

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase Product code : 14497427
Catalog # : 06036OT3G326TS-W40

Frame : 324/6TS	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 : 472 lb
Protection degree : IP23	Moment of inertia (J) : 3.82 sq.ft.lb
Design : B	

Output [HP]	60	50	50	50
Poles	2	2	2	2
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	71.0	69.8	68.7	69.5
L. R. Amperes [A]	447	482	460	473
LRC [A]	6.3x(Code G)	6.9x(Code H)	6.7x(Code H)	6.8x(Code H)
No load current [A]	25.0	23.0	27.0	30.0
Rated speed [RPM]	3560	2960	2960	2965
Slip [%]	1.11	1.33	1.33	1.17
Rated torque [ft.lb]	88.5	88.7	88.7	88.6
Locked rotor torque [%]	220	220	240	260
Breakdown torque [%]	229	229	250	270
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²	75.0 dB(A)			
Efficiency (%)	25%	91.7	88.9	89.2
	50%	92.4	90.5	90.7
	75%	93.0	92.0	92.2
	100%	93.6	93.7	93.7
Power Factor	25%	0.48	0.50	0.38
	50%	0.73	0.73	0.60
	75%	0.82	0.82	0.72
	100%	0.85	0.86	0.79

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6312 Z C3	6211 Z C3	Max. traction
Sealing :	Without	Without	Max. compression
	Bearing Seal	Bearing Seal	
Lubrication interval :	19658 h	20000 h	
Lubricant amount :	21 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

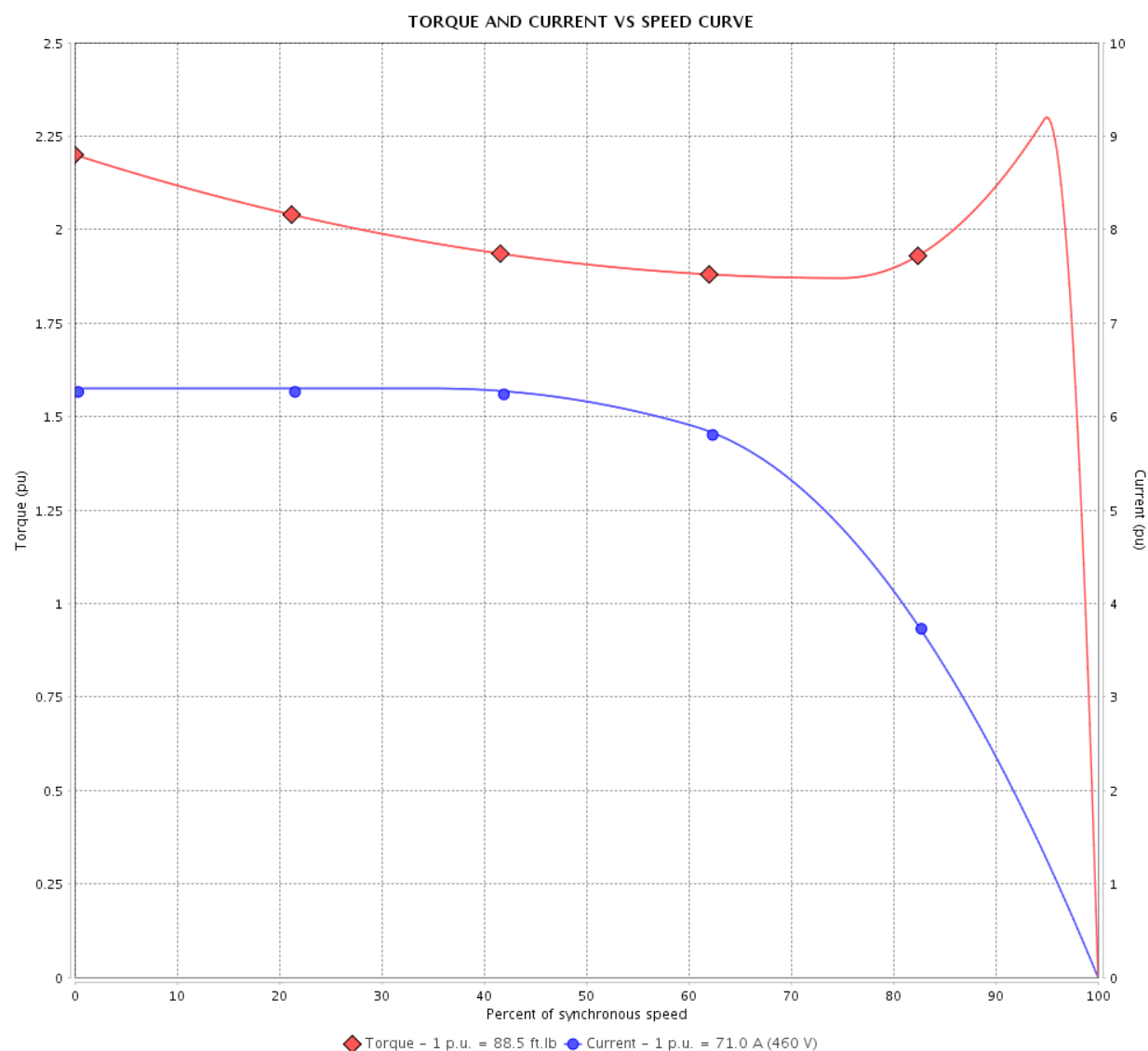


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 460 V 60 Hz 2P

Rated current	: 71.0 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 88.5 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 3560 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

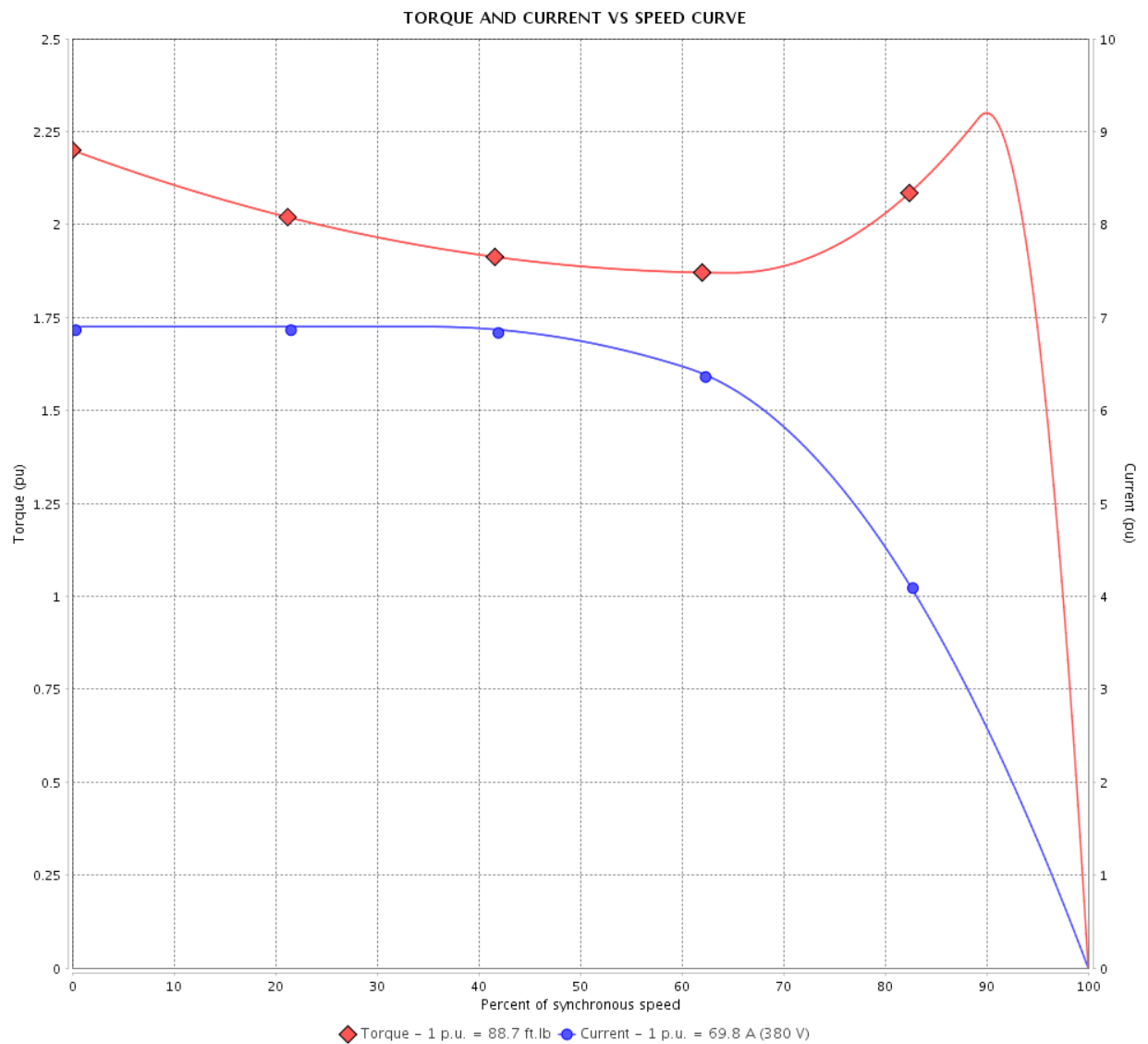


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 380 V 50 Hz 2P IE3

Rated current	: 69.8 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 88.7 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B

