

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :		
Product line : NEMA Premium Efficiency Three-Phase	Product code : 11441523 Catalog # : 02509ET3E326T-W22	
Frame : 324/6T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B	Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 555 lb Moment of inertia (J) : 11.9 sq.ft.lb	
Output [HP]	25 20 20 20 25 25 25	
Poles	8 8 8 8 8 8 8	
Frequency [Hz]	60 50 50 50 50 50 50	
Rated voltage [V]	230/460 380 400 415 380 400 415	
Rated current [A]	71.8/35.9 35.3 35.6 36.4 42.3 41.4 41.1	
L. R. Amperes [A]	373/187 177 192 200 178 190 197	
LRC [A]	5.2x(Code G) 5.0x(Code G) 5.4x(Code H) 5.5x(Code J) 4.2x(Code E) 4.6x(Code F) 4.8x(Code G)	
No load current [A]	40.0/20.0 19.6 22.2 24.6 19.6 22.2 24.6	
Rated speed [RPM]	880 730 730 735 725 725 730	
Slip [%]	2.22 2.67 2.67 2.00 3.33 3.33 2.67	
Rated torque [ft.lb]	149 144 144 143 181 181 180	
Locked rotor torque [%]	200 190 210 240 150 170 190	
Breakdown torque [%]	229 229 250 280 180 200 220	
Service factor	1.25 1.15 1.15 1.15 1.15 1.15 1.15	
Temperature rise	80 K 80 K 80 K 80 K 105 K 80 K 80 K	
Locked rotor time	41s (cold) 30s (cold) 30s (cold) 30s (cold) 30s (cold) 30s (cold) 30s (cold) 23s (hot) 17s (hot) 17s (hot) 17s (hot) 17s (hot) 17s (hot) 17s (hot)	
Noise level ²	56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A)	
Efficiency (%)	25%	
	50%	89.5 89.3 87.2 86.2 89.5 88.5 87.5
	75%	91.0 90.1 89.1 88.6 90.2 89.5 89.5
	100%	91.0 89.6 89.6 89.6 88.5 89.5 89.5
Power Factor	25%	
	50%	0.51 0.51 0.46 0.42 0.58 0.53 0.49
	75%	0.64 0.64 0.59 0.55 0.70 0.66 0.62
	100%	0.71 0.71 0.67 0.64 0.75 0.72 0.70
Bearing type	Drive end : 6312 C3 Non drive end : 6212 C3	
Sealing	V'Ring V'Ring	
Lubrication interval	20000 h 20000 h	
Lubricant amount	21 g 13 g	
Lubricant type	Mobil Polyrex EM	
Foundation loads	Max. traction : 1241 lb Max. compression : 1796 lb	
Notes USABLE @208V 79.4A SF 1.15 SFA 91.3A		
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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Checked by	Checked	
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26/10/2022		
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

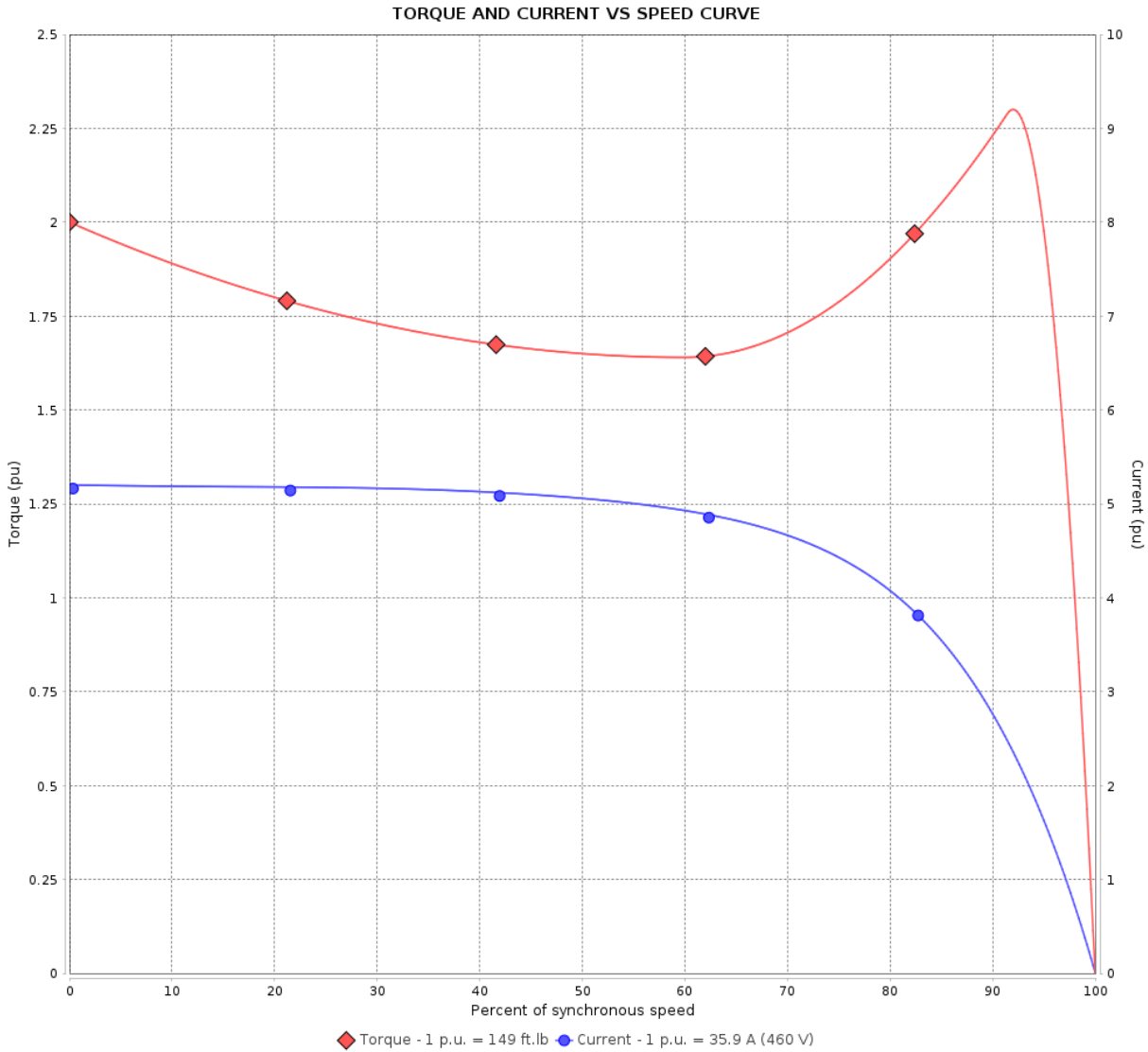
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 230/460 V 60 Hz 8P

Rated current	: 71.8/35.9 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 149 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 880 rpm	Design	: B

Locked rotor time : 41s (cold) 23s (hot)

