

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11082685				
		Catalog # :	03018OT3E286TC				
Frame	: 286TC	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	: 421 lb				
Protection degree	: IP23	Moment of inertia (J)	: 4.90 sq.ft.lb				
Design	: B						
Output [HP]	30	25	25	25	30	30	30
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	78.3-70.8/35.4	36.2	35.2	34.7	43.1	41.9	40.6
L. R. Amperes [A]	525-474/237	228	247	260	228	247	260
LRC [A]	6.7x(Code G)	6.3x(Code G)	7.0x(Code H)	7.5x(Code J)	5.3x(Code F)	5.9x(Code G)	6.4x(Code G)
No load current [A]	25.9-30.0/15.0	15.2	16.5	17.9	15.2	16.5	17.9
Rated speed [RPM]	1770	1465	1465	1470	1460	1460	1465
Slip [%]	1.67	2.33	2.33	2.00	2.67	2.67	2.33
Rated torque [ft.lb]	87.8	88.4	88.4	88.1	106	106	106
Locked rotor torque [%]	260	280	300	340	229	250	280
Breakdown torque [%]	280	310	340	370	260	280	310
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)
Noise level ²	63.0 dB(A)						
Efficiency (%)	25%	93.4	90.5	90.3	89.4	92.1	91.6
	50%	93.6	90.9	90.7	90.2	92.3	92.3
	75%	94.1	92.6	92.6	92.6	92.4	92.4
	100%	94.1	92.7	92.7	93.1	92.4	93.0
Power Factor	25%	0.43	0.43	0.39	0.36	0.48	0.40
	50%	0.70	0.68	0.63	0.60	0.73	0.65
	75%	0.80	0.79	0.75	0.72	0.82	0.77
	100%	0.83	0.83	0.81	0.79	0.84	0.81
Bearing type	: Drive end : 6311 Z C3	: Non drive end : 6211 Z C3	Foundation loads				
Sealing	: Without	: Without	Max. traction : 1243 lb				
	Bearing Seal		Max. compression : 1664 lb				
Lubrication interval	: 20000 h	: 20000 h					
Lubricant amount	: 18 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.			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

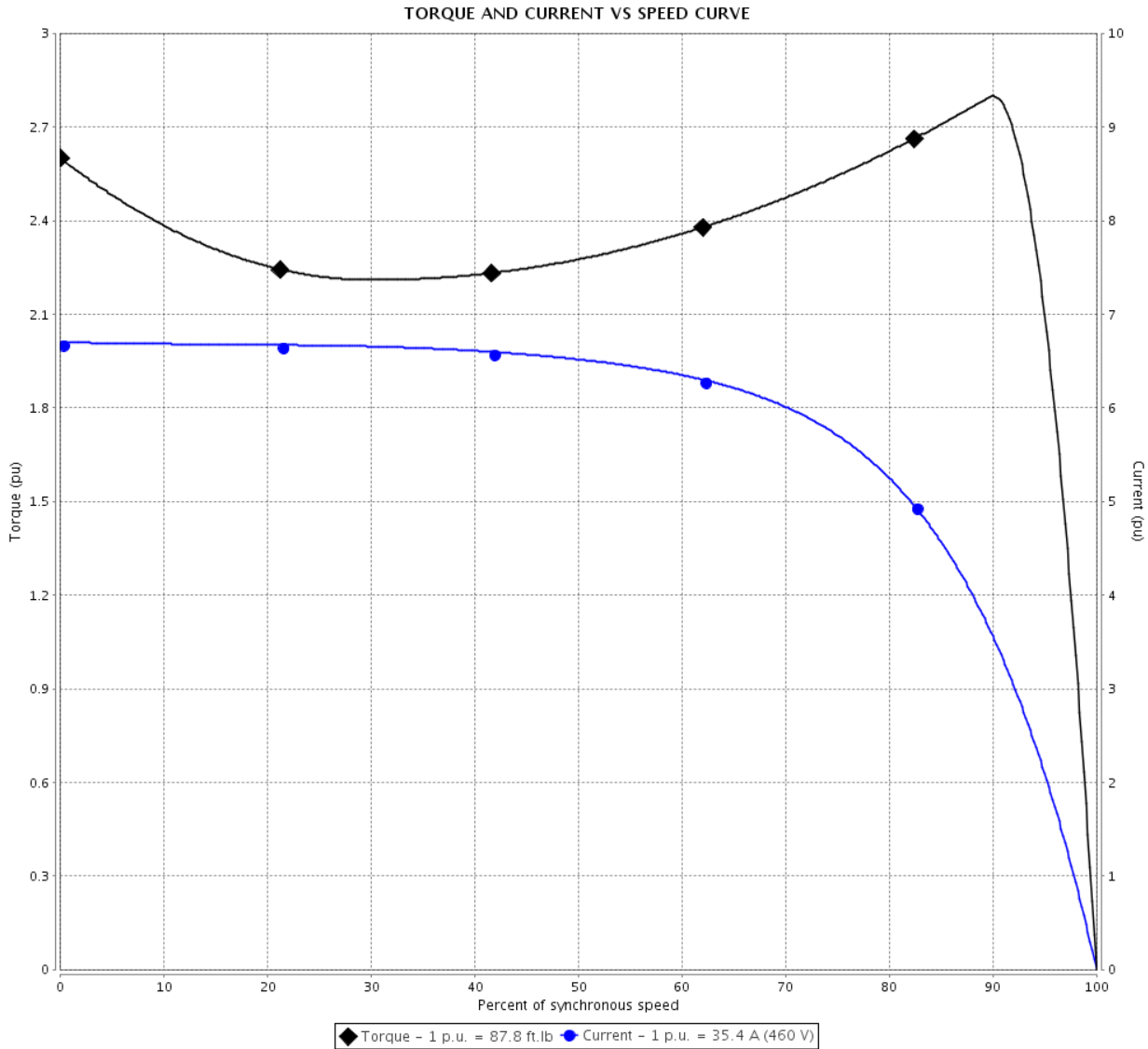


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 208-230/460 V 60 Hz 4P

Rated current	: 78.3-70.8/35.4 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 87.8 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



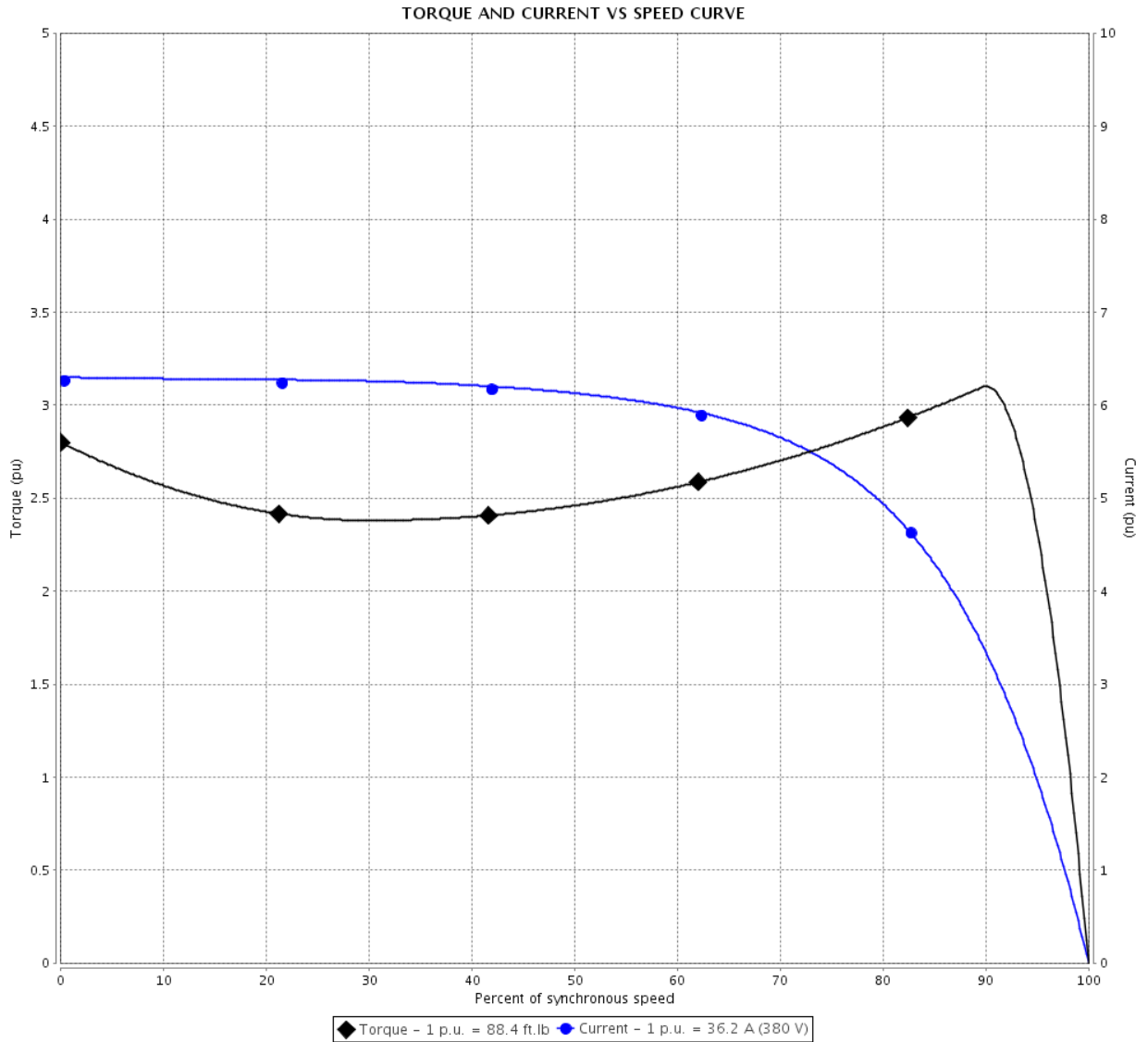
Three Phase Induction Motor - Squirrel Cage

Customer :

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Three-Phase

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Performance : 380 V 50 Hz 4P IE3

Rated current	: 36.2 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 88.4 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



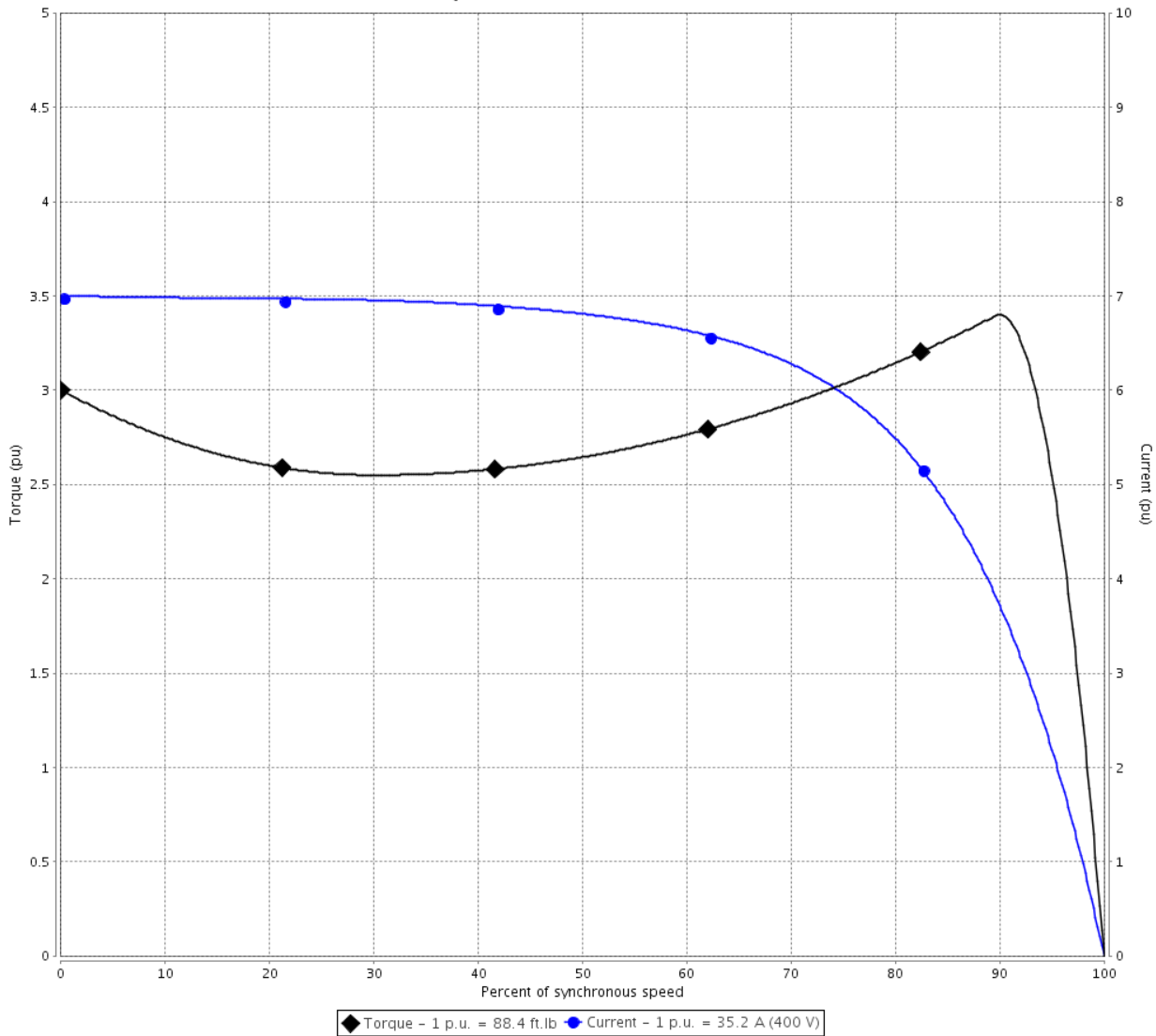
Customer :

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TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 4P IE3

Rated current	: 35.2 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 88.4 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