Locked rotor time : 28s (cold) 16s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line

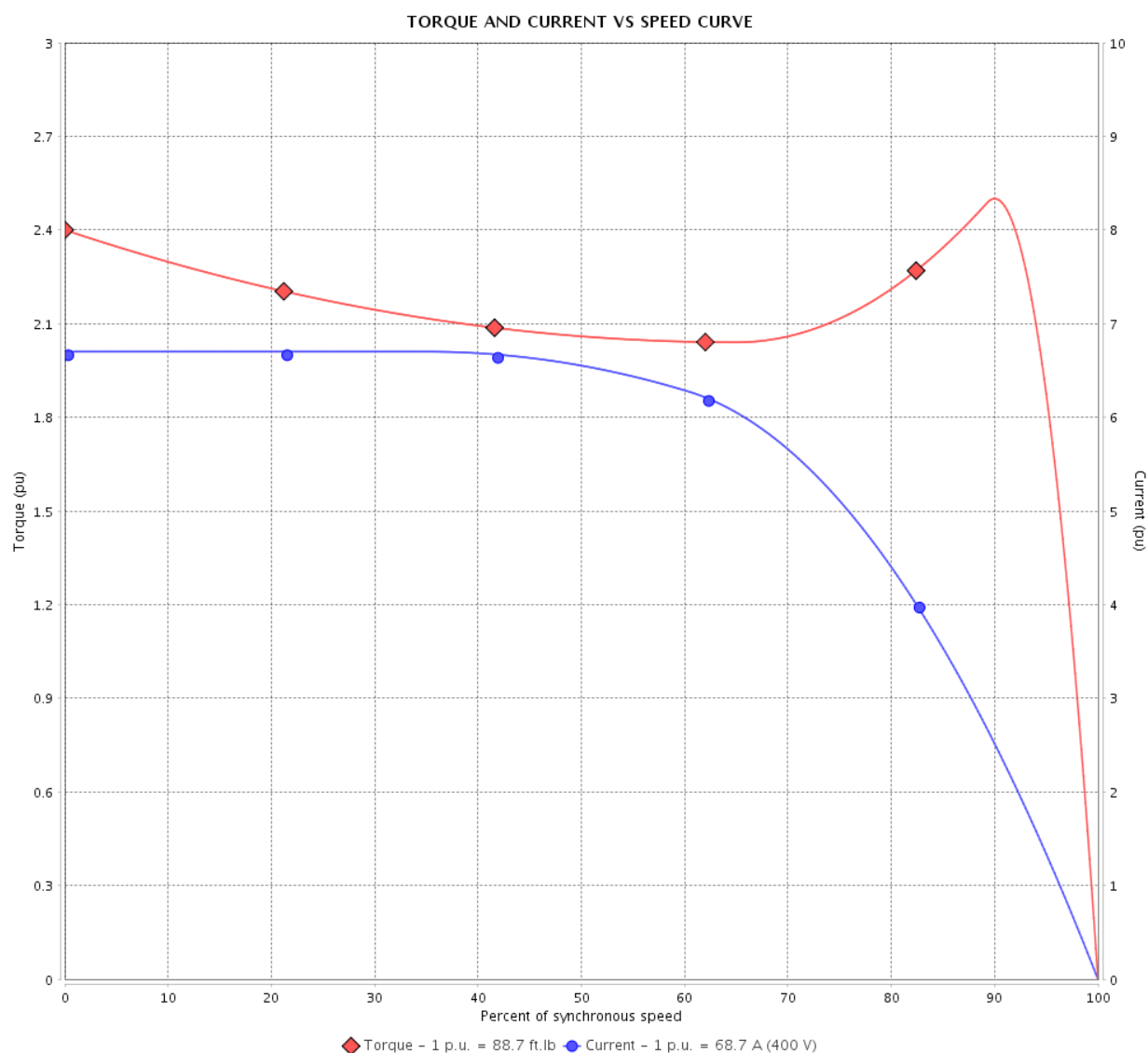
: W40 NEMA Premium Efficiency
Three-Phase

Product code :

14497427

Catalog # :

06036OT3G326TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current	: 68.7 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 88.7 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2960 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

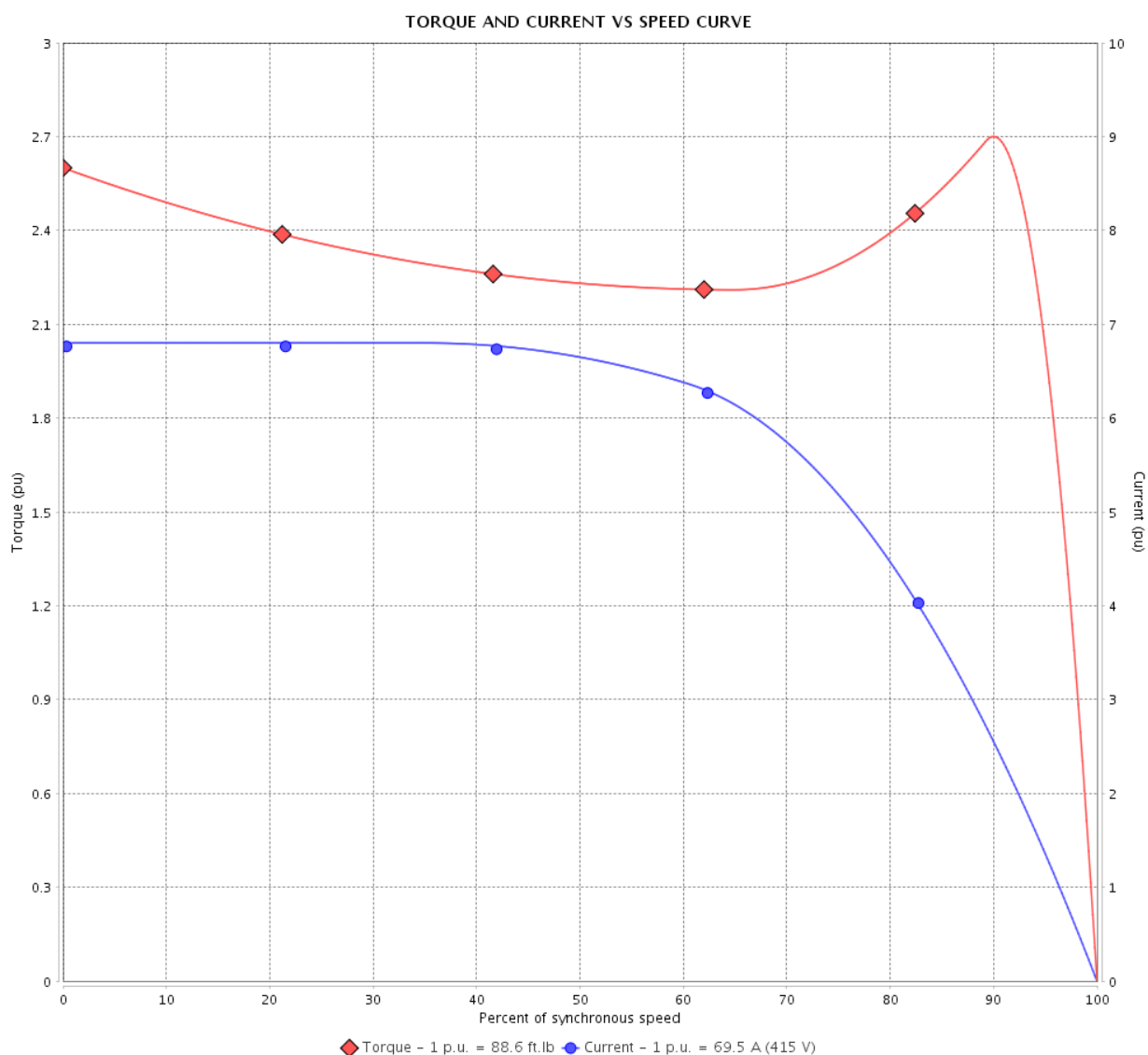


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current	: 69.5 A	Moment of inertia (J)	: 3.82 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 88.6 ft.lb	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B

Locked rotor time : 23s (cold) 13s (hot)