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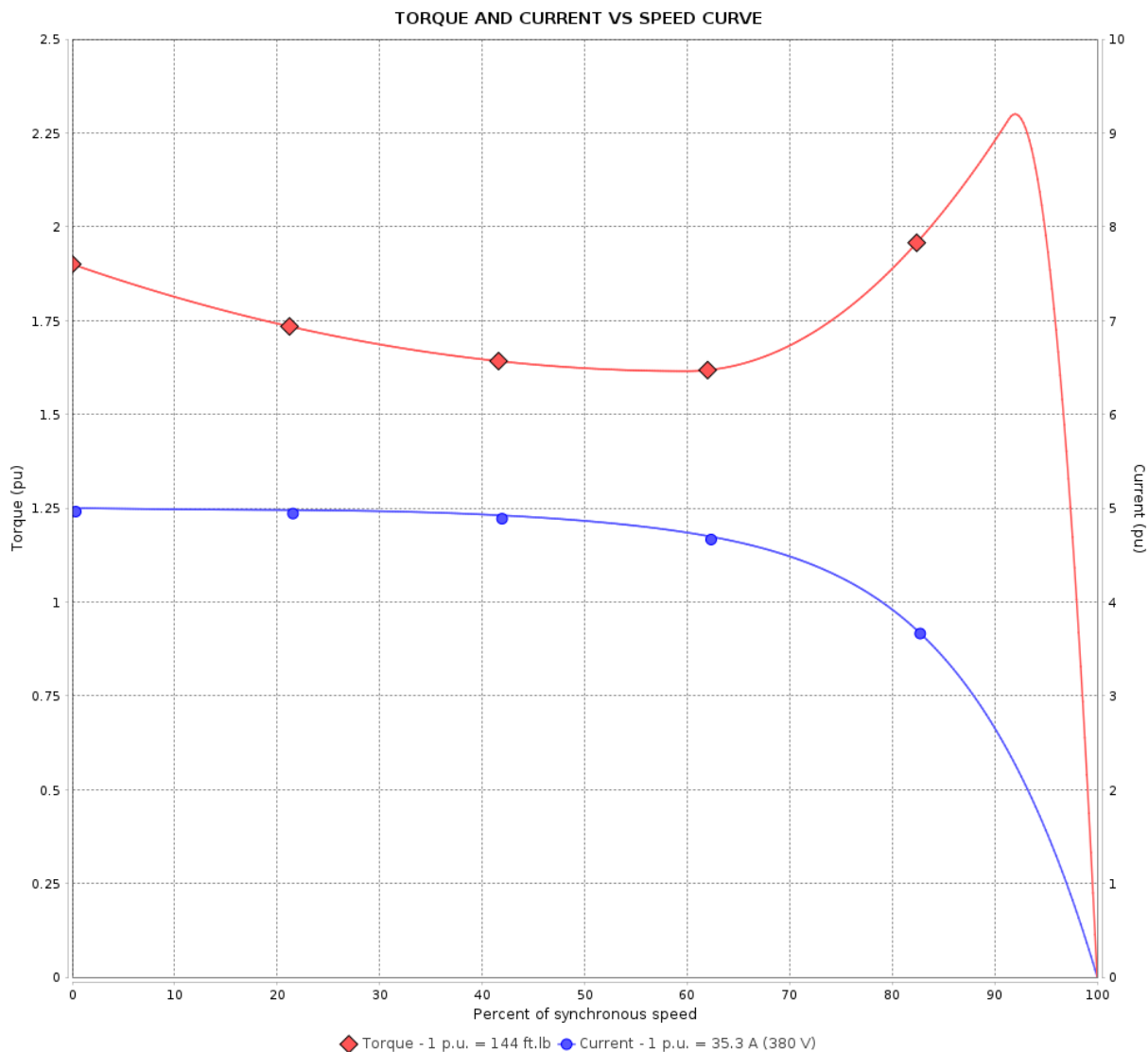
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current	: 35.3 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 144 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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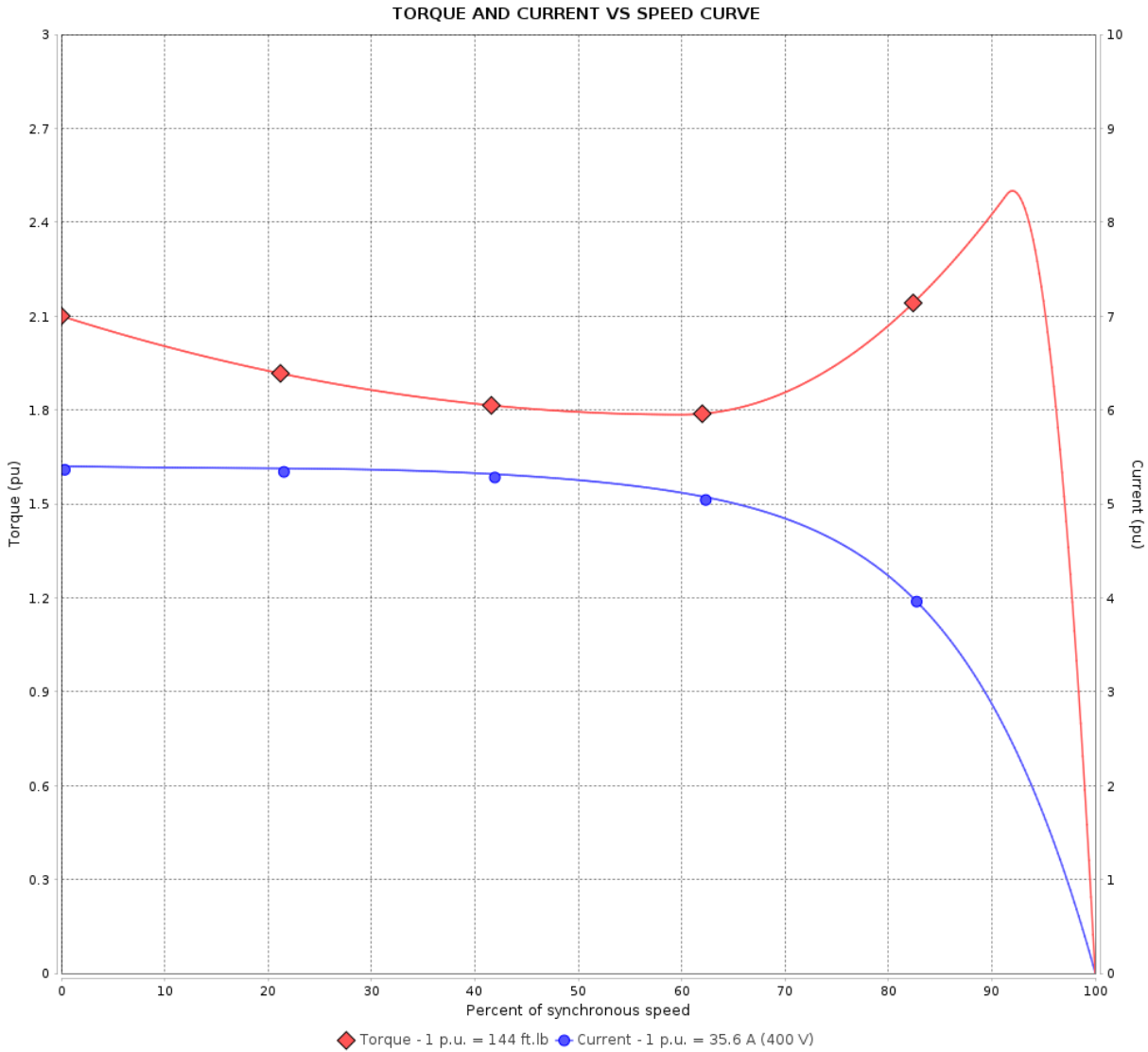
Product line : NEMA Premium Efficiency Three-Phase

Product code :

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Catalog # :

02509ET3E326T-W22



Performance : 400 V 50 Hz 8P IE3

Rated current	: 35.6 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 144 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 730 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

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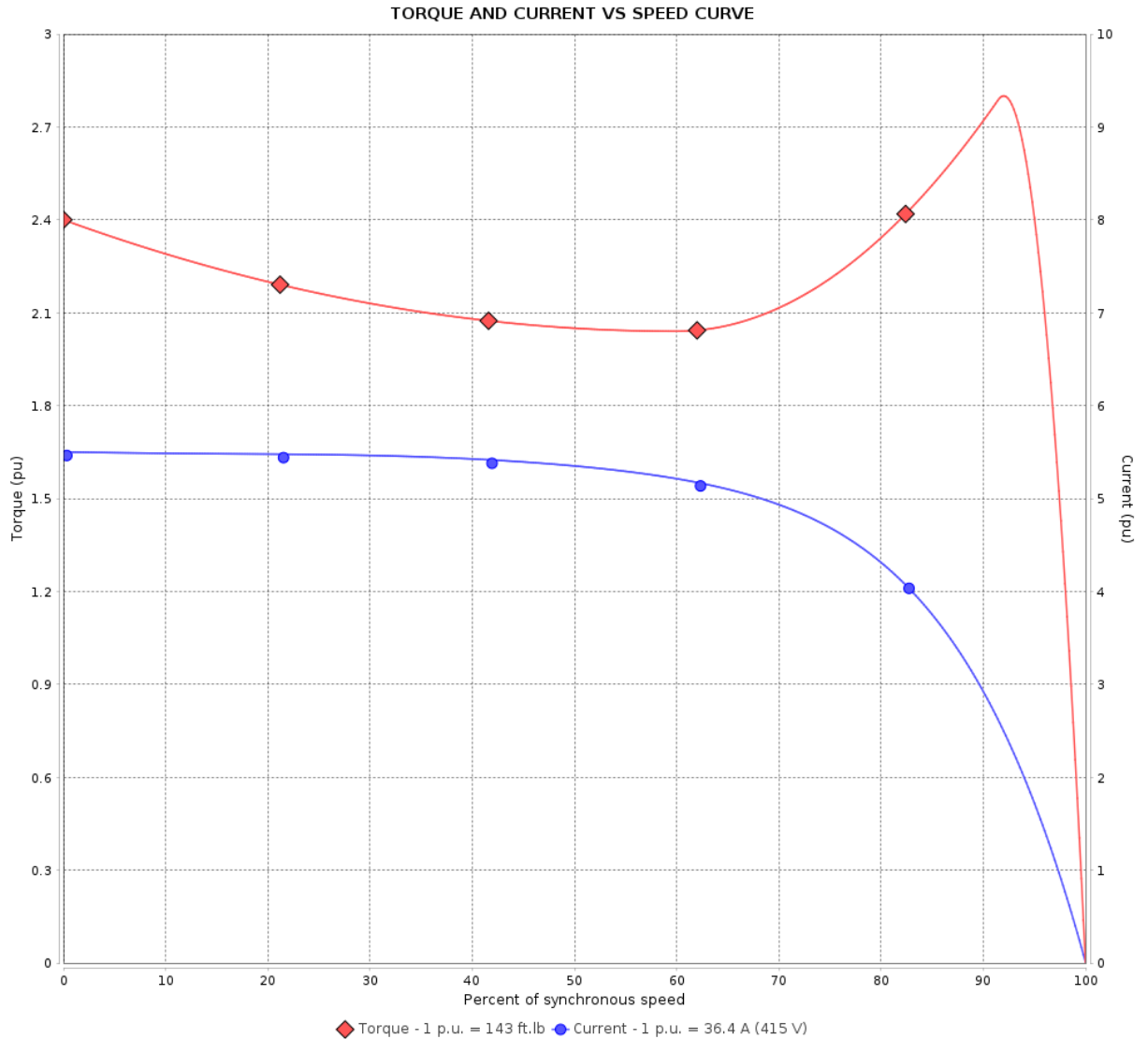
Product line : NEMA Premium Efficiency Three-Phase

Product code :

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Catalog # :

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Performance : 415 V 50 Hz 8P IE3

Rated current	: 36.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 143 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 735 rpm	Design	: B