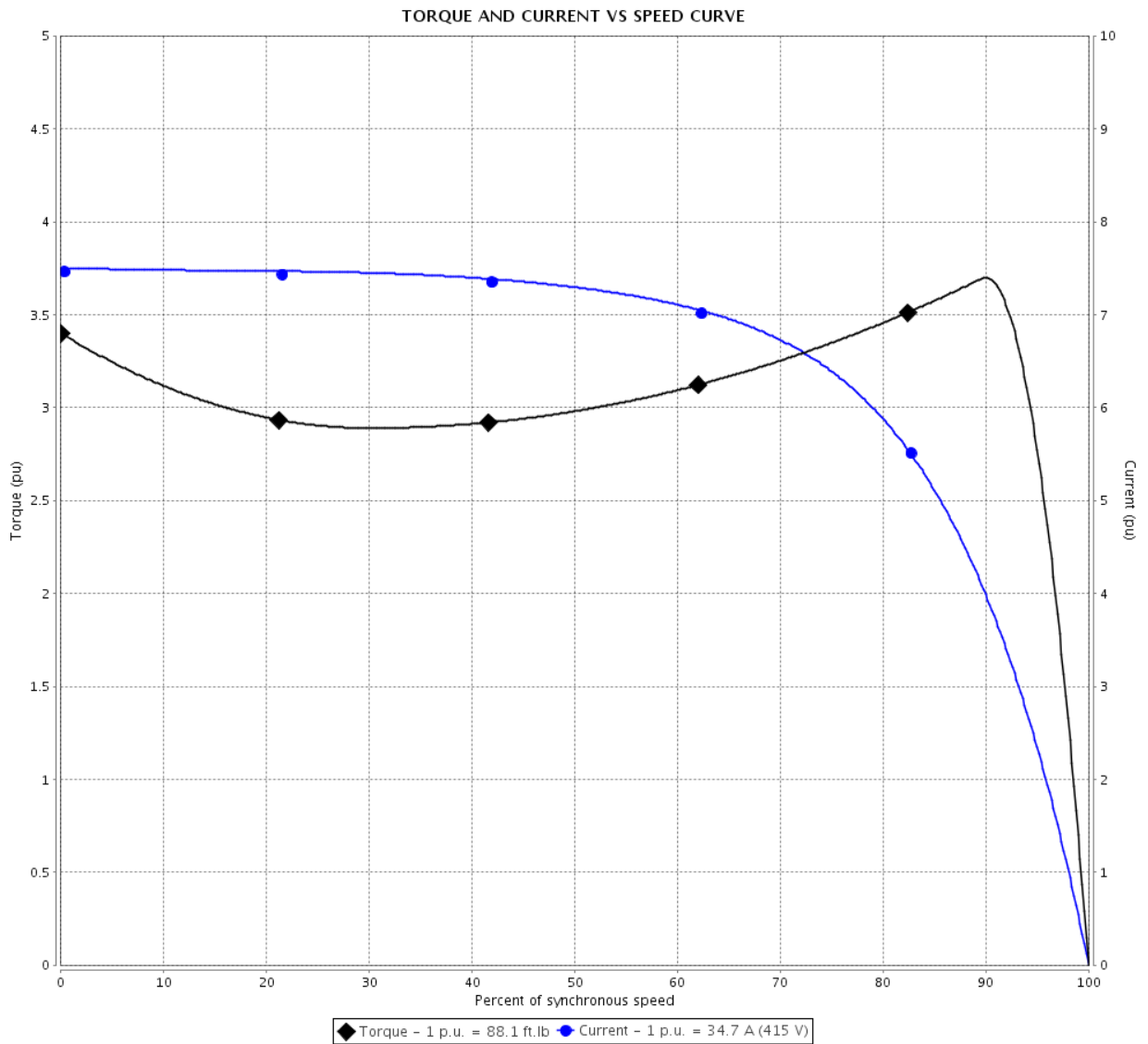
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Customer :

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Product code : 11082685

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Performance : 415 V 50 Hz 4P IE3

Rated current	: 34.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 88.1 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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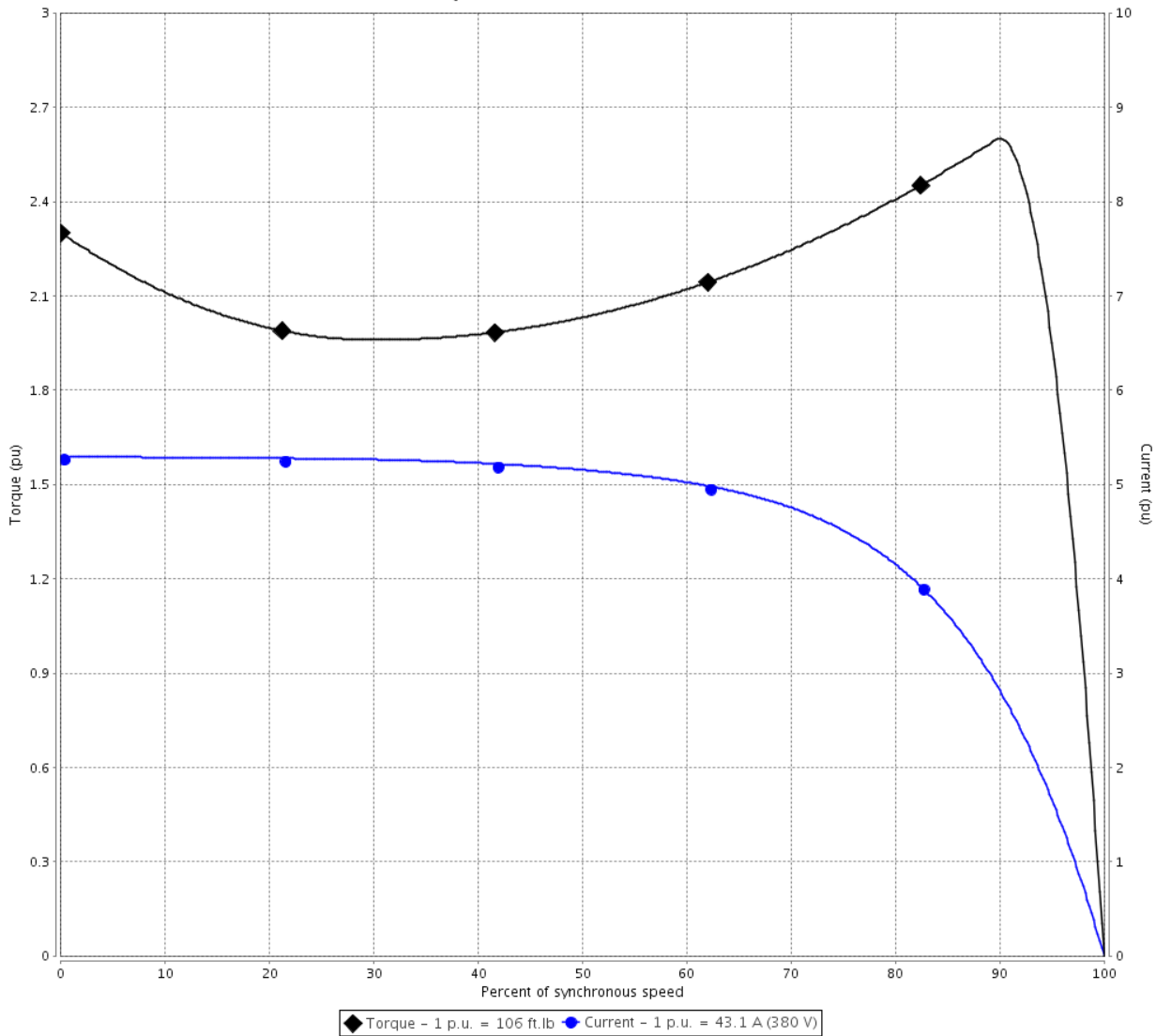
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TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 4P IE2

Rated current	: 43.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



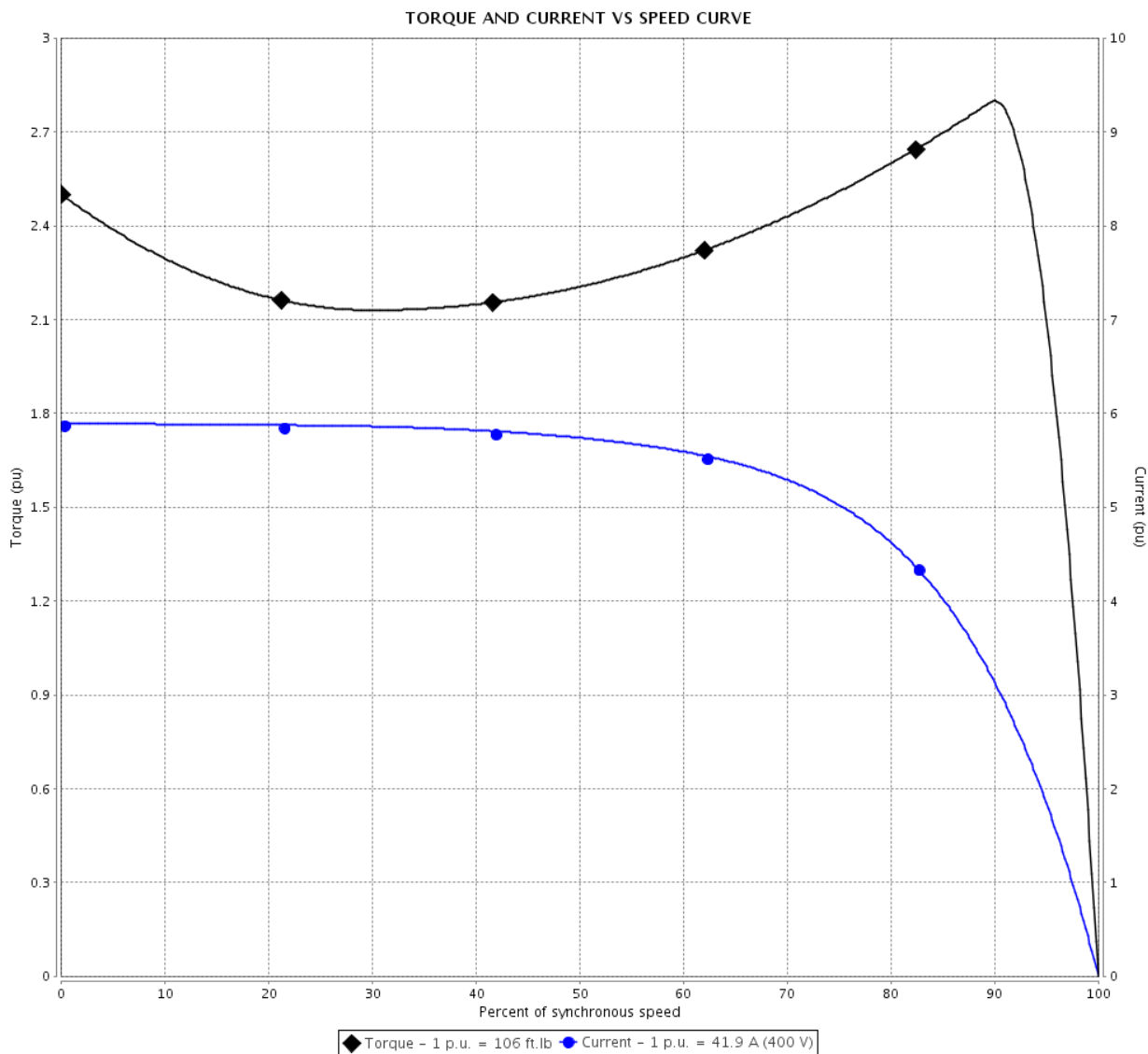
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Performance : 400 V 50 Hz 4P IE2

Rated current	: 41.9 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1460 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



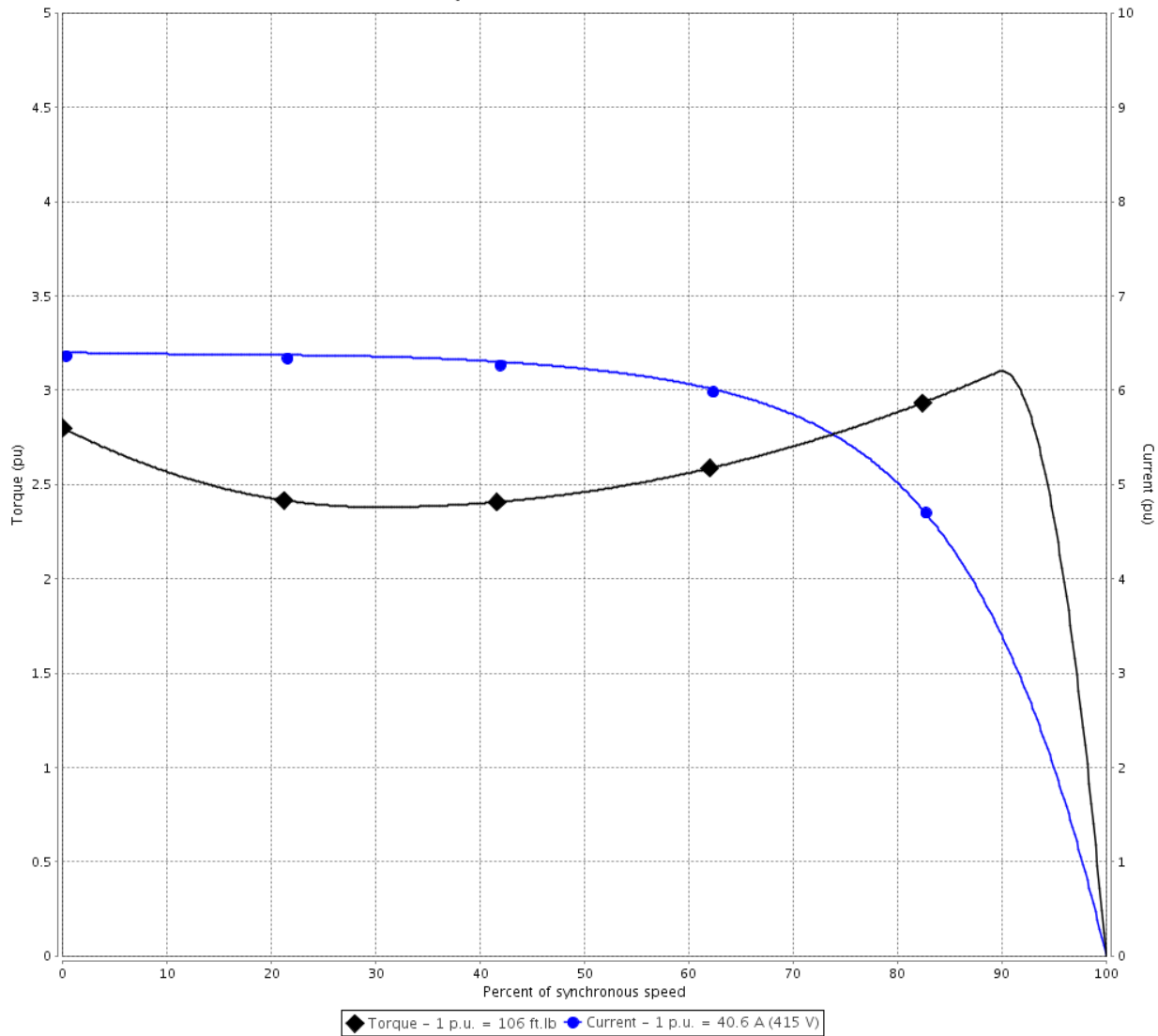
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Catalog # : 03018OT3E286TC

TORQUE AND CURRENT VS SPEED CURVE



Performance : 415 V 50 Hz 4P IE3

Rated current	: 40.6 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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

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Three Phase Induction Motor - Squirrel Cage

