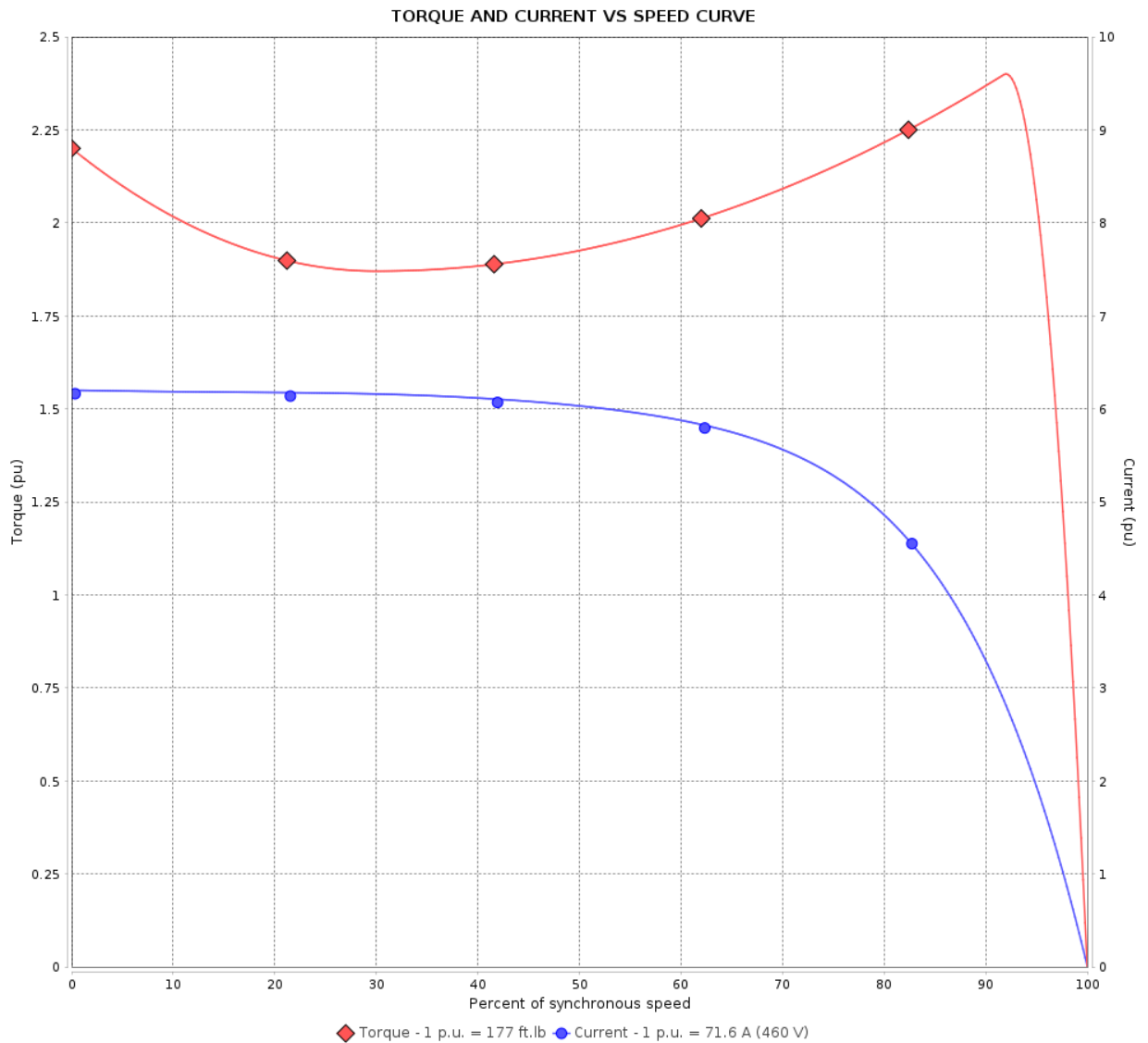
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 460 V 60 Hz 4P

Rated current	: 71.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



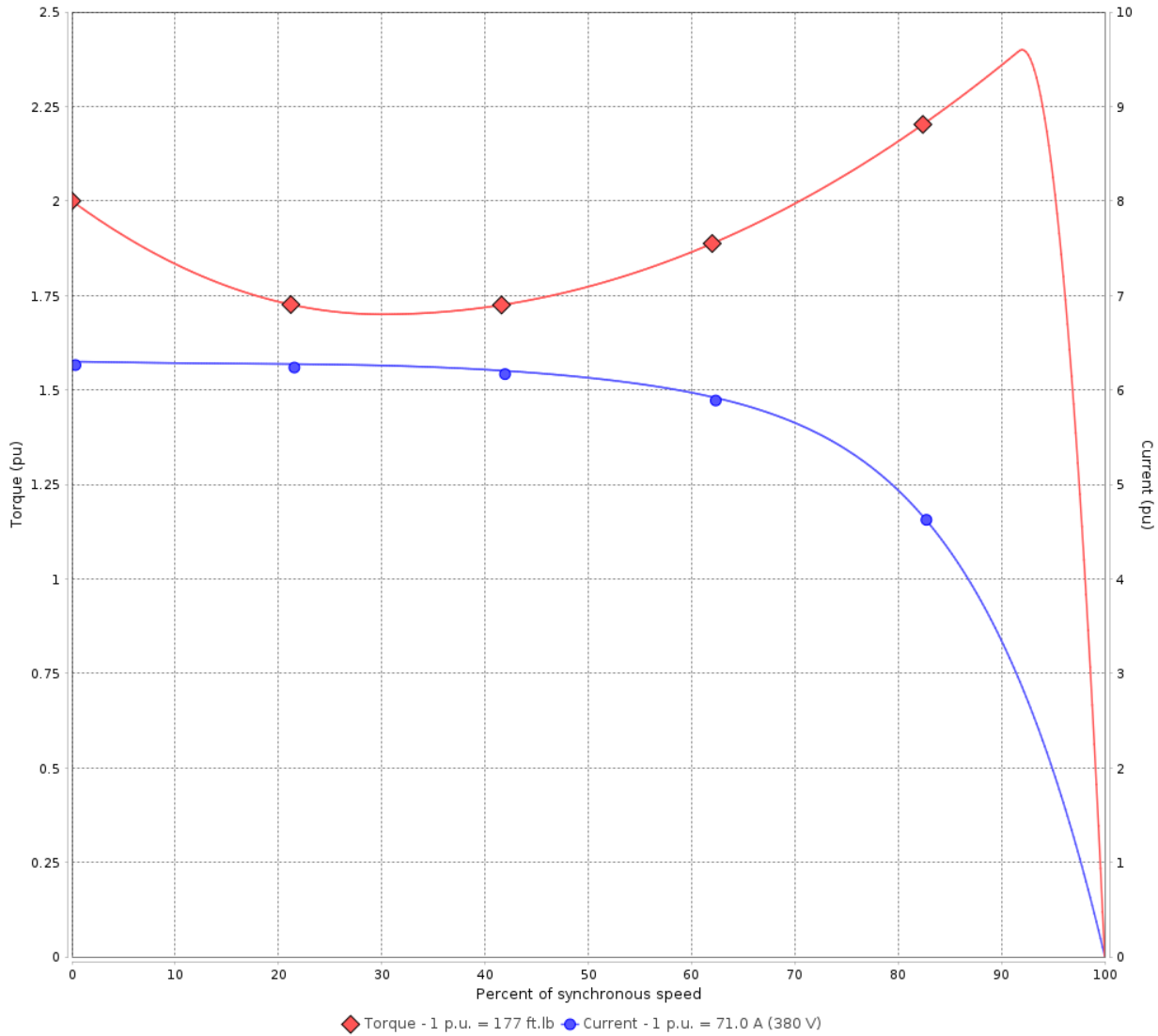
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Product code : 16689688

Catalog # : 06018ST3QAP364T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE3

Rated current	: 71.0 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



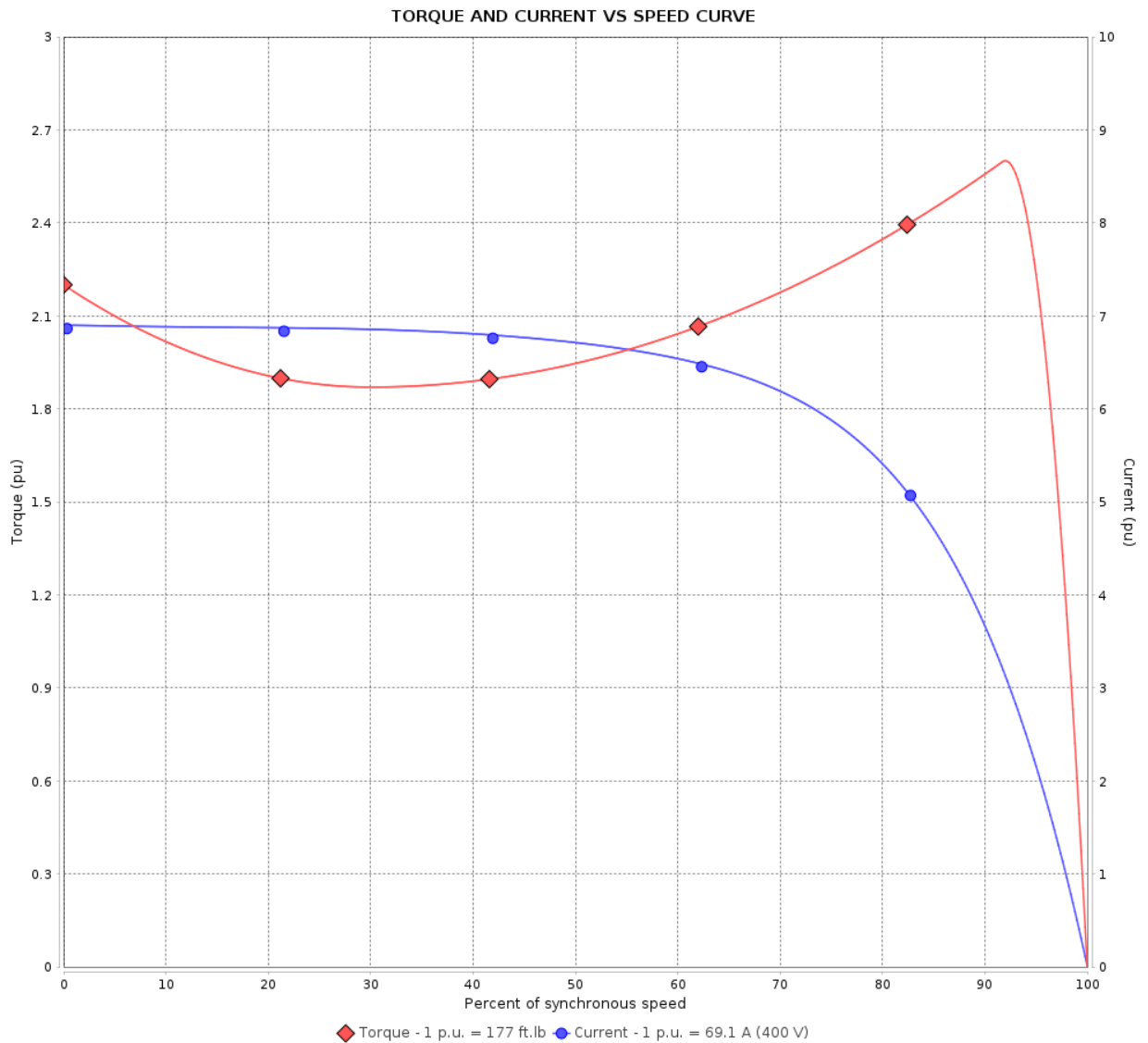
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 69.1 A
 LRC : 6.9
 Rated torque : 177 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 1482 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 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

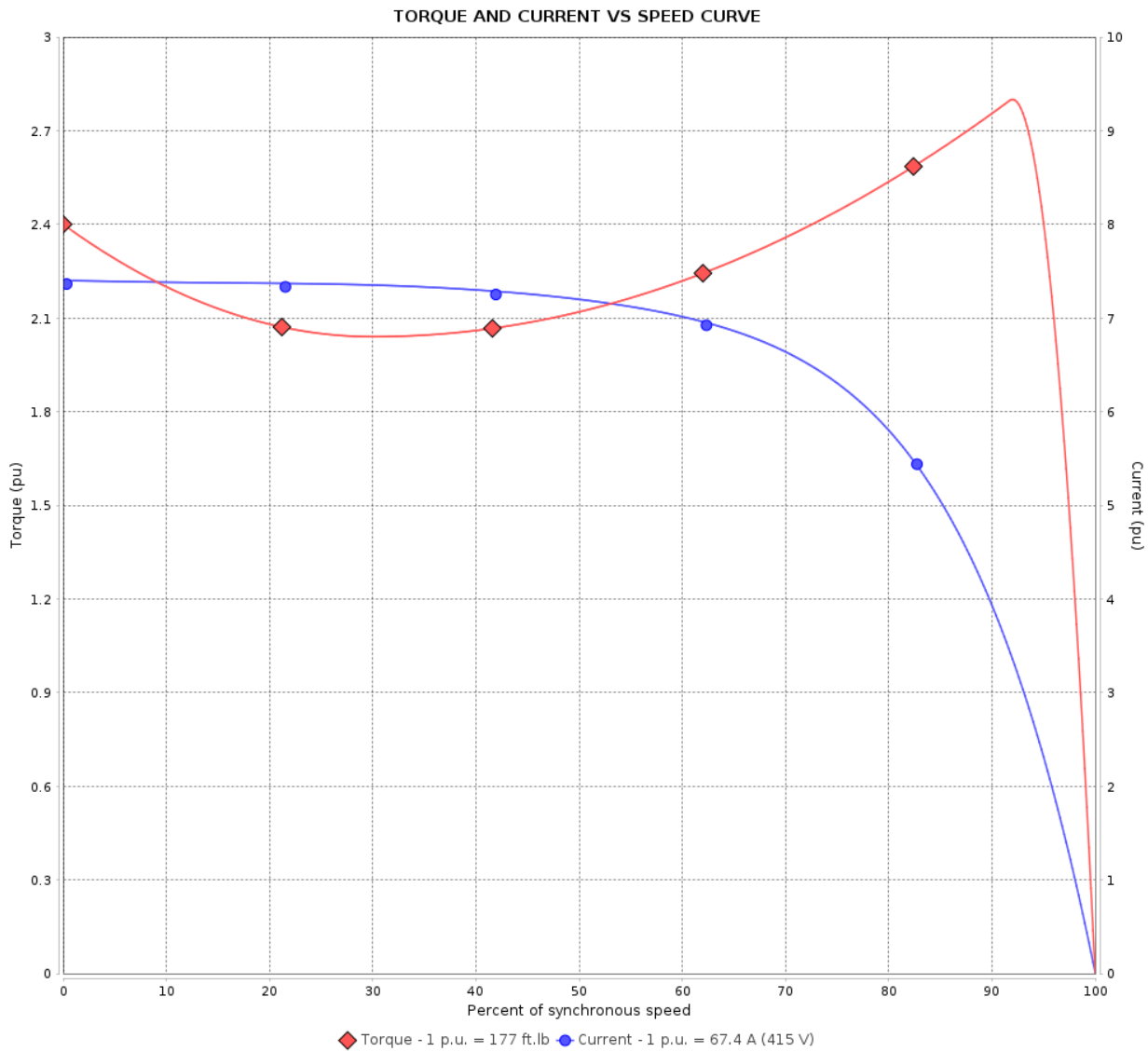


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Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current	: 67.4 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1484 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



