

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W40 JP Pump NEMA Premium Efficiency Three-Phase	Product code :	14484977		
		Catalog # :	01012OT3E256JP-W40		
Frame	: 254/6JP	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	: 275 lb		
Protection degree	: IP23	Moment of inertia (J)	: 3.53 sq.ft.lb		
Design	: B				
Output [HP]	10	10	10	10	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	25.6/12.8	15.0	14.6	14.3	
L. R. Amperes [A]	174/87.0	88.5	93.4	94.4	
LRC [A]	6.8x(Code H)	5.9x(Code G)	6.4x(Code H)	6.6x(Code H)	
No load current [A]	12.2/6.10	6.10	6.50	6.80	
Rated speed [RPM]	1180	970	975	975	
Slip [%]	1.67	3.00	2.50	2.50	
Rated torque [ft.lb]	44.5	54.1	53.9	53.9	
Locked rotor torque [%]	229	190	210	229	
Breakdown torque [%]	300	229	260	280	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	
Noise level ²	59.0 dB(A)				
Efficiency (%)	25%	89.4	88.3	88.3	88.3
	50%	90.2	88.6	88.6	88.6
	75%	91.0	89.0	89.0	89.0
	100%	91.7	89.1	89.1	89.1
Power Factor	25%	0.37	0.44	0.41	0.38
	50%	0.62	0.70	0.66	0.63
	75%	0.74	0.80	0.78	0.76
	100%	0.80	0.85	0.83	0.82
Bearing type	: Drive end : 6309 Z C3	Non drive end : 6209 Z C3	Foundation loads		
Sealing	: Without	Without	Max. traction		
	Bearing Seal	Bearing Seal	Max. compression		
Lubrication interval	: 20000 h	20000 h			
Lubricant amount	: 13 g	9 g			
Lubricant type	: Mobil Polyrex EM				
Notes					
USABLE @208V 28.3A SF 1.15 SFA 32.6A					
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



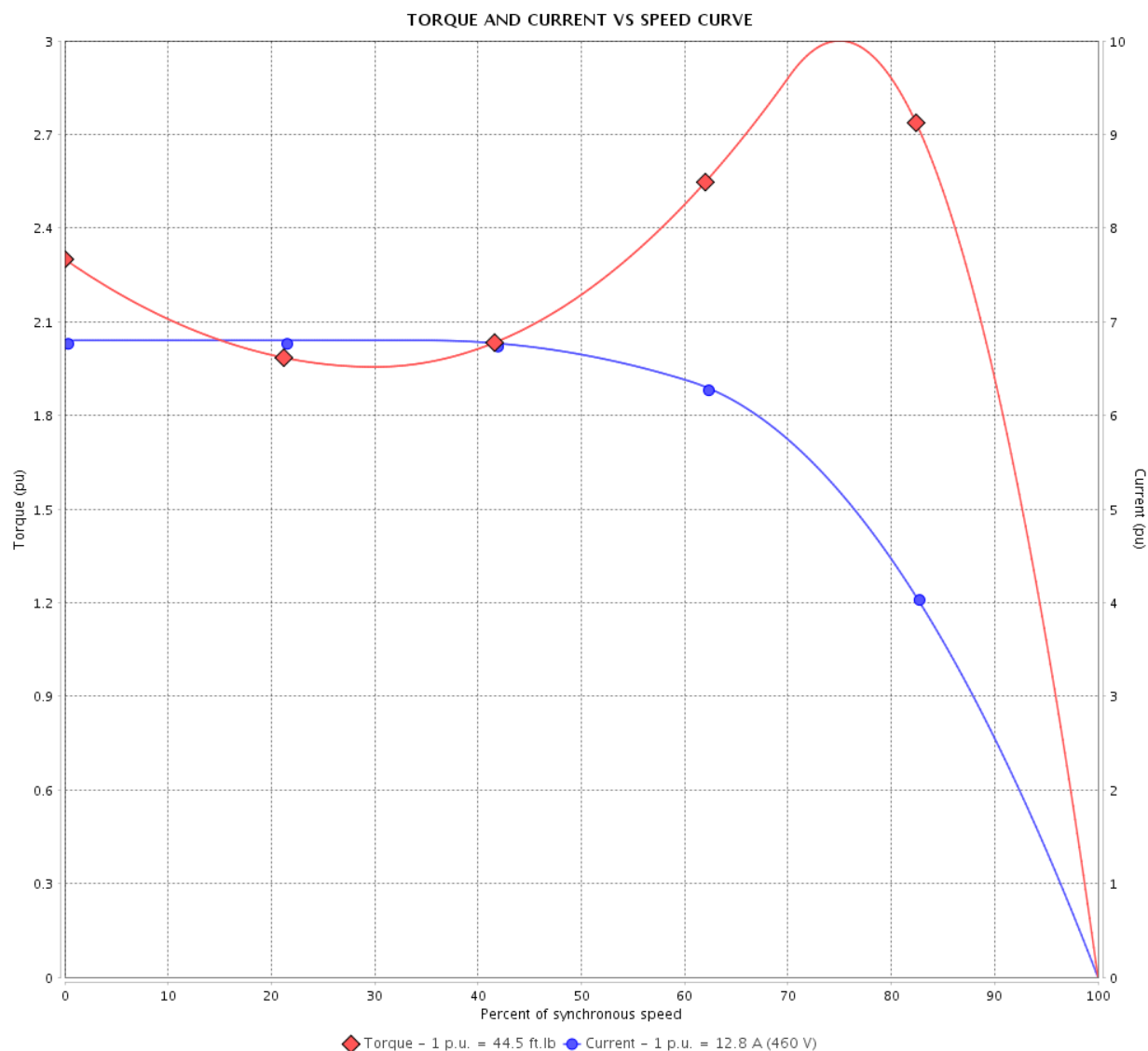
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 230/460 V 60 Hz 6P

Rated current	: 25.6/12.8 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 44.5 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



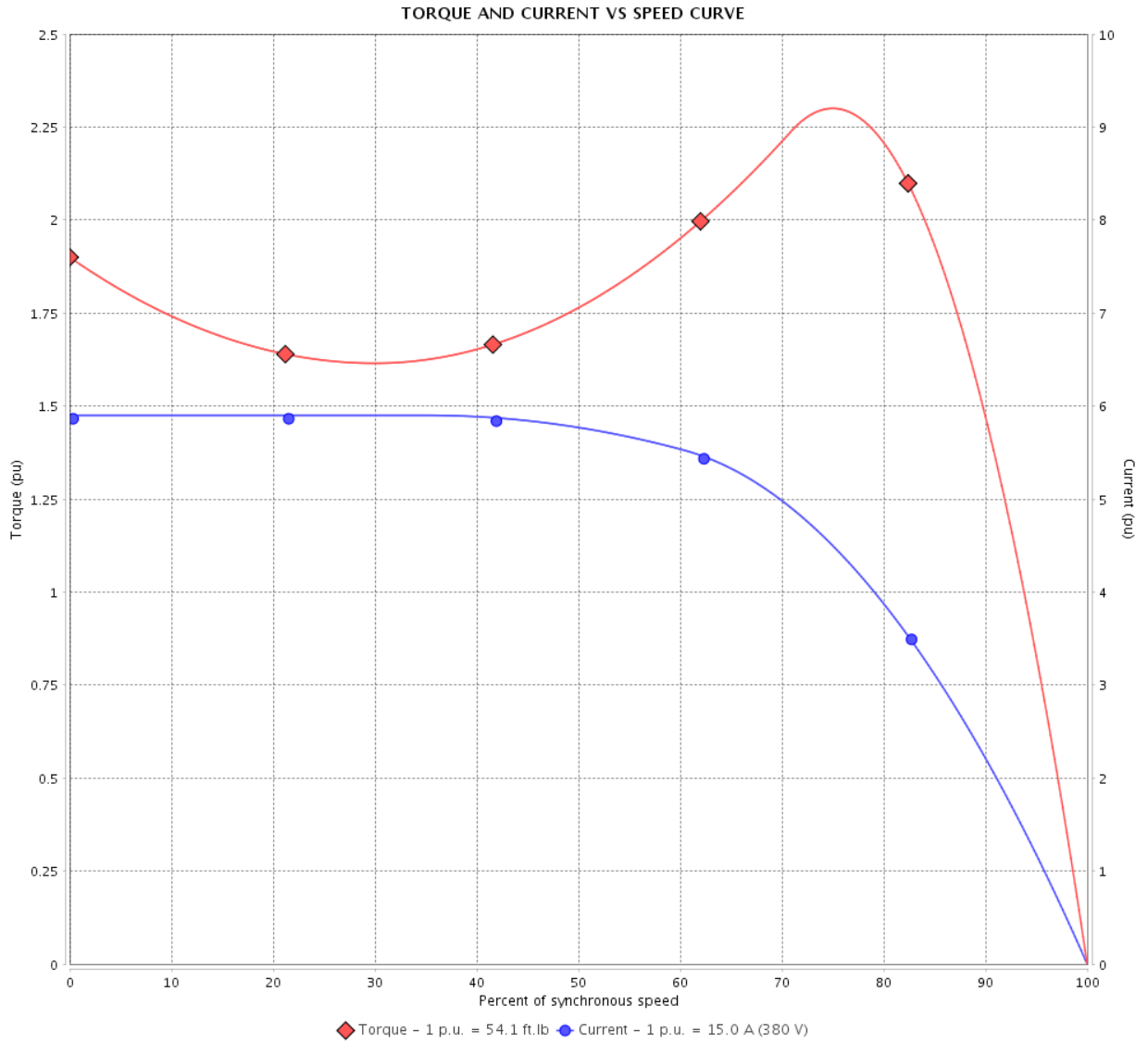
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 380 V 50 Hz 6P IE3