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

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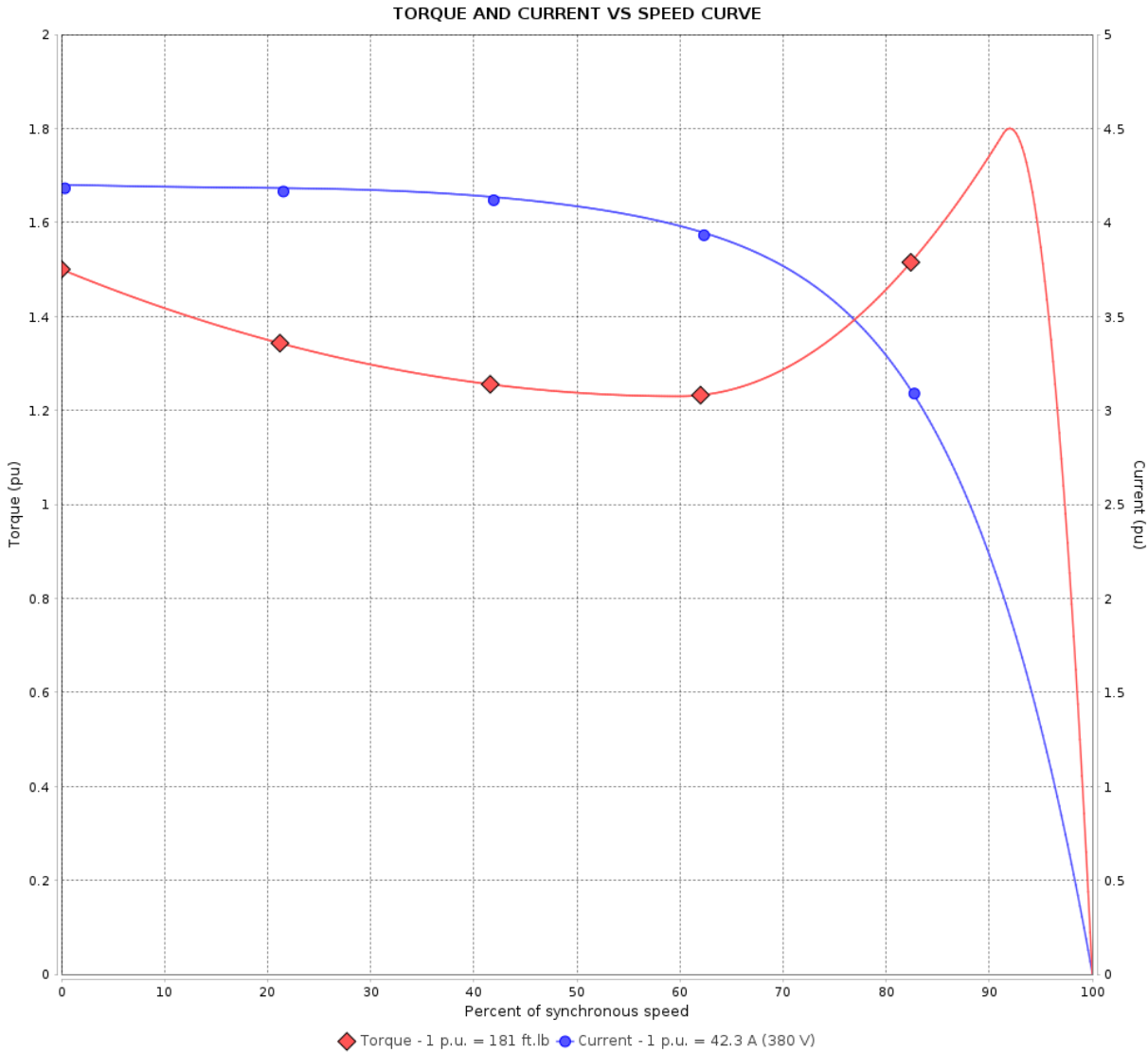
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE1

Rated current	: 42.3 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 4.2	Duty cycle	: Cont.(S1)
Rated torque	: 181 ft.lb	Insulation class	: F
Locked rotor torque	: 150 %	Service factor	: 1.15
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 725 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE



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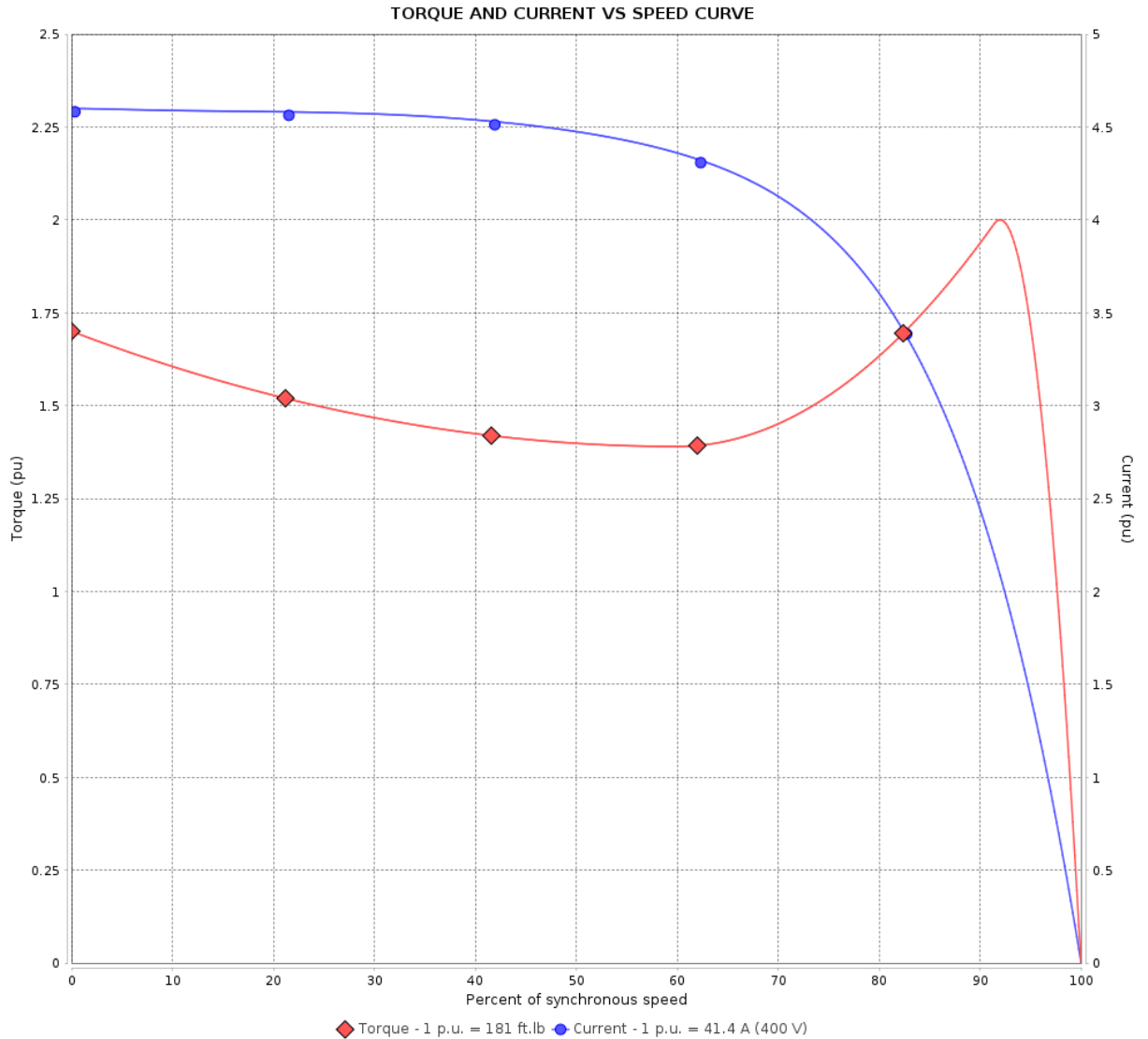
Product line : NEMA Premium Efficiency Three-Phase

Product code :

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Catalog # :

02509ET3E326T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current	: 41.4 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 4.6	Duty cycle	: Cont.(S1)
Rated torque	: 181 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.15
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 725 rpm	Design	: B

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

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TORQUE AND CURRENT VS SPEED CURVE

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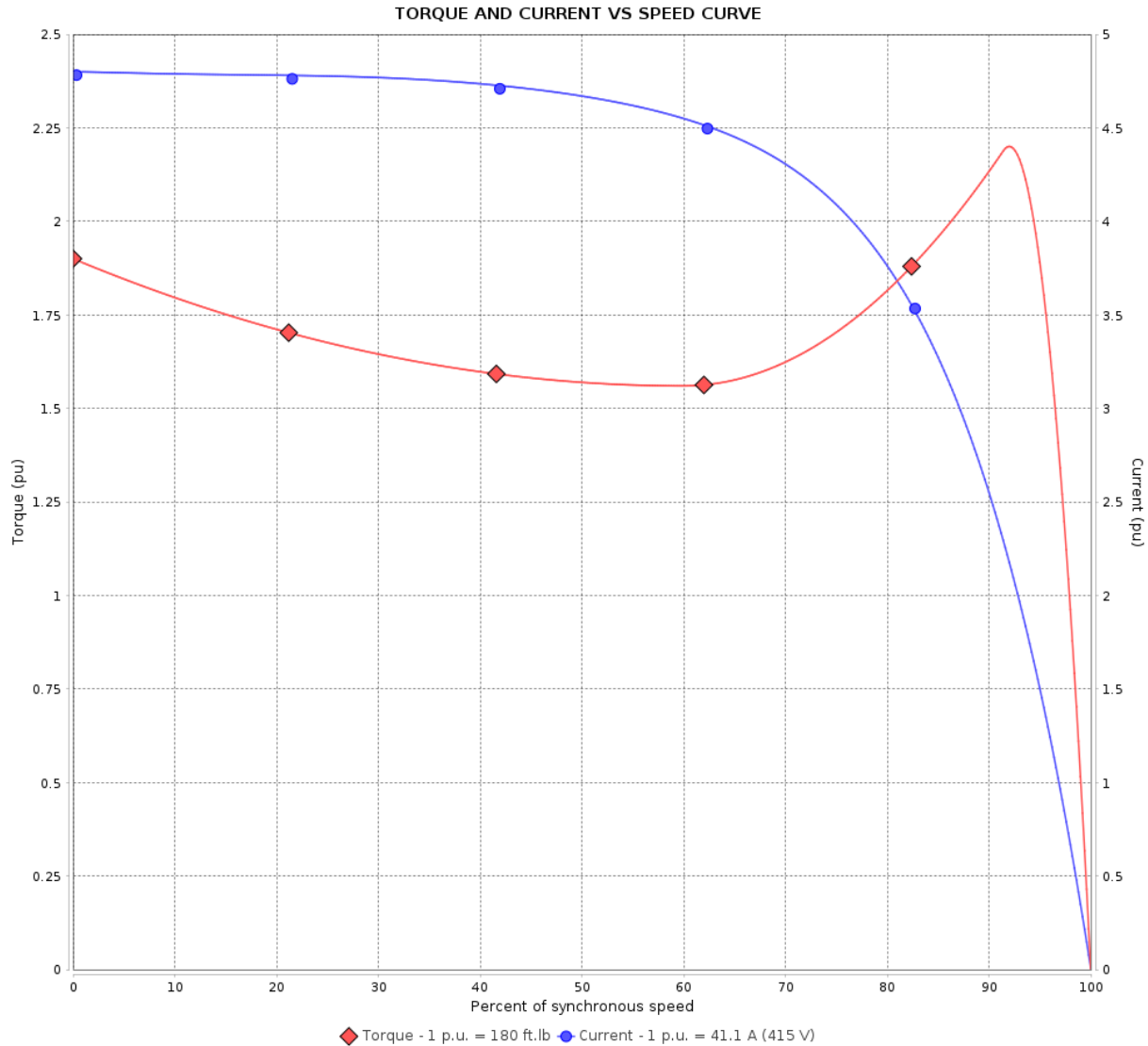
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 415 V 50 Hz 8P IE2

Rated current	: 41.1 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 4.8	Duty cycle	: Cont.(S1)
Rated torque	: 180 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 730 rpm	Design	: B