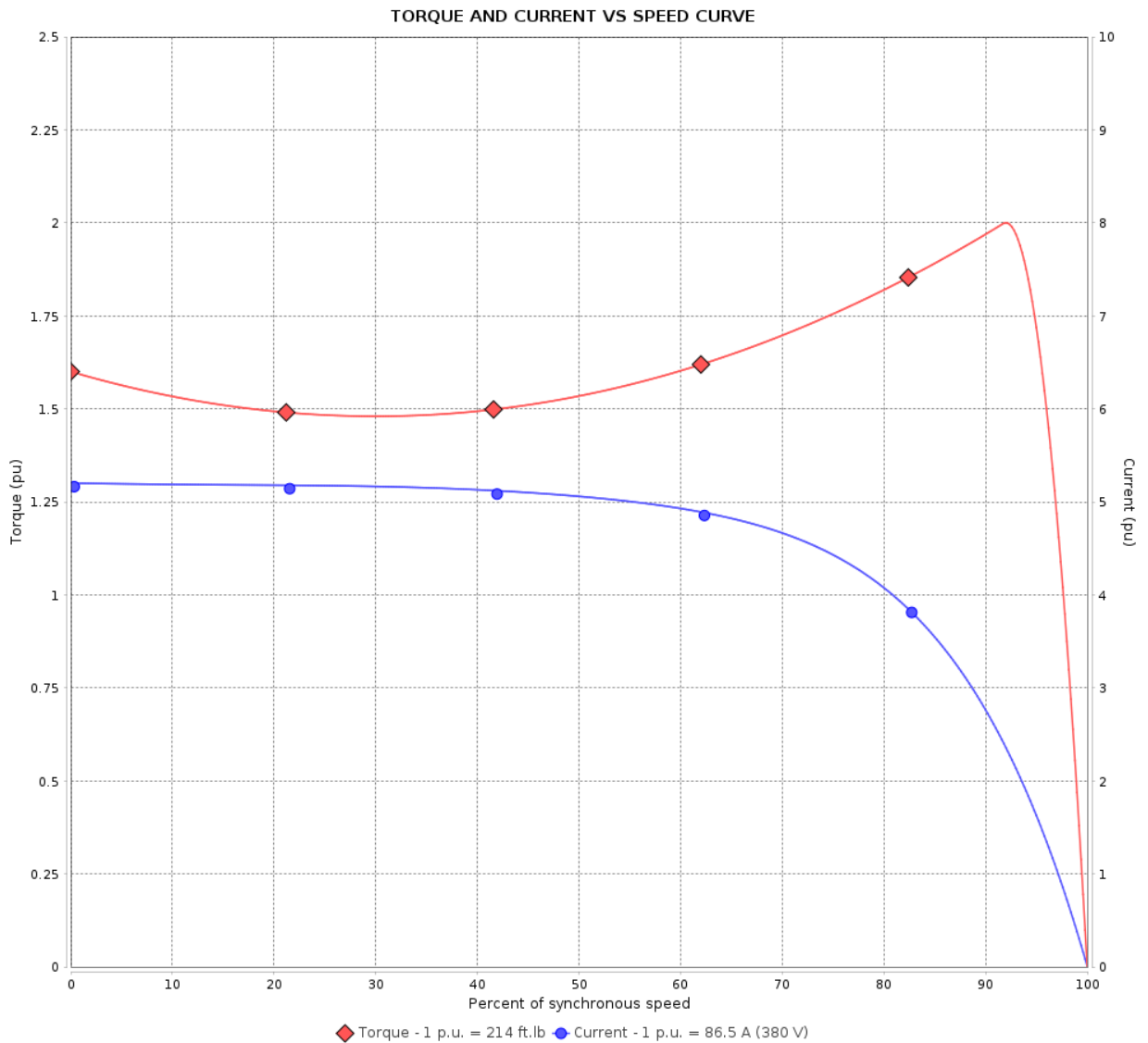
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Customer :

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Performance : 380 V 50 Hz 4P IE1

Rated current	: 86.5 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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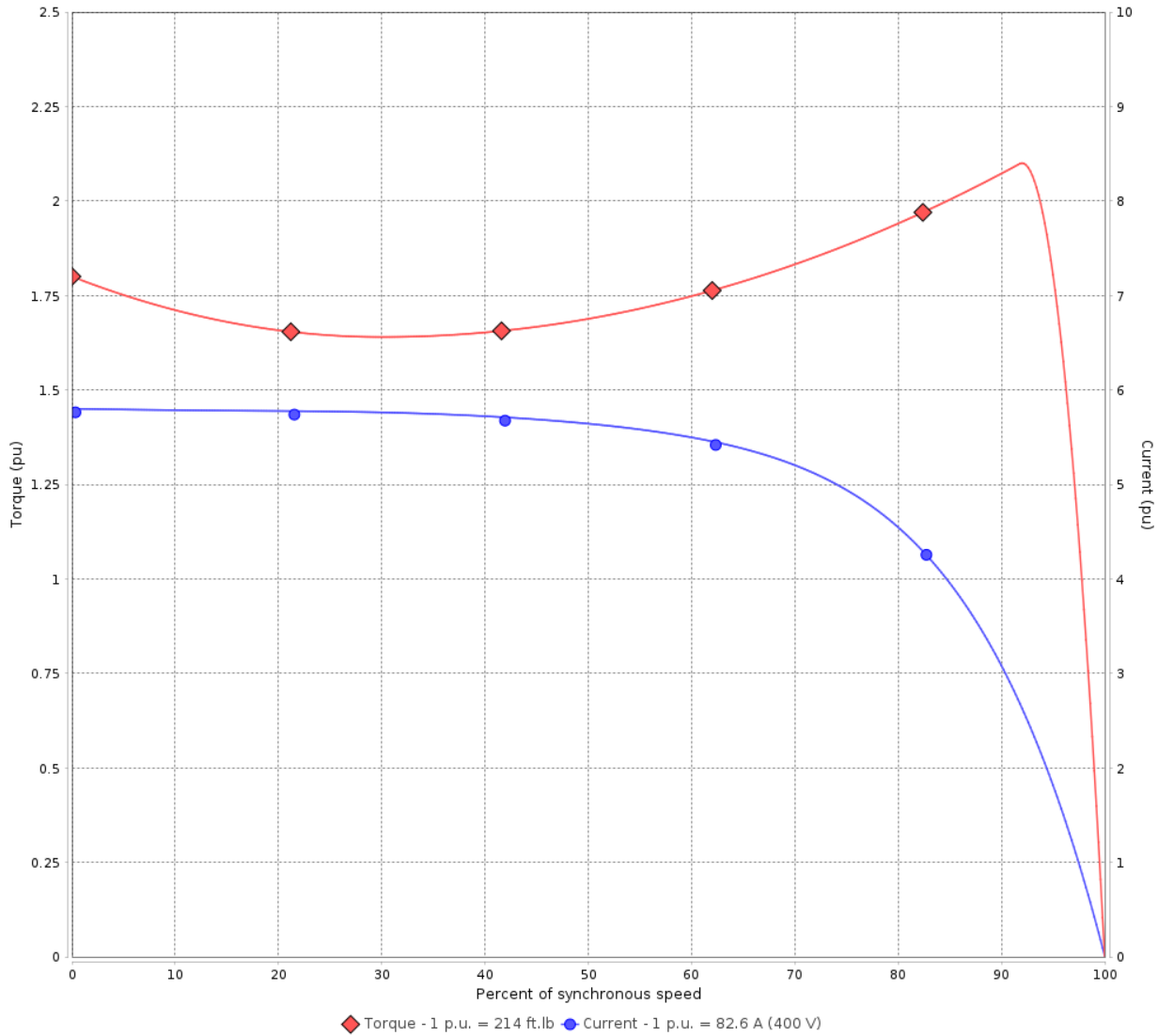
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Product code : 16689688

Catalog # : 06018ST3QAP364T-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE2

Rated current	: 82.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



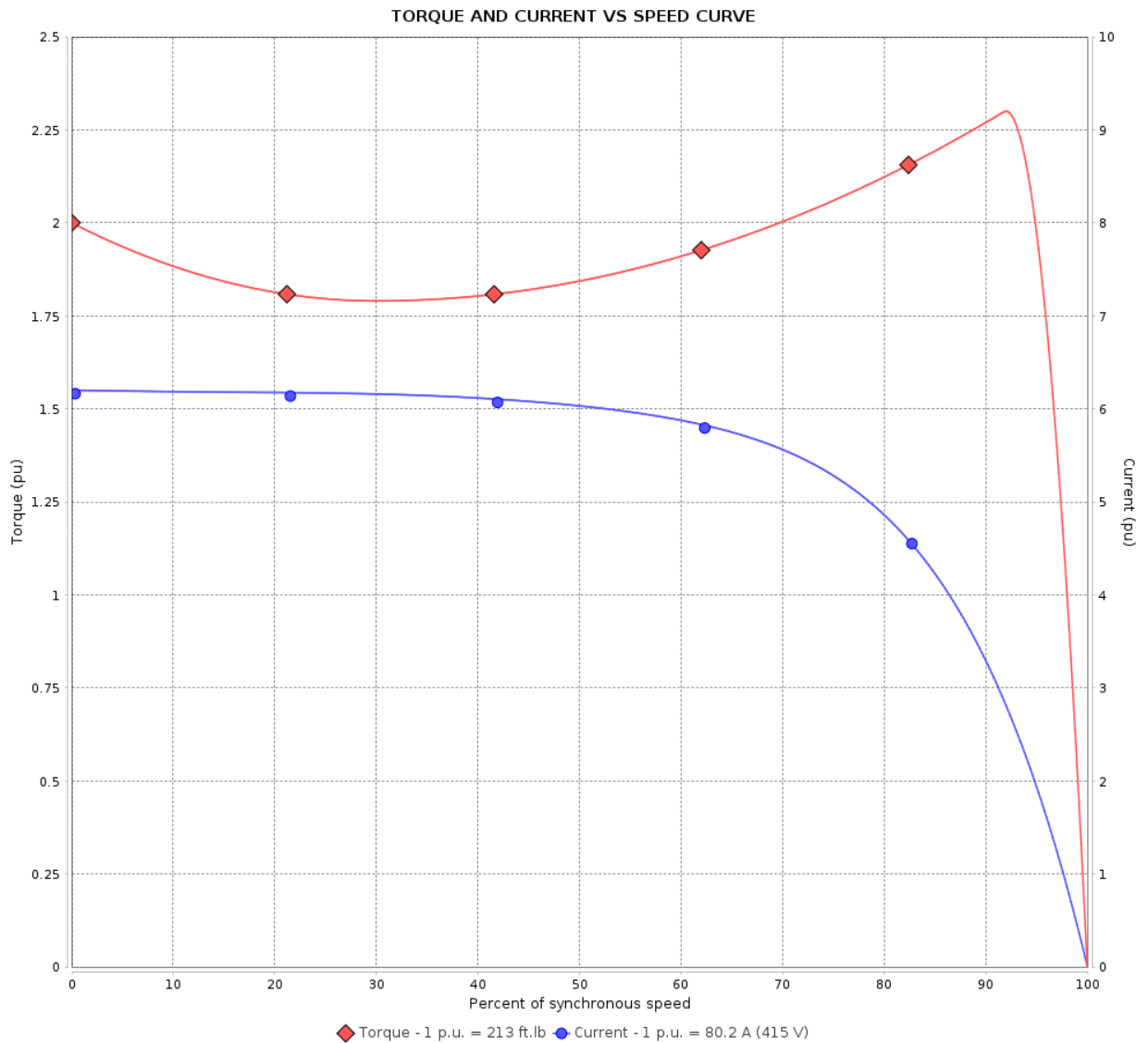
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Performance : 415 V 50 Hz 4P IE2

Rated current	: 80.2 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 213 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1477 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage