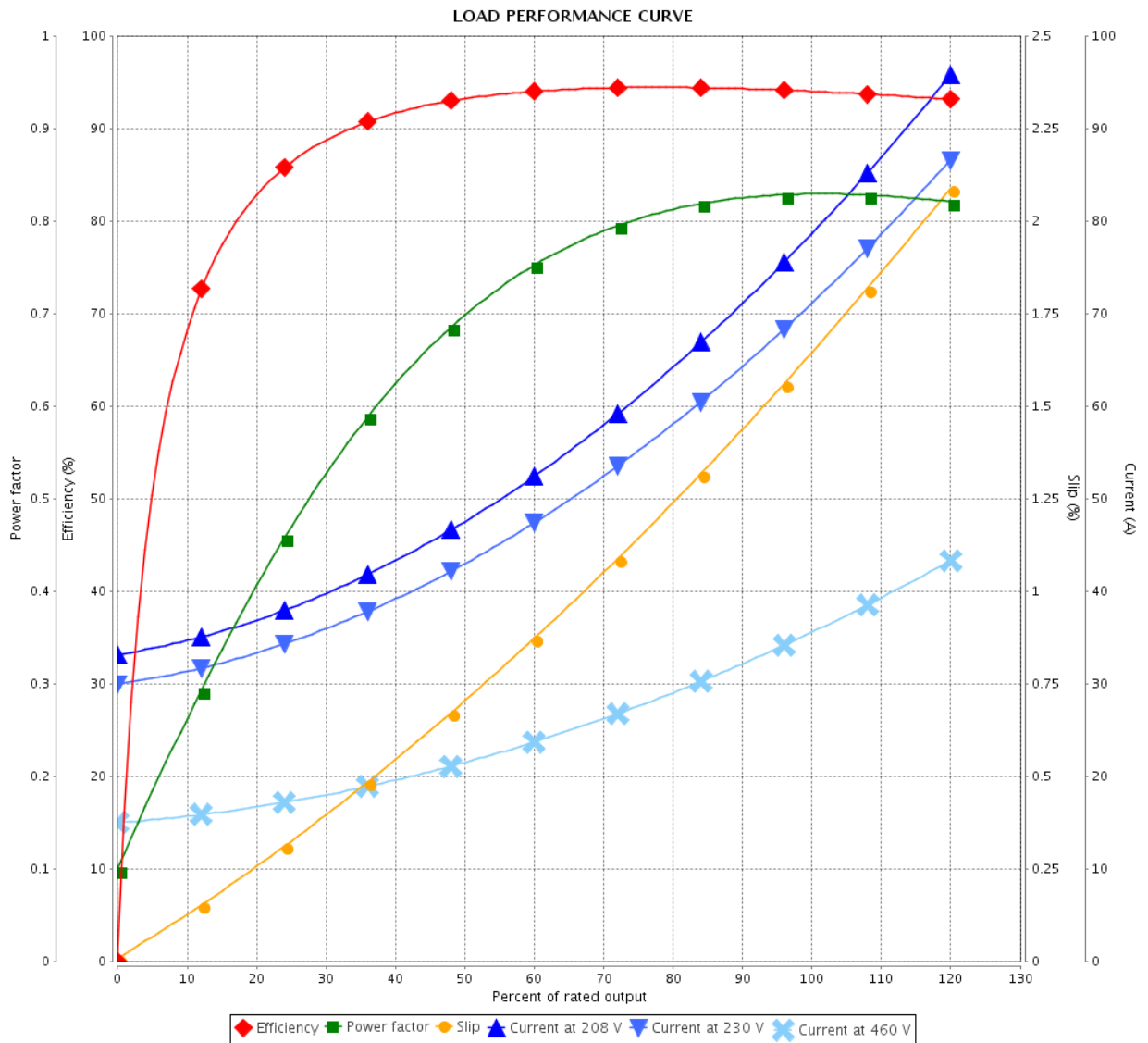


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Product code : 11082685

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Performance : 208-230/460 V 60 Hz 4P

Rated current : 78.3-70.8/35.4 A
 LRC : 6.7
 Rated torque : 87.8 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 280 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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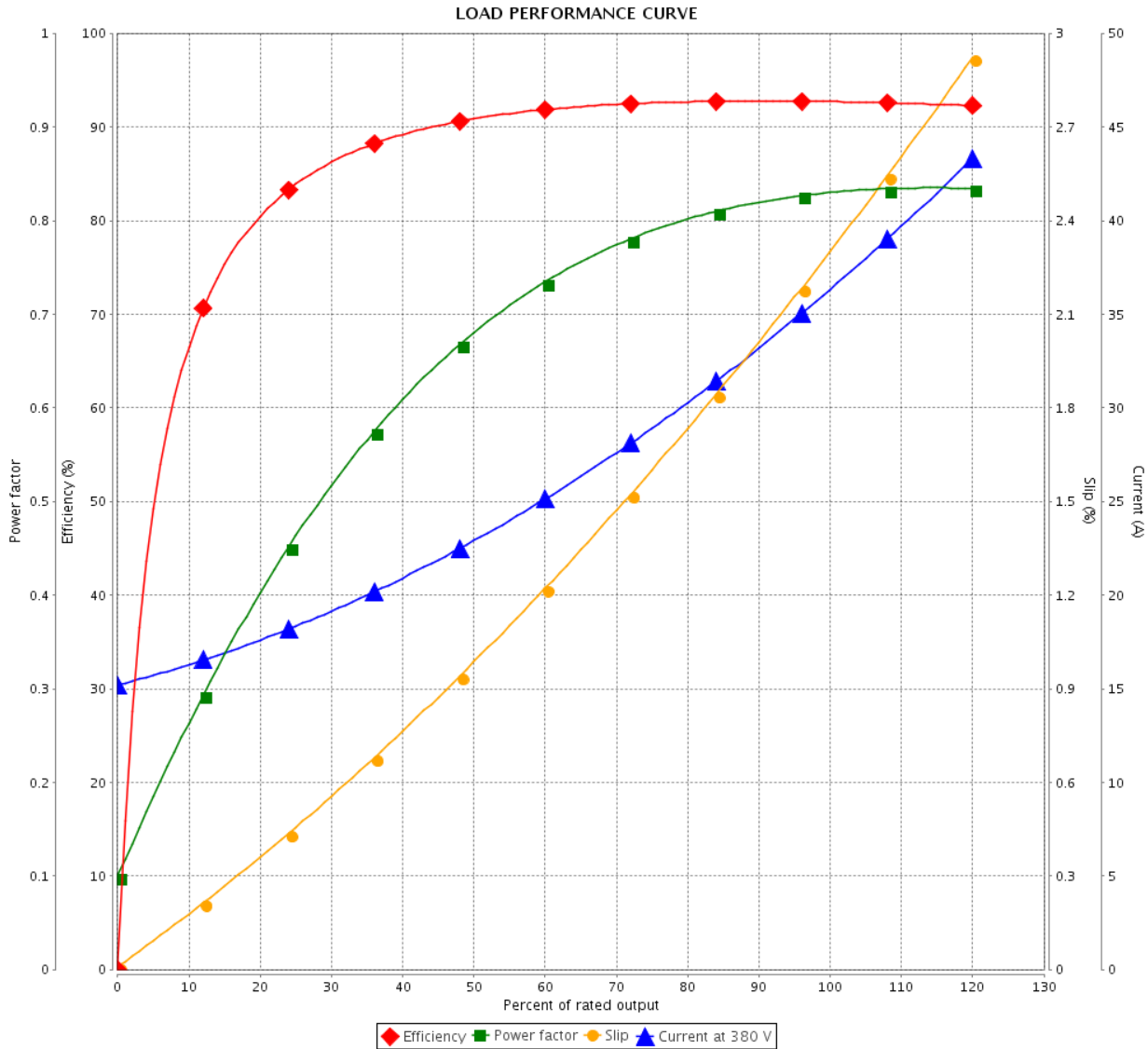


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Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 380 V 50 Hz 4P IE3

Rated current : 36.2 A
 LRC : 6.3
 Rated torque : 88.4 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 310 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

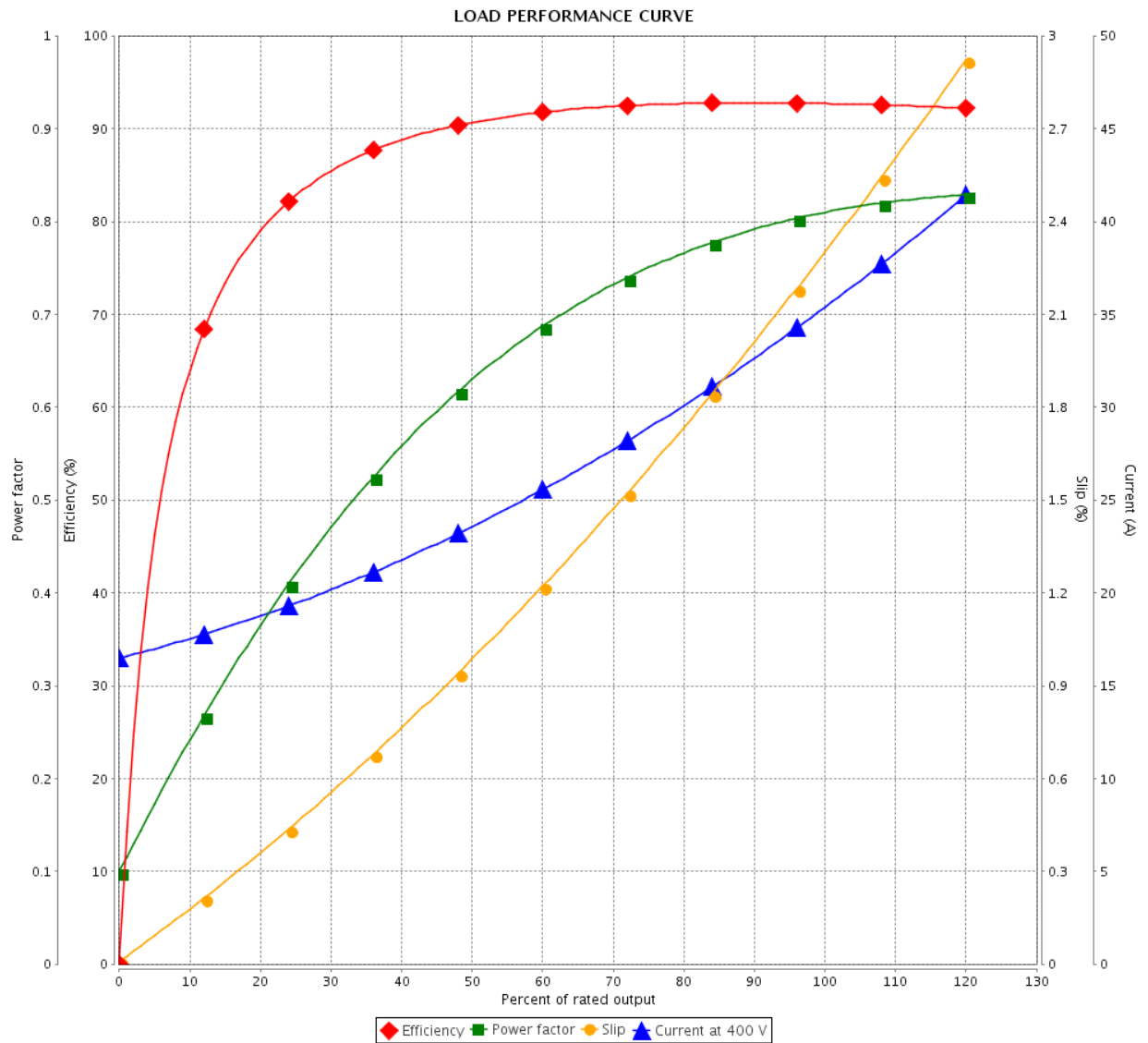


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Performance : 400 V 50 Hz 4P IE3

Rated current : 35.2 A
 LRC : 7.0
 Rated torque : 88.4 ft.lb
 Locked rotor torque : 300 %
 Breakdown torque : 340 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

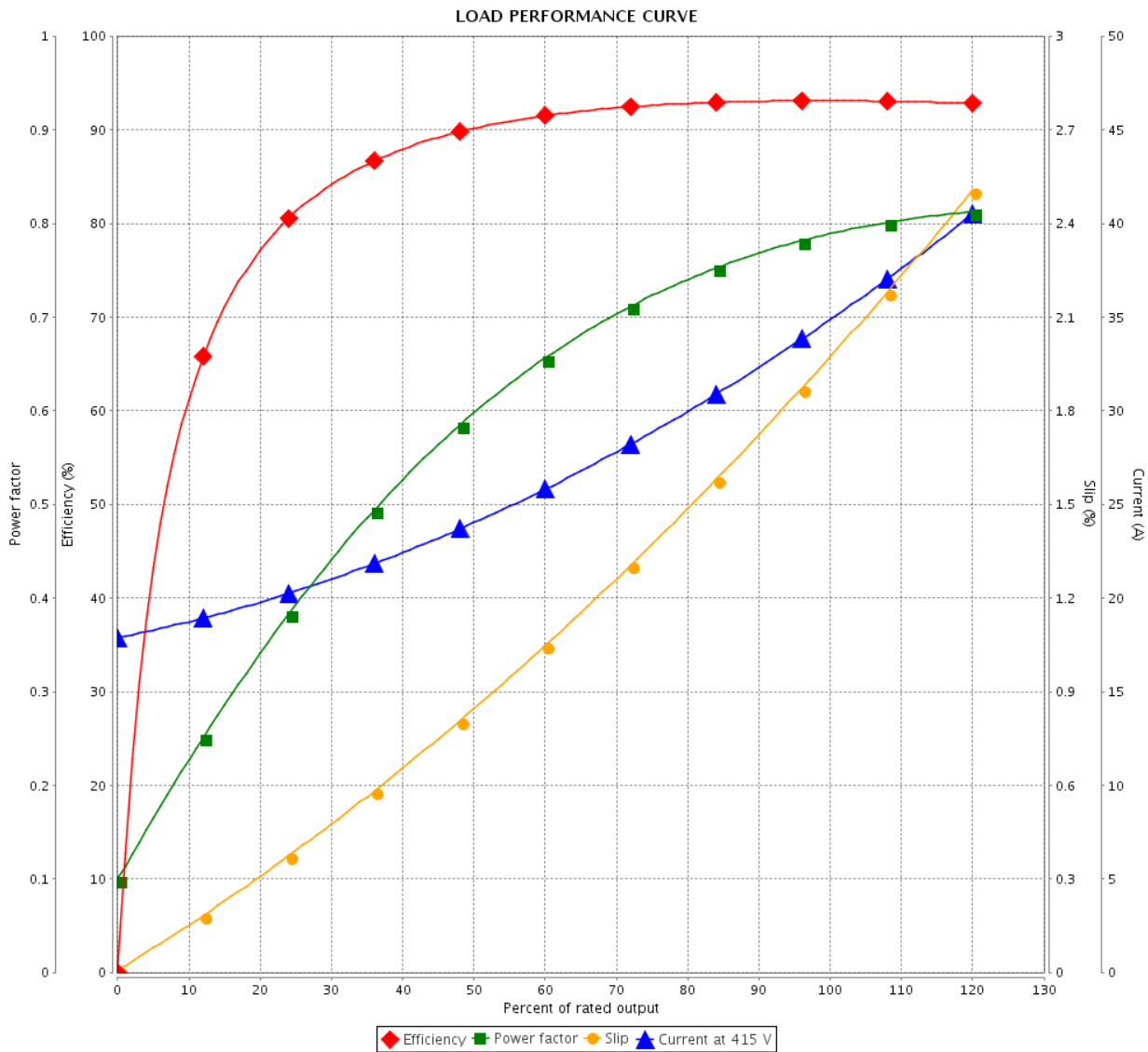


Customer :

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Product code : 11082685

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Performance : 415 V 50 Hz 4P IE3

Rated current	: 34.7 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 88.1 ft.lb	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.15
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