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

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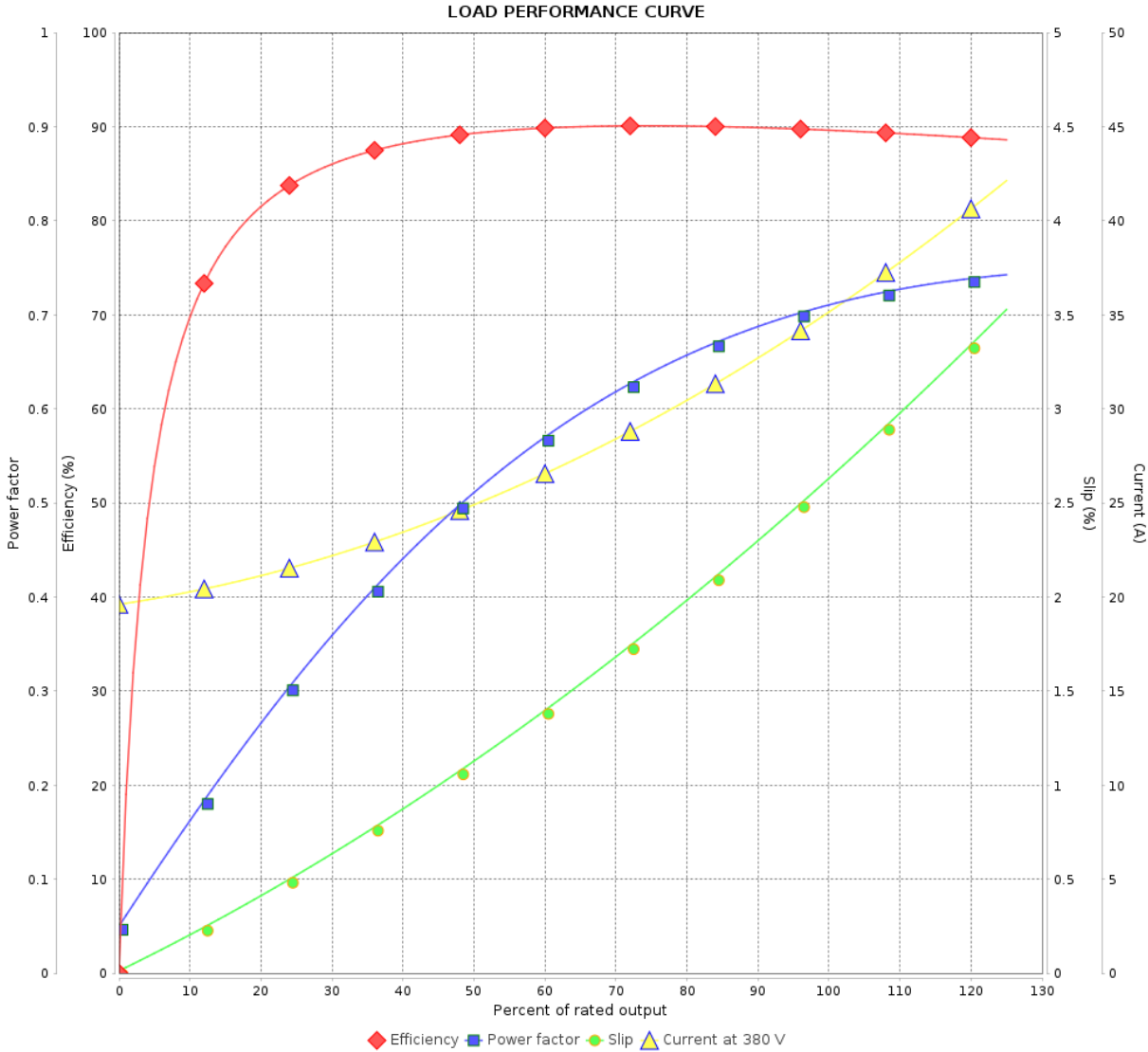
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Catalog # :

02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 35.3 A
 LRC : 5.0
 Rated torque : 144 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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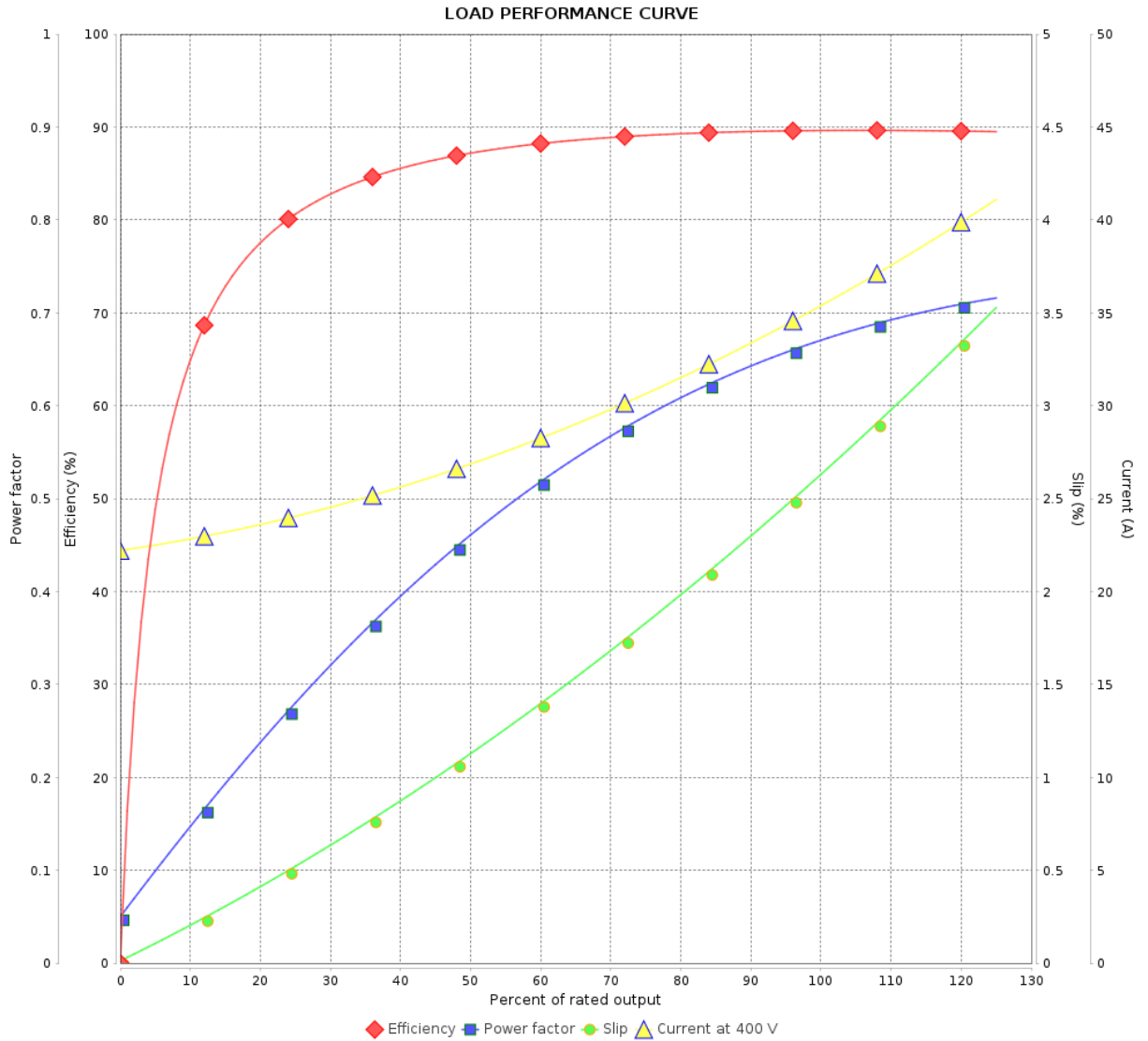
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Catalog # :

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Performance : 400 V 50 Hz 8P IE3

Rated current : 35.6 A
 LRC : 5.4
 Rated torque : 144 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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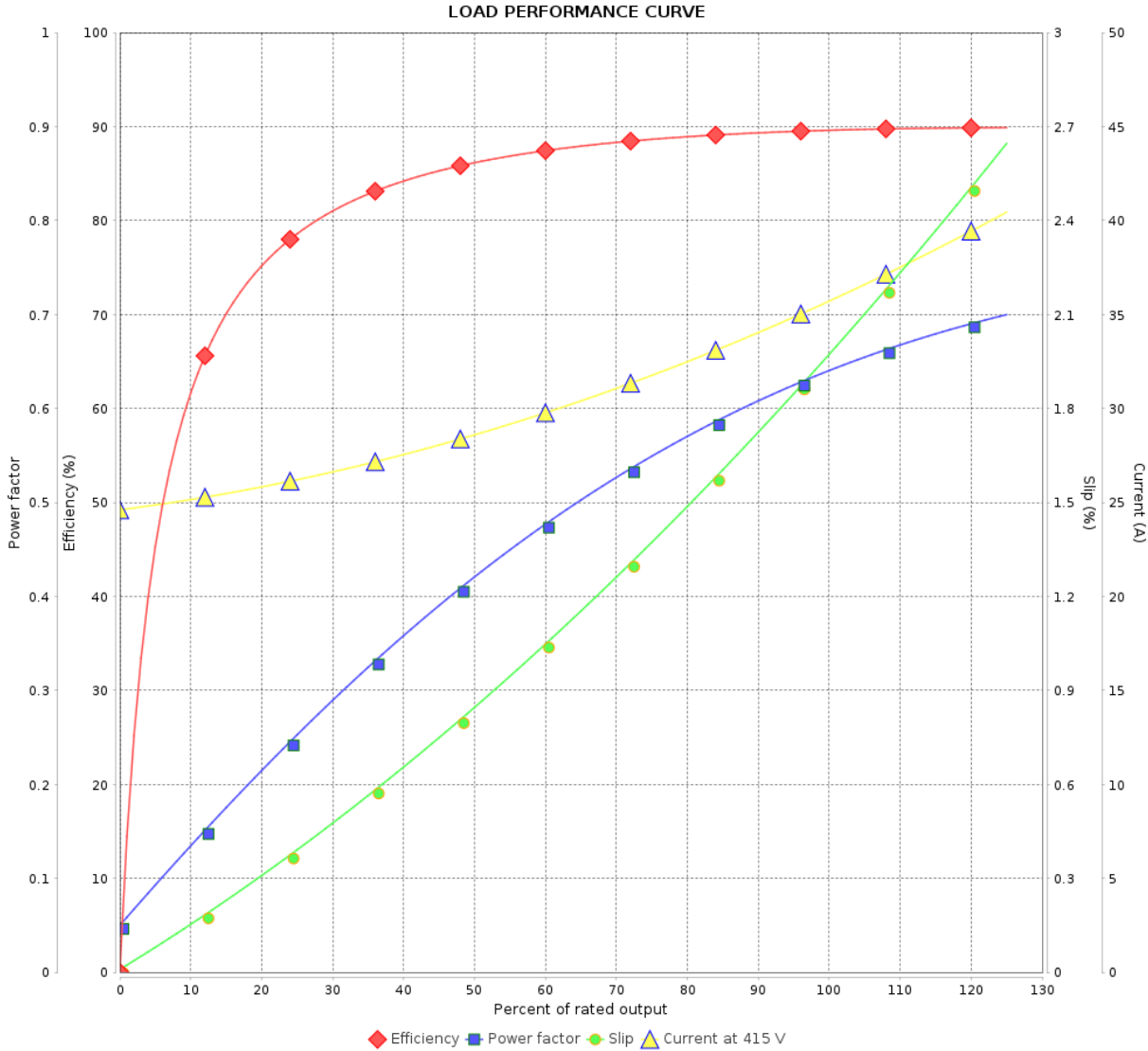
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Performance : 415 V 50 Hz 8P IE3