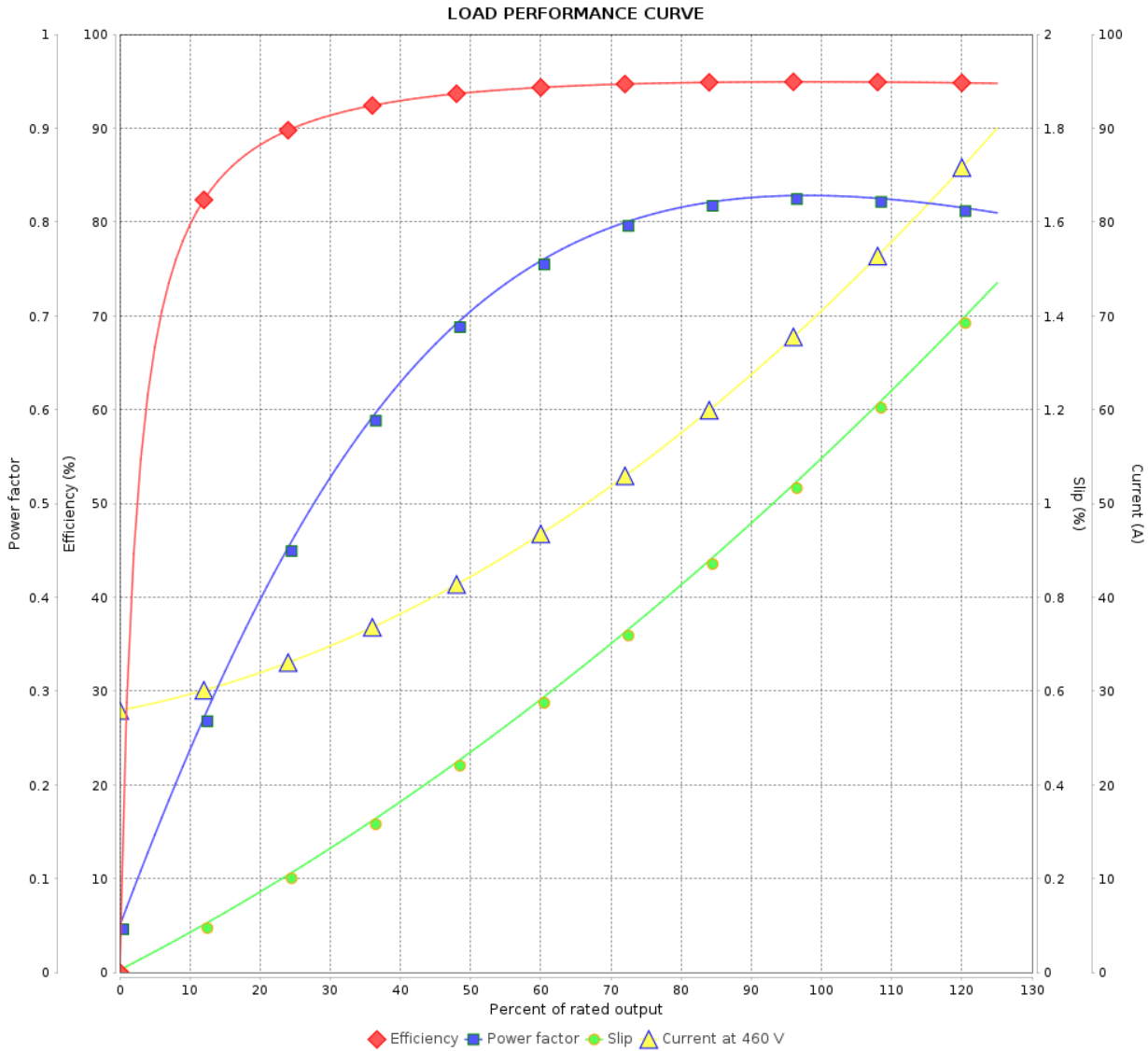


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Performance : 460 V 60 Hz 4P

Rated current : 71.6 A
 LRC : 6.2
 Rated torque : 177 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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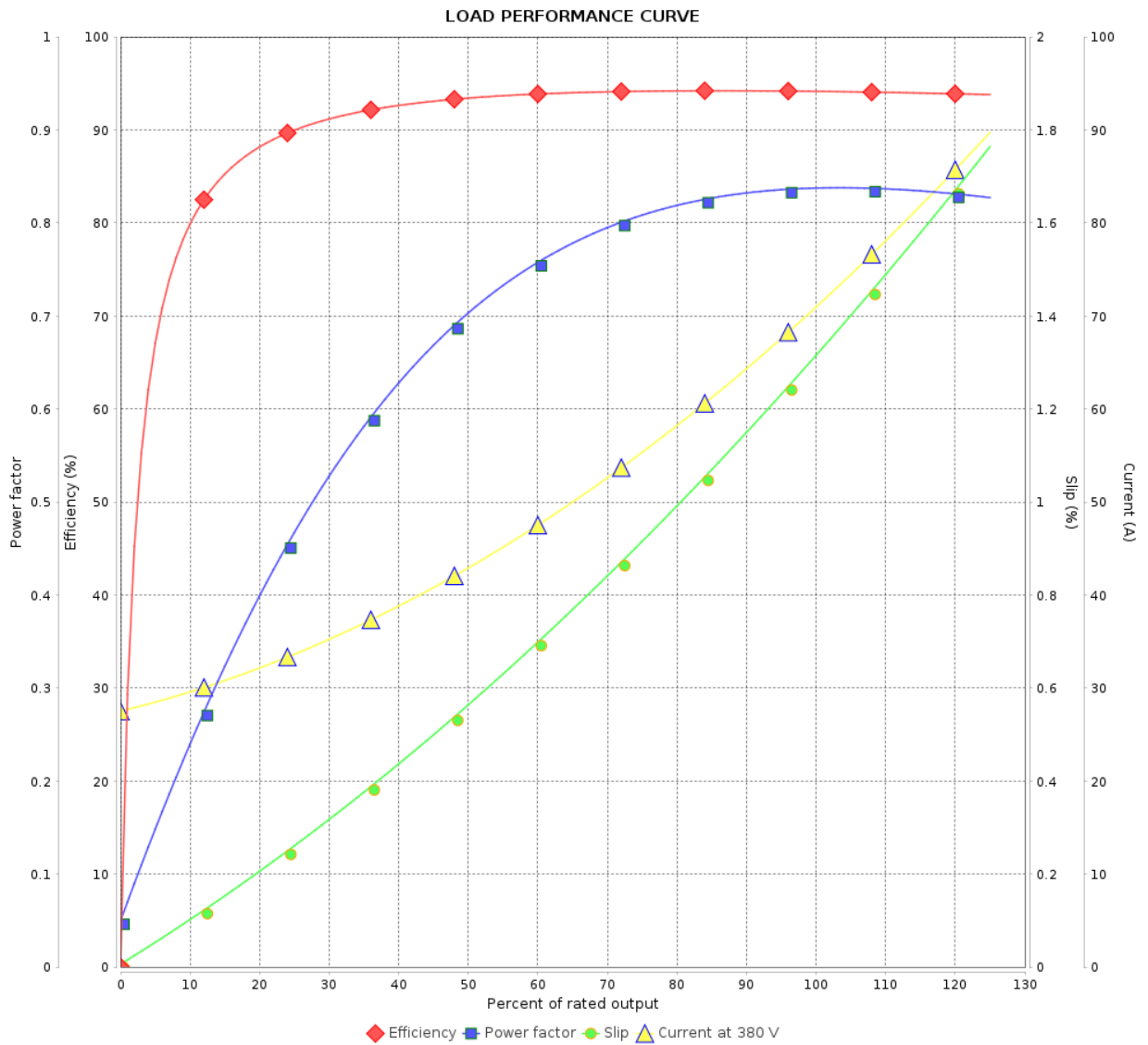


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Performance : 380 V 50 Hz 4P IE3

Rated current : 71.0 A
 LRC : 6.3
 Rated torque : 177 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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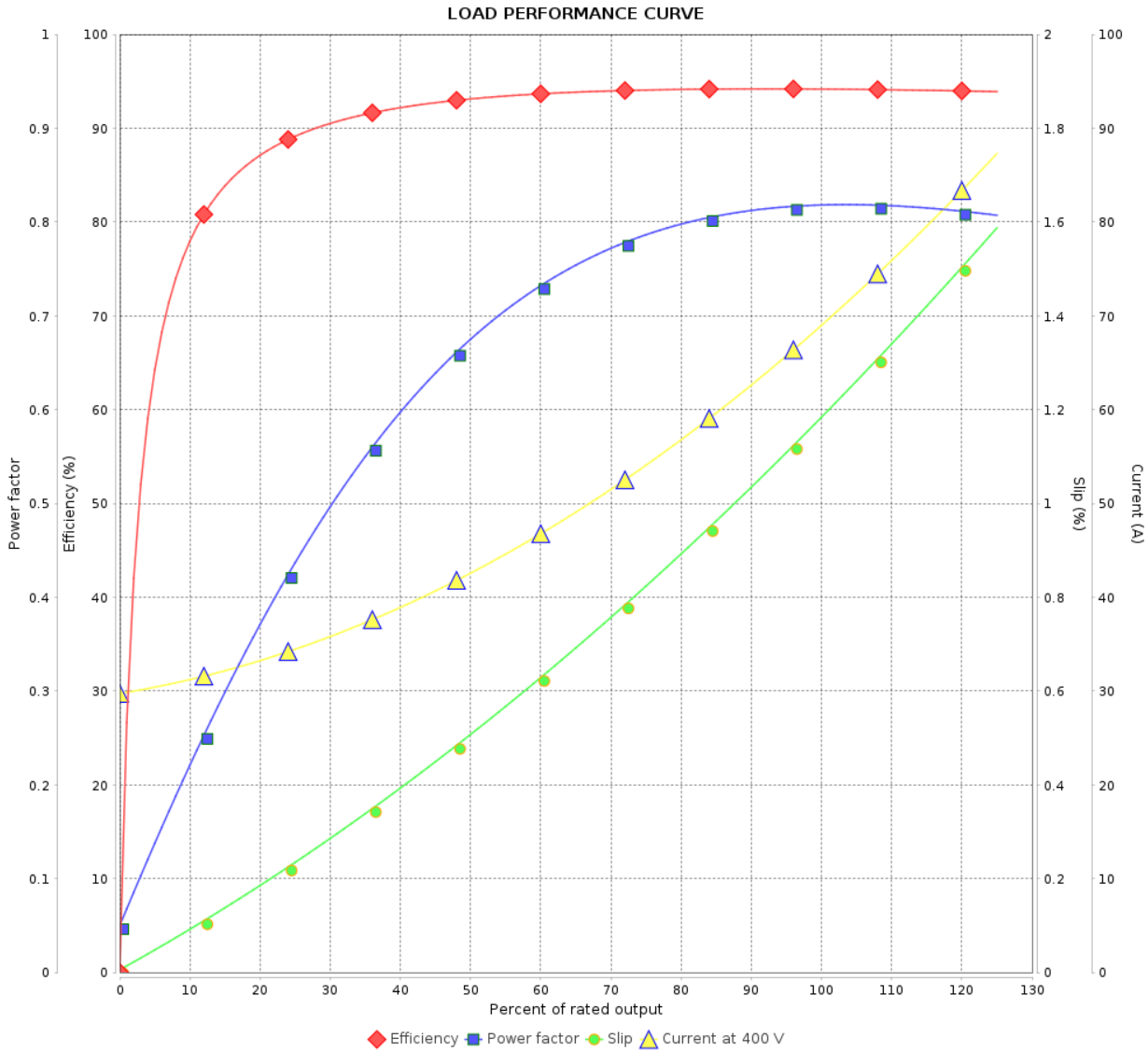


Customer :

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Product code : 16689688

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Performance : 400 V 50 Hz 4P IE3

Rated current	: 69.1 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1482 rpm	Design	: B

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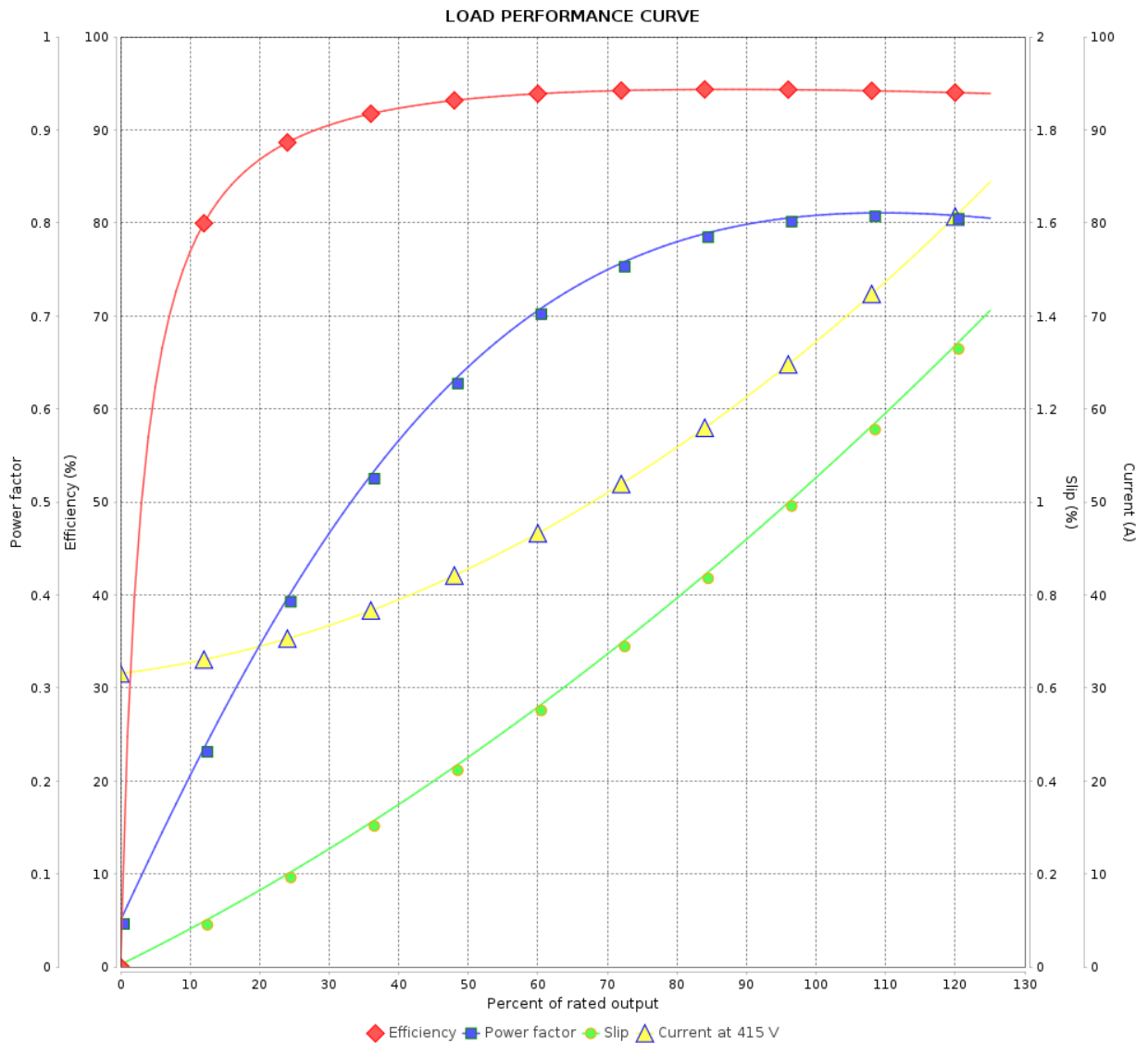


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Performance : 415 V 50 Hz 4P IE3