Rated current	: 15.0 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 54.1 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 970 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



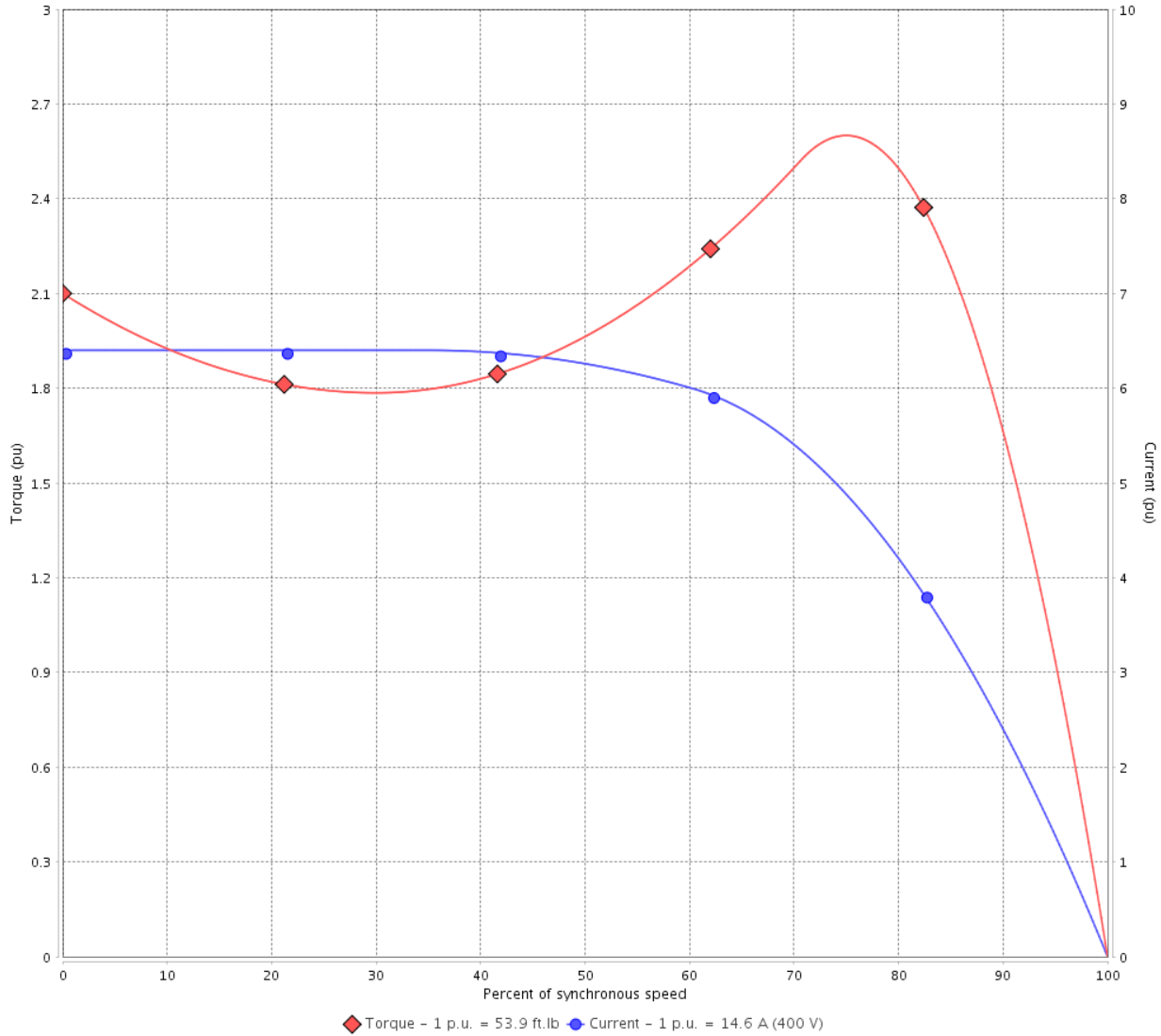
Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 010120T3E256JP-W40

TORQUE AND CURRENT VS SPEED CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current	: 14.6 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



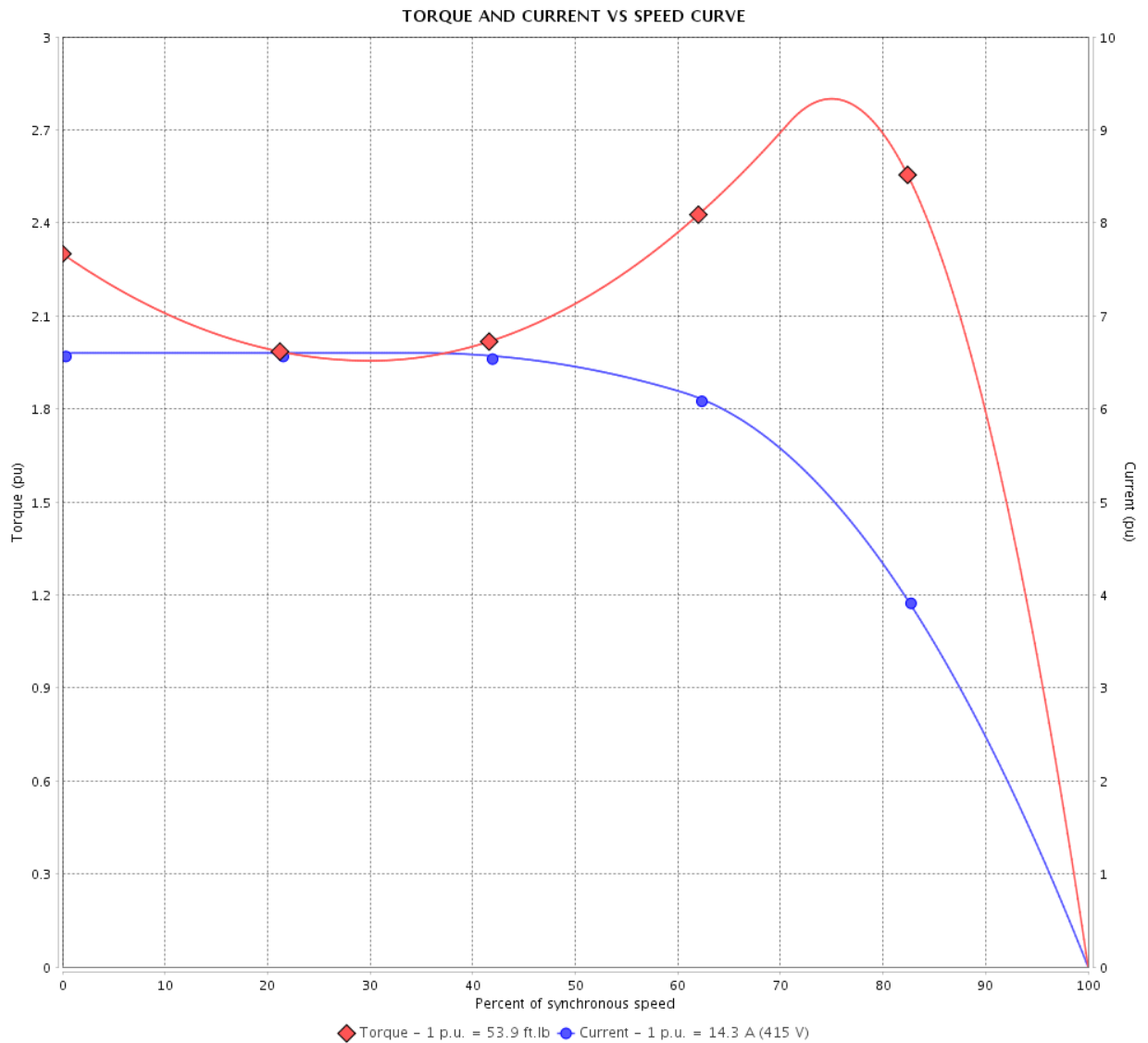
Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 415 V 50 Hz 6P IE3