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LOAD PERFORMANCE CURVE

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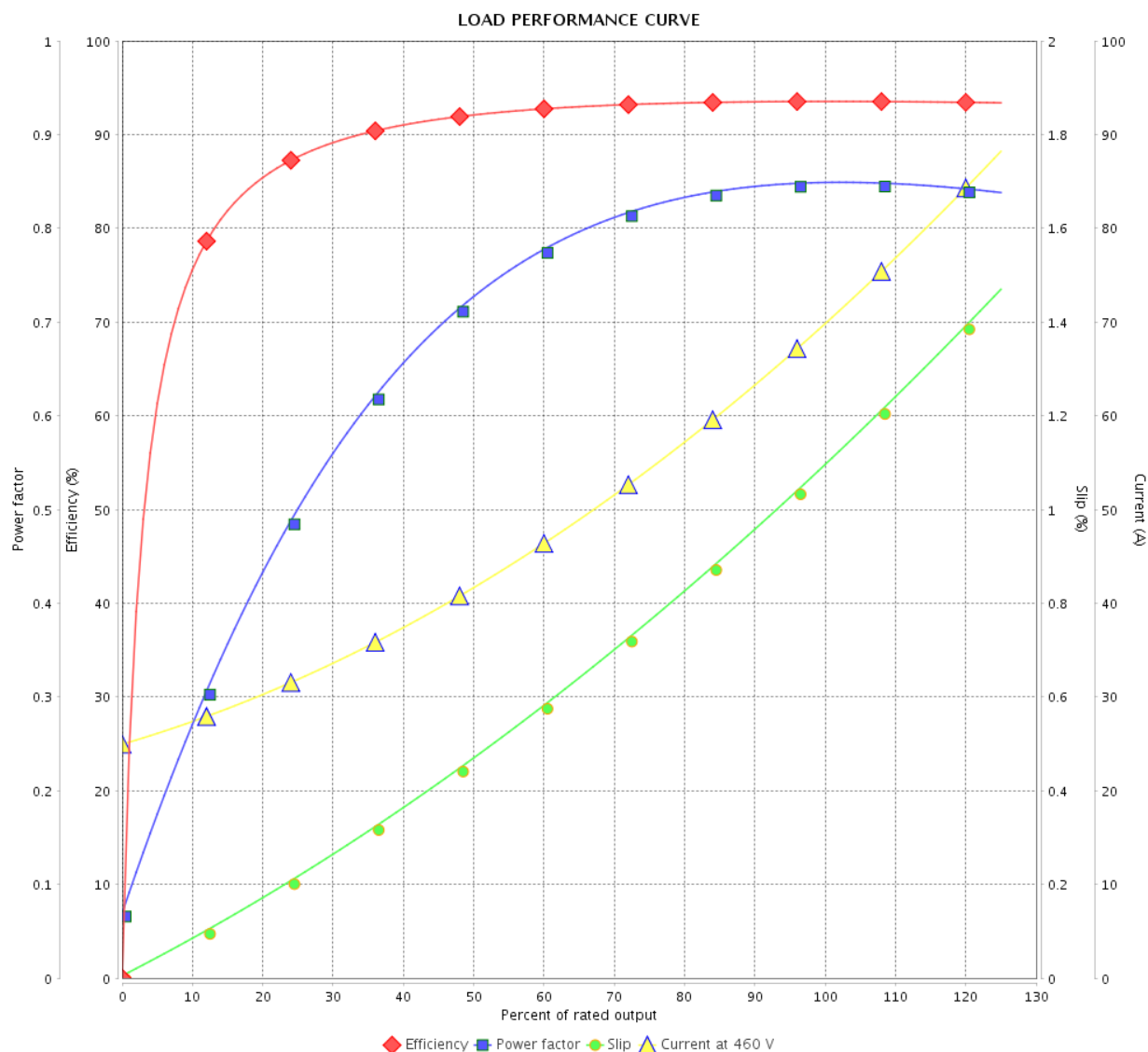


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 71.0 A
LRC : 6.3
Rated torque : 88.5 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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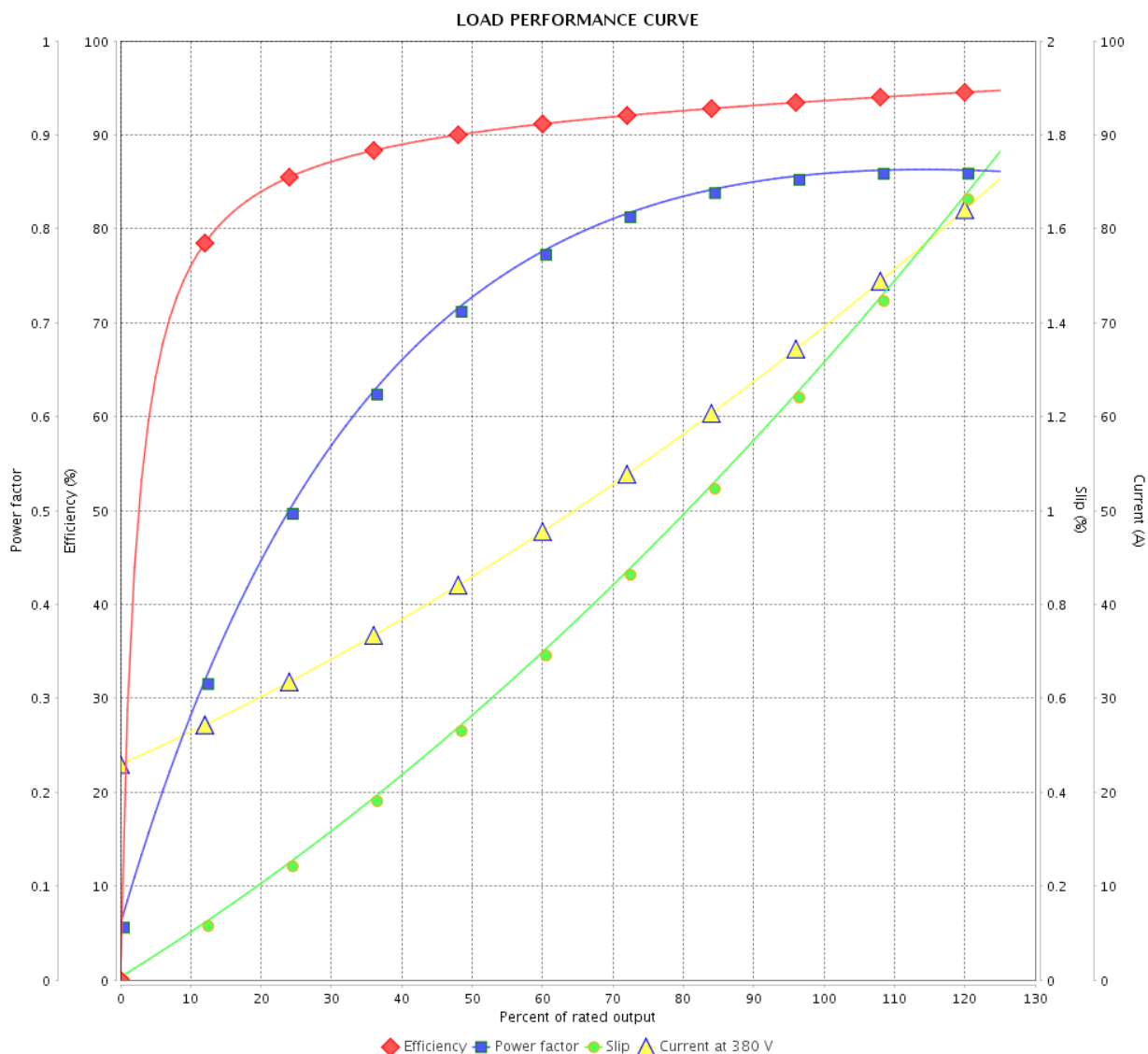