Rated current : 67.4 A
 LRC : 7.4
 Rated torque : 177 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1484 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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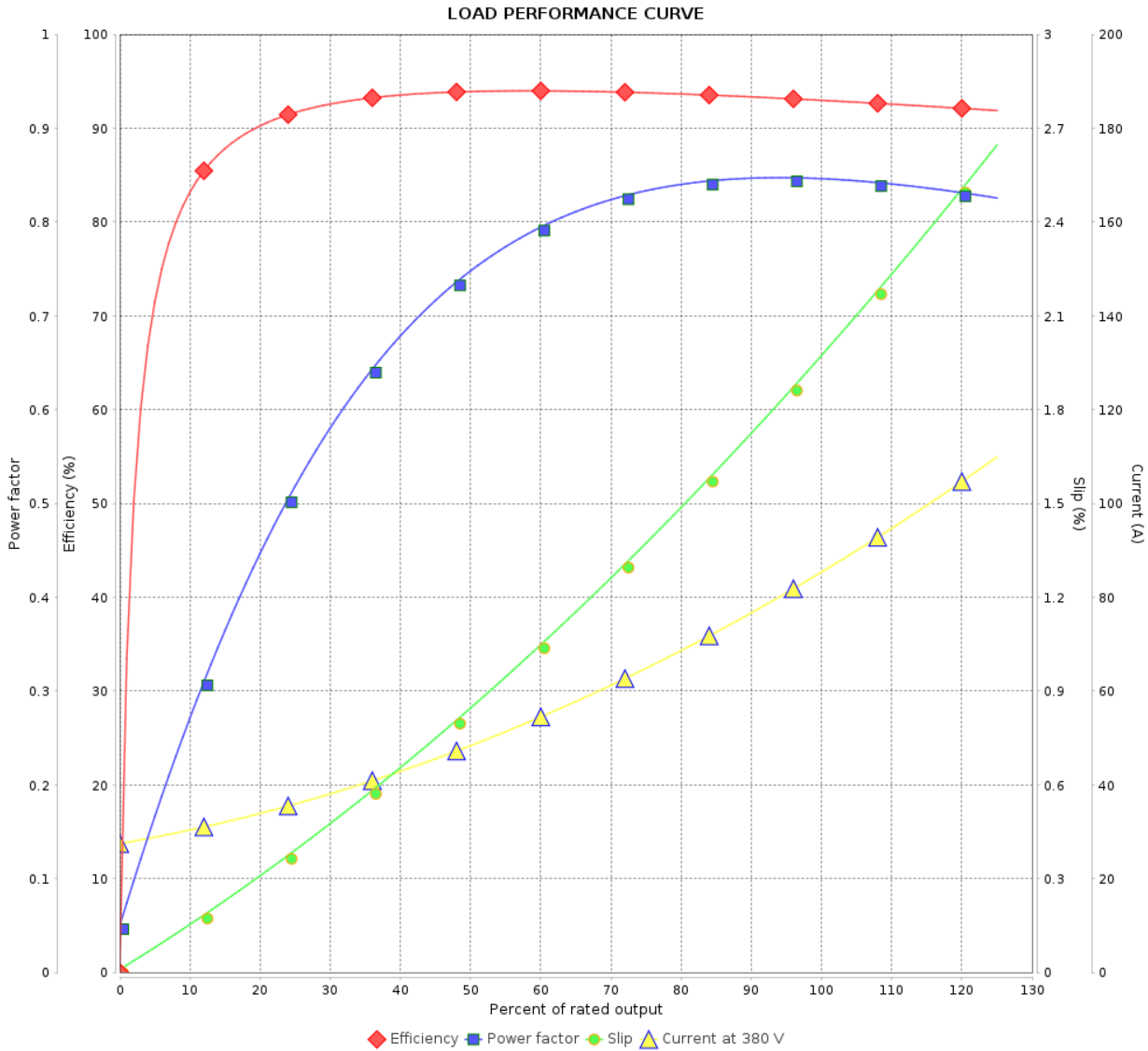


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Performance : 380 V 50 Hz 4P IE1

Rated current : 86.5 A
 LRC : 5.2
 Rated torque : 214 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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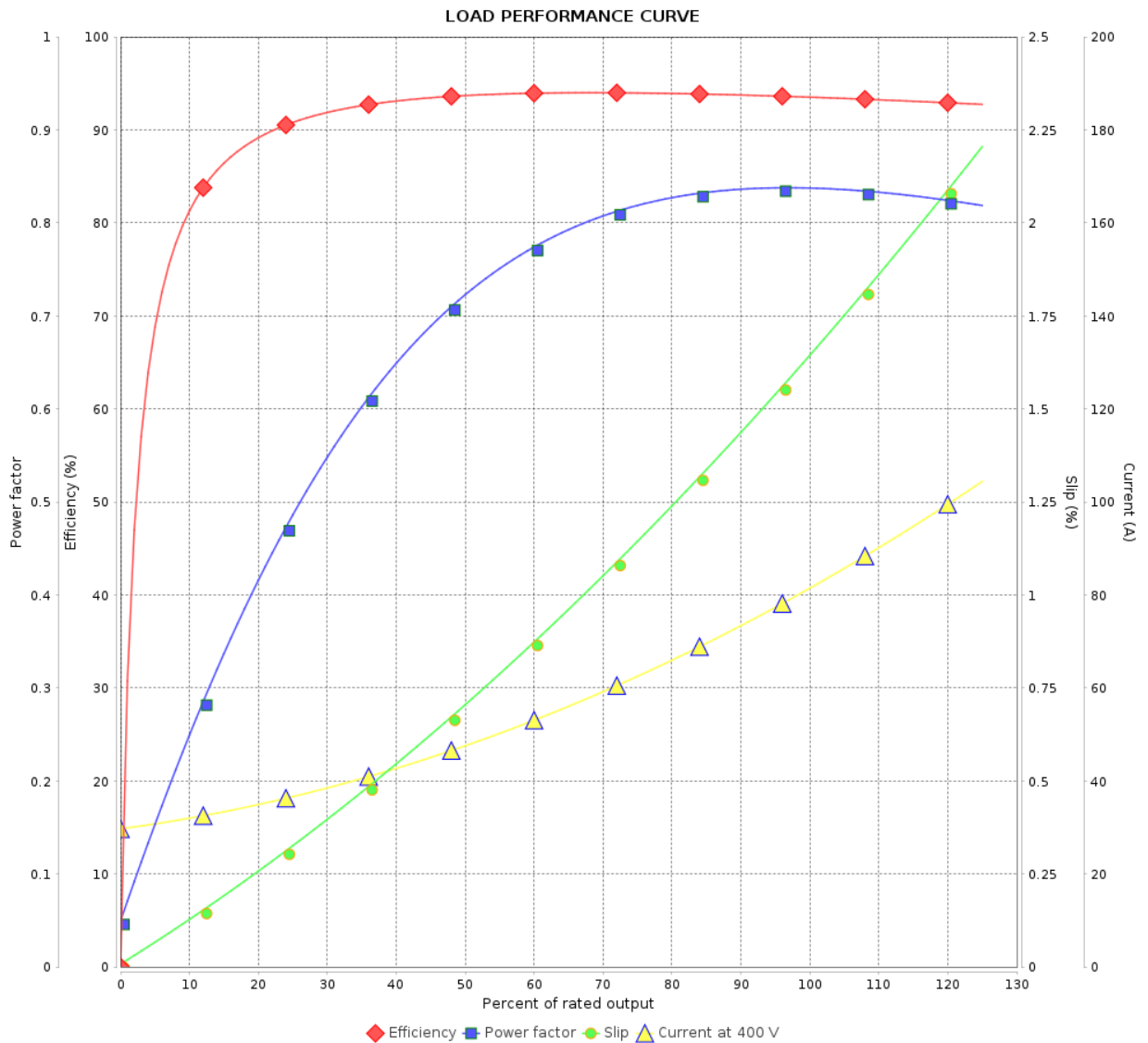


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Performance : 400 V 50 Hz 4P IE2

Rated current : 82.6 A
 LRC : 5.8
 Rated torque : 214 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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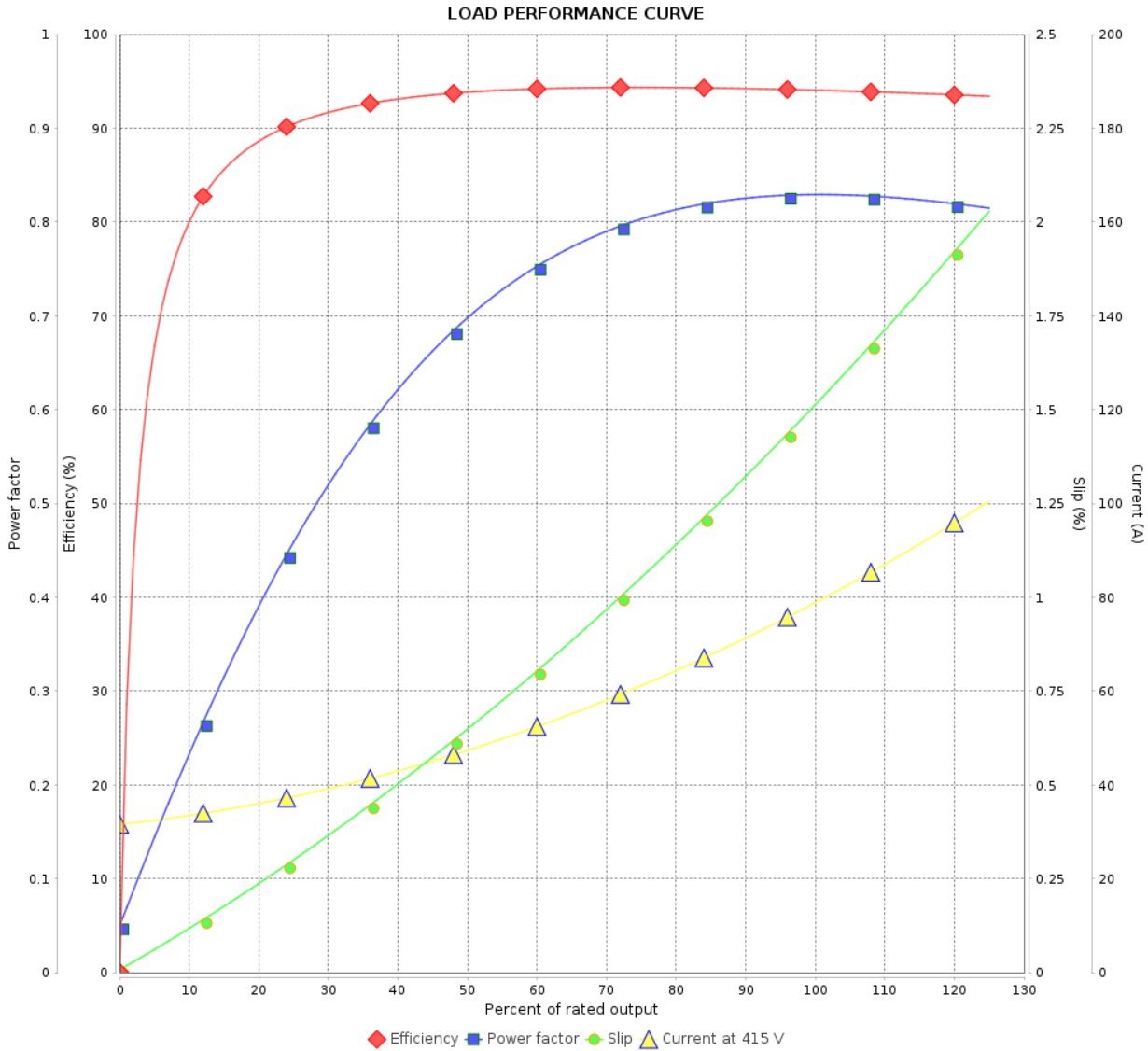


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Performance : 415 V 50 Hz 4P IE2

Rated current : 80.2 A
 LRC : 6.2
 Rated torque : 213 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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Performance : 460 V 60 Hz 4P

Rated current : 71.6 A	Moment of inertia (J) : 22.4 sq.ft.lb
LRC : 6.2	Duty cycle : Cont.(S1)
Rated torque : 177 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.15
Breakdown torque : 240 %	Temperature rise : 80 K
Rated speed : 1780 rpm	Design : B

Heating constant

Cooling constant

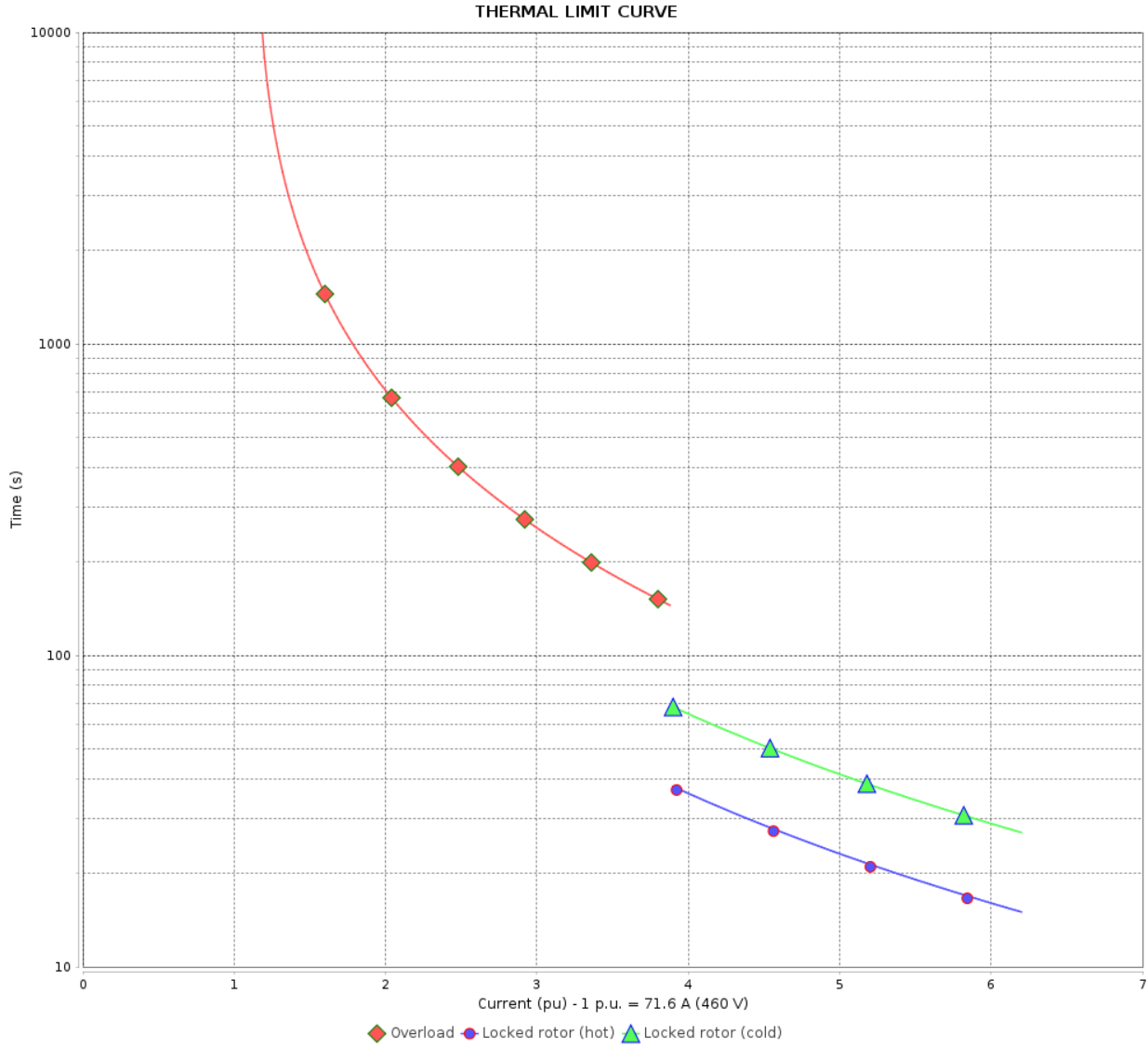
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Customer :