Rated current	: 14.3 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

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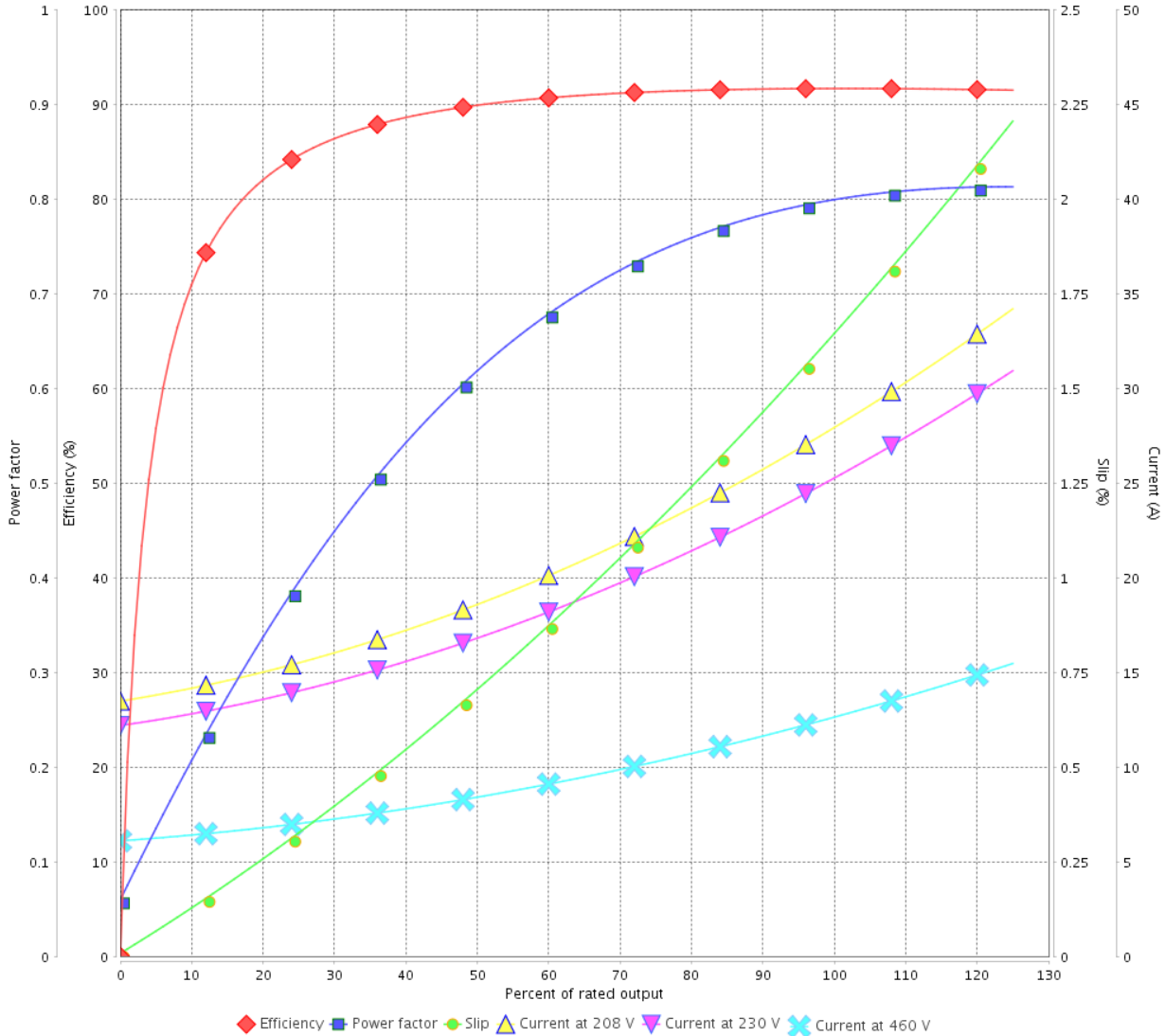
Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 010120T3E256JP-W40

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 6P

Rated current : 25.6/12.8 A
 LRC : 6.8
 Rated torque : 44.5 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 3.53 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage

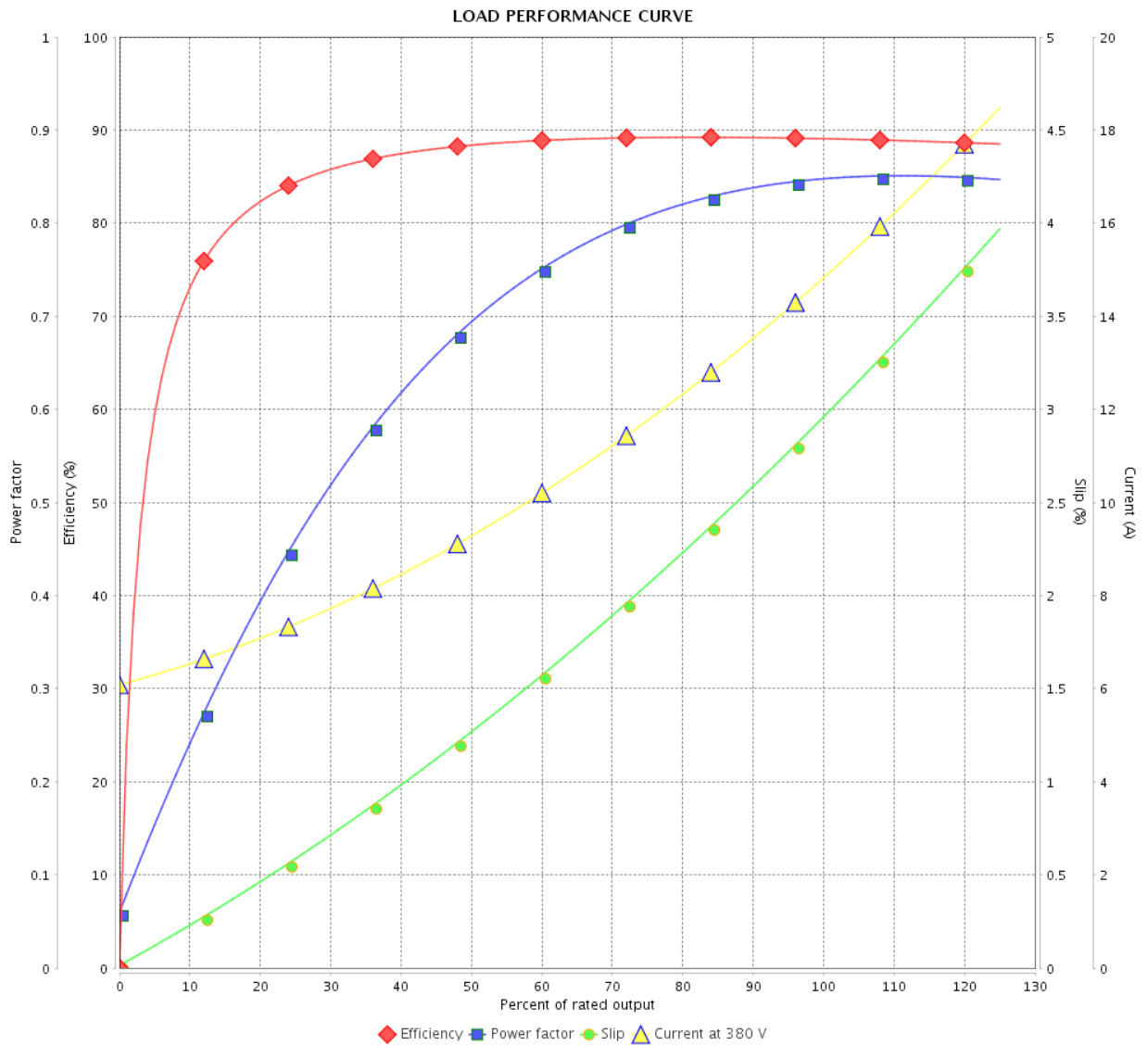


Customer :

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Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.0 A
 LRC : 5.9
 Rated torque : 54.1 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 970 rpm

Moment of inertia (J) : 3.53 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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Three Phase Induction Motor - Squirrel Cage