Rated current : 36.4 A
 LRC : 5.5
 Rated torque : 143 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 735 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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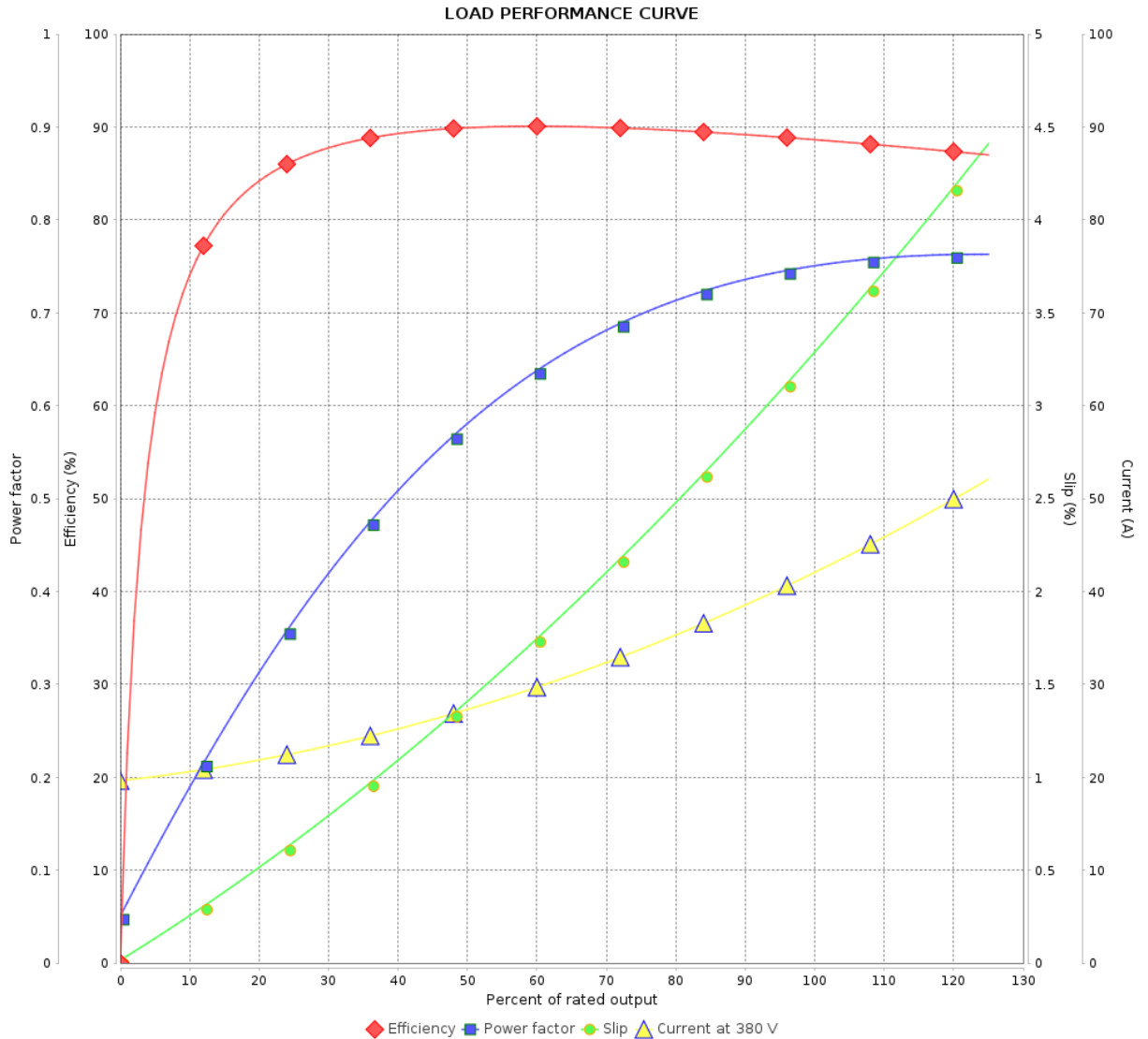
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Catalog # :

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Performance : 380 V 50 Hz 8P IE1

Rated current : 42.3 A
 LRC : 4.2
 Rated torque : 181 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 180 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

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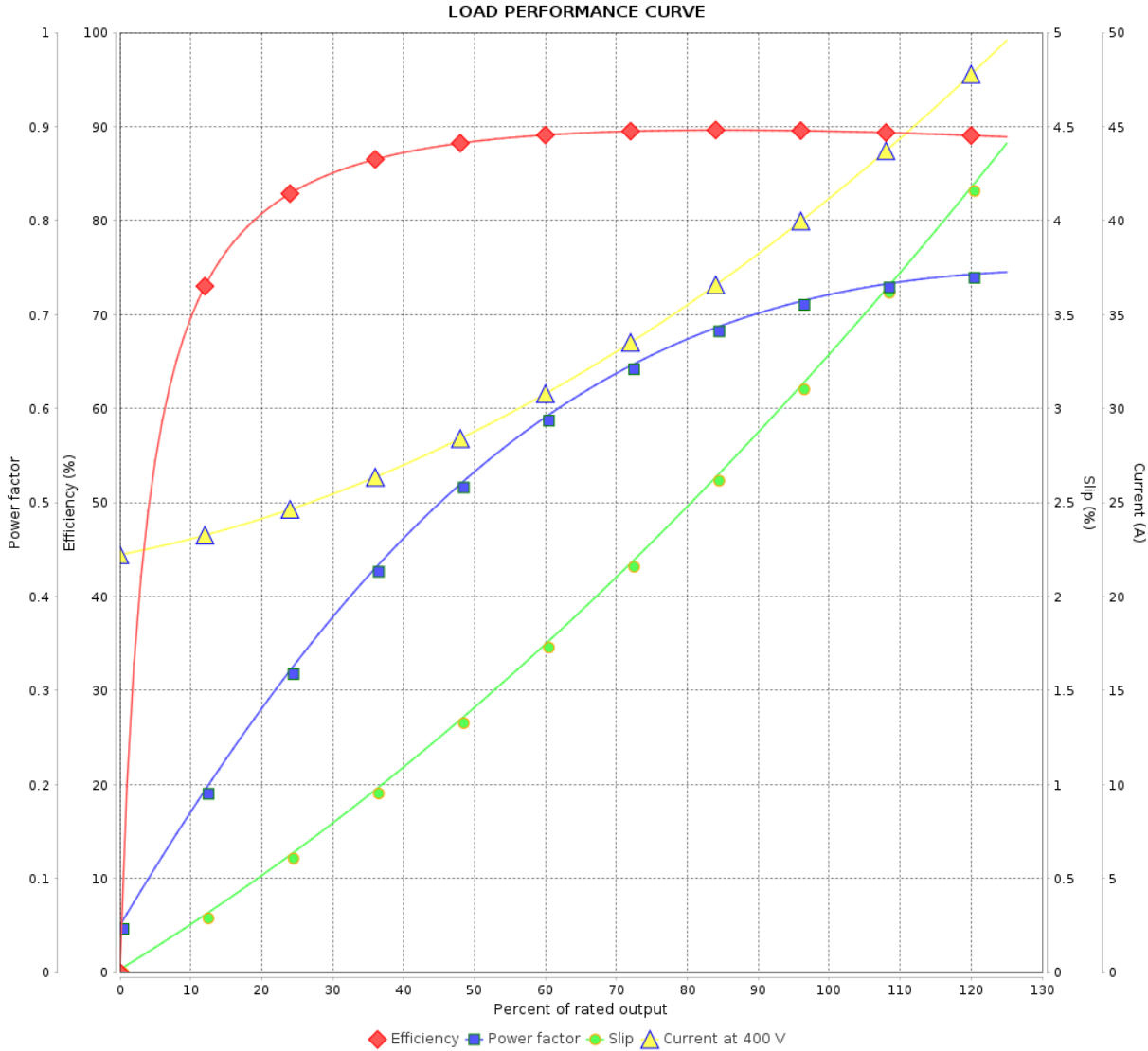
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current : 41.4 A
 LRC : 4.6
 Rated torque : 181 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 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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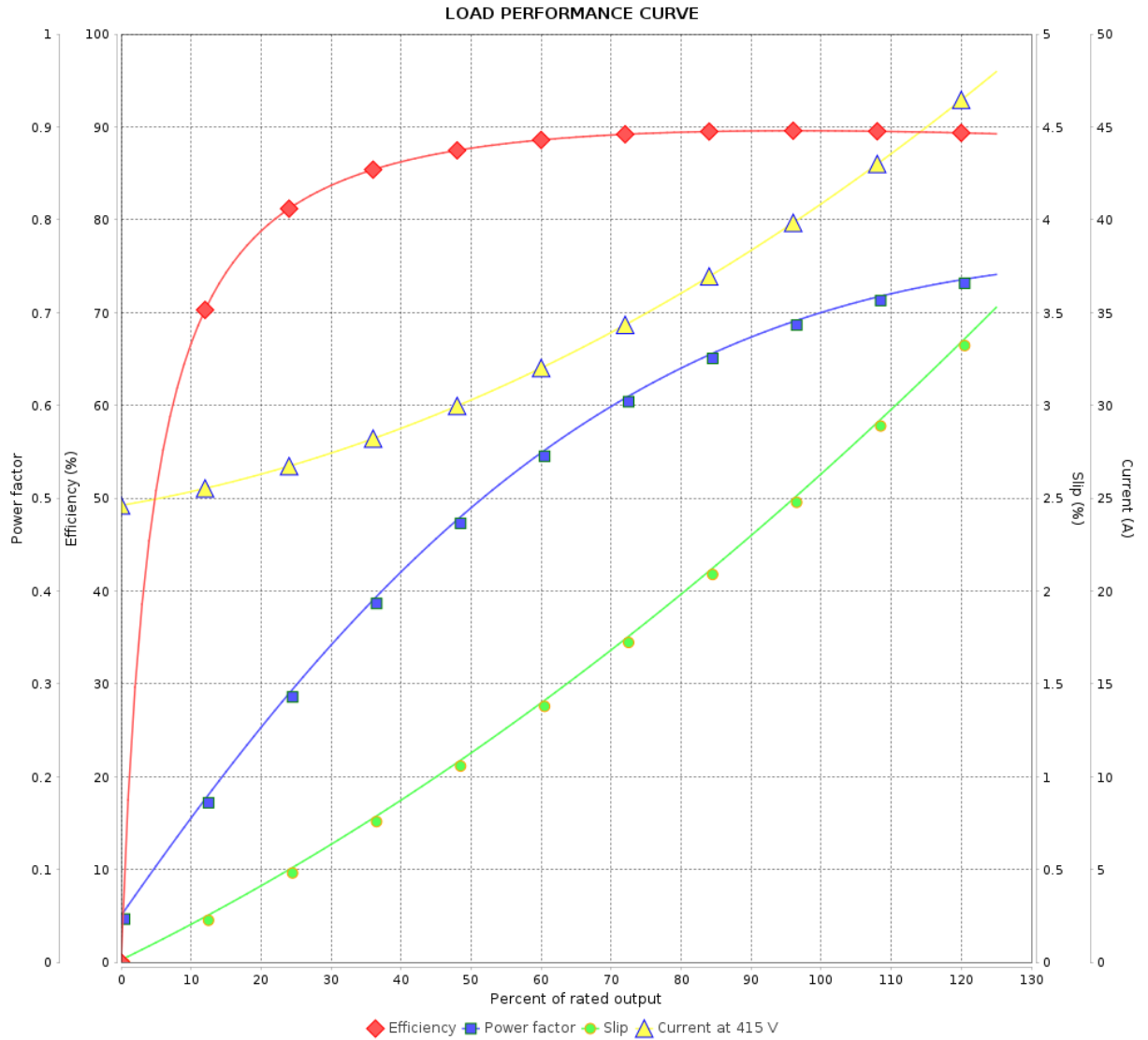
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Performance : 415 V 50 Hz 8P IE2