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A
LRC : 6.9
Rated torque : 88.7 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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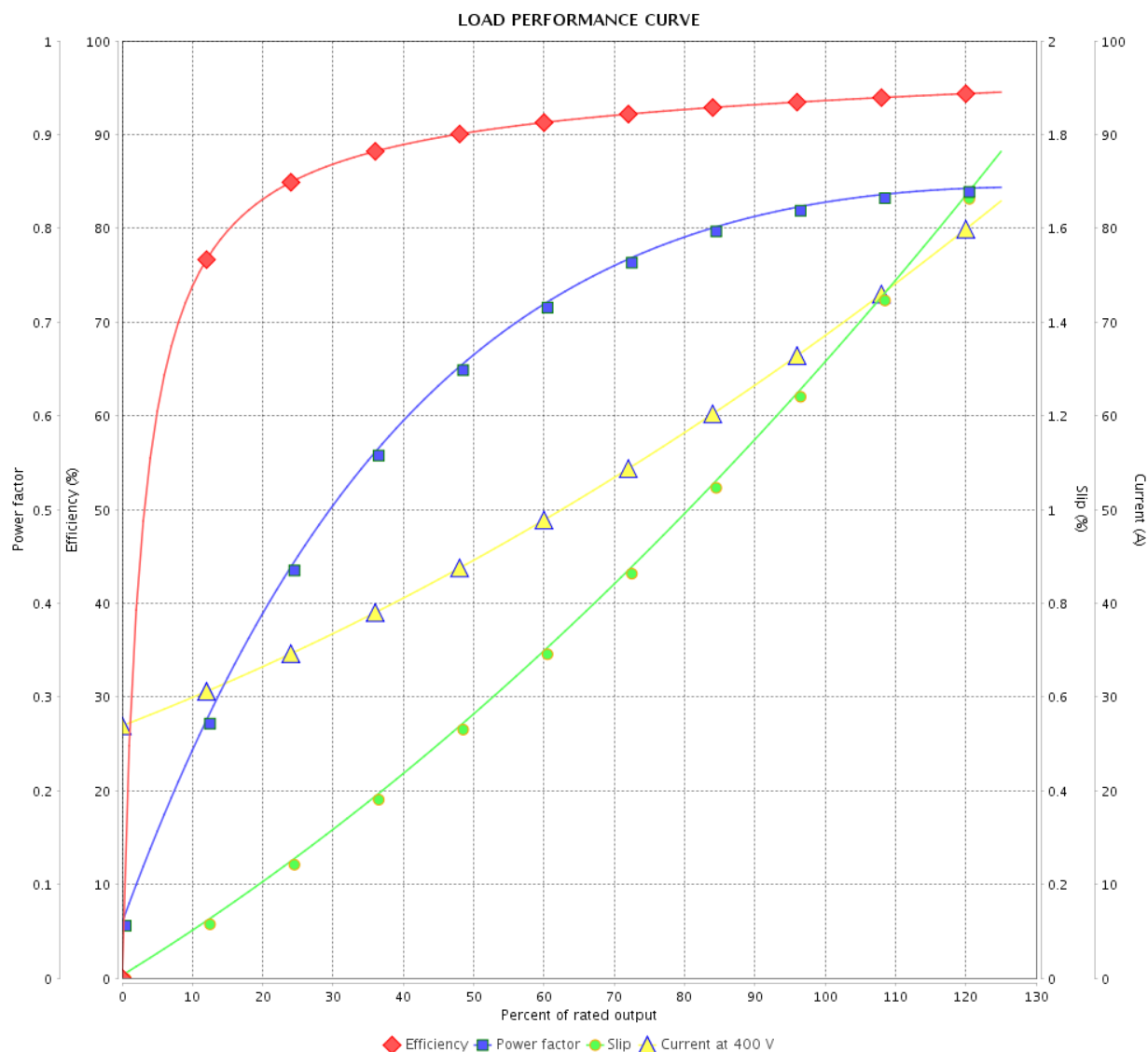


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 68.7 A
LRC : 6.7
Rated torque : 88.7 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 250 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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LOAD PERFORMANCE CURVE

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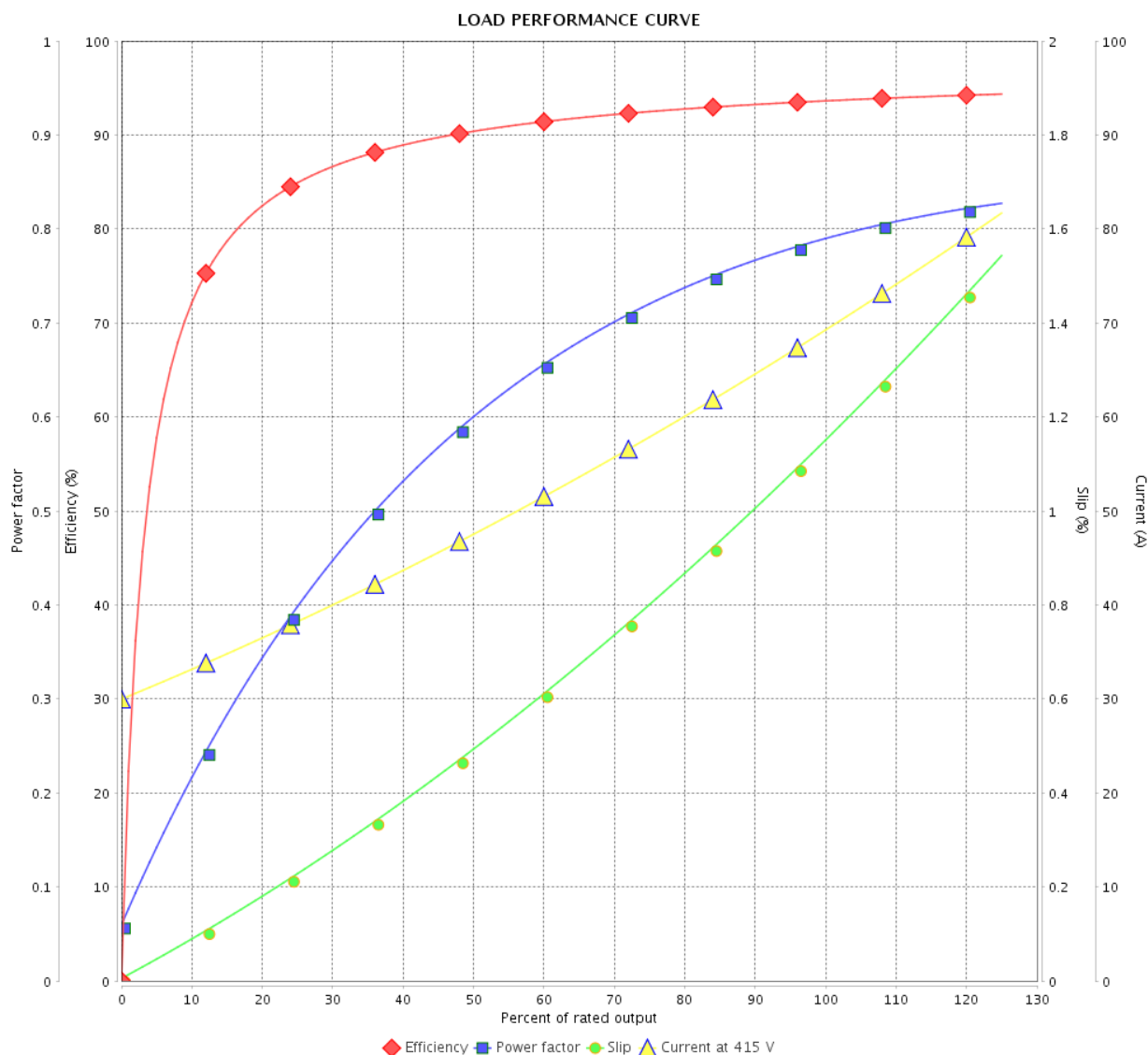


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Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 415 V 50 Hz 2P IE3

Rated current : 69.5 A
LRC : 6.8
Rated torque : 88.6 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 270 %
Rated speed : 2965 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

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Product line

: W40 NEMA Premium Efficiency
Three-Phase

Product code :

14497427

Catalog # :

06036OT3G326TS-W40

Performance

: 460 V 60 Hz 2P

Rated current

: 71.0 A

LRC

: 6.3

Rated torque

: 88.5 ft.lb

Locked rotor torque

: 220 %

Breakdown torque

: 229 %

Rated speed

: 3560 rpm

Moment of inertia (J)

: 3.82 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.25

Temperature rise

: 80 K

Design

: B

Heating constant

Cooling constant

Rev.

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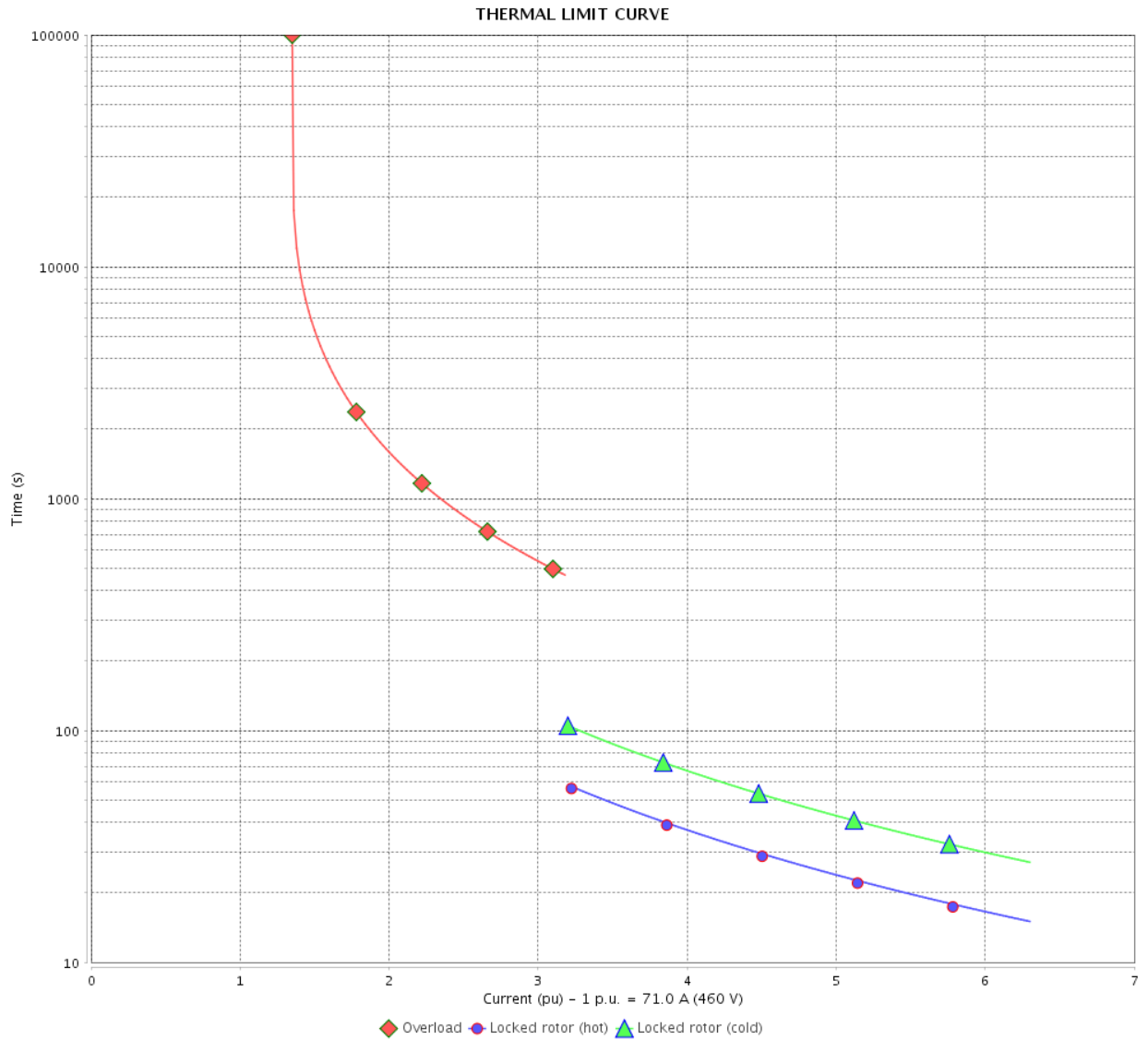
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Three Phase Induction Motor - Squirrel Cage