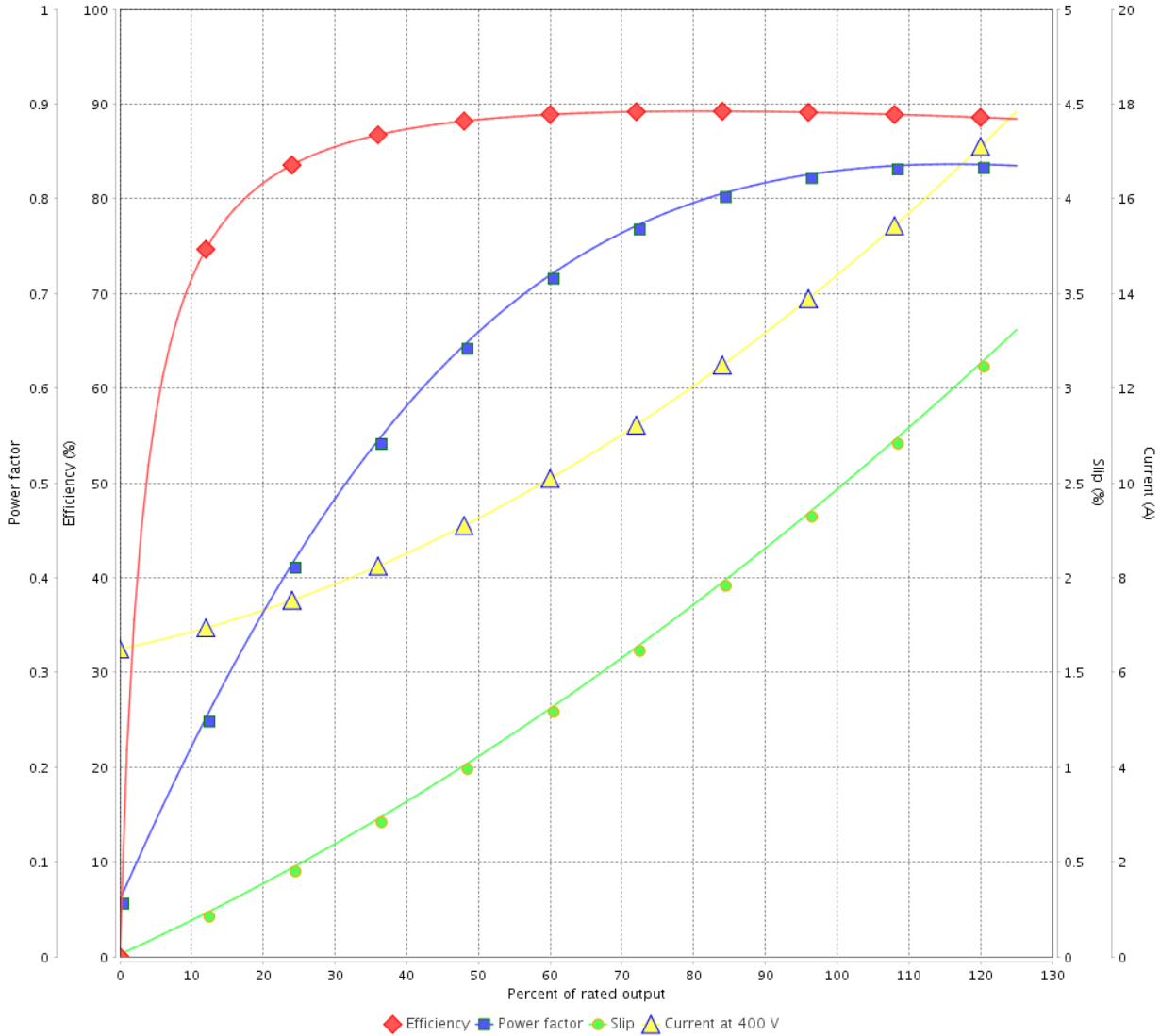
Customer : _____

Product line : W40 JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484977

Catalog # : 010120T3E256JP-W40

LOAD PERFORMANCE CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current : 14.6 A
LRC : 6.4
Rated torque : 53.9 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 260 %
Rated speed : 975 rpm

Moment of inertia (J) : 3.53 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date				

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

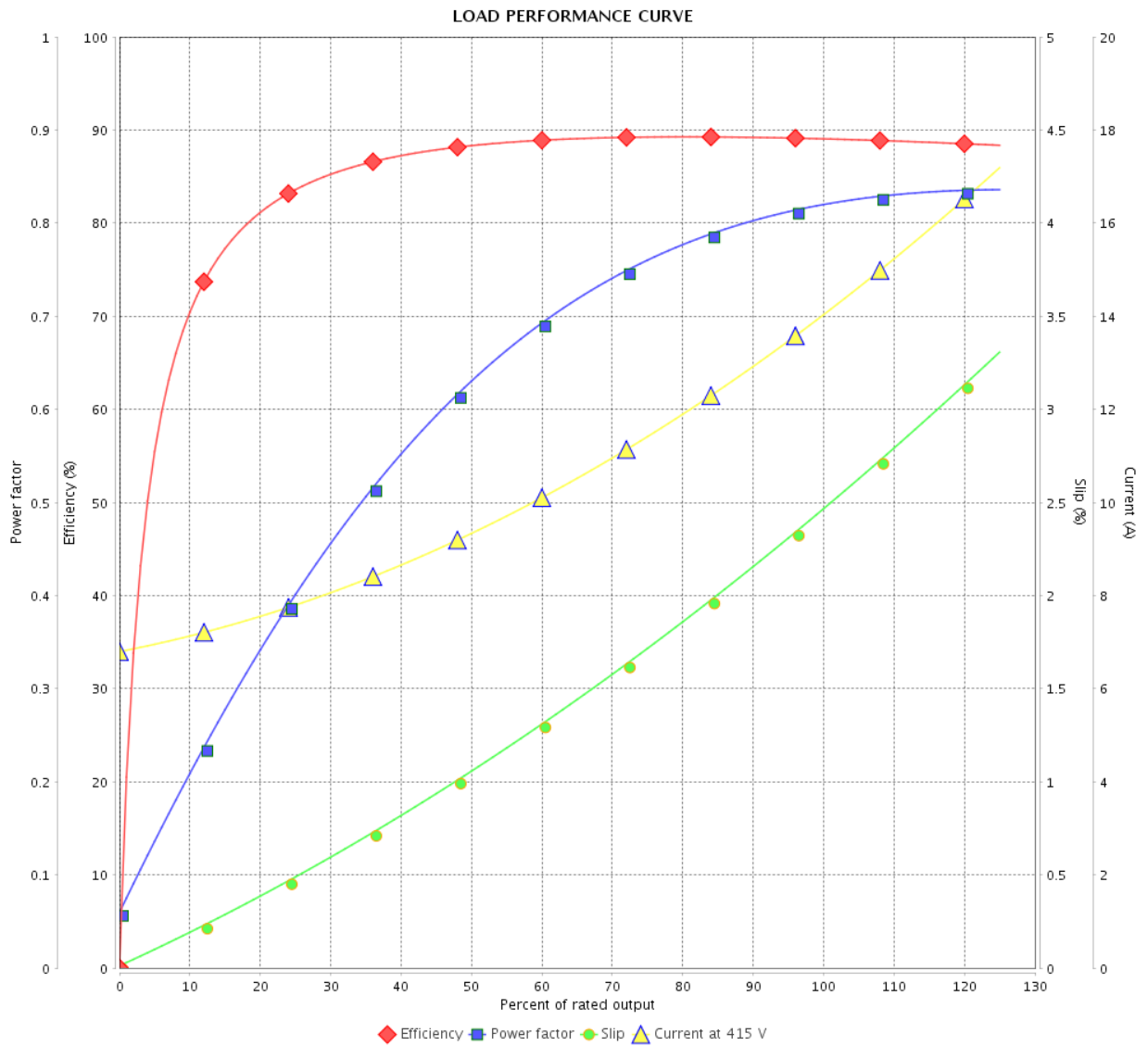


Customer : _____

Product line : W40 JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 415 V 50 Hz 6P IE3

Rated current : 14.3 A
 LRC : 6.6
 Rated torque : 53.9 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 975 rpm

Moment of inertia (J) : 3.53 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



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Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

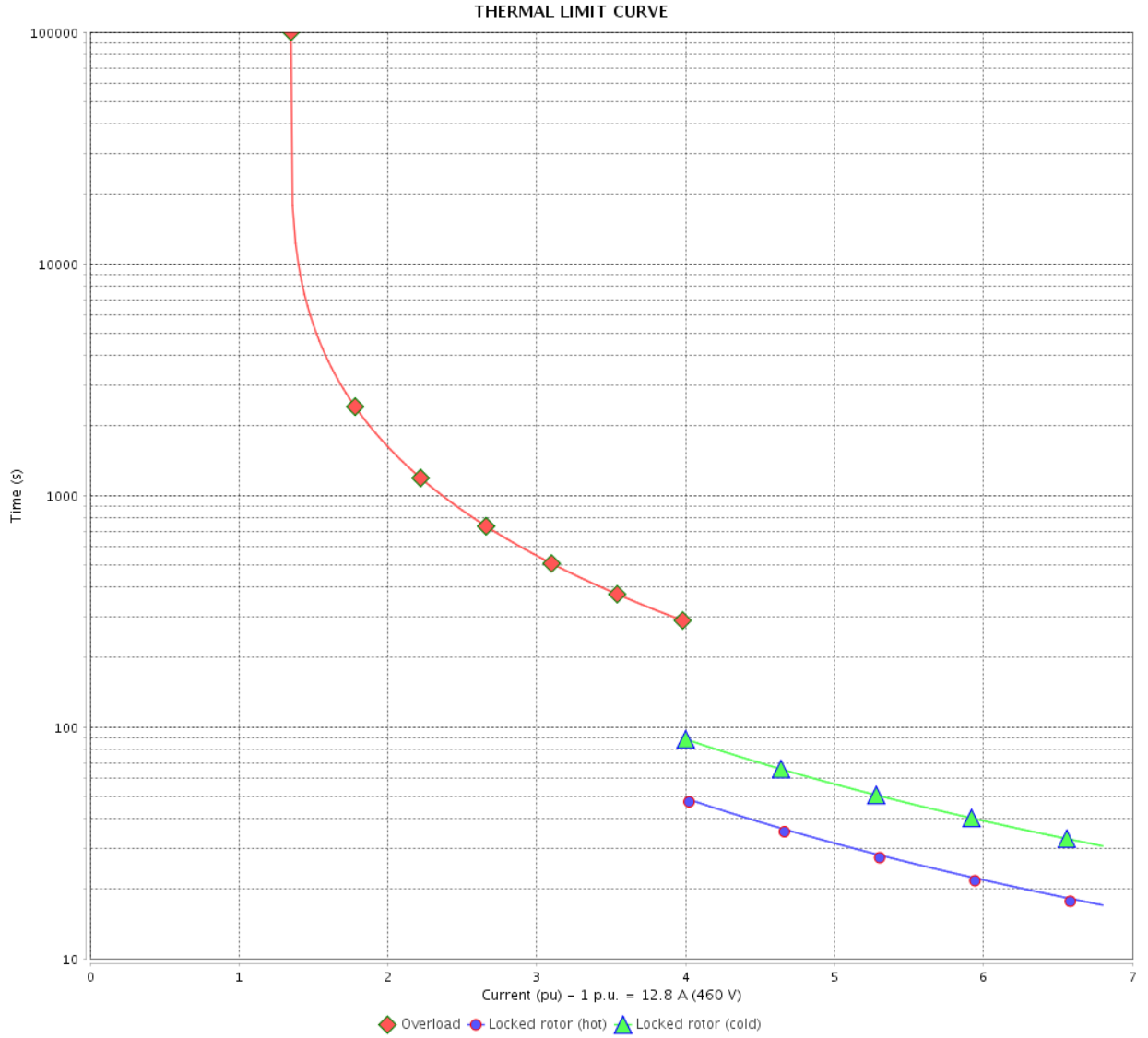
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