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Performance : 380 V 50 Hz 4P IE3

Rated current : 71.0 A	Moment of inertia (J) : 22.4 sq.ft.lb
LRC : 6.3	Duty cycle : Cont.(S1)
Rated torque : 177 ft.lb	Insulation class : F
Locked rotor torque : 200 %	Service factor : 1.00
Breakdown torque : 240 %	Temperature rise : 80 K
Rated speed : 1480 rpm	Design : B

Heating constant

Cooling constant

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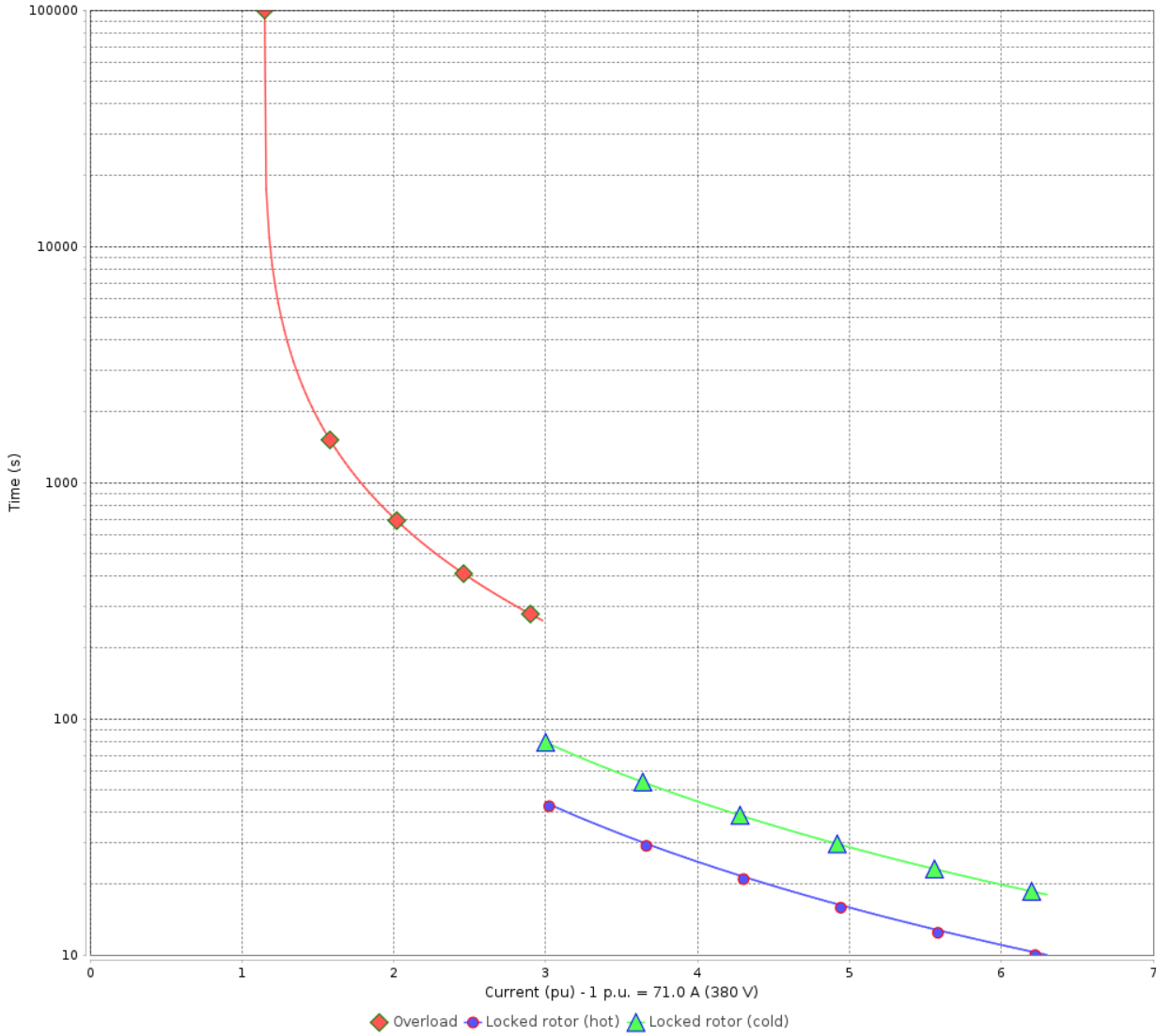
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Three Phase Induction Motor - Squirrel Cage



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Rated torque : 177 ft.lb	Insulation class : F
Locked rotor torque : 220 %	Service factor : 1.00
Breakdown torque : 260 %	Temperature rise : 80 K
Rated speed : 1482 rpm	Design : B

Heating constant

Cooling constant

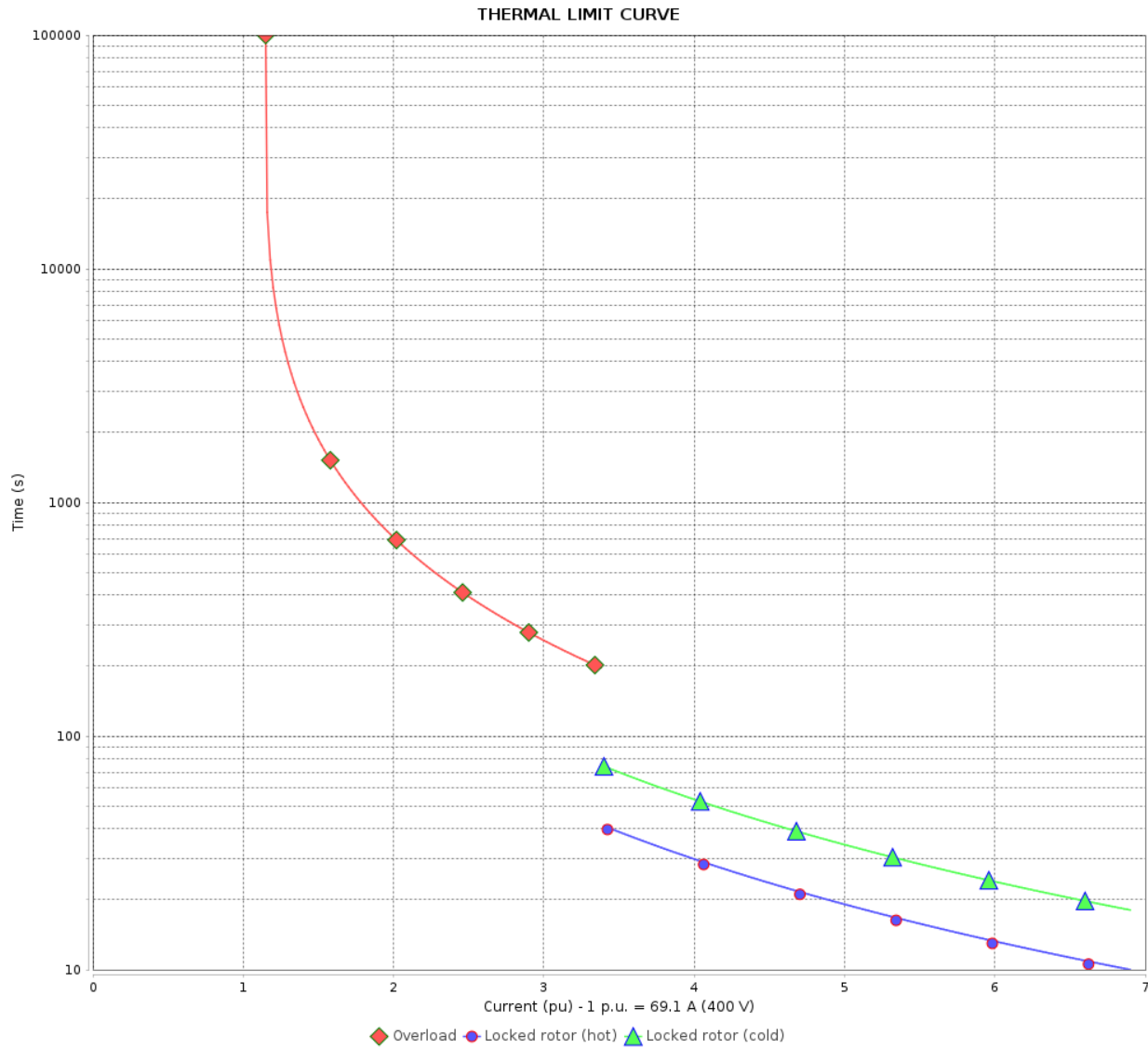
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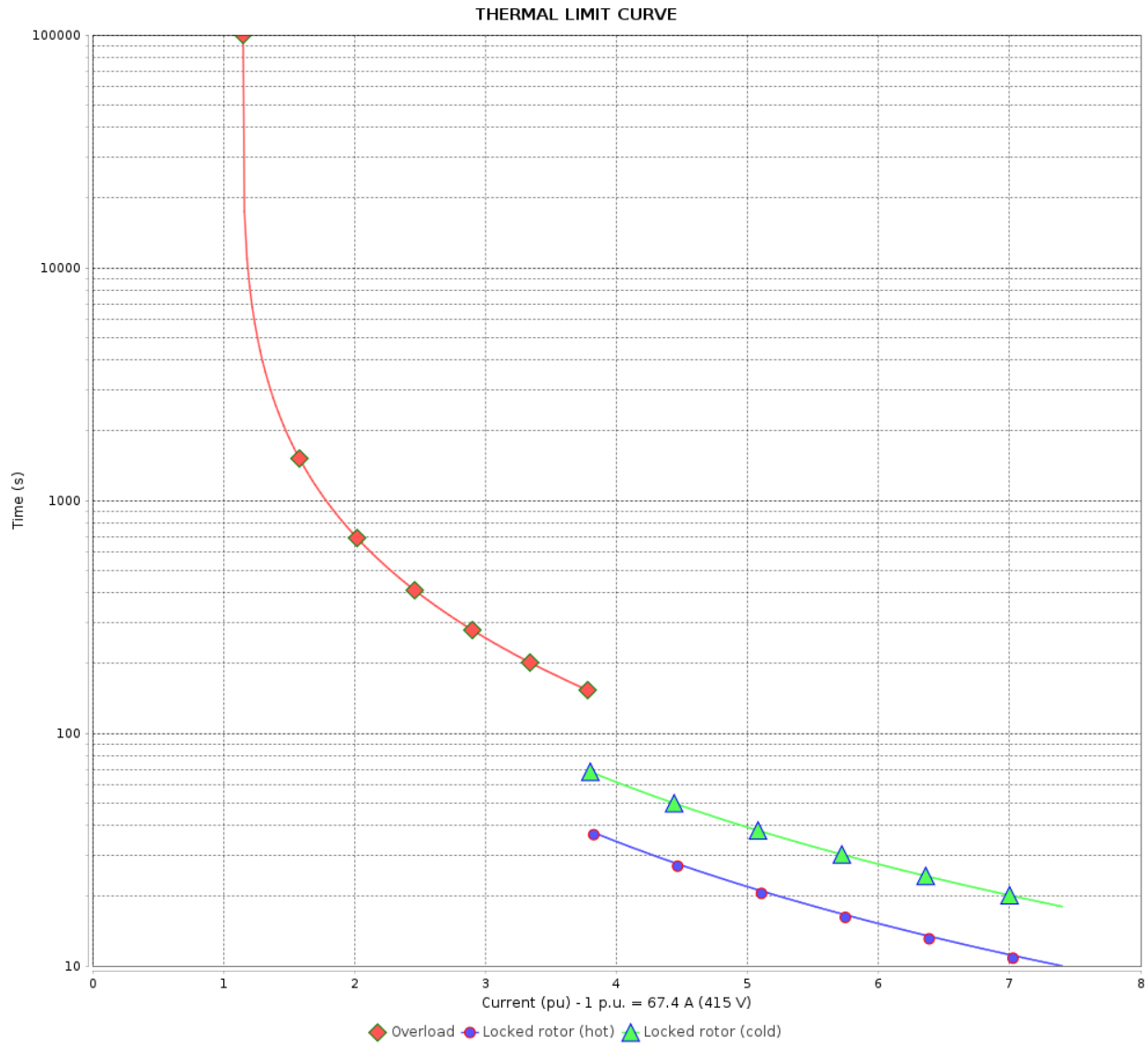
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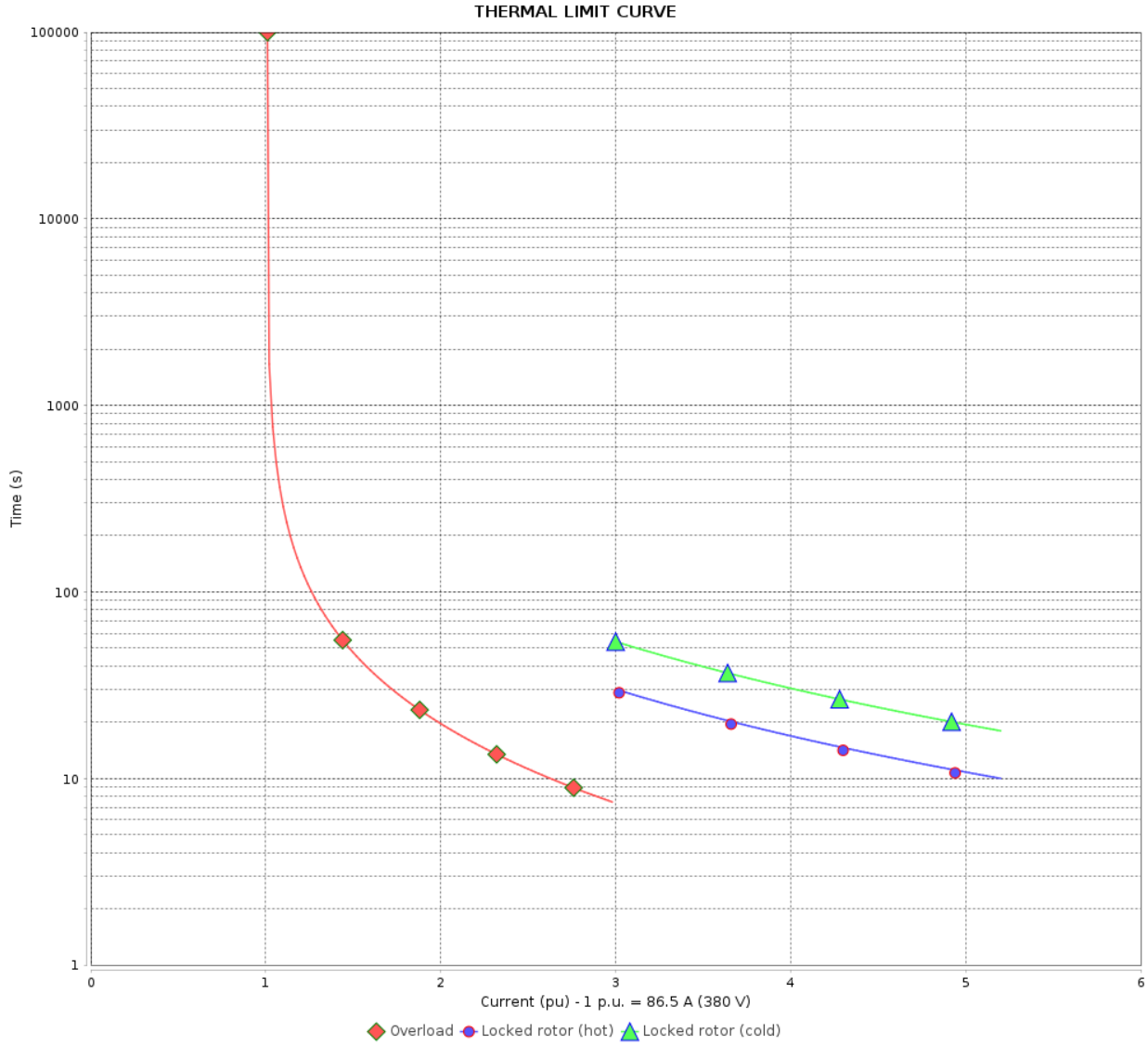
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase
 Product code : 16689688
 Catalog # : 06018ST3QAP364T-W22