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Customer

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Product line

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Three-Phase

Product code :

14497427

Catalog # :

06036OT3G326TS-W40

Performance : 380 V 50 Hz 2P IE3

Rated current

: 69.8 A

LRC

: 6.9

Rated torque

: 88.7 ft.lb

Locked rotor torque

: 220 %

Breakdown torque

: 229 %

Rated speed

: 2960 rpm

Moment of inertia (J)

: 3.82 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.00

Temperature rise

: 80 K

Design

: B

Heating constant

Cooling constant

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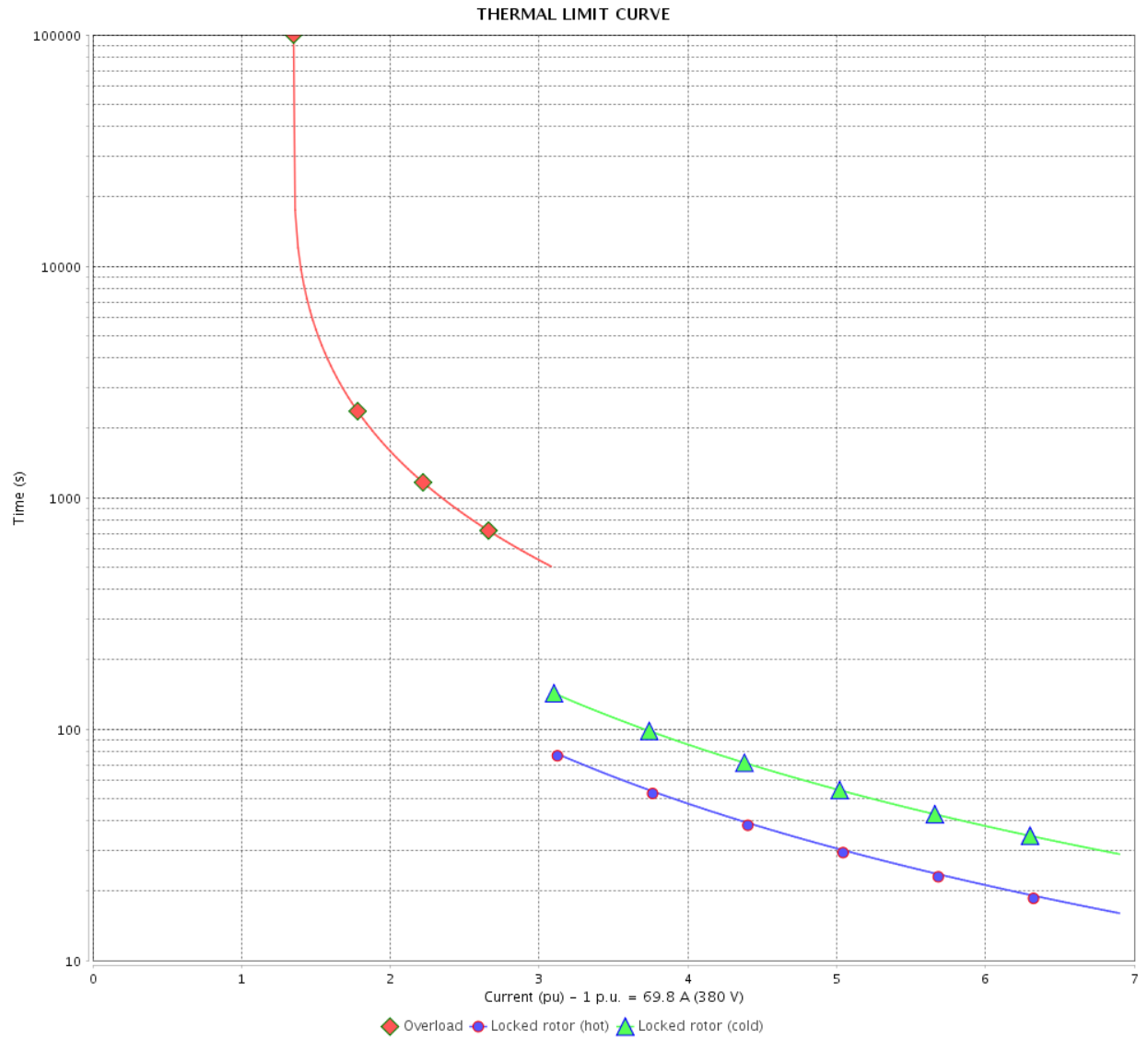
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Product code :

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Catalog # :

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Performance : 400 V 50 Hz 2P IE3

Rated current

: 68.7 A

LRC

: 6.7

Rated torque

: 88.7 ft.lb

Locked rotor torque

: 240 %

Breakdown torque

: 250 %

Rated speed

: 2960 rpm

Moment of inertia (J)

: 3.82 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.00

Temperature rise

: 80 K

Design

: B

Heating constant

Cooling constant

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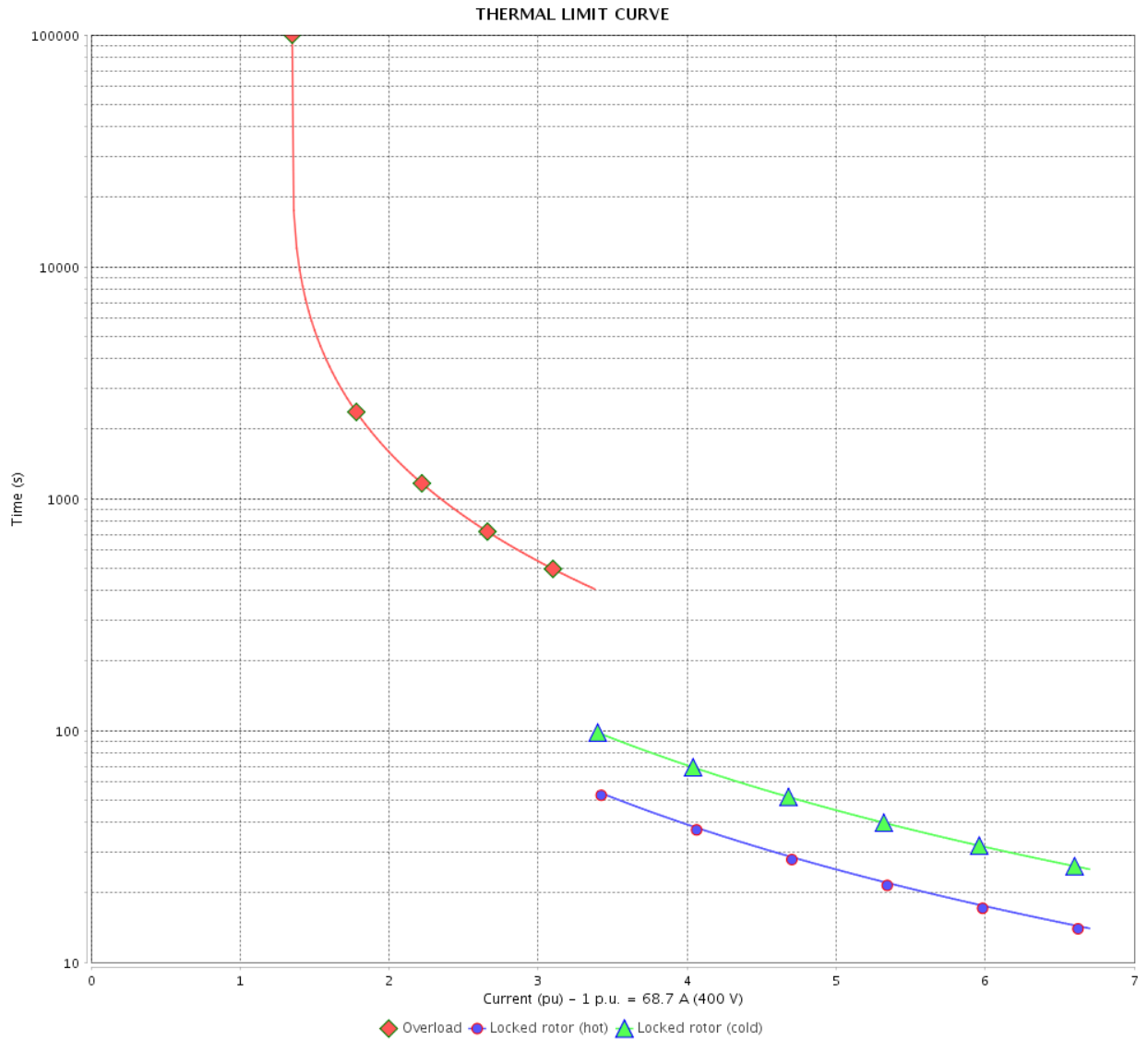
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Customer