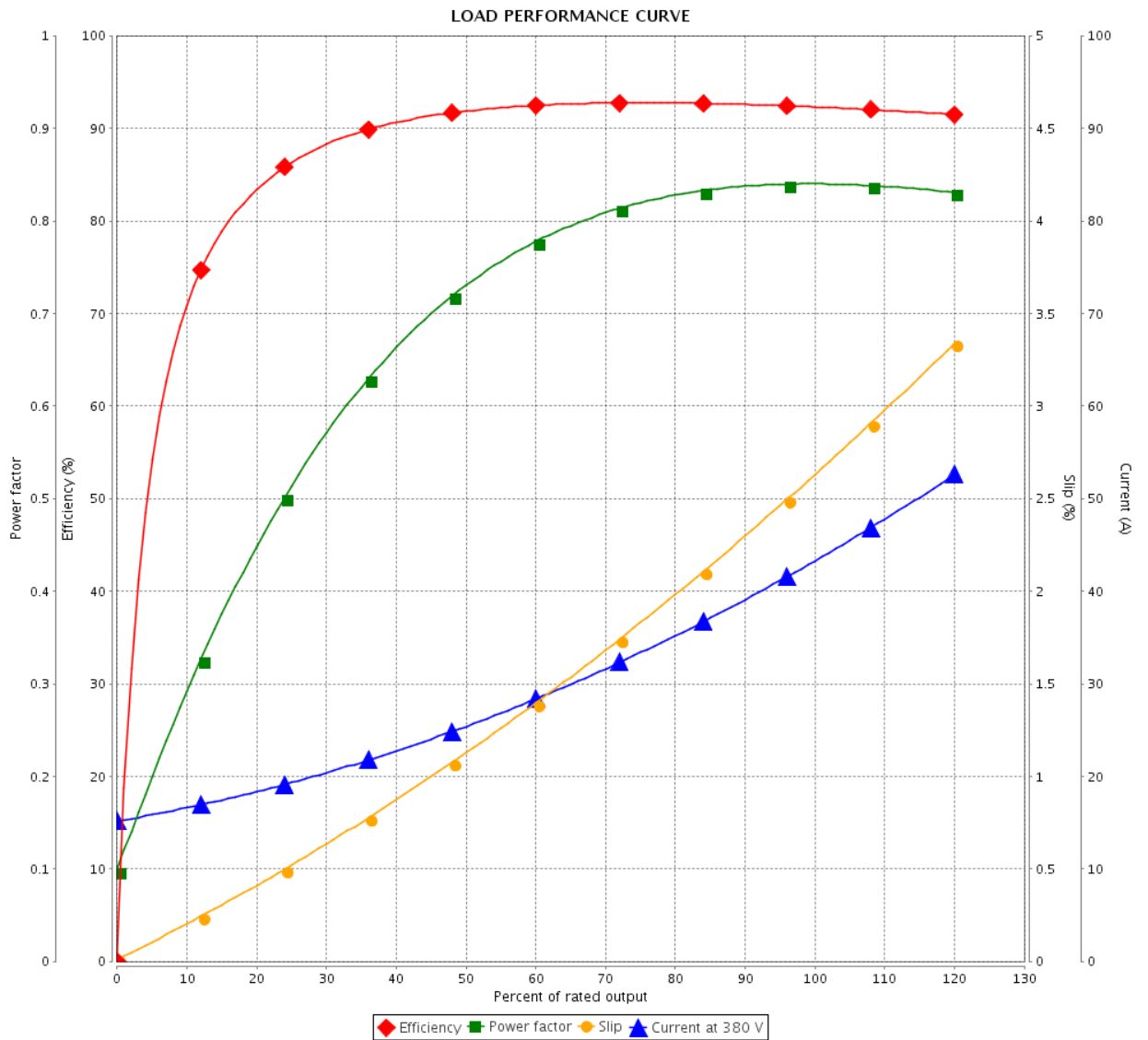


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 380 V 50 Hz 4P IE2

Rated current : 43.1 A
 LRC : 5.3
 Rated torque : 106 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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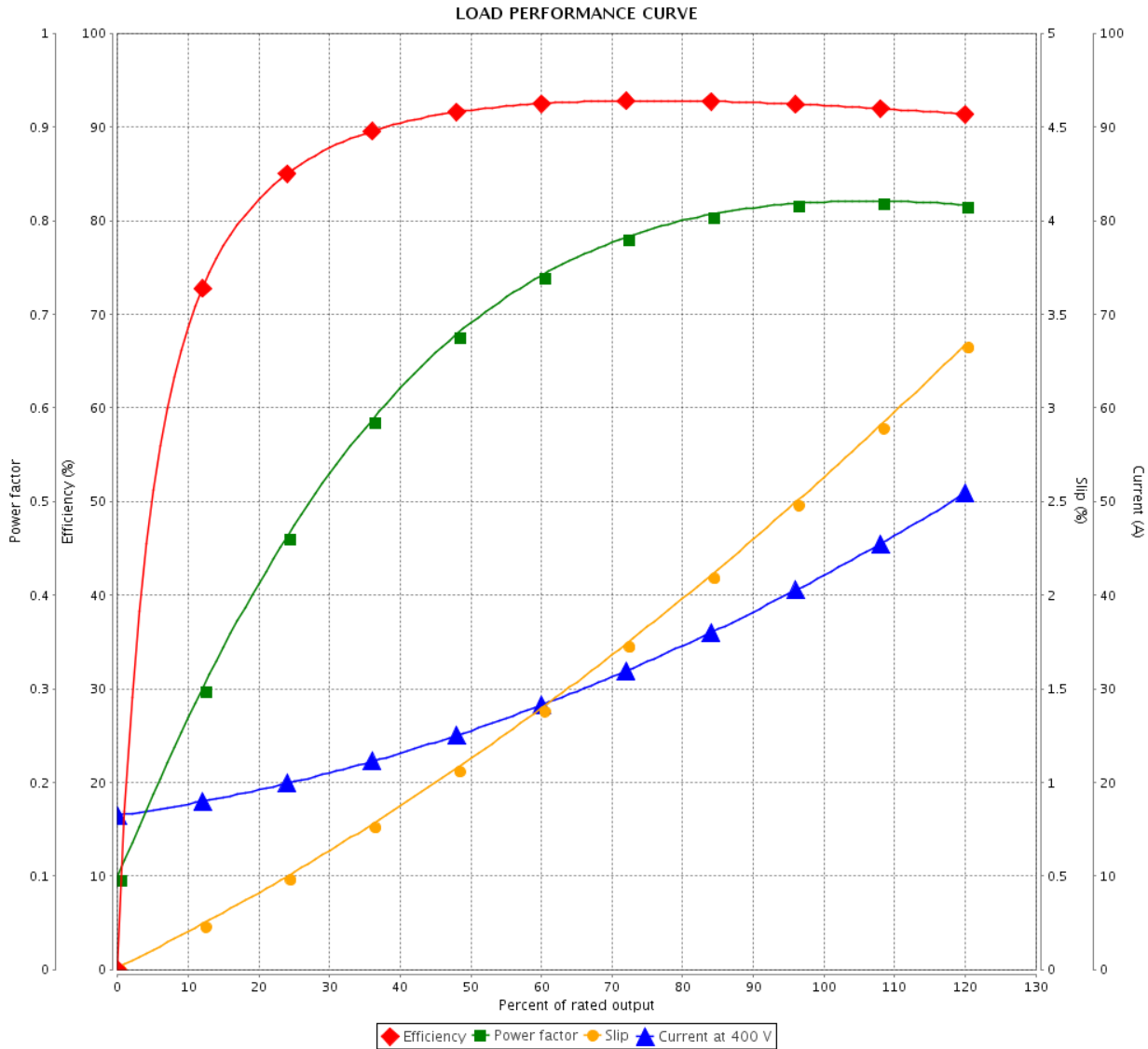


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Performance : 400 V 50 Hz 4P IE2

Rated current : 41.9 A
 LRC : 5.9
 Rated torque : 106 ft.lb
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

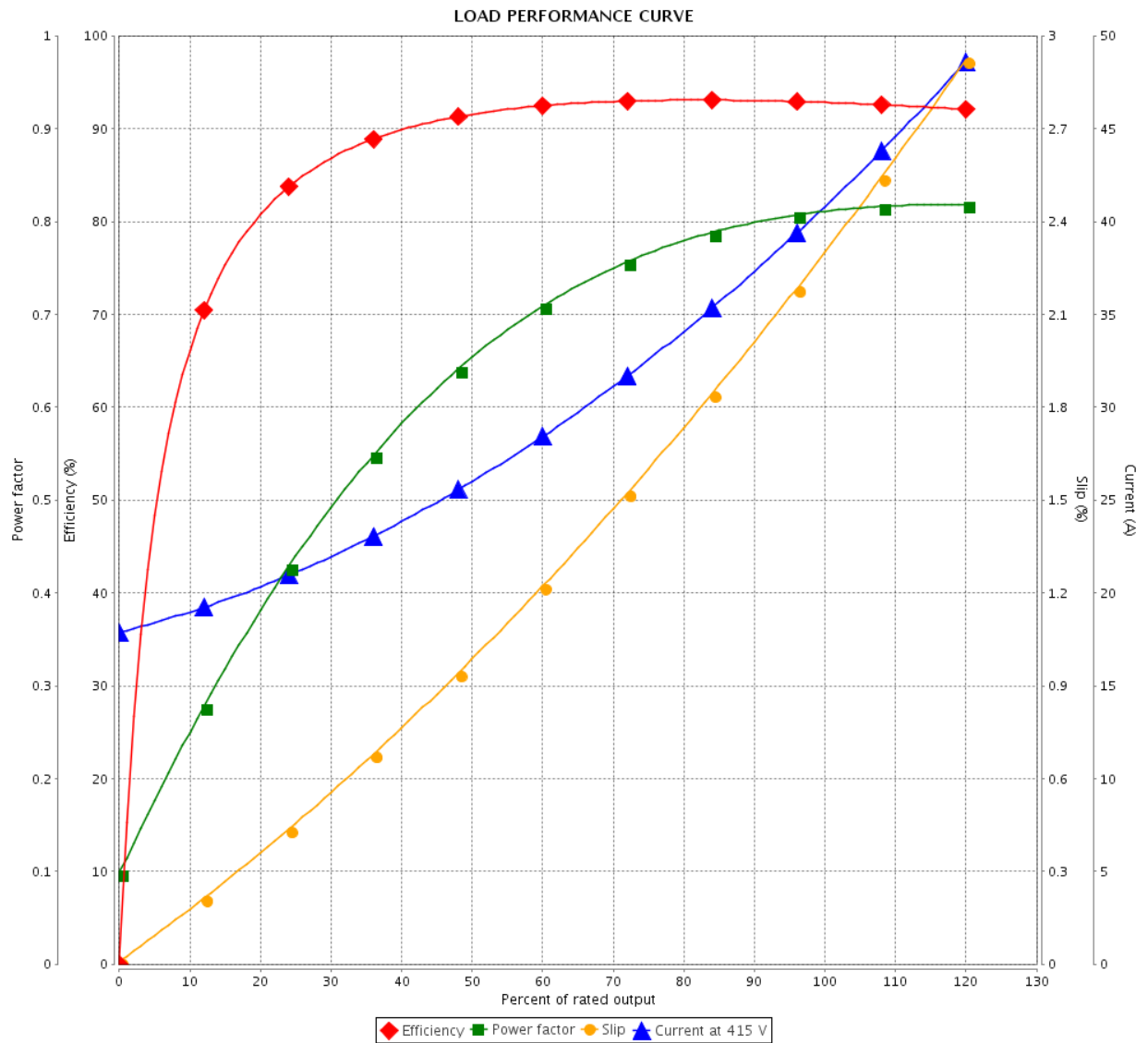


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 415 V 50 Hz 4P IE3

Rated current : 40.6 A
 LRC : 6.4
 Rated torque : 106 ft.lb
 Locked rotor torque : 280 %
 Breakdown torque : 310 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

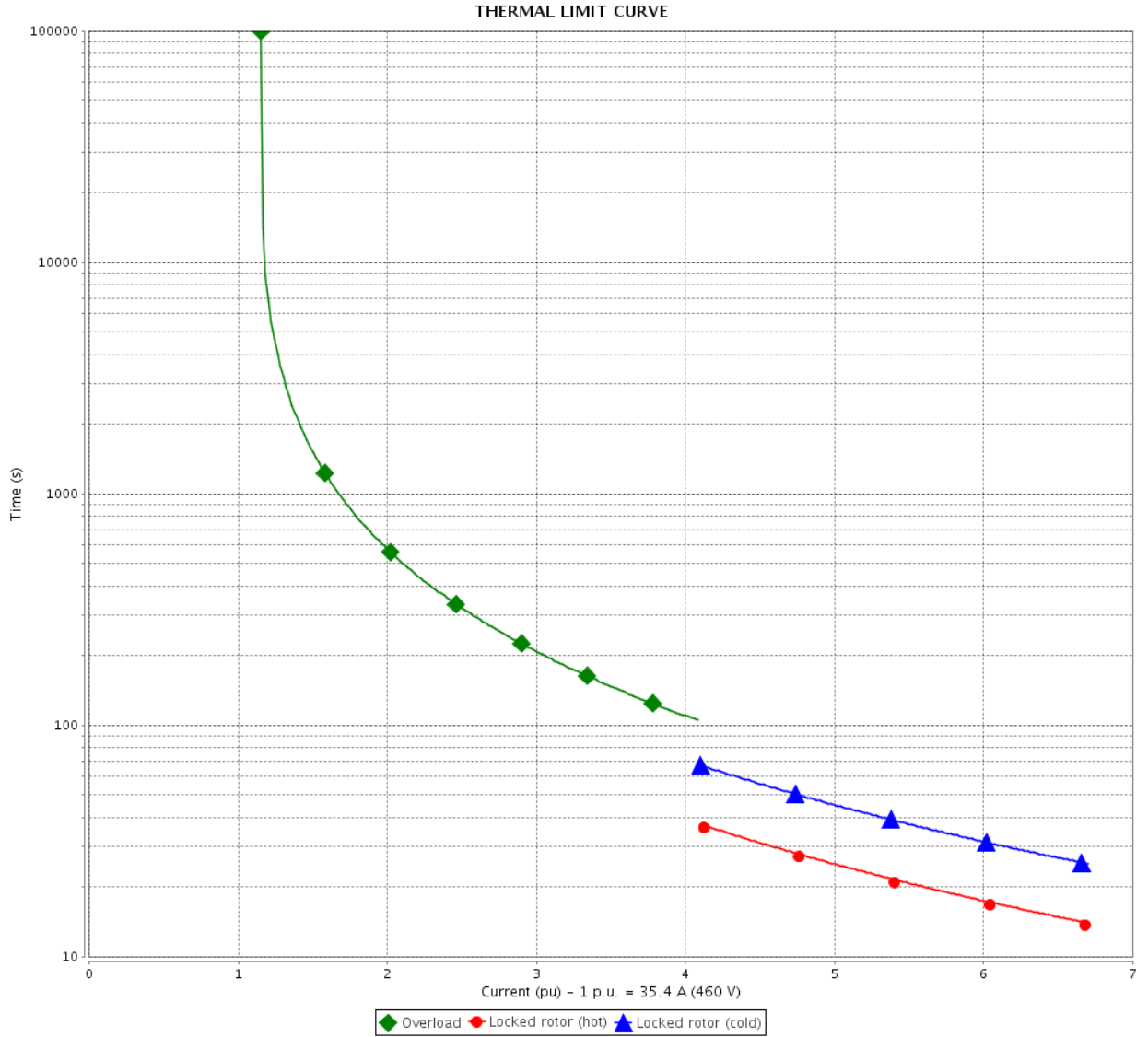
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