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THERMAL LIMIT CURVE

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Customer :

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Performance : 380 V 50 Hz 6P IE3

Rated current : 15.0 A
LRC : 5.9
Rated torque : 54.1 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 229 %
Rated speed : 970 rpm

Moment of inertia (J) : 3.53 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Heating constant

Cooling constant

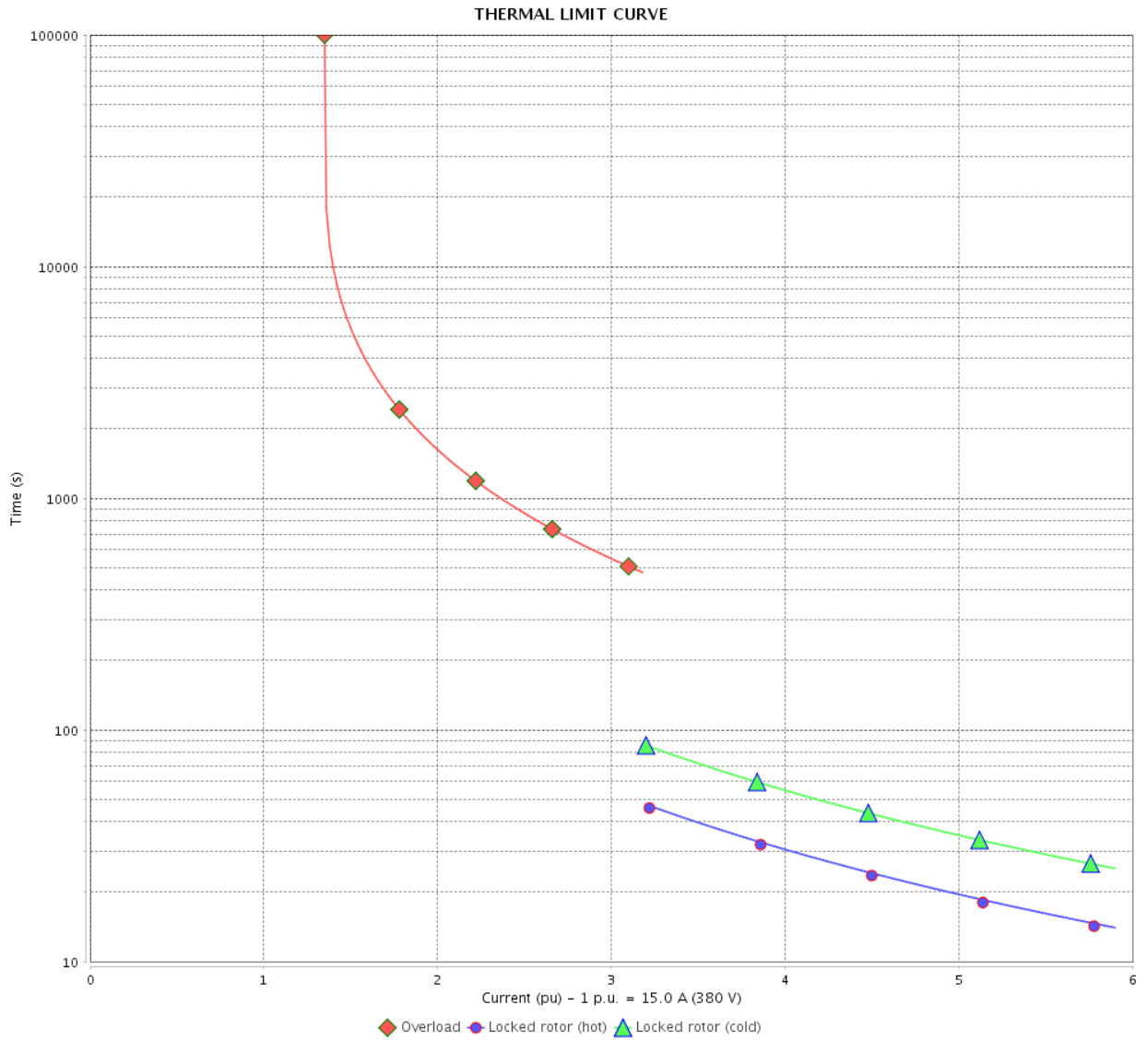
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40

Performance : 400 V 50 Hz 6P IE3

Rated current	: 14.6 A	Moment of inertia (J)	: 3.53 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

Heating constant

Cooling constant

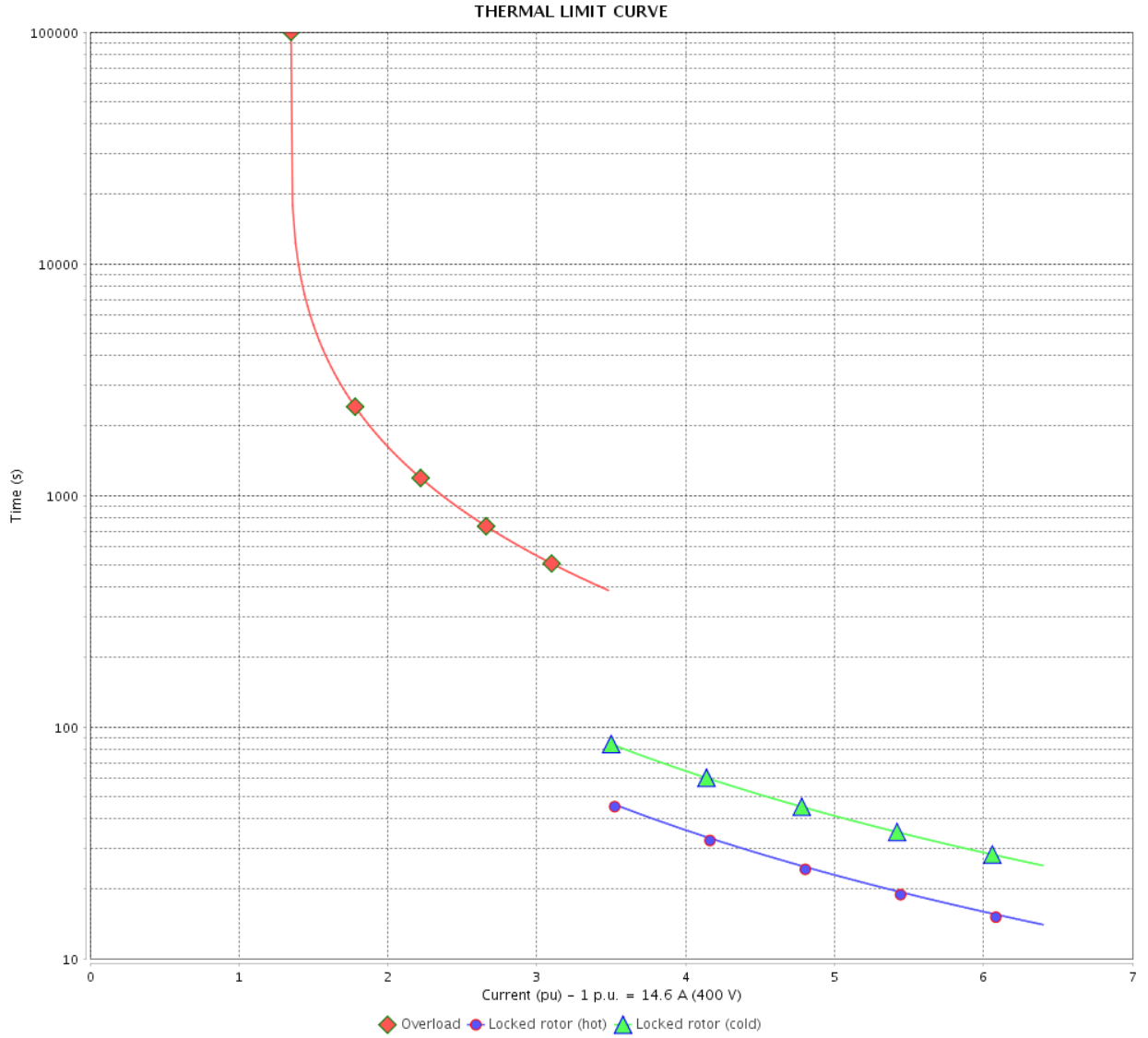
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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THERMAL LIMIT CURVE



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W40 JP Pump NEMA Premium
Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40