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Product line

: W40 NEMA Premium Efficiency
Three-Phase

Product code :

14497427

Catalog # :

06036OT3G326TS-W40

Performance : 415 V 50 Hz 2P IE3

Rated current

: 69.5 A

LRC

: 6.8

Rated torque

: 88.6 ft.lb

Locked rotor torque

: 260 %

Breakdown torque

: 270 %

Rated speed

: 2965 rpm

Moment of inertia (J)

: 3.82 sq.ft.lb

Duty cycle

: Cont.(S1)

Insulation class

: F

Service factor

: 1.00

Temperature rise

: 80 K

Design

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Heating constant

Cooling constant

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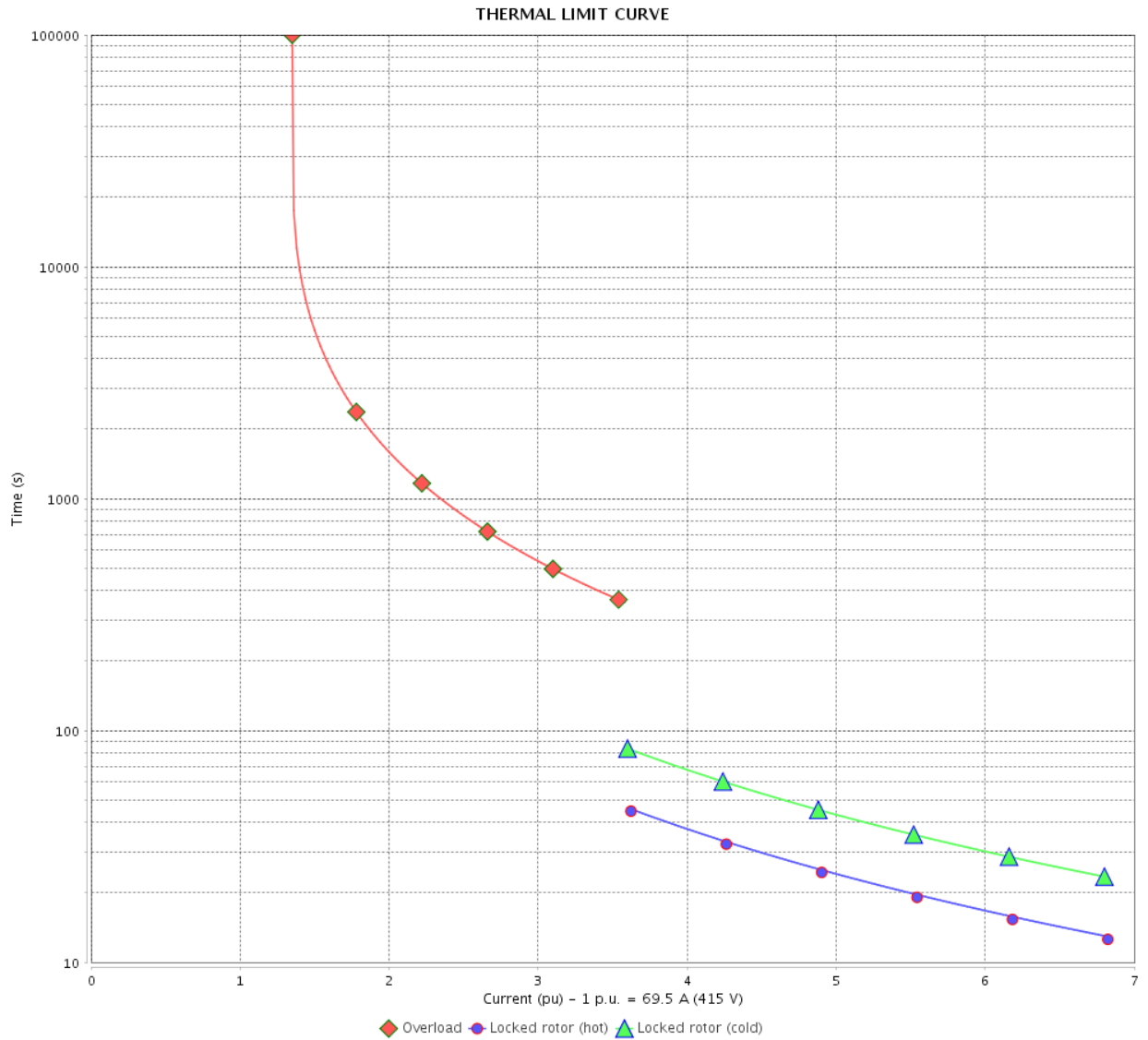
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

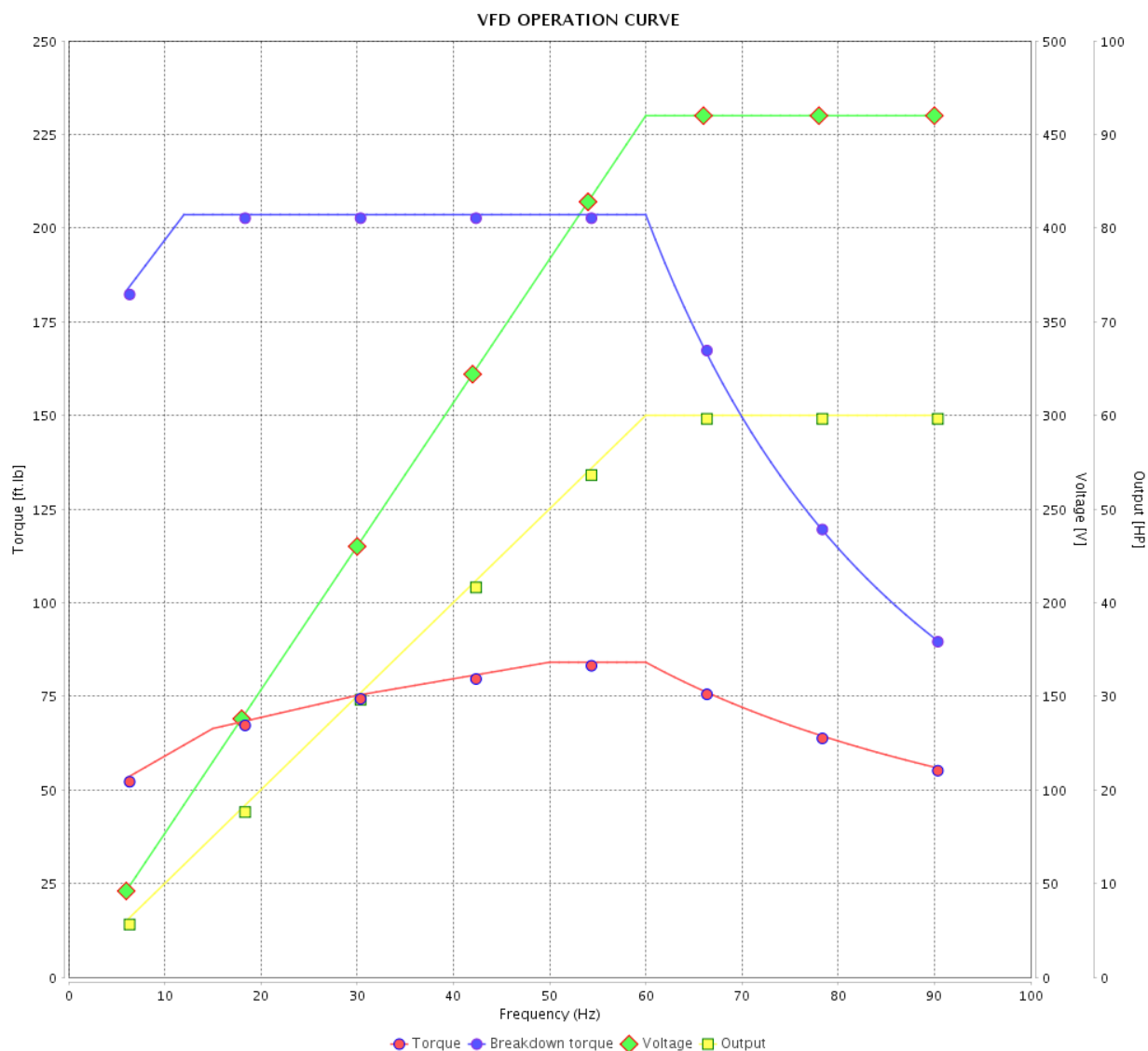


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 460 V 60 Hz 2P

Rated current : 71.0 A
LRC : 6.3
Rated torque : 88.5 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 3560 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