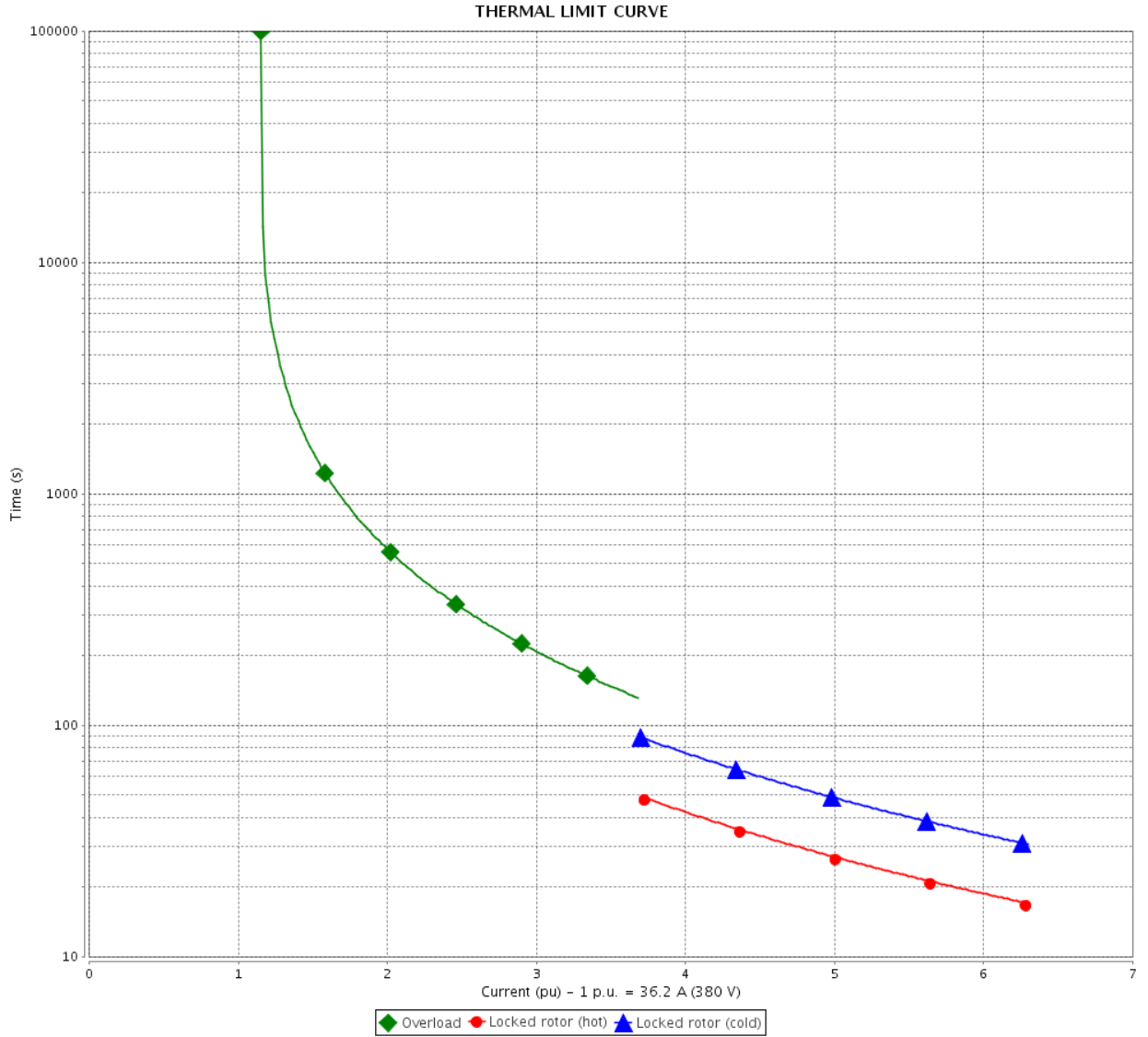
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



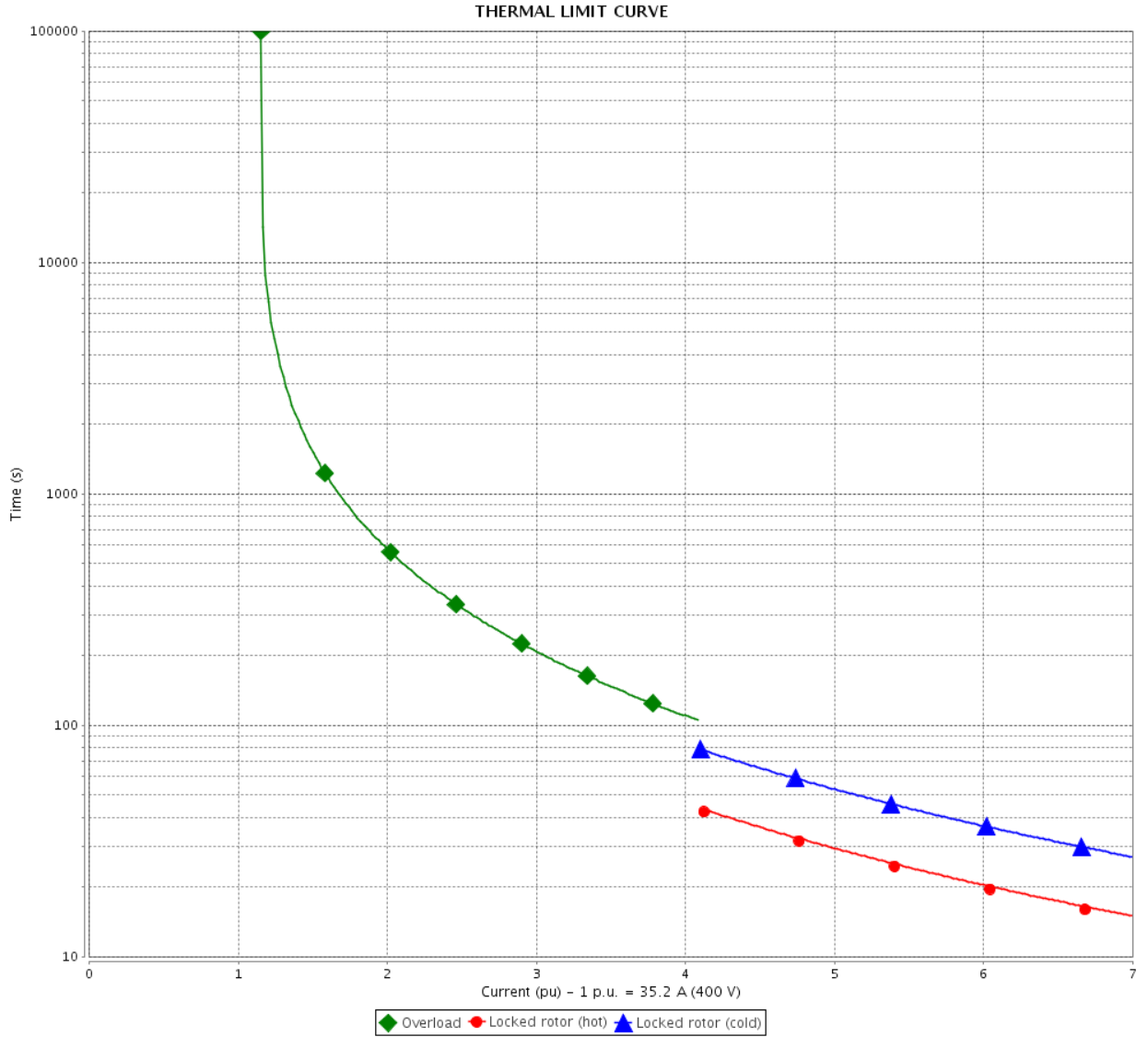
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



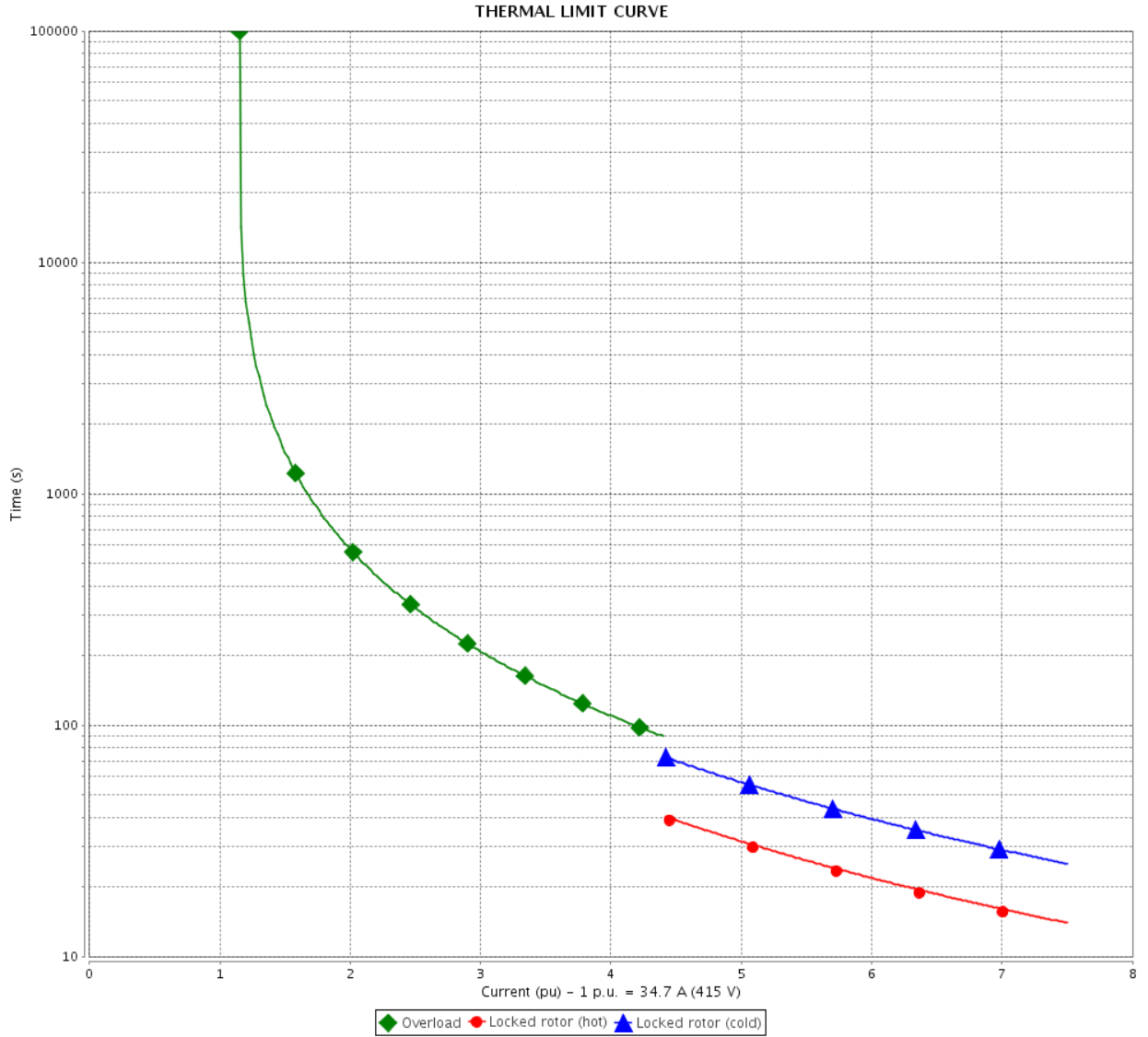
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THERMAL LIMIT CURVE

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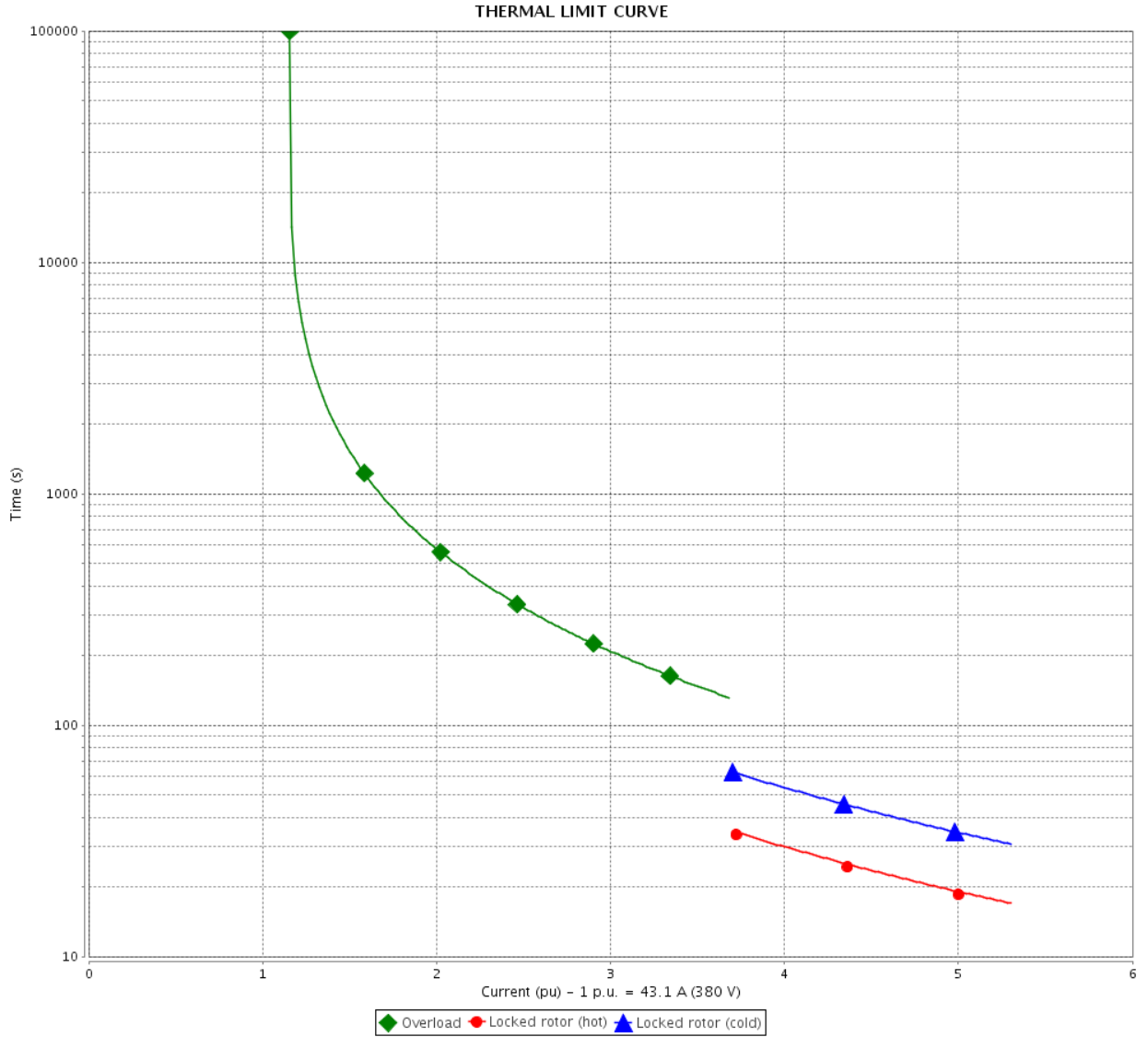
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