Performance : 415 V 50 Hz 6P IE3

Rated current : 14.3 A	Moment of inertia (J) : 3.53 sq.ft.lb
LRC : 6.6	Duty cycle : Cont.(S1)
Rated torque : 53.9 ft.lb	Insulation class : F
Locked rotor torque : 229 %	Service factor : 1.00
Breakdown torque : 280 %	Temperature rise : 80 K
Rated speed : 975 rpm	Design : B

Heating constant

Cooling constant

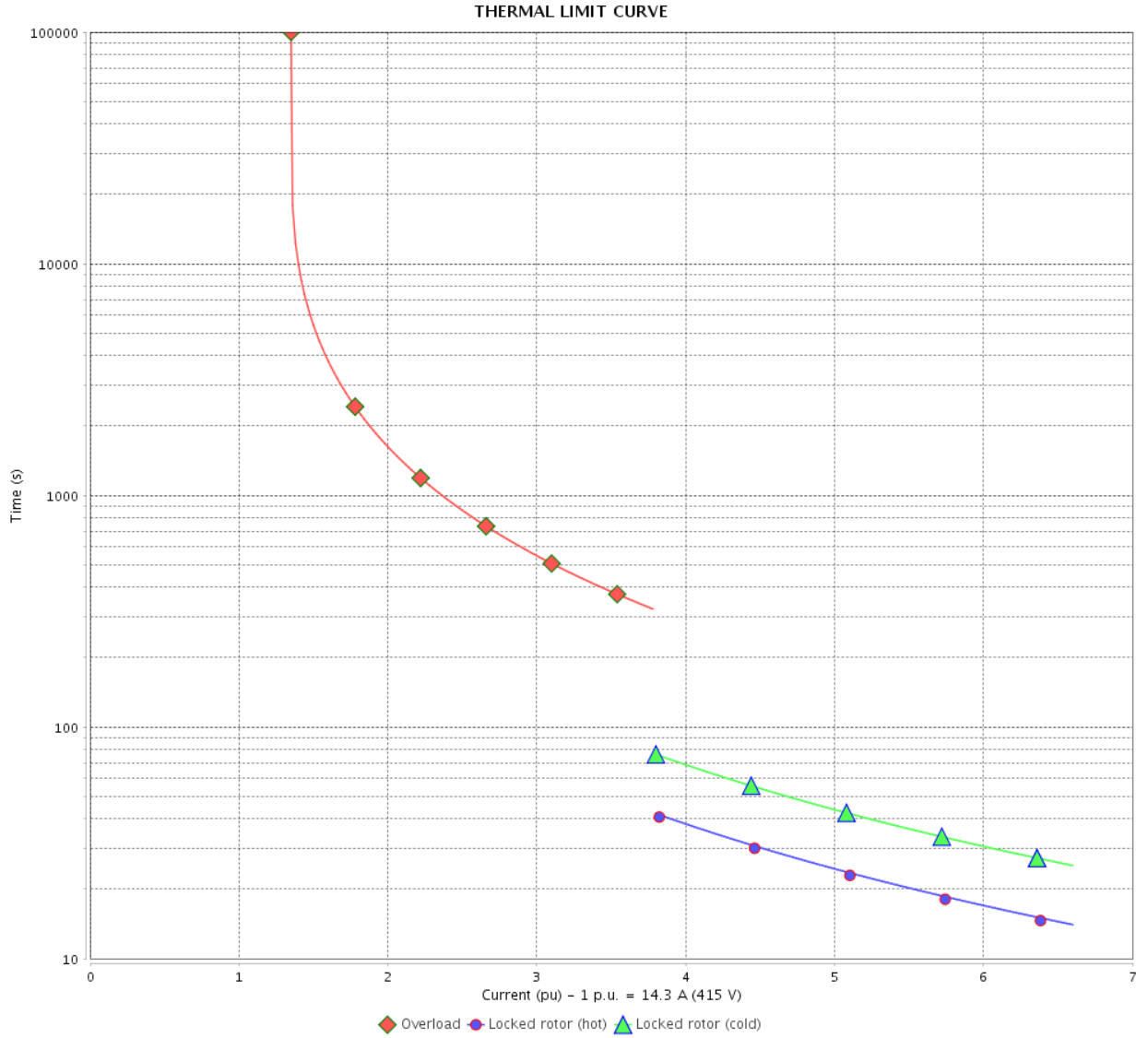
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Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

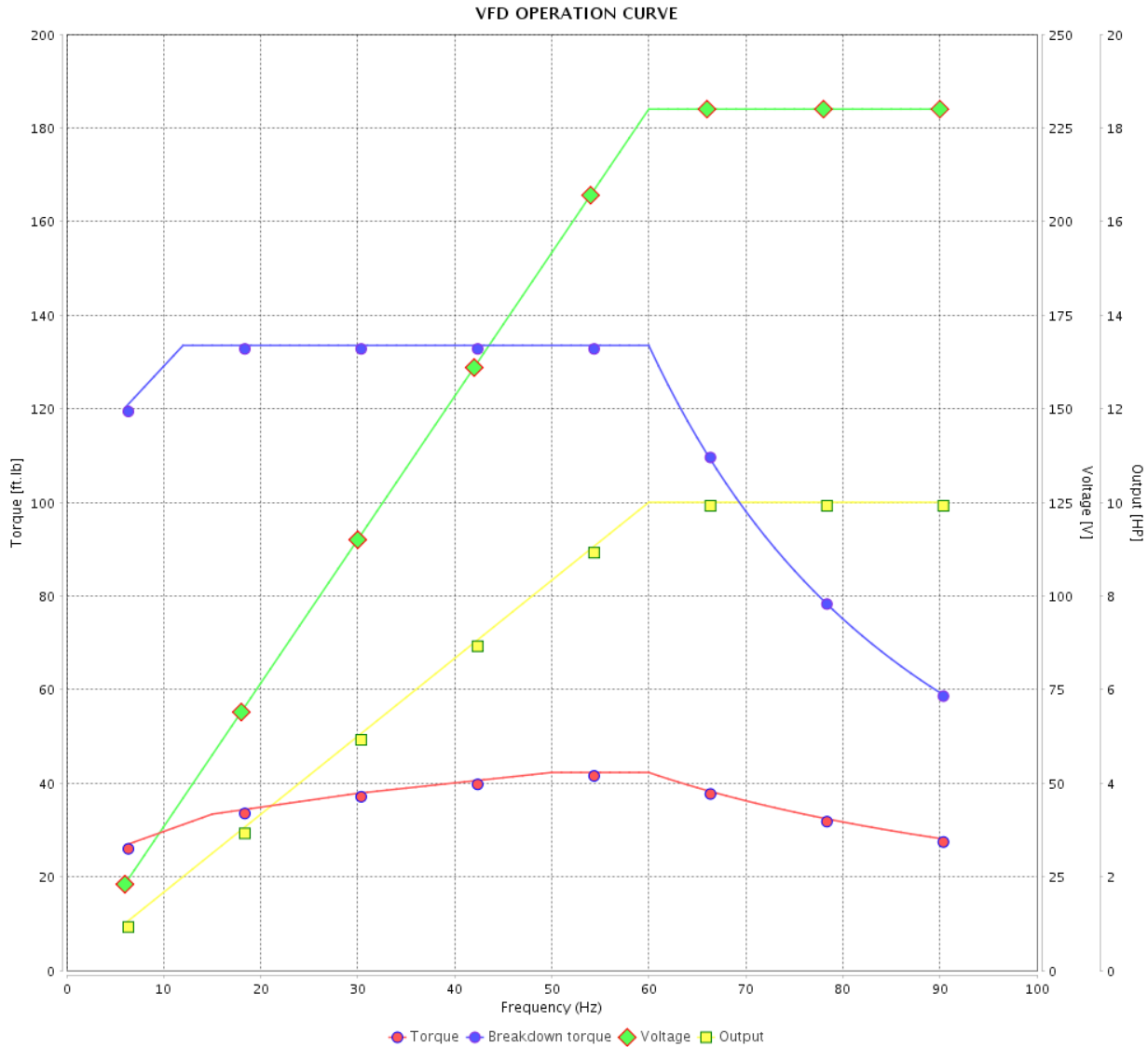


Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 010120T3E256JP-W40



Performance : 230/460 V 60 Hz 6P

Rated current : 25.6/12.8 A
 LRC : 6.8
 Rated torque : 44.5 ft.lb
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 3.53 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
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Date				