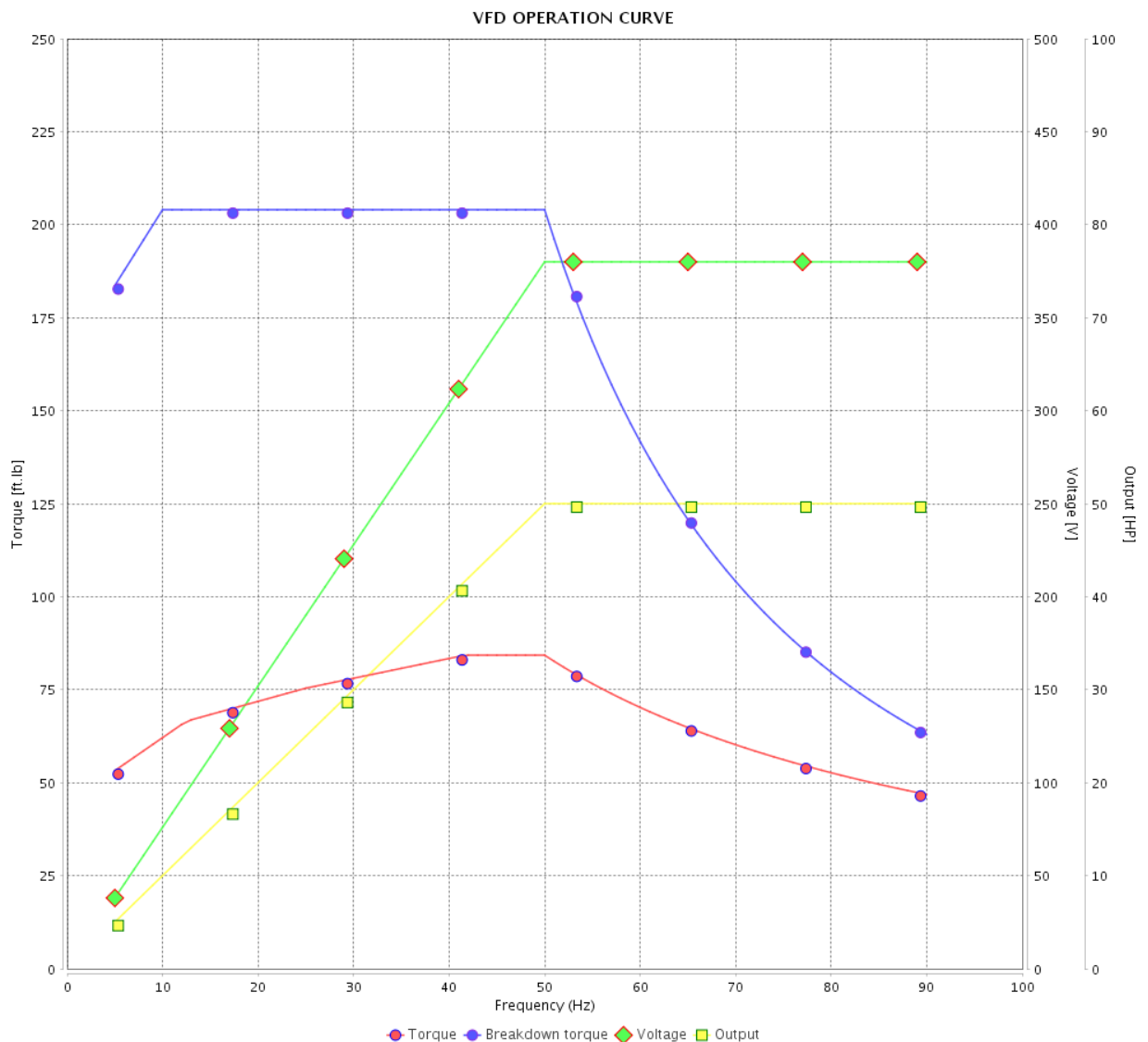


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Product code : 14497427

Catalog # : 06036OT3G326TS-W40



Performance : 380 V 50 Hz 2P IE3

Rated current : 69.8 A
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Locked rotor torque : 220 %
Breakdown torque : 229 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 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

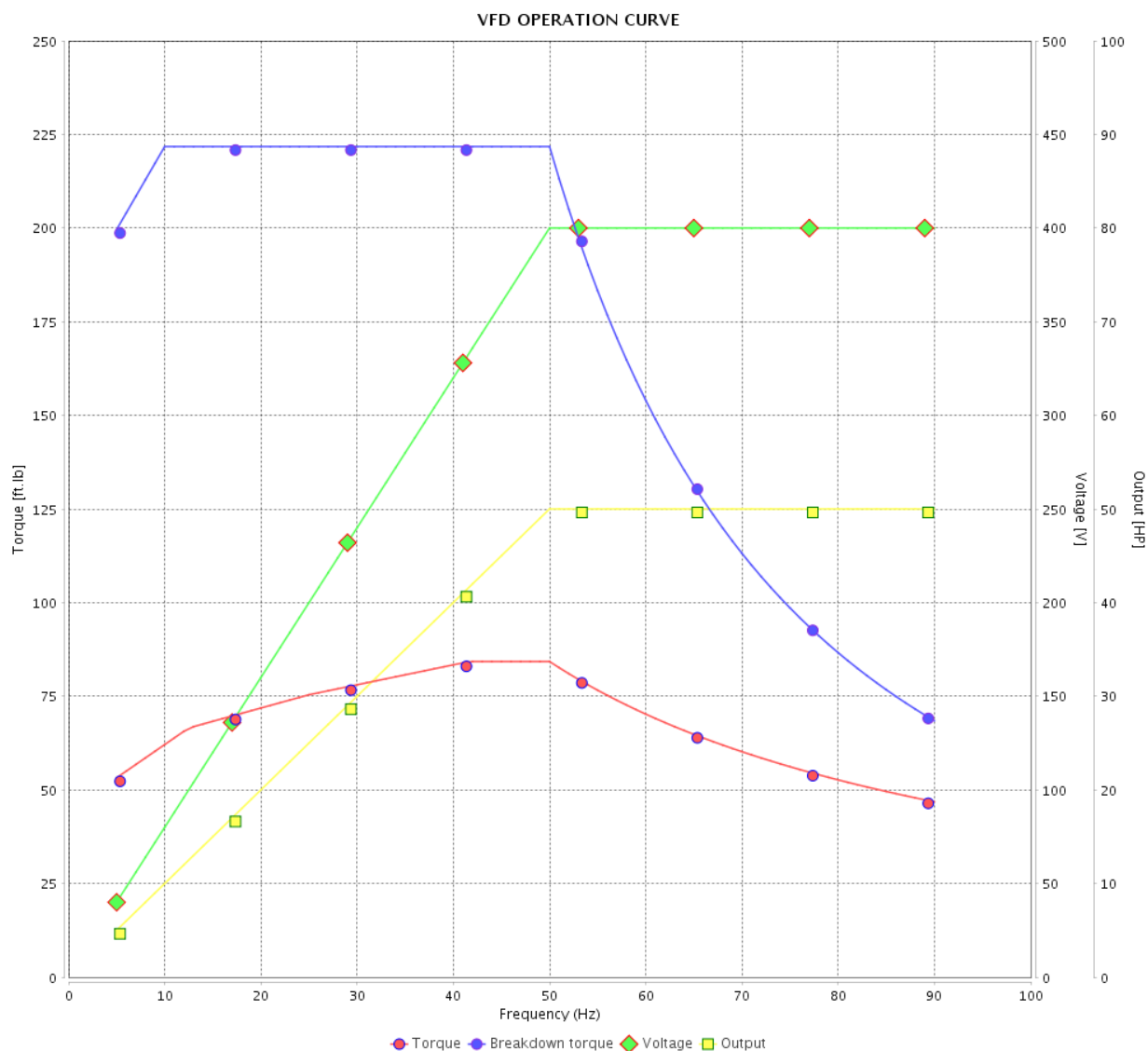


Customer :

Product line : W40 NEMA Premium Efficiency
Three-Phase

Product code : 14497427

Catalog # : 060360T3G326TS-W40



Performance : 400 V 50 Hz 2P IE3

Rated current : 68.7 A
LRC : 6.7
Rated torque : 88.7 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 250 %
Rated speed : 2960 rpm

Moment of inertia (J) : 3.82 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