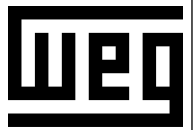
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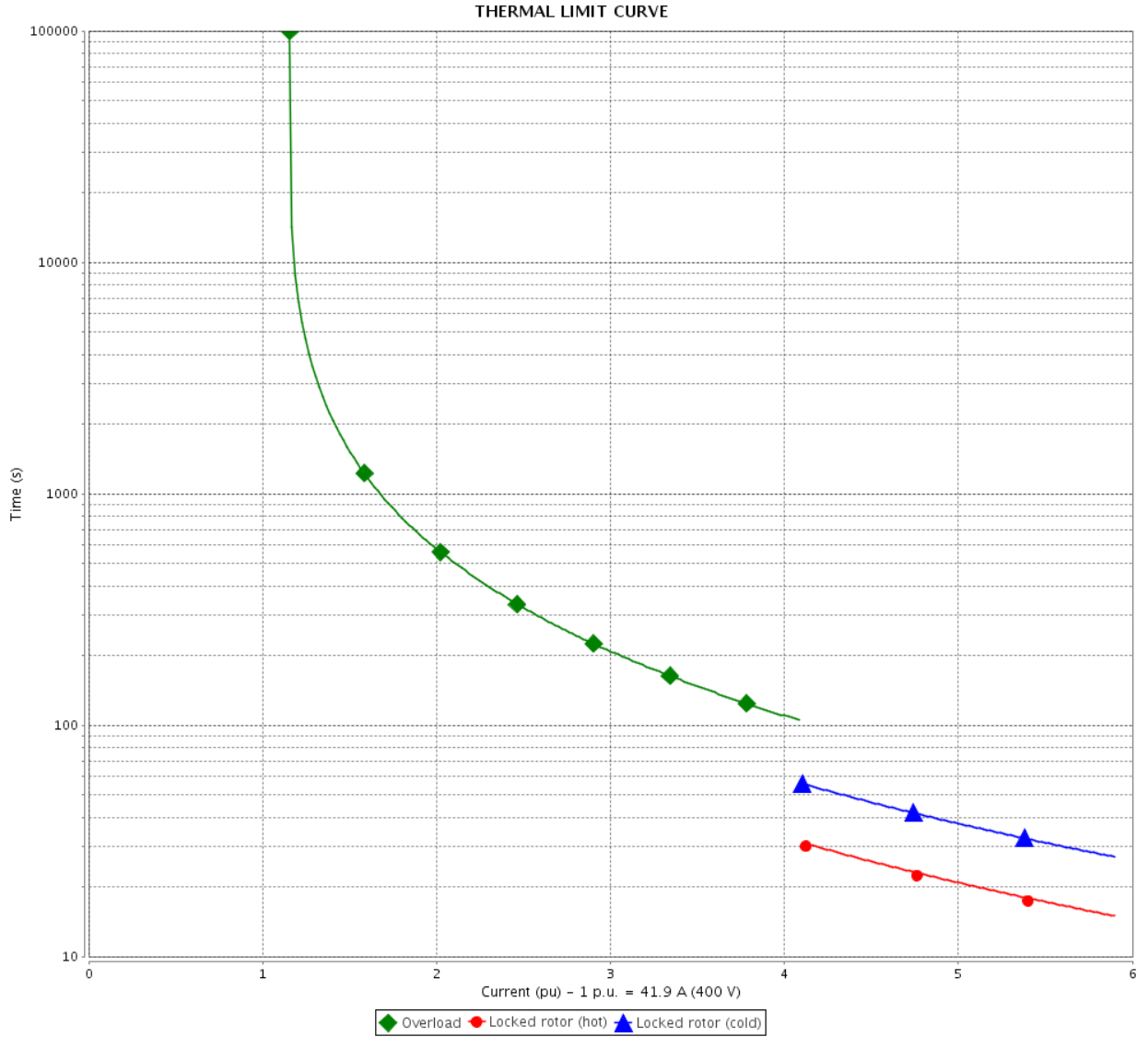
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THERMAL LIMIT CURVE

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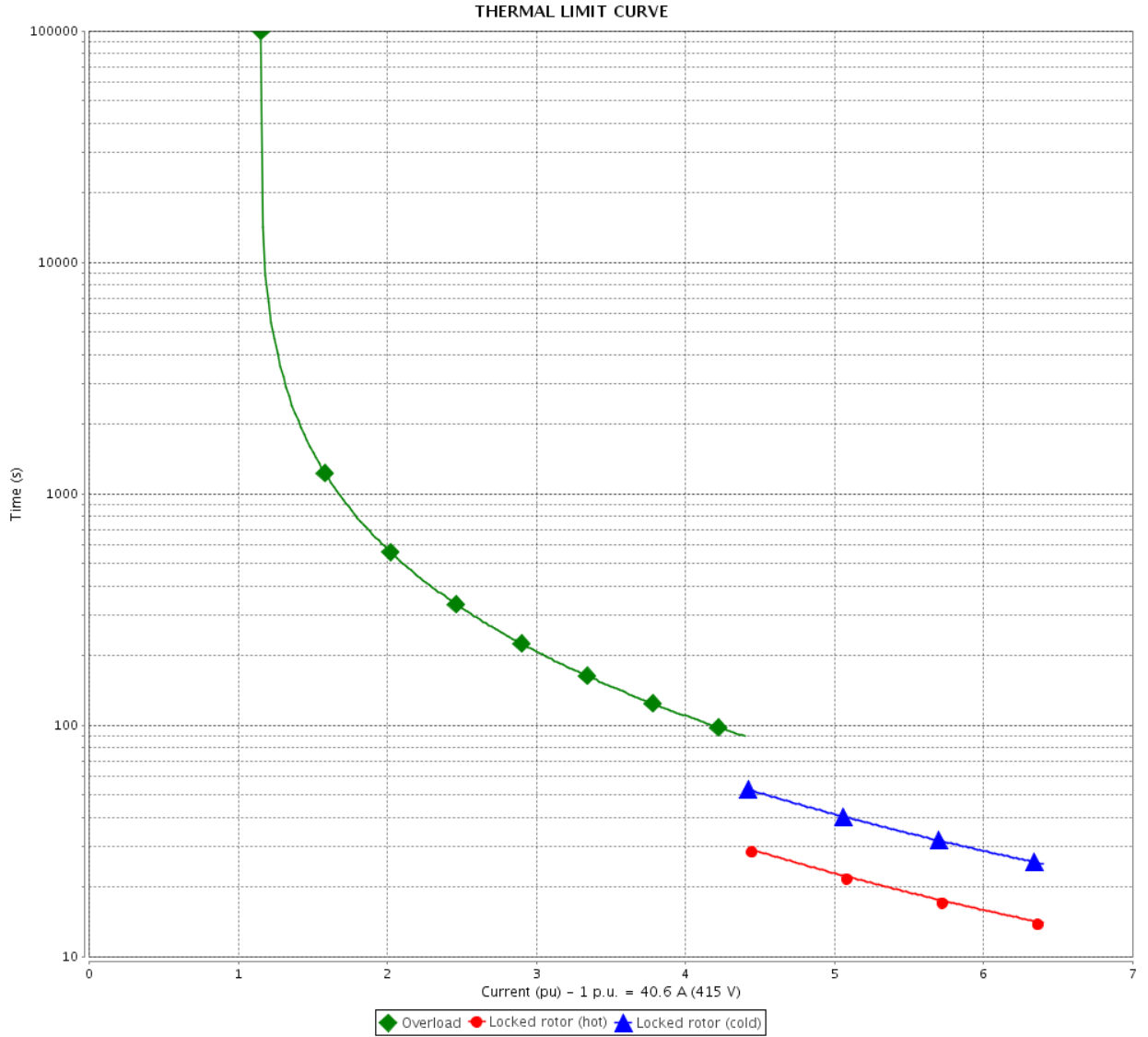
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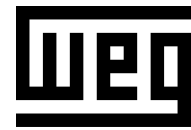
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

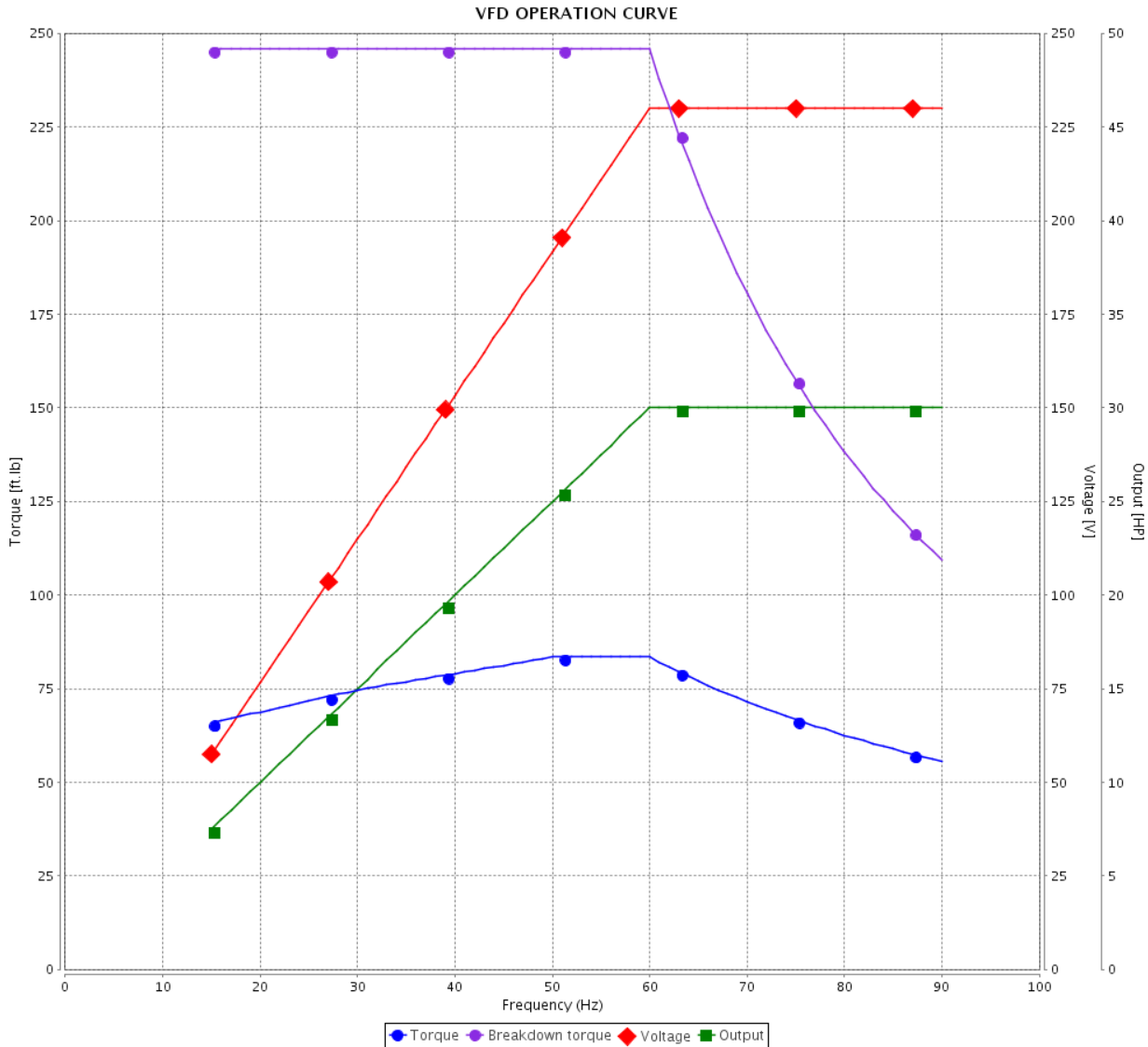


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Three-Phase

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Catalog # : 03018OT3E286TC



Performance : 208-230/460 V 60 Hz 4P

Rated current : 78.3-70.8/35.4 A
 LRC : 6.7
 Rated torque : 87.8 ft.lb
 Locked rotor torque : 260 %
 Breakdown torque : 280 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 4.90 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

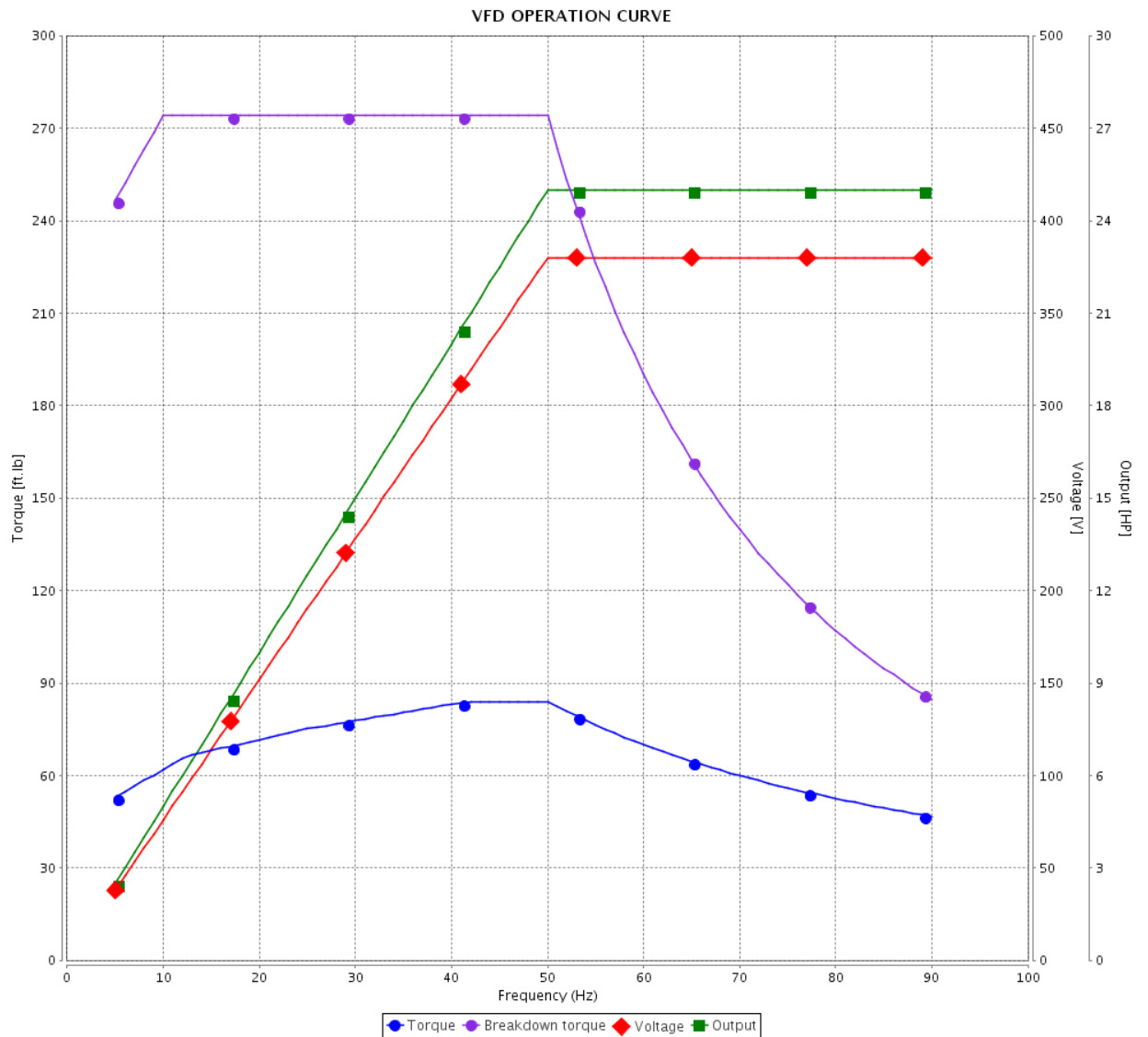


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Performance : 380 V 50 Hz 4P IE3