Rated current : 41.1 A
 LRC : 4.8
 Rated torque : 180 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 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



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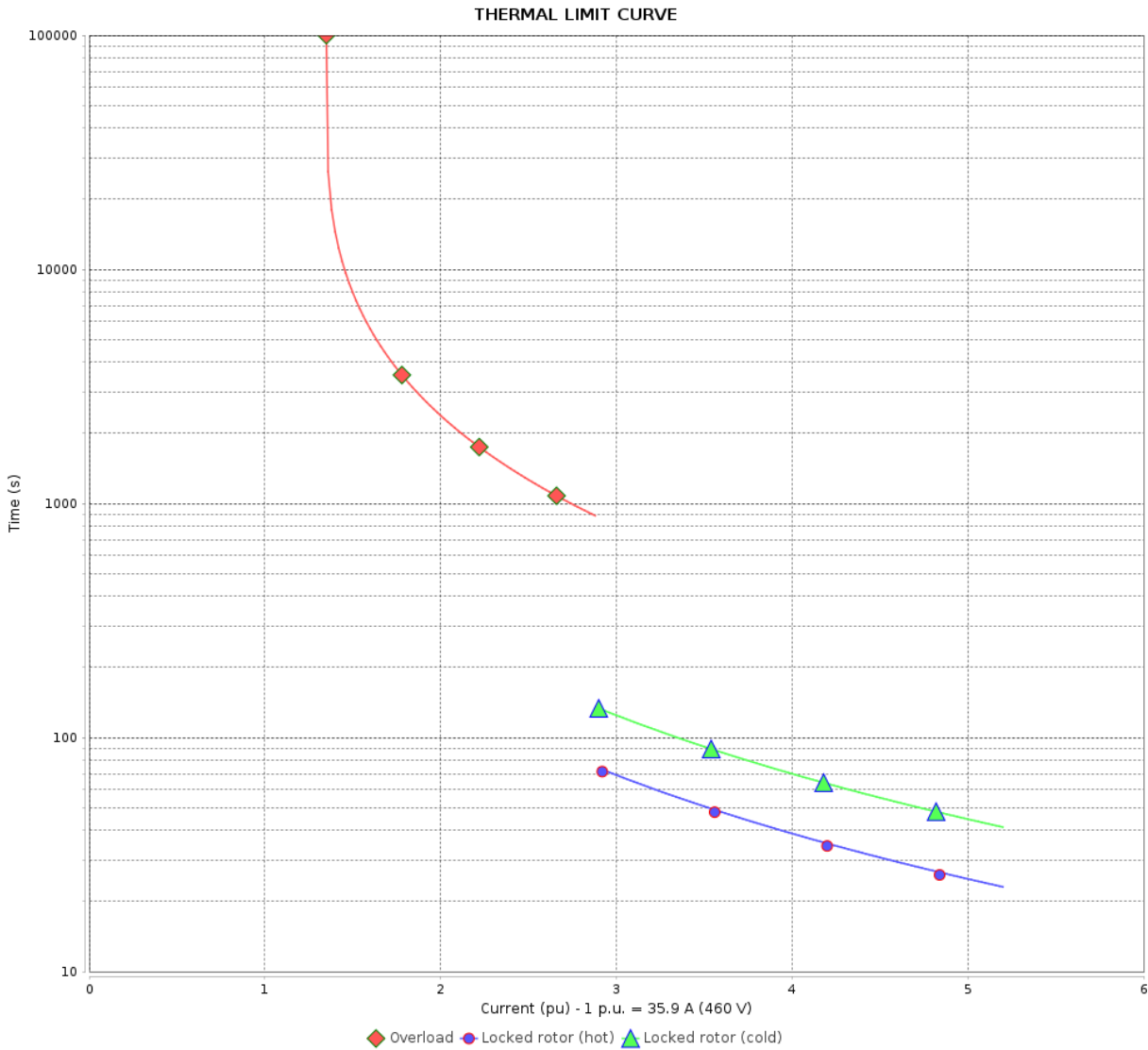
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Catalog # :

02509ET3E326T-W22



Performance : 230/460 V 60 Hz 8P

Rated current : 71.8/35.9 A
 LRC : 5.2
 Rated torque : 149 ft.lb
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 880 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 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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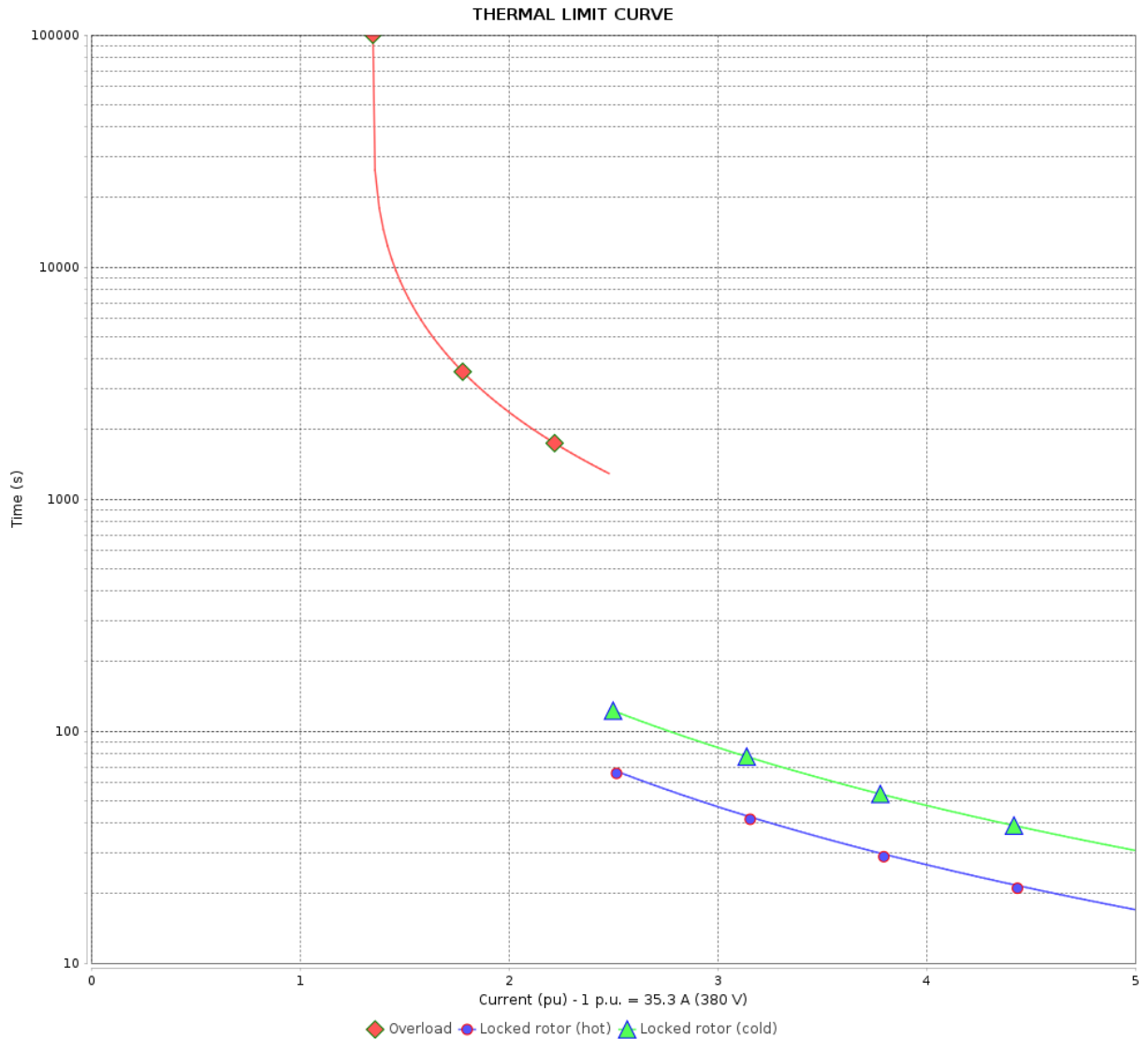
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Performance : 380 V 50 Hz 8P IE3