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

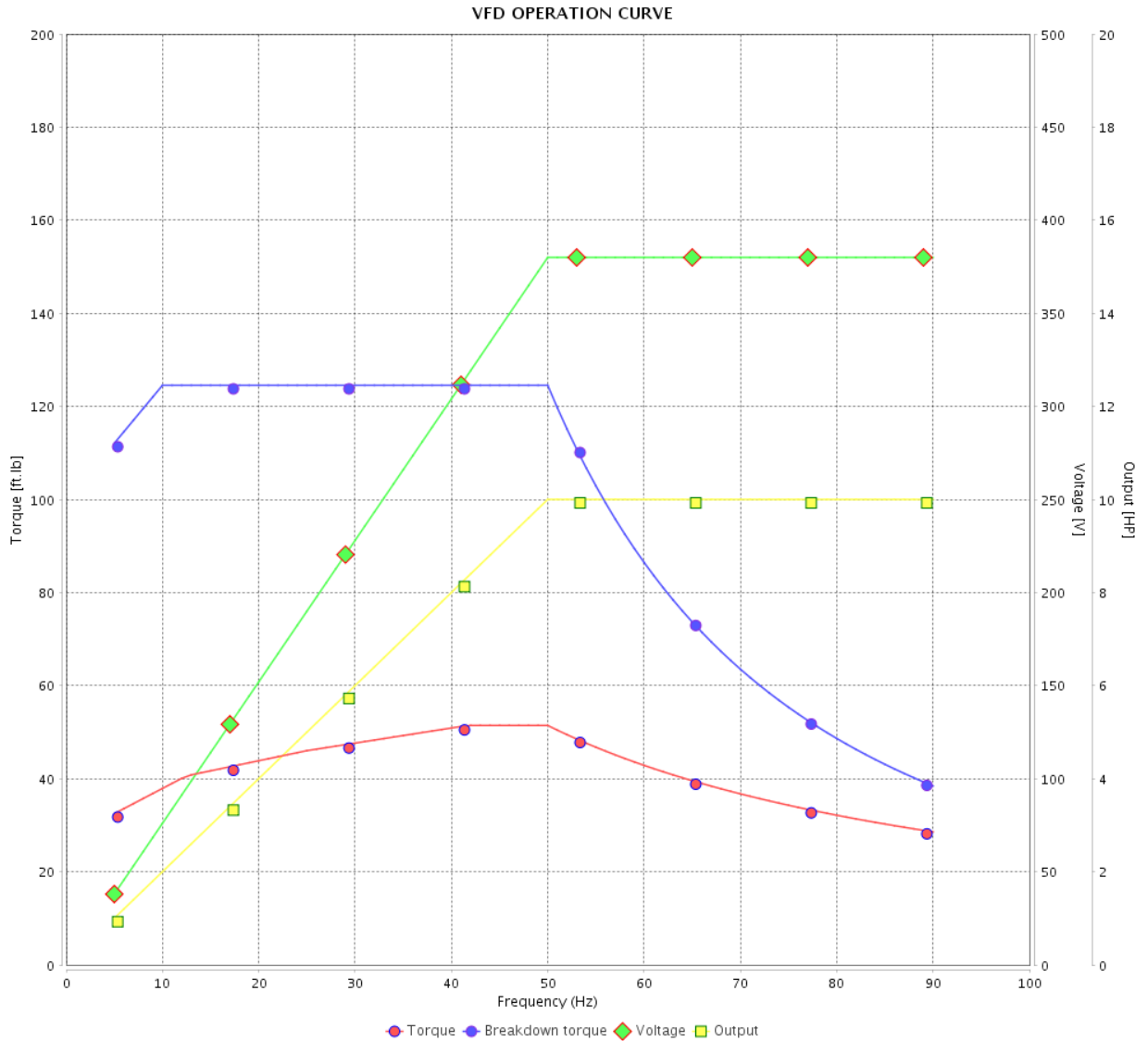


Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.0 A
 LRC : 5.9
 Rated torque : 54.1 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 970 rpm

Moment of inertia (J) : 3.53 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



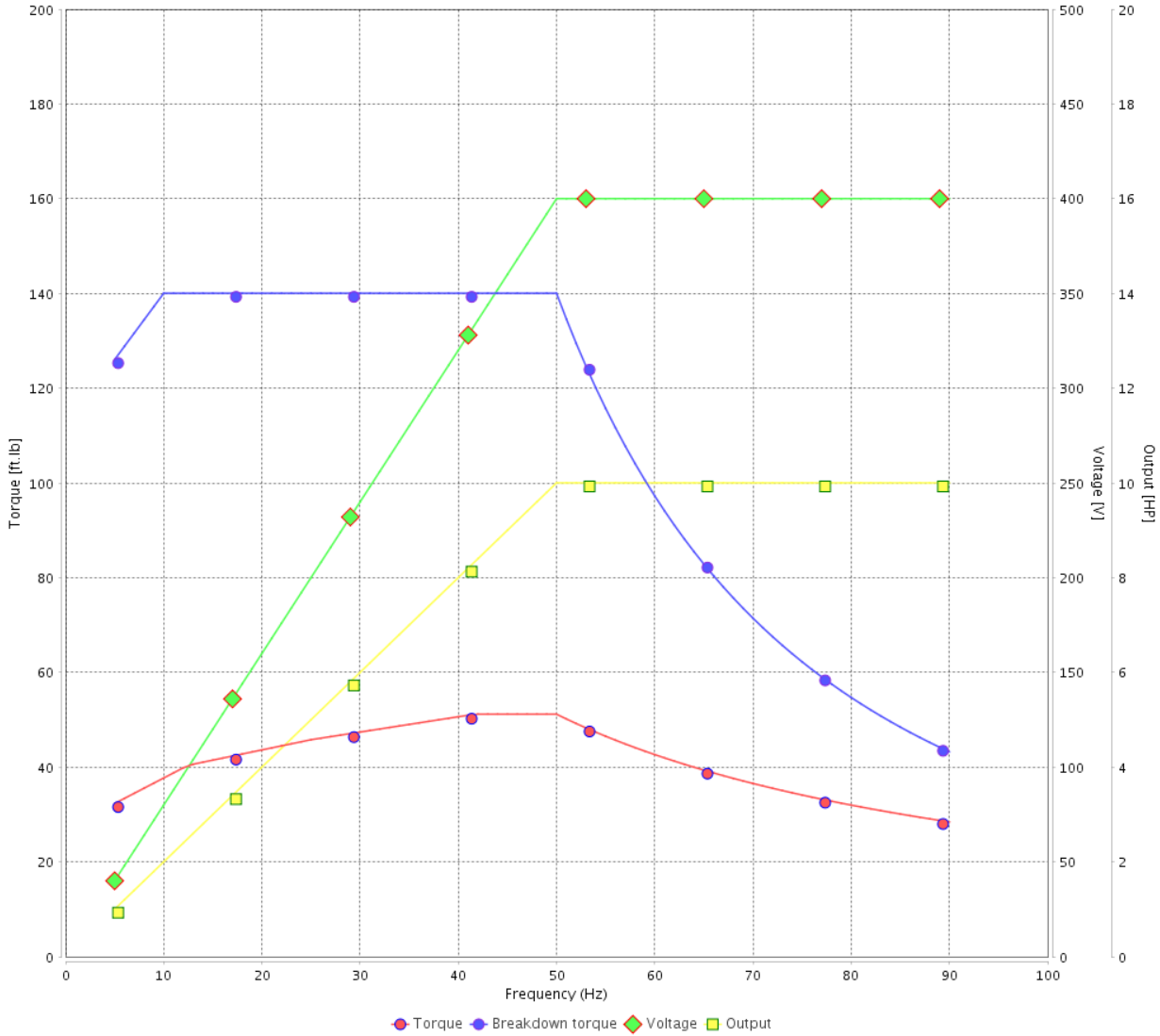
Customer :

Product line : W40 JP Pump NEMA Premium Efficiency Three-Phase

Product code : 14484977

Catalog # : 01012OT3E256JP-W40

VFD OPERATION CURVE



Performance : 400 V 50 Hz 6P IE3

Rated current : 14.6 A
 LRC : 6.4
 Rated torque : 53.9 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 260 %
 Rated speed : 975 rpm

Moment of inertia (J) : 3.53 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