Rated current : 36.2 A
LRC : 6.3
Rated torque : 88.4 ft.lb
Locked rotor torque : 280 %
Breakdown torque : 310 %
Rated speed : 1465 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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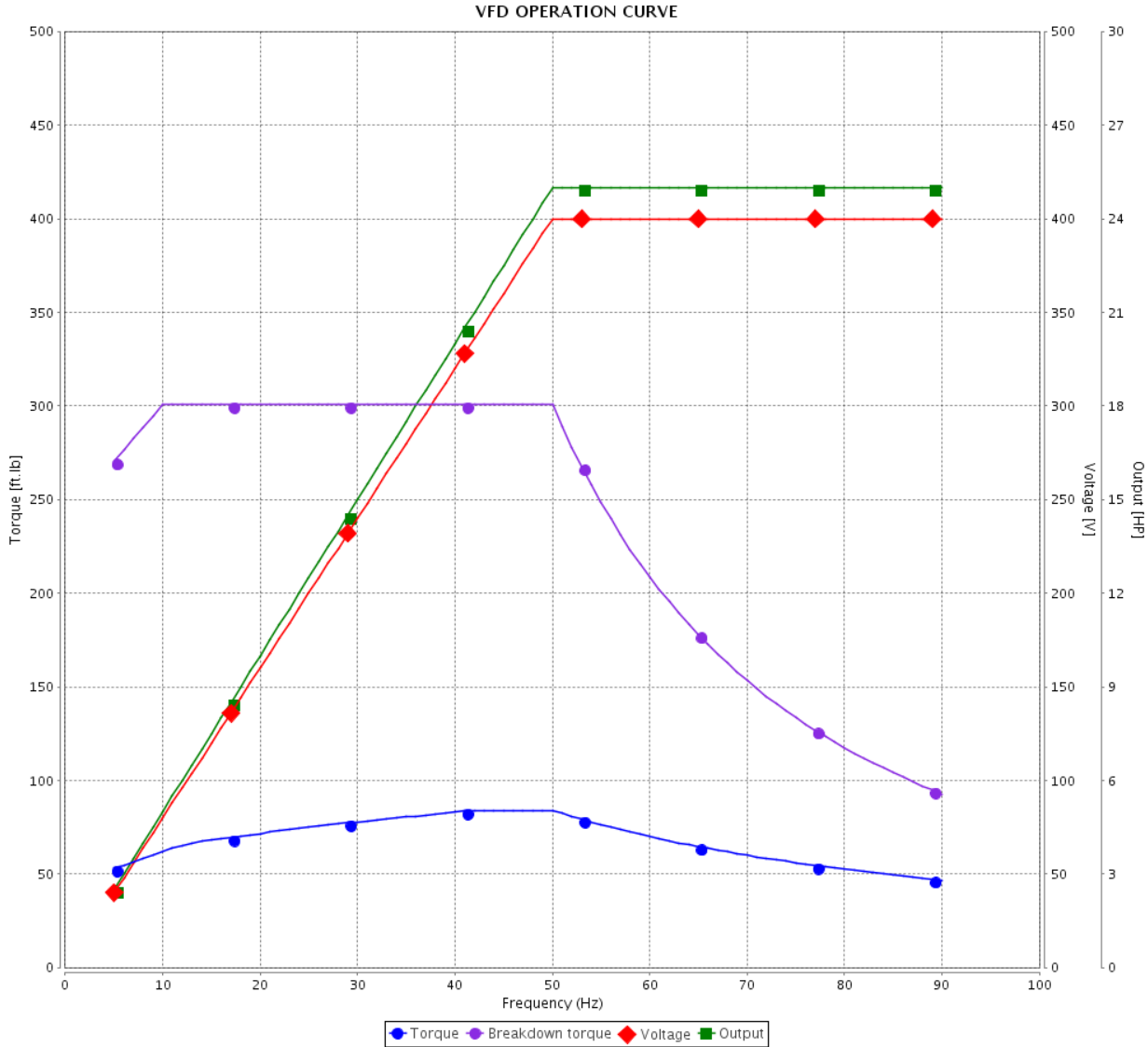


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Catalog # : 030180T3E286TC



Performance : 400 V 50 Hz 4P IE3

Rated current : 35.2 A
LRC : 7.0
Rated torque : 88.4 ft.lb
Locked rotor torque : 300 %
Breakdown torque : 340 %
Rated speed : 1465 rpm

Moment of inertia (J) : 4.90 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

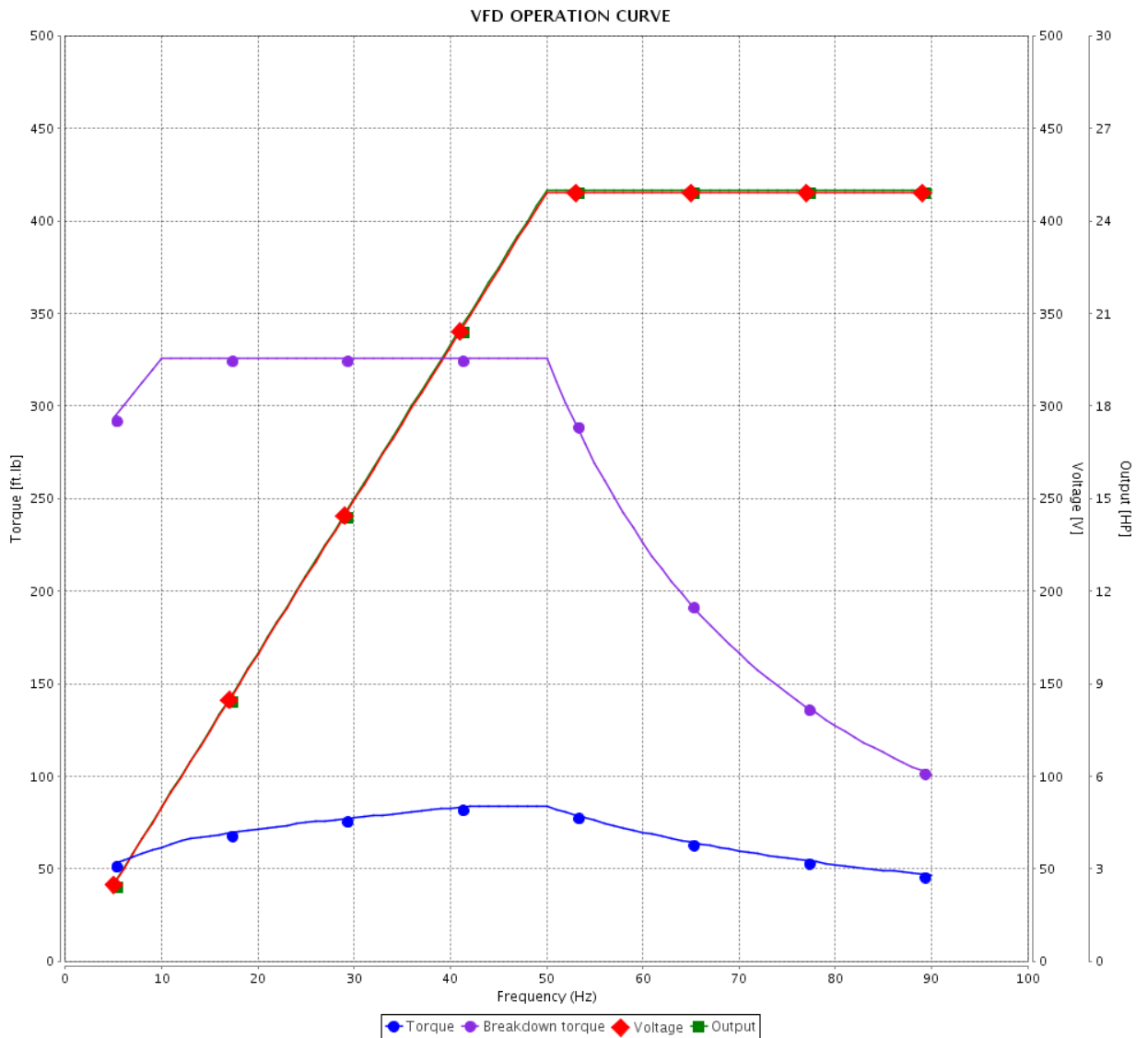


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 415 V 50 Hz 4P IE3

Rated current : 34.7 A
 LRC : 7.5
 Rated torque : 88.1 ft.lb
 Locked rotor torque : 340 %
 Breakdown torque : 370 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page		Revision
Checked by		33 / 36		
Date		08/11/2019		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

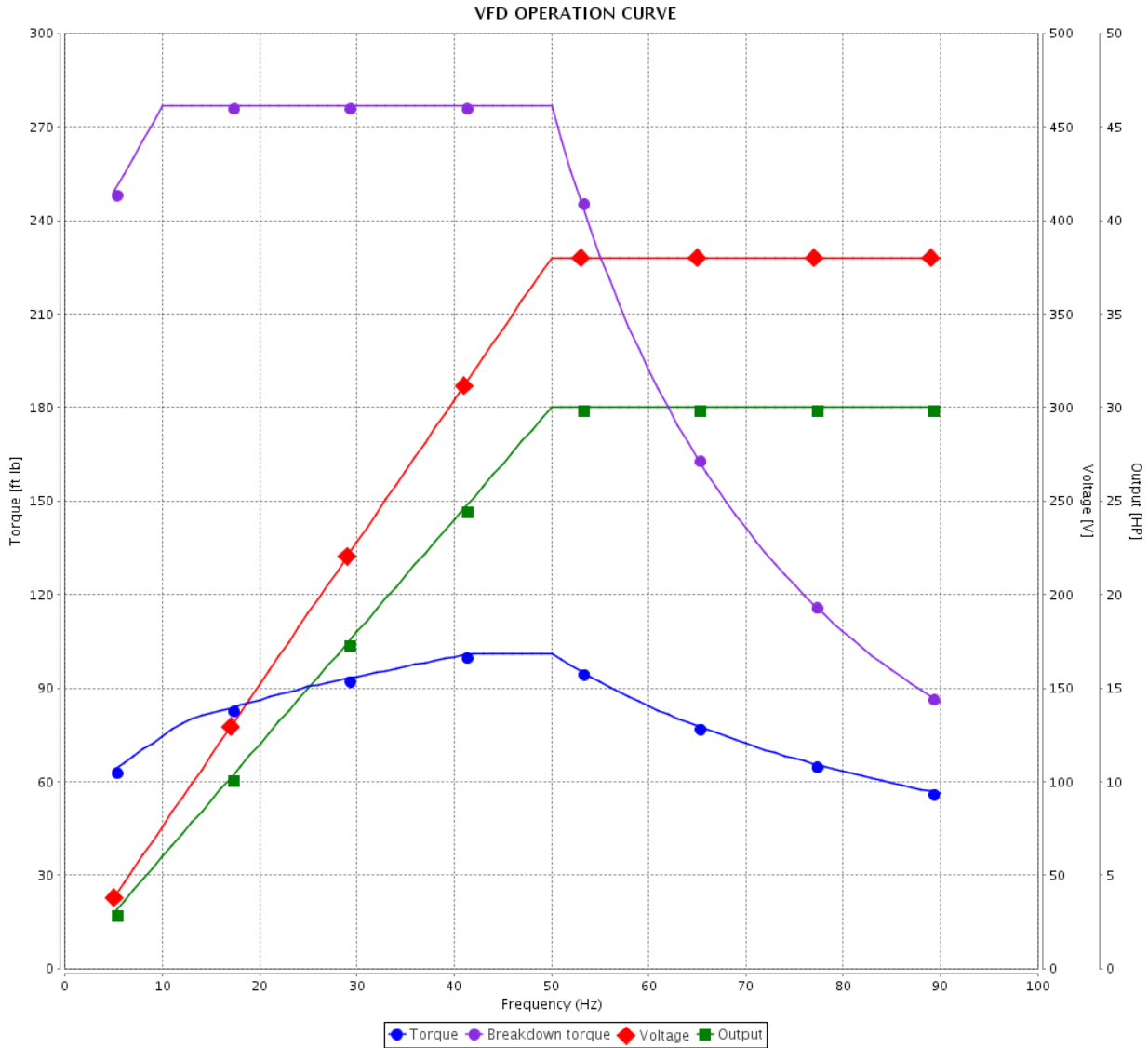


Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 380 V 50 Hz 4P IE2

Rated current : 43.1 A
 LRC : 5.3
 Rated torque : 106 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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Performed by			Page 34 / 36	Revision
Checked by				
Date	08/11/2019			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