Rated current : 35.3 A
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 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 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

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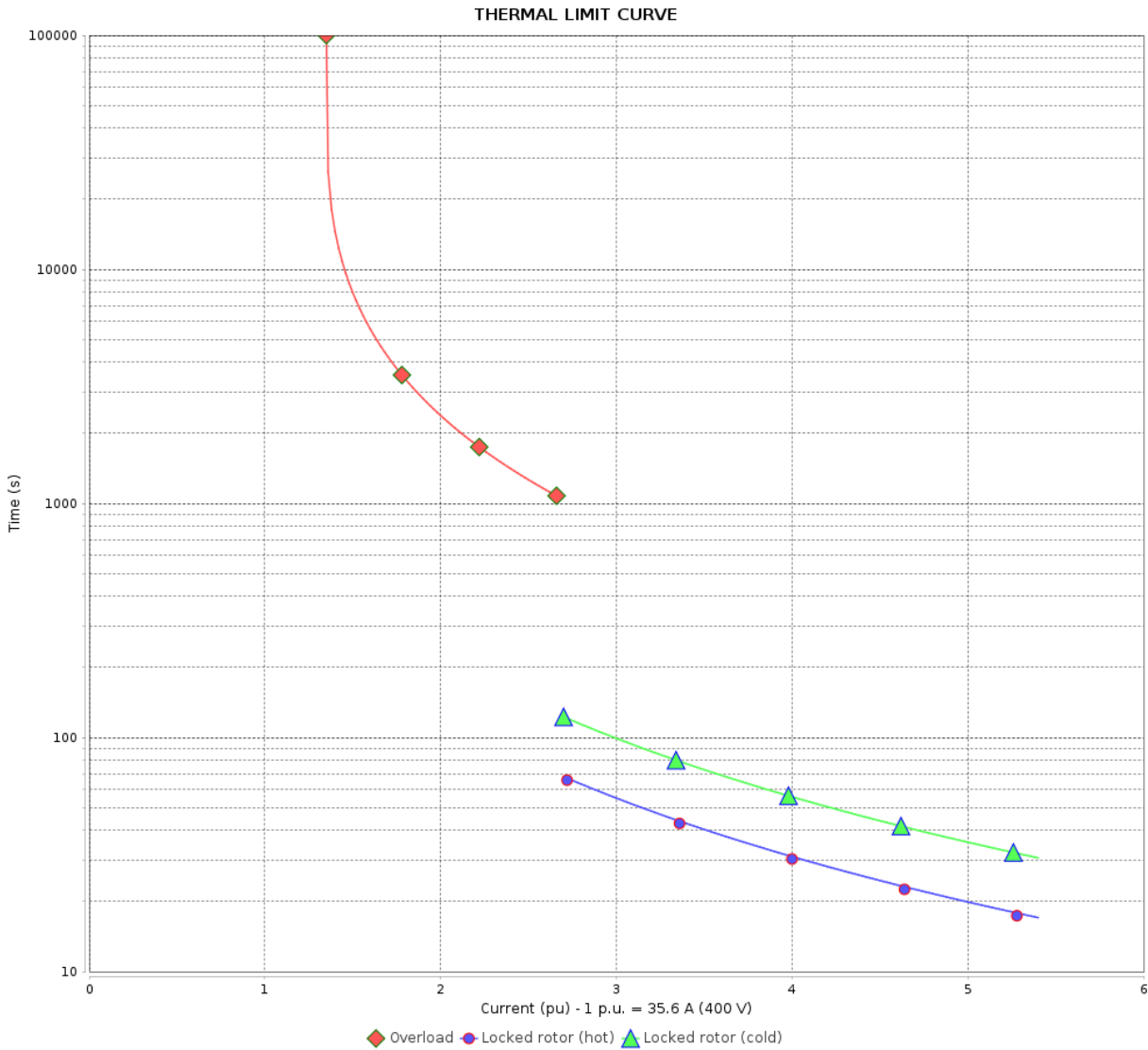
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Performance : 400 V 50 Hz 8P IE3

Rated current : 35.6 A
 LRC : 5.4
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 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
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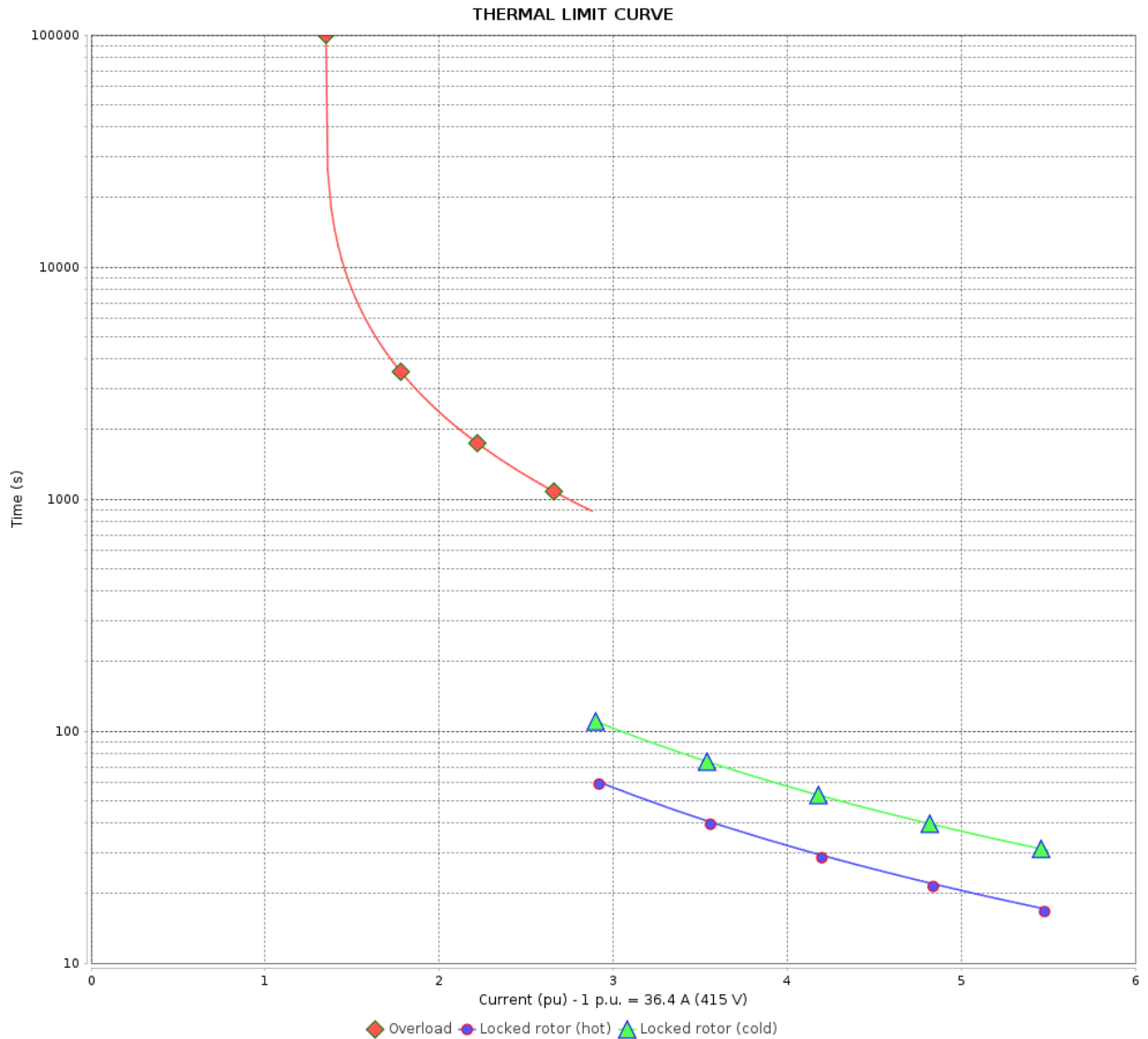
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Performance : 415 V 50 Hz 8P IE3

Rated current : 36.4 A
 LRC : 5.5
 Rated torque : 143 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 735 rpm

Moment of inertia (J) : 11.9 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