Performance : 400 V 50 Hz 4P IE2

Rated current : 82.6 A	Moment of inertia (J) : 22.4 sq.ft.lb
LRC : 5.8	Duty cycle : Cont.(S1)
Rated torque : 214 ft.lb	Insulation class : F
Locked rotor torque : 180 %	Service factor : 1.00
Breakdown torque : 210 %	Temperature rise : 105 K
Rated speed : 1475 rpm	Design : B

Heating constant

Cooling constant

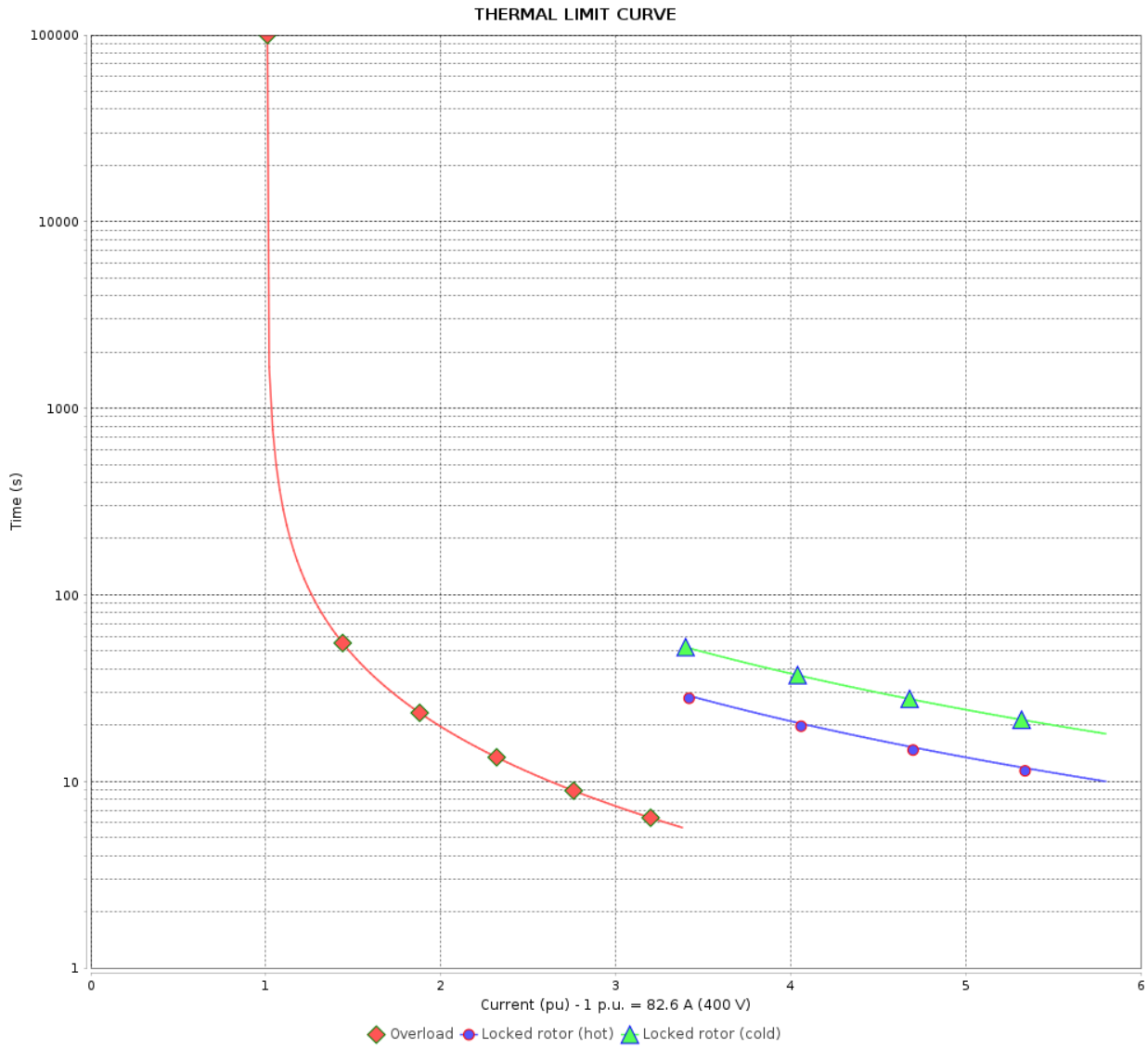
Rev.	Changes Summary	Performed	Checked	Date
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Date	04/10/2023			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22

Performance : 415 V 50 Hz 4P IE2

Rated current : 80.2 A
LRC : 6.2
Rated torque : 213 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1477 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

Heating constant

Cooling constant

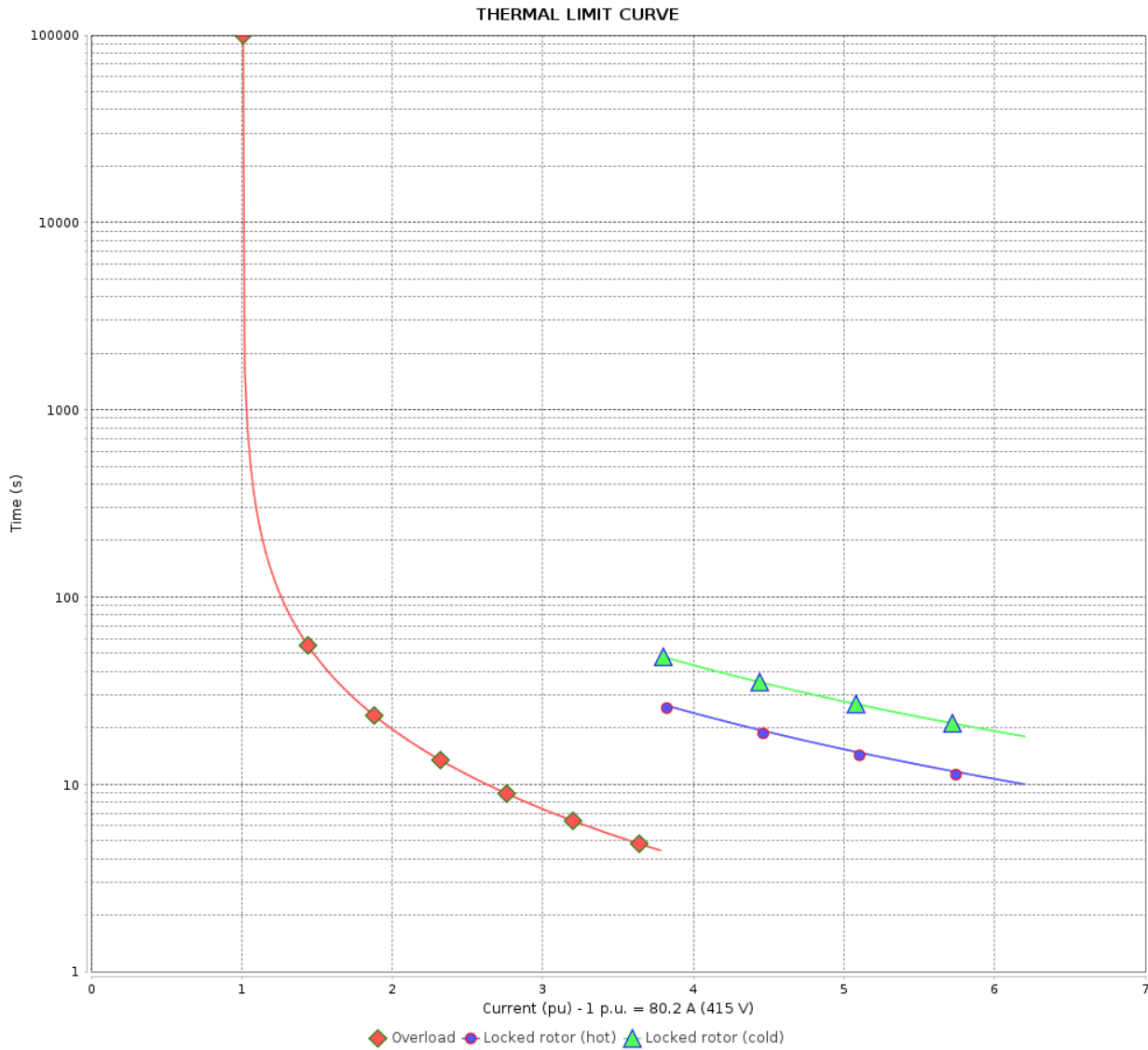
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

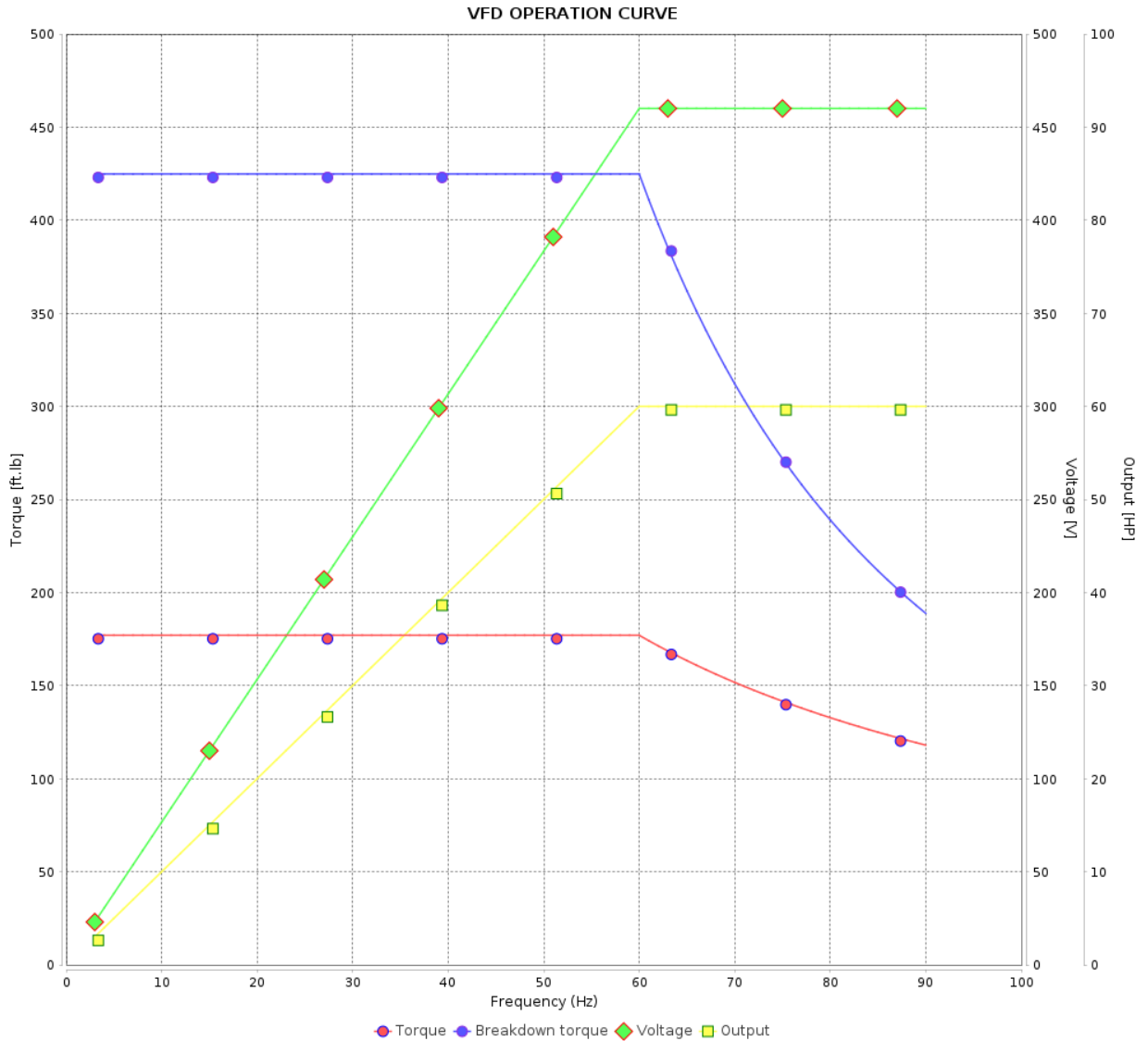


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 460 V 60 Hz 4P

Rated current : 71.6 A
 LRC : 6.2
 Rated torque : 177 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1780 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