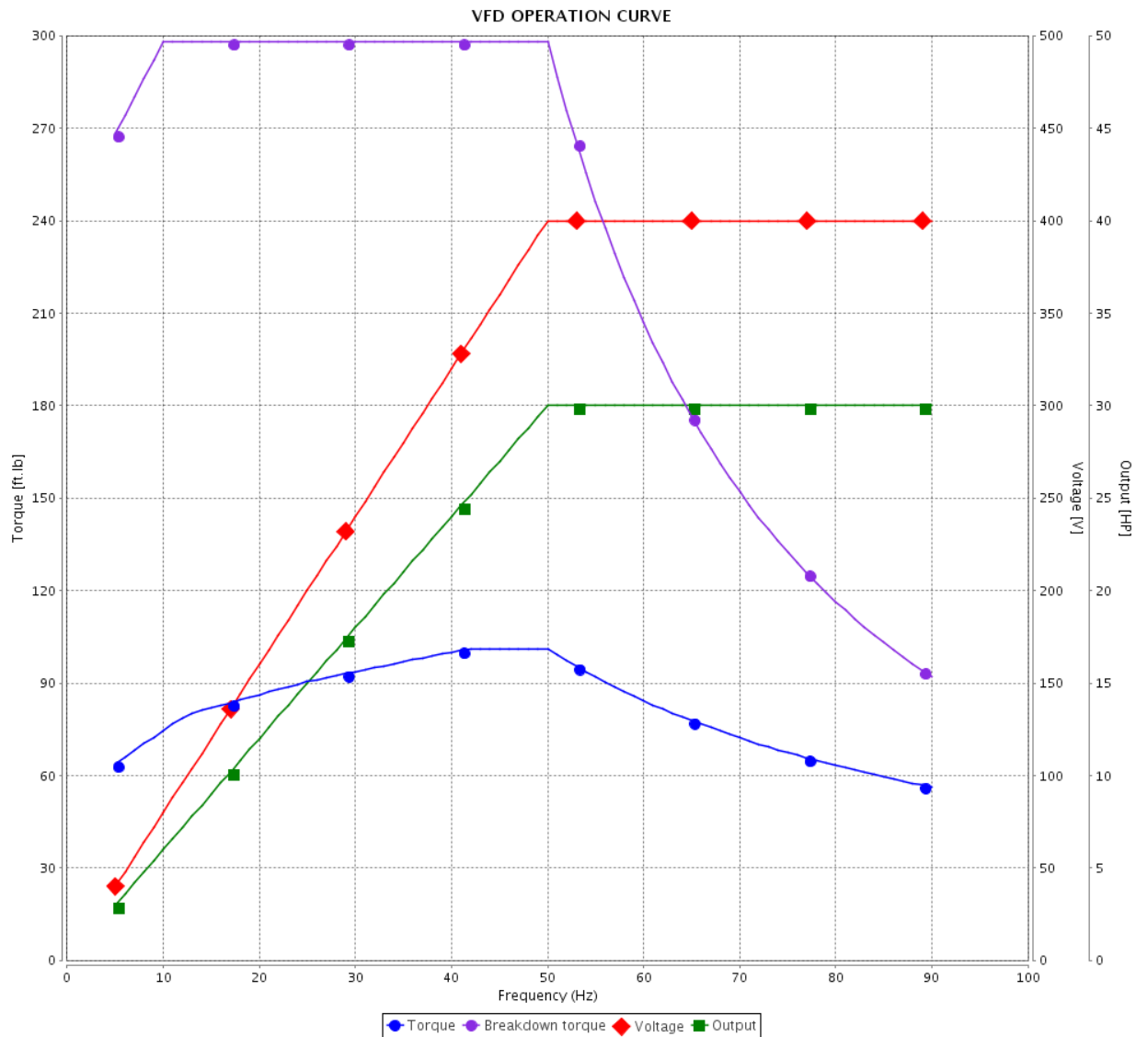


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



Performance : 400 V 50 Hz 4P IE2

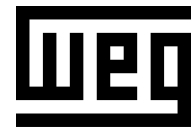
Rated current : 41.9 A
LRC : 5.9
Rated torque : 106 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 1460 rpm

Moment of inertia (J) : 4.90 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

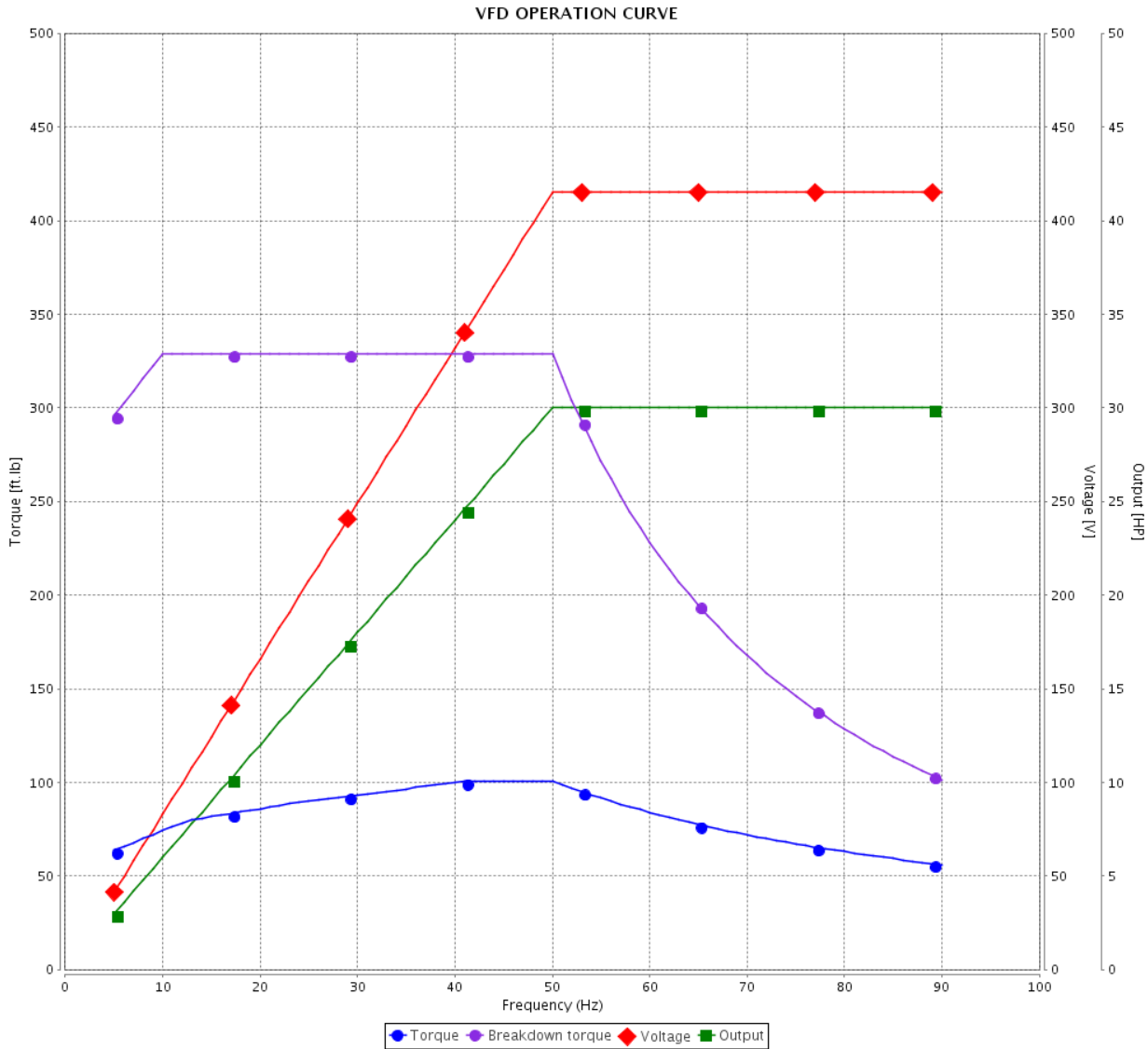


Customer :

Product line : ODP NEMA Premium Efficiency
Three-Phase

Product code : 11082685

Catalog # : 03018OT3E286TC



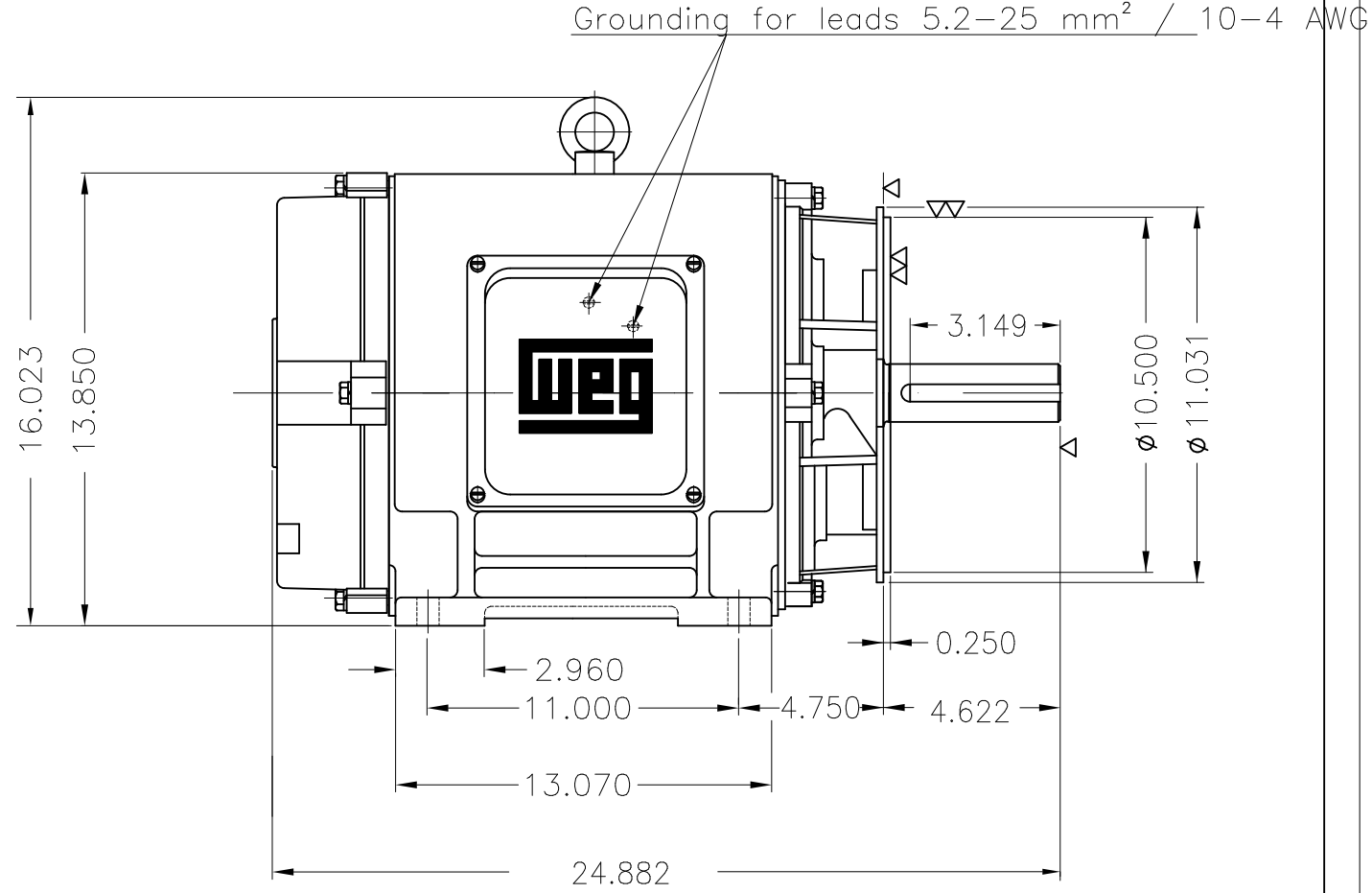
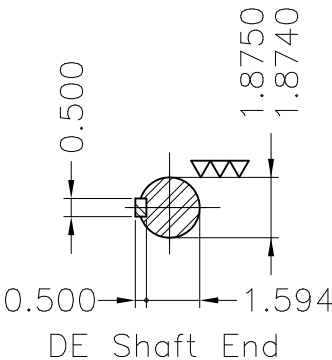
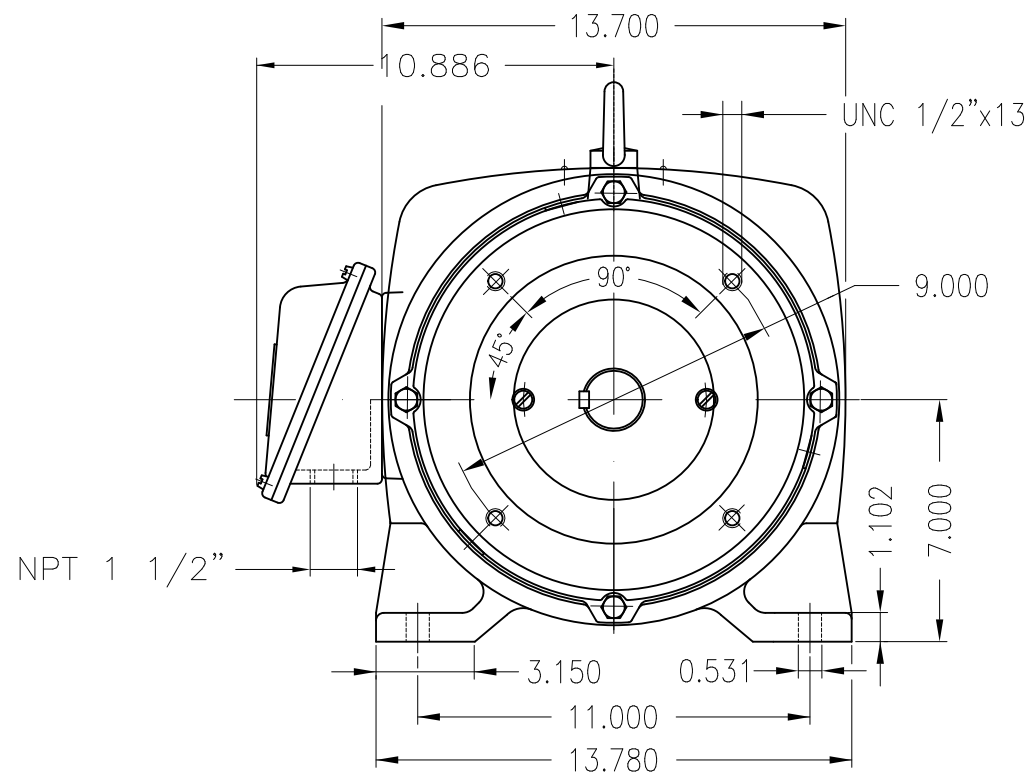
Performance : 415 V 50 Hz 4P IE3

Rated current	: 40.6 A	Moment of inertia (J)	: 4.90 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.15
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

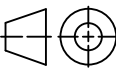
Rev.	Changes Summary	Performed	Checked	Date
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Date	08/11/2019			

Dimensões em polegada
Dimensions in inches

THIS IS AN UPDATED REVISION, THE
PREVIOUS ONE MUST BE DISREGARDED.



Bearing cap
Color RAL 5009
Painting plan 203A
Mounting B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	USERADMIN	 THREE PHASE NEMA P. EFF MOTOR FRAME 286TC IP23 ODP WEG code: 11082685							
CHECKED									
RELEASED									
REL DT	08.11.2019	WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1			

30 HP 04 Poles 60Hz

A



MADE IN BRAZIL



PH 3 FRAME 286TC

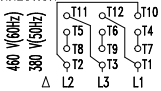
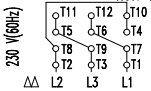
MODEL 030180T3E286TC

INS CL. F ENCL ODP TYPE DP IP23 DUTY CONT.

HP(kW)	Hz	VOLTS	RPM	AMPS	PF	SFA
30(22)	60	208-230	1770	78.3-70.8	0.83	81.4
		460		35.4		40.7
30(22)	50	380	1460	43.1	0.84	-

Hz	SF	CODE	Δt (k)	ALT 1000 m.a.s.l.	MAX AMB. 40°C
60	1.15	H	80	NEMA EFF 60Hz DES B NOM(%) 94.1 3/4(%) 94.1	
50	1.00	E	80		

RUN CONNECTION



→ 6311-Z-C3
→ 6211-Z-C3

MOBIL POLYREX EM
18 g 20000 h

421 Lbs

11082685



EEV 78282



LR 38324



MOD.T00IF0X0N0000301901