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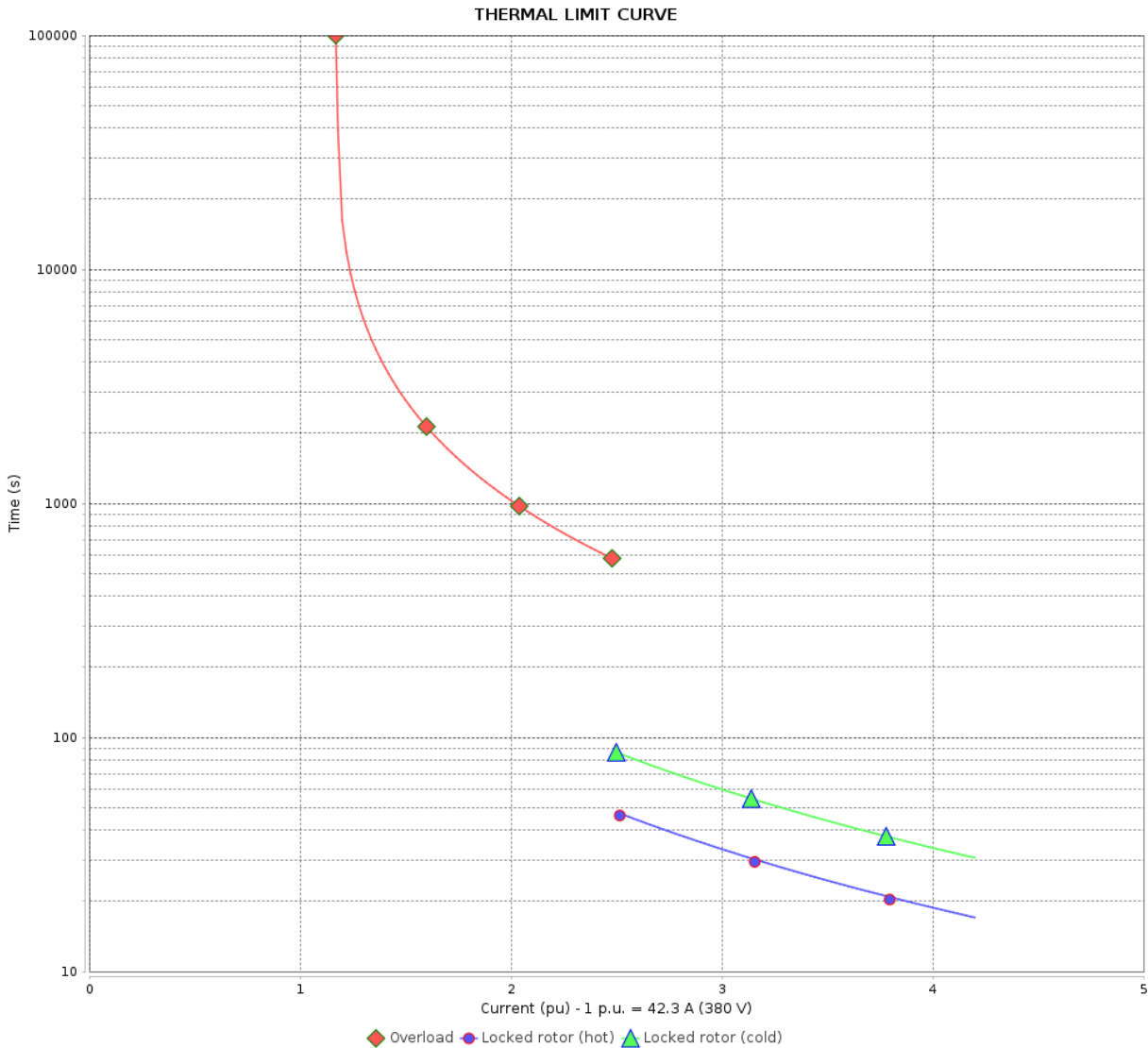
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Performance : 380 V 50 Hz 8P IE1

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 Locked rotor torque : 150 %
 Breakdown torque : 180 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 K
 Design : B

Heating constant

Cooling constant

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THERMAL LIMIT CURVE

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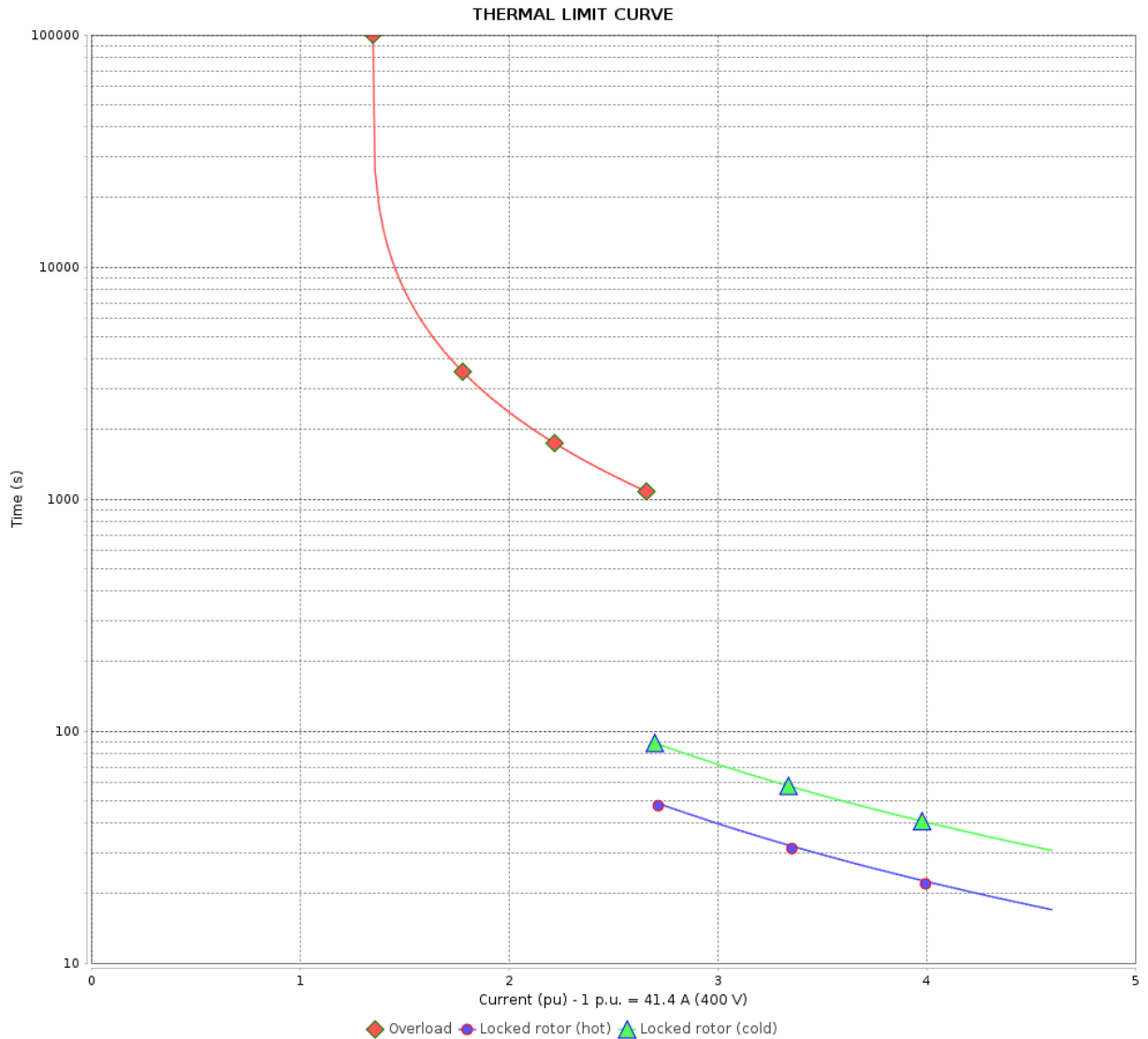
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 Rated torque : 181 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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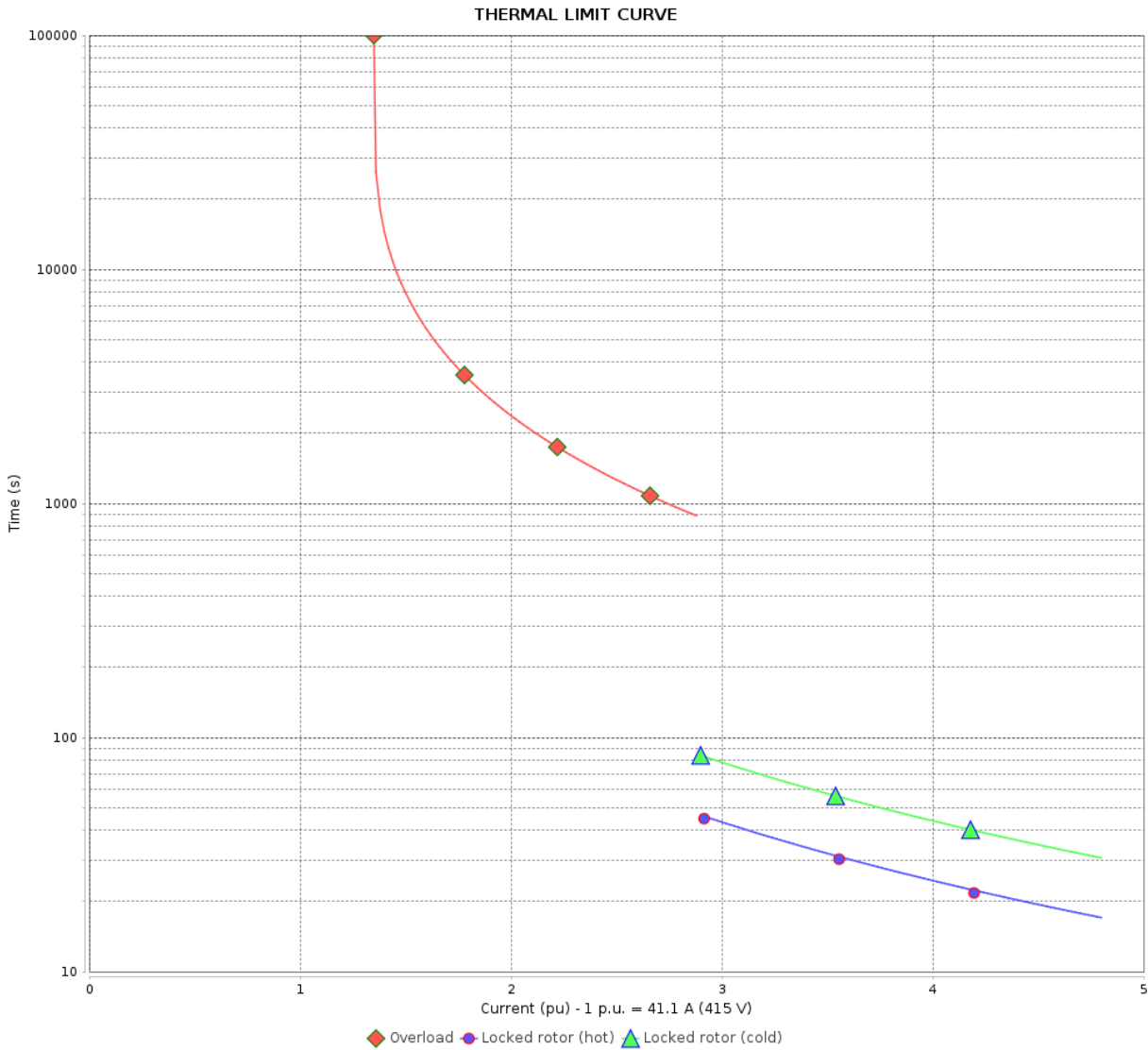
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VFD OPERATION CURVE

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Customer :