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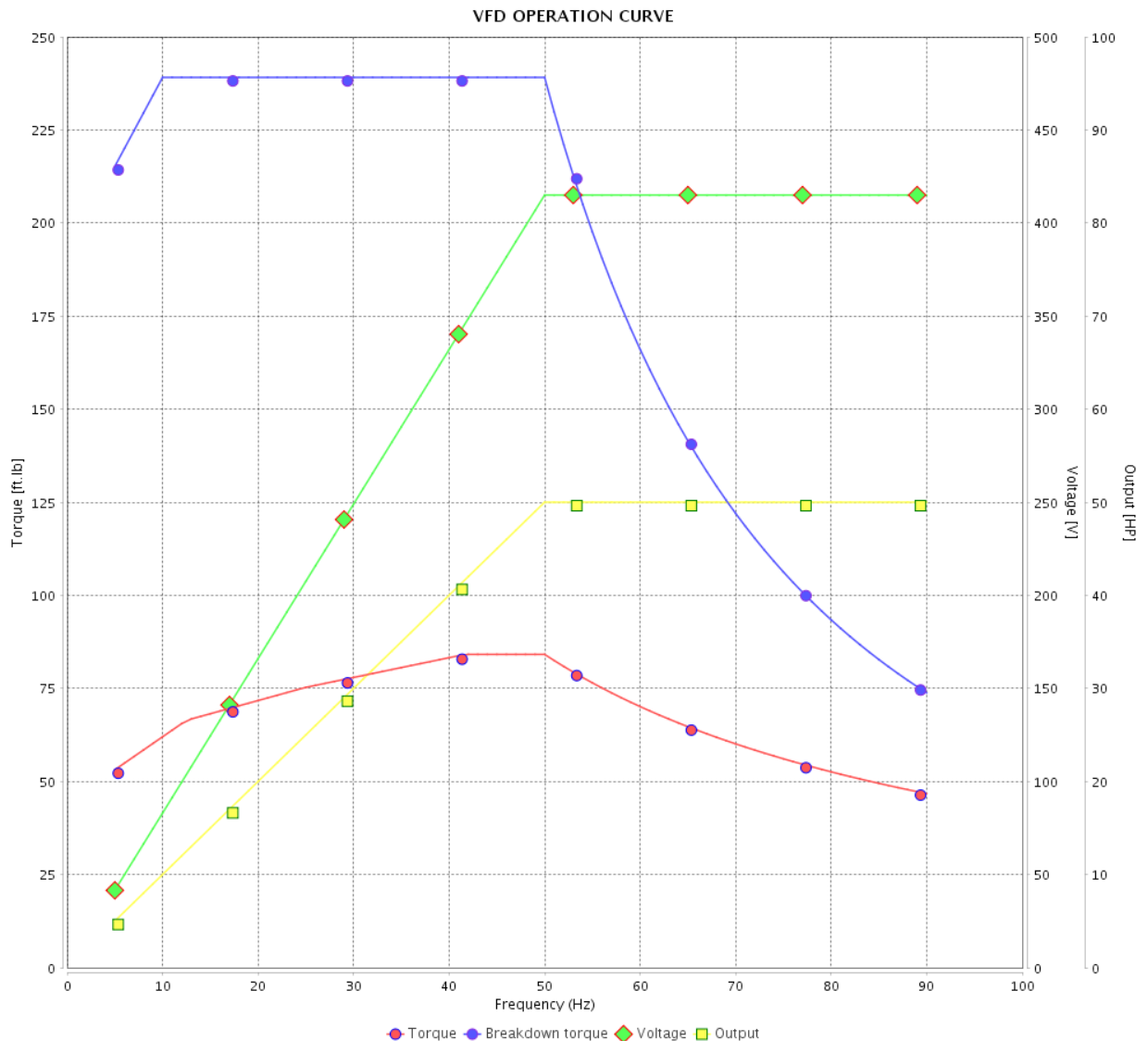


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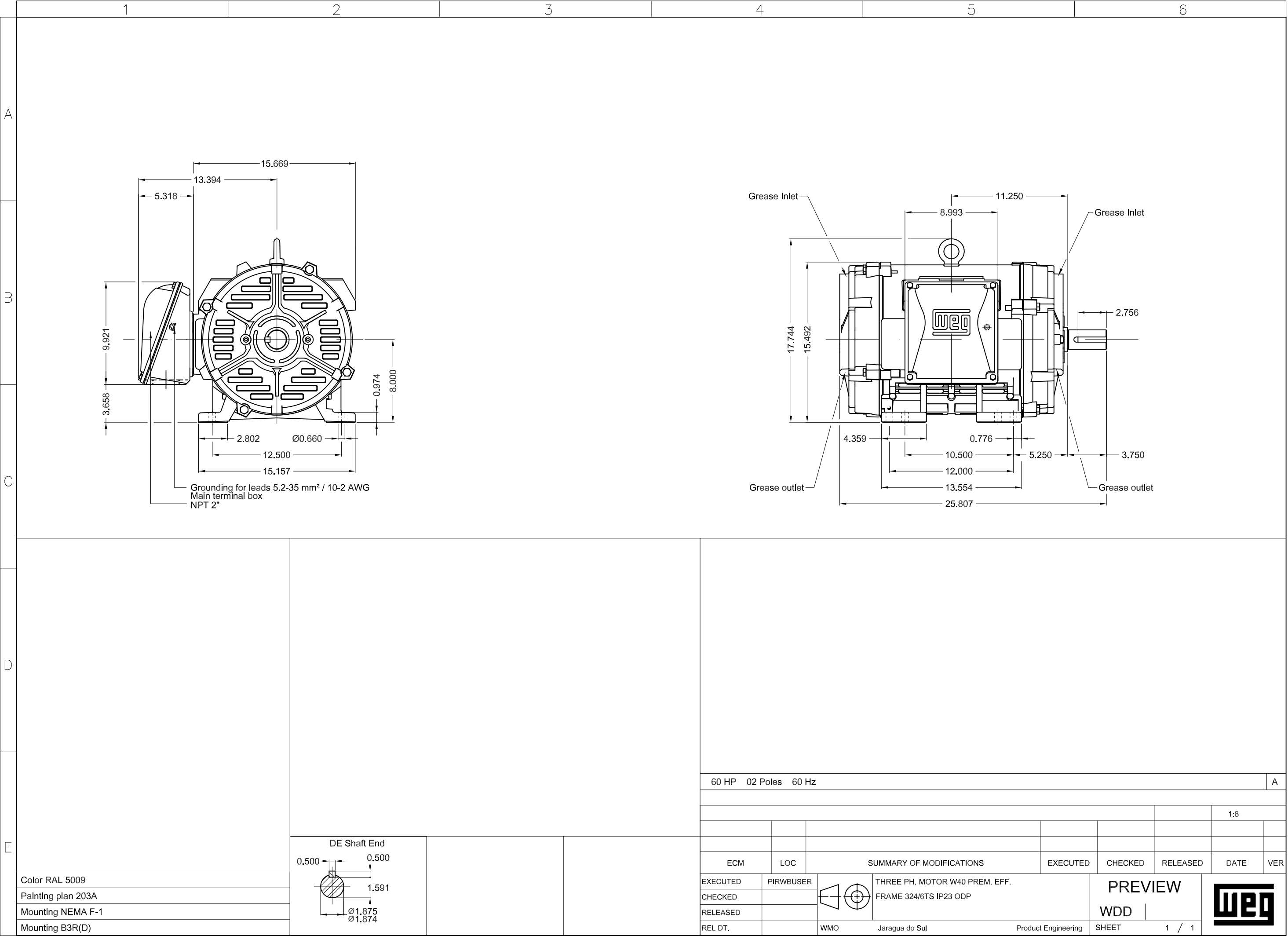
Rated current : 69.5 A
LRC : 6.8
Rated torque : 88.6 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 270 %
Rated speed : 2965 rpm

Moment of inertia (J) : 3.82 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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MODEL 060360T3G326TS-W40
MADE IN BRAZIL
14497427



IEC 60034-1
MOD.T01#FOXON



For use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 324/6TS	HP(kW) 60(45)			Hz 60	PART-WINDING						WYE-DELTA					
V 460		A 71.0			IP23	START			RUN			START			RUN		
						○T12	○T10	○T11	○T12	○T10	○T11	○T12	○T10	○T11	○T12	○T10	○T11
						○T7	○T8	○T9	○T7	○T8	○T9	○T6	○T4	○T5	○T6	○T4	○T5
						○T6	○T4	○T5	○T6	○T4	○T5	○T7	○T8	○T9	○T7	○T8	○T9
						○T1	○T2	○T3	○T1	○T2	○T3	○T1	○T2	○T3	○T1	○T2	○T3
						L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
ENCL ODP	DUTY CONT.			INS. CL. F ΔT 80 K			 → 6312-Z-C3 → 6211-Z-C3 MOBIL POLYREX EM 21 g 19658 h										
PF 0.85		DES B	CODE G	AMB. 40°C													
SF 1.25	SFA 88.8			ALT 1000 m.a.s.l.		461 Lbs											