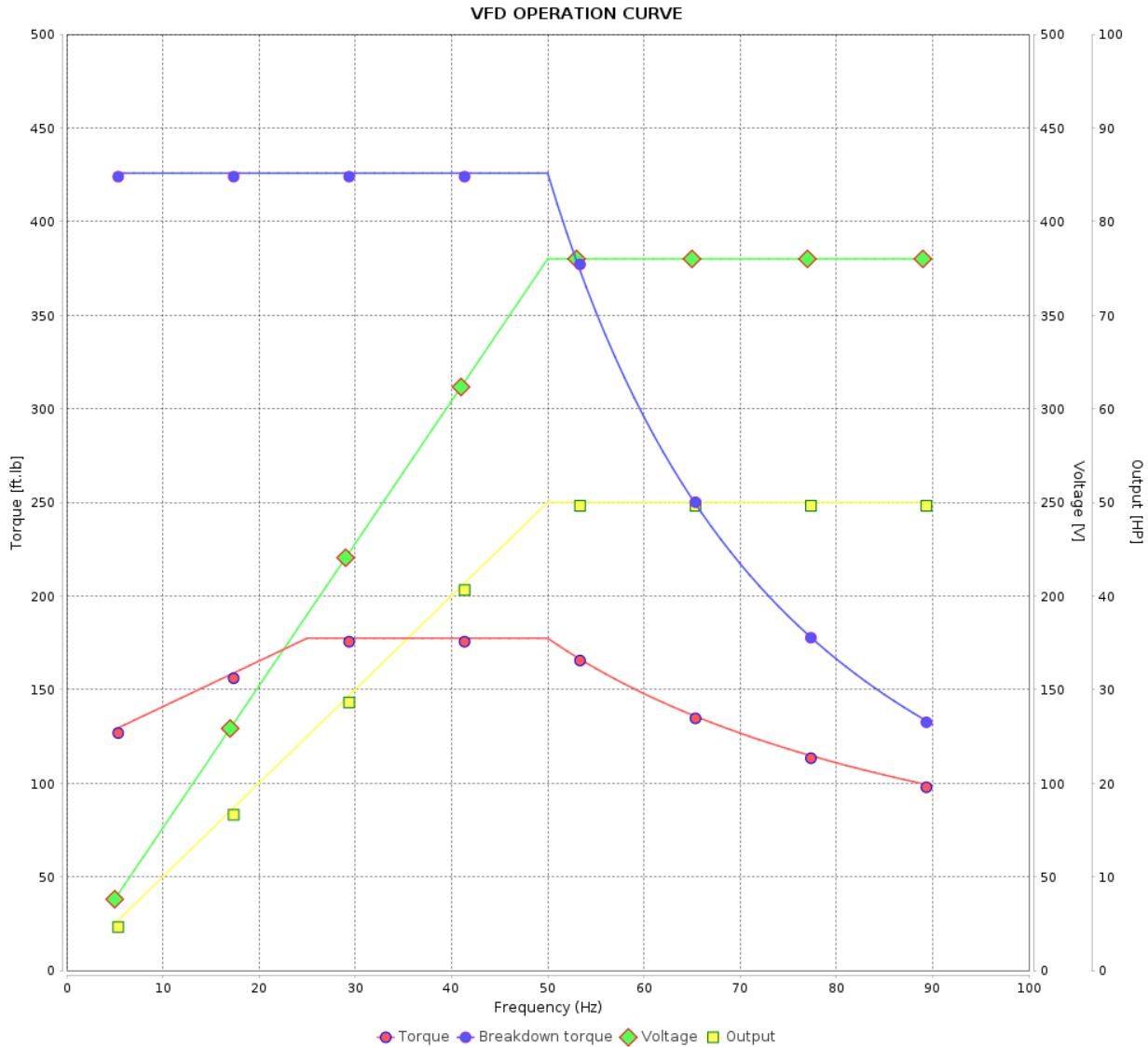


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency
Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 380 V 50 Hz 4P IE3

Rated current : 71.0 A
LRC : 6.3
Rated torque : 177 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1480 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

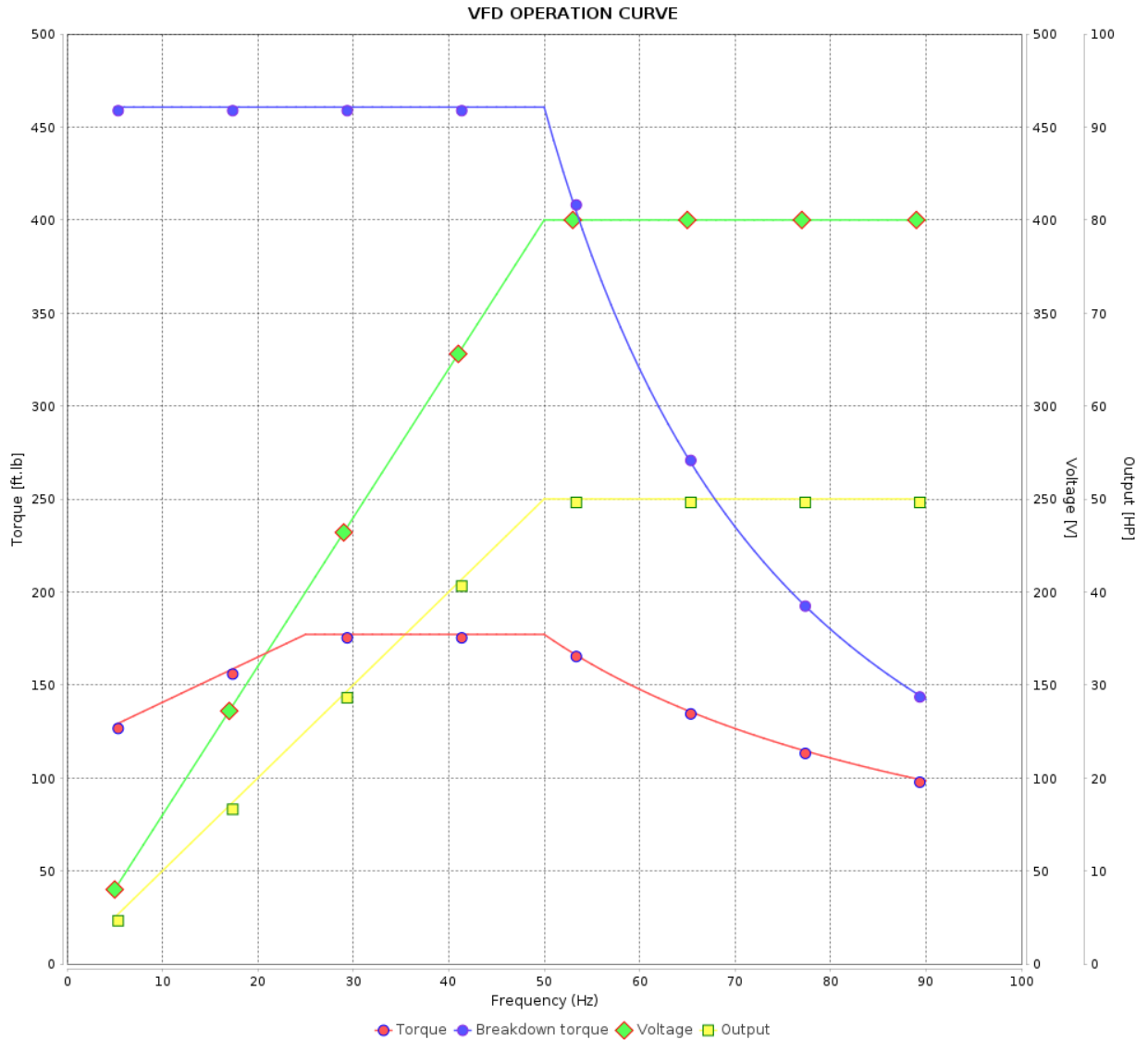


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 400 V 50 Hz 4P IE3

Rated current : 69.1 A
 LRC : 6.9
 Rated torque : 177 ft.lb
 Locked rotor torque : 220 %
 Breakdown torque : 260 %
 Rated speed : 1482 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

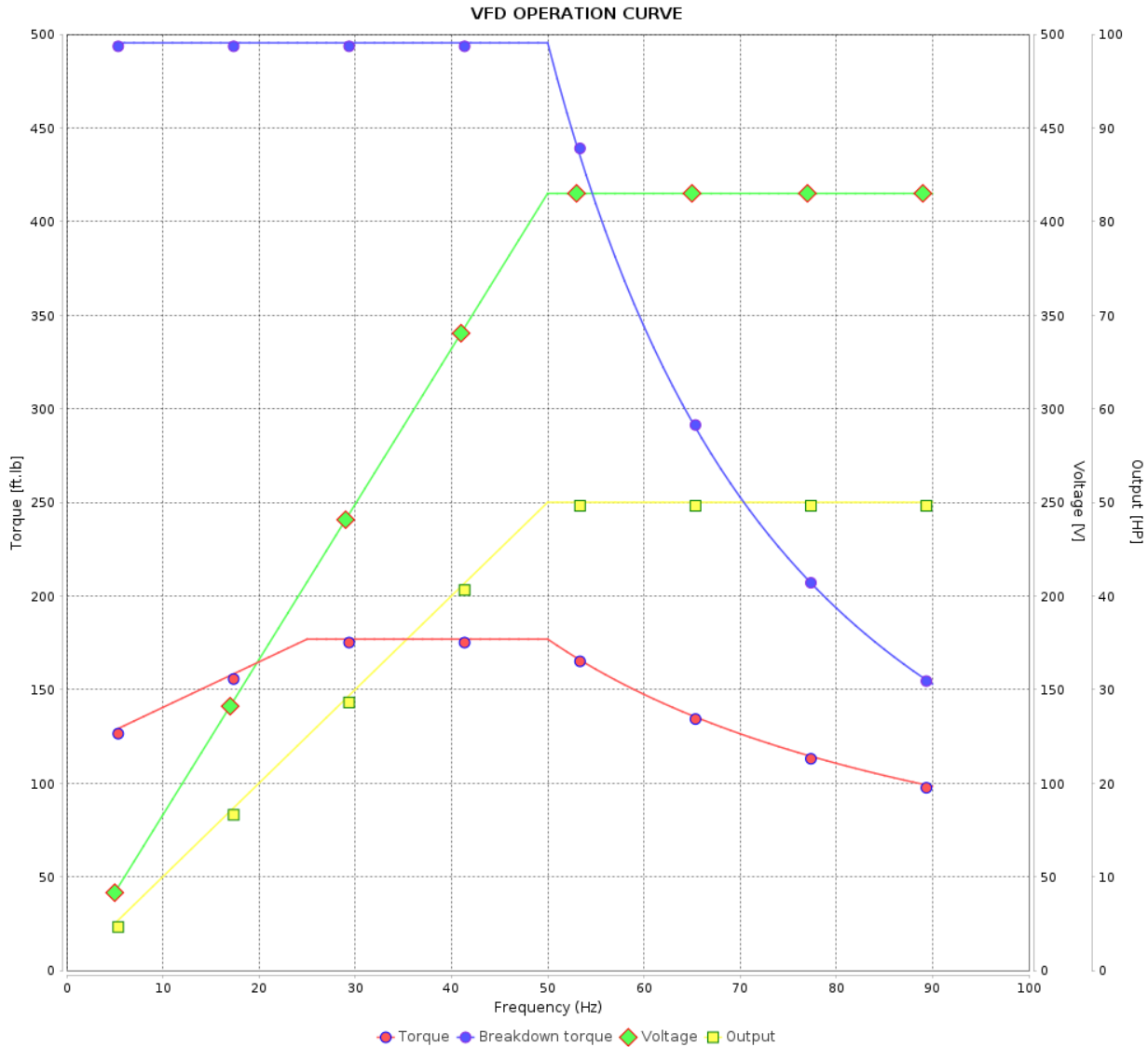


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 415 V 50 Hz 4P IE3

Rated current : 67.4 A
 LRC : 7.4
 Rated torque : 177 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 1484 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