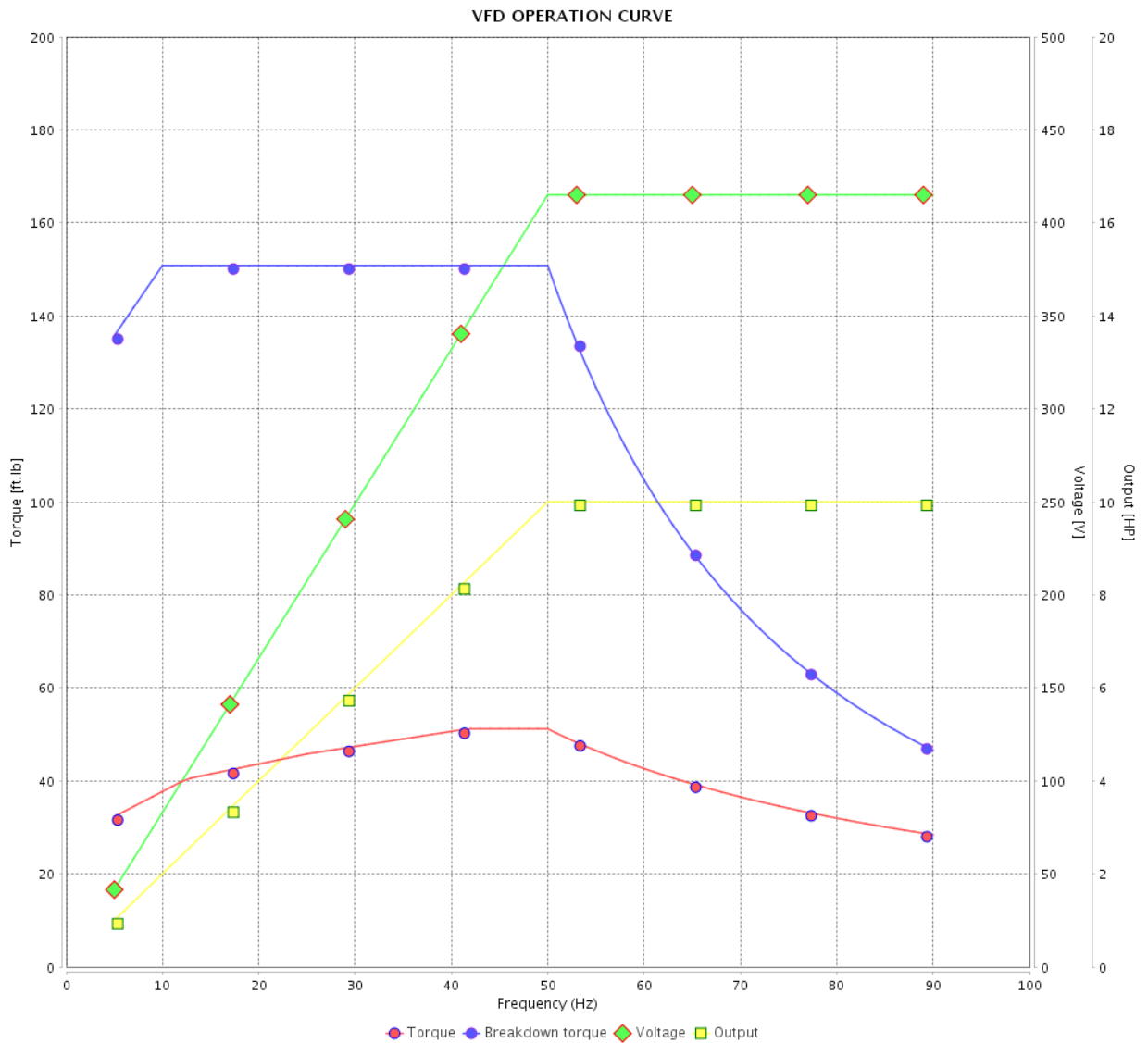


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Catalog # : 01012OT3E256JP-W40

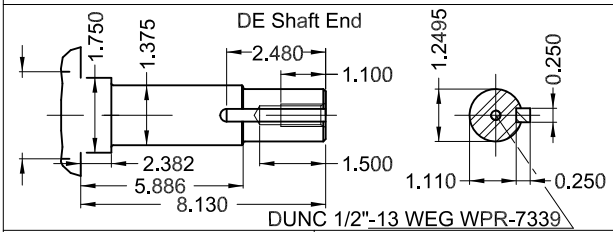
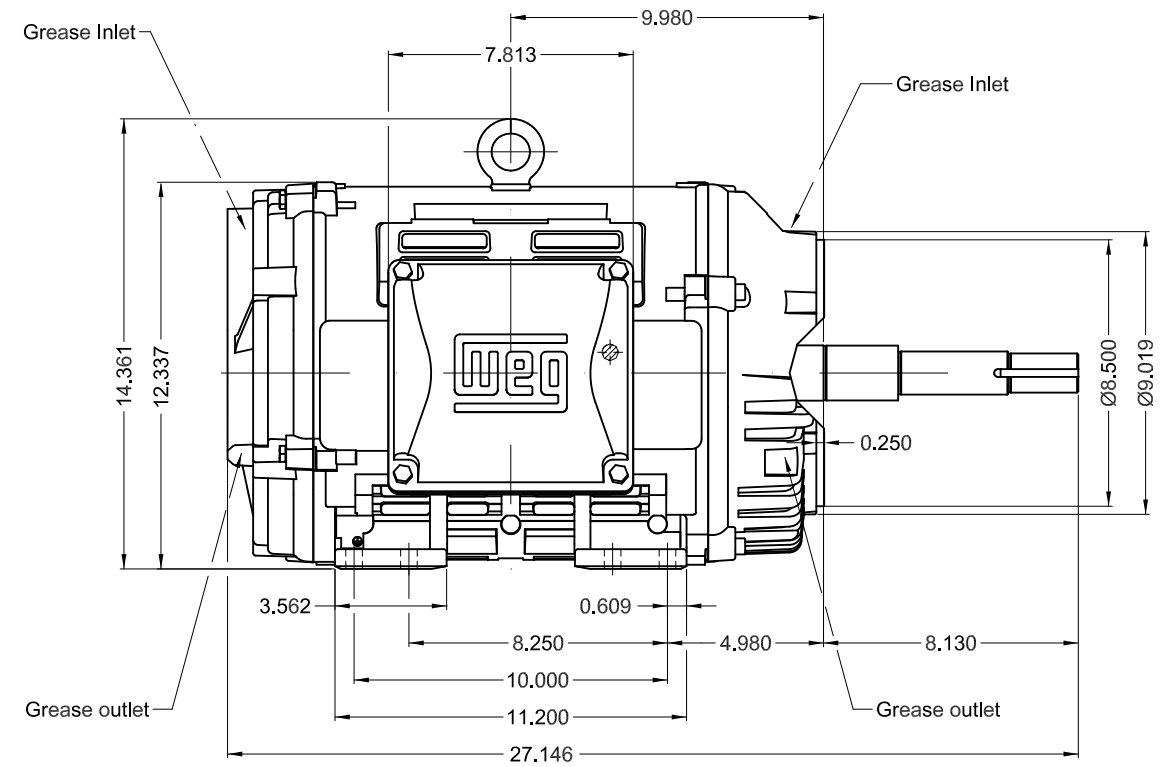
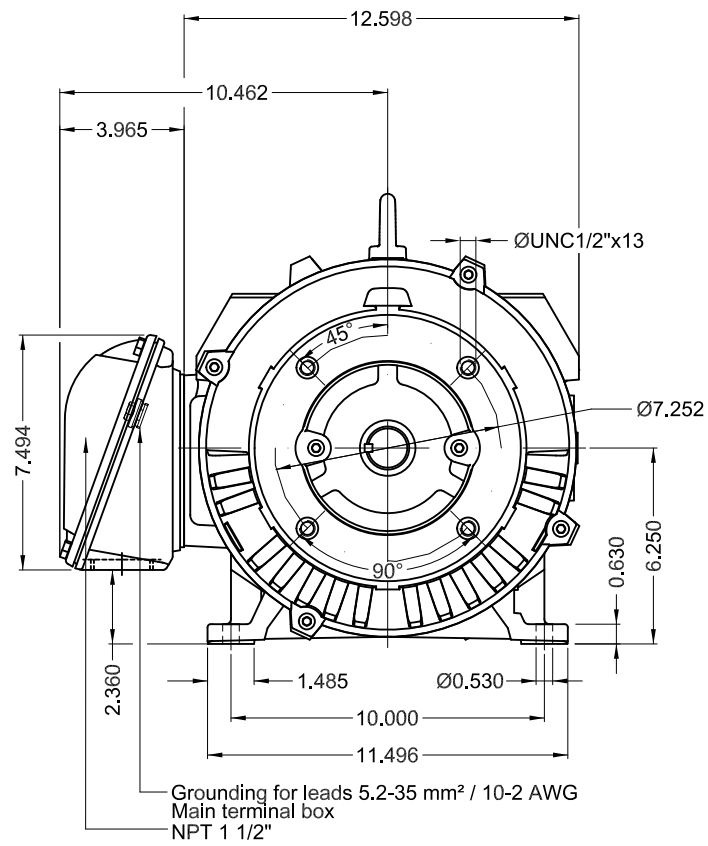


Performance : 415 V 50 Hz 6P IE3

Rated current : 14.3 A
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 Locked rotor torque : 229 %
 Breakdown torque : 280 %
 Rated speed : 975 rpm

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 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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10 HP 06 Poles 60 Hz

A

1:6

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	PIRWBUSER	THREE PH. MOTOR W40 CLOSE COUPLED PUMP JP TYPE PREM. FT.					
CHECKED		FRAME 254/6JP IP23 ODP					
RELEASED							
REL DT.	WMO	Jaragua do Sul	Product Engineering	WDD	SHEET	1 / 1	

Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B34R(D)

PREVIEW
WDD



WEG **W40 NEMA**
CC029A Premium
Inverter Duty Motor



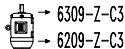
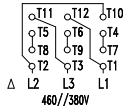
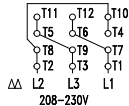
IEC 60034-1
 MOD.T01#FOXON



For 60Hz use on PWM, VT 1000:1, CT 3:1, 1.0SF

MODEL 010120T3E256JP-W40
 MADE IN BRAZIL
 14484977

PH 3	FR 254/6JP	HP(kW) 10.0(7.5)	Hz 60
V 230/460	A 25.6/12.8	RPM 1180	DES B
NEMA NOM EFF 91.7 %	INS. CL. F ΔT 80 K	IP23	
ENCL ODP	DUTY CONT.	AMB. 40°C	
CODE H	PF 0.80	SF 1.25	SFA 32.0/16.0
USABLE @208V	28.3 A	SF 1.15	SFA 32.5
10HP 7.5kW 50Hz 380V 15.0A 970RPM SF1.00 EFF 89.1% (IE3)			



MOBIL POLYREX EM
 13 g 20000 h

ALT 1000 m.a.s.l. 276 Lbs