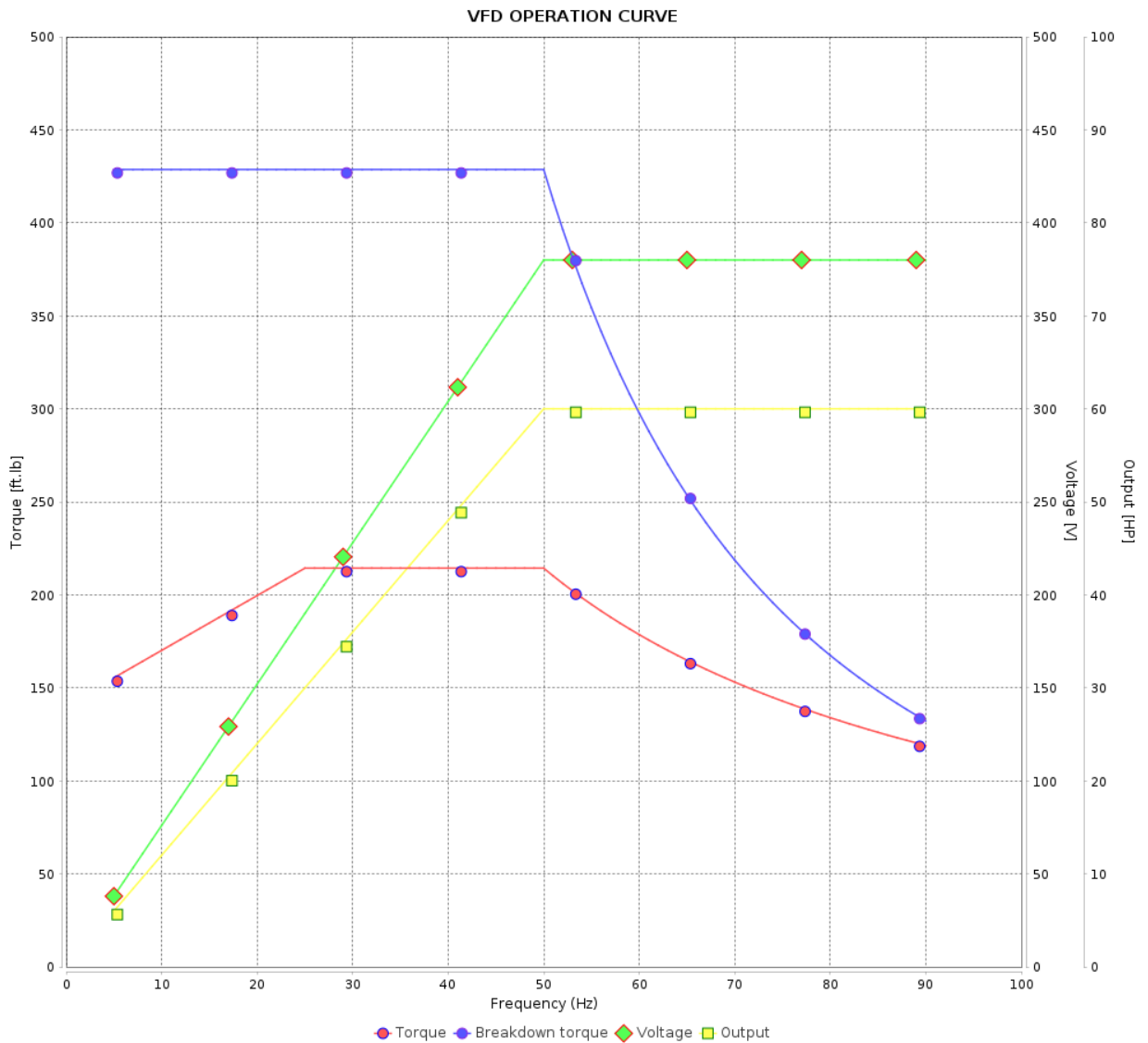


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 380 V 50 Hz 4P IE1

Rated current : 86.5 A
 LRC : 5.2
 Rated torque : 214 ft.lb
 Locked rotor torque : 160 %
 Breakdown torque : 200 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 22.4 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

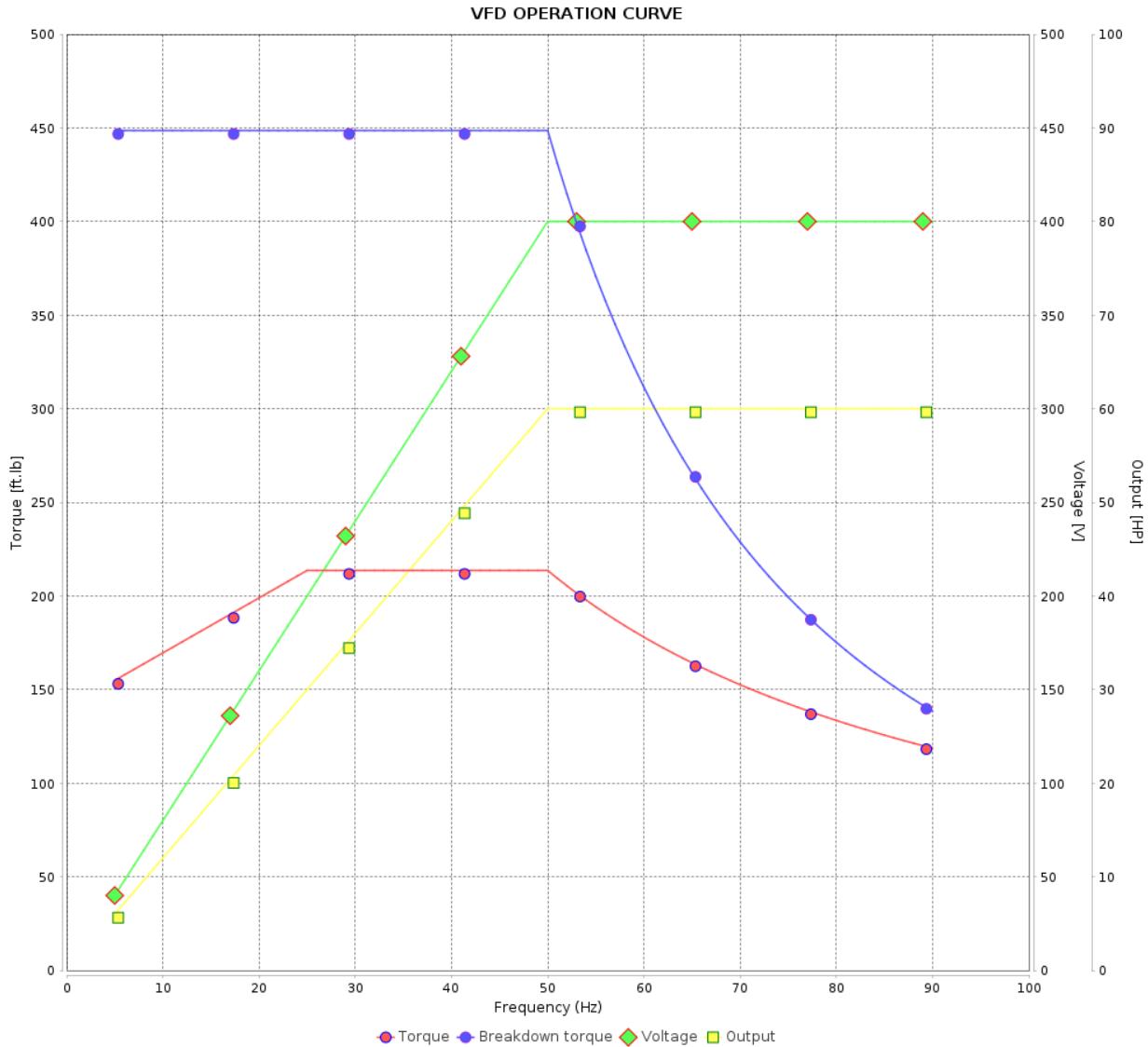


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase

Product code : 16689688

Catalog # : 06018ST3QAP364T-W22



Performance : 400 V 50 Hz 4P IE2

Rated current : 82.6 A
 LRC : 5.8
 Rated torque : 214 ft.lb
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 22.4 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

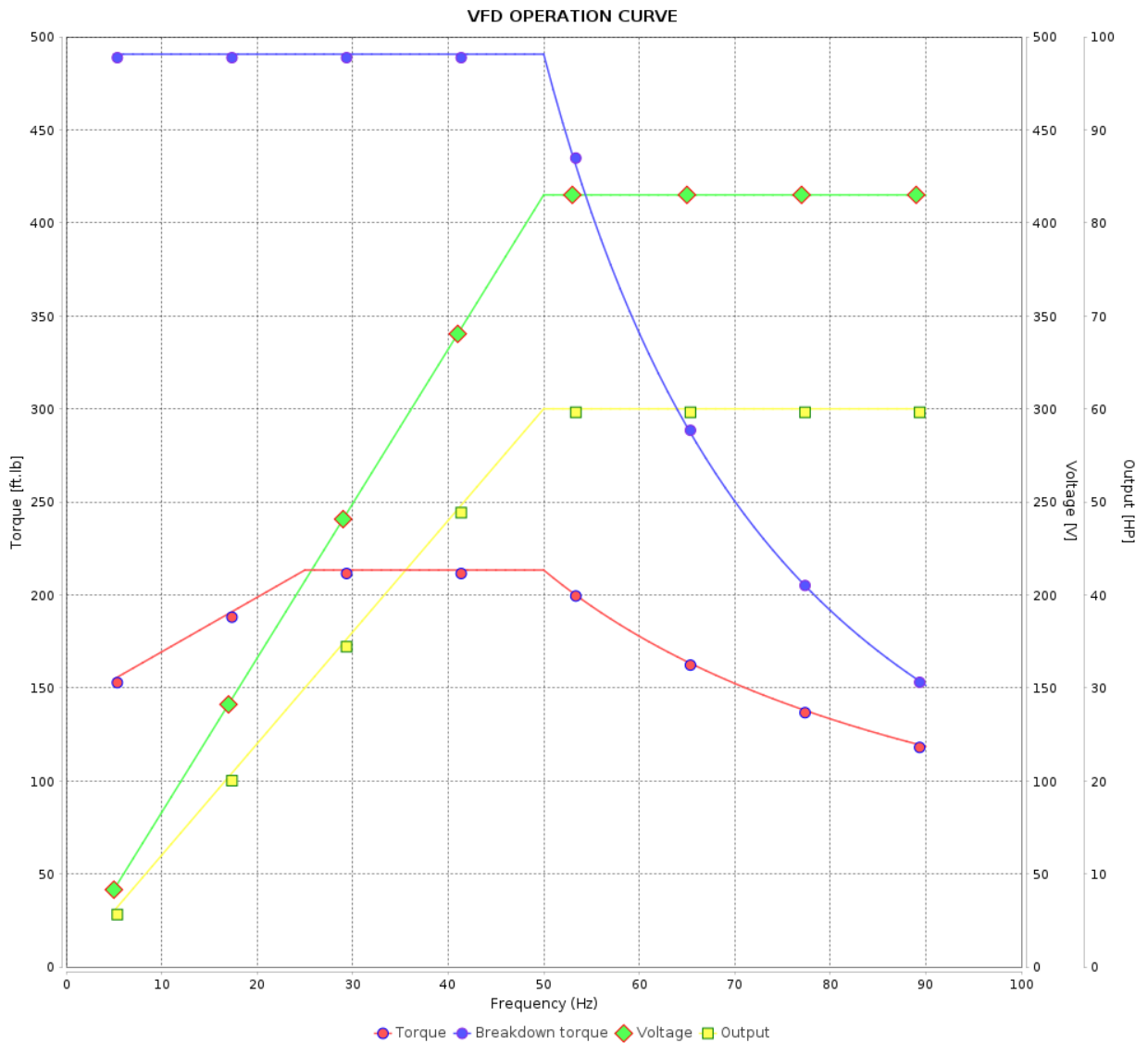


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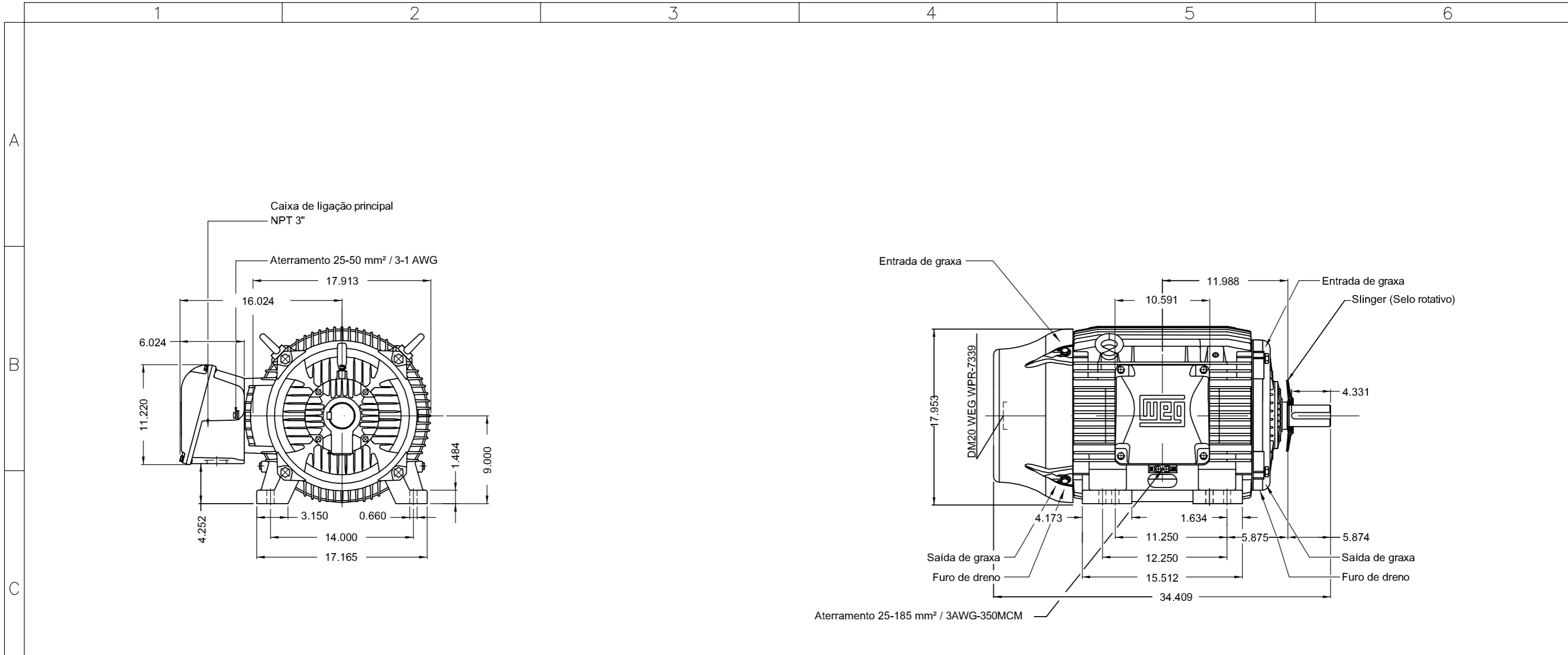


Performance : 415 V 50 Hz 4P IE2

Rated current : 80.2 A
 LRC : 6.2
 Rated torque : 213 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 1477 rpm

Moment of inertia (J) : 22.4 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K
 Design : B

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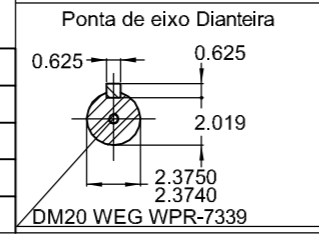
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Placa de identificação com a marcação API 661
Placa de identificação com marcação especial
Saída de graxa conforme IEEE841
Forma construtiva NEMA W-8
Forma construtiva V6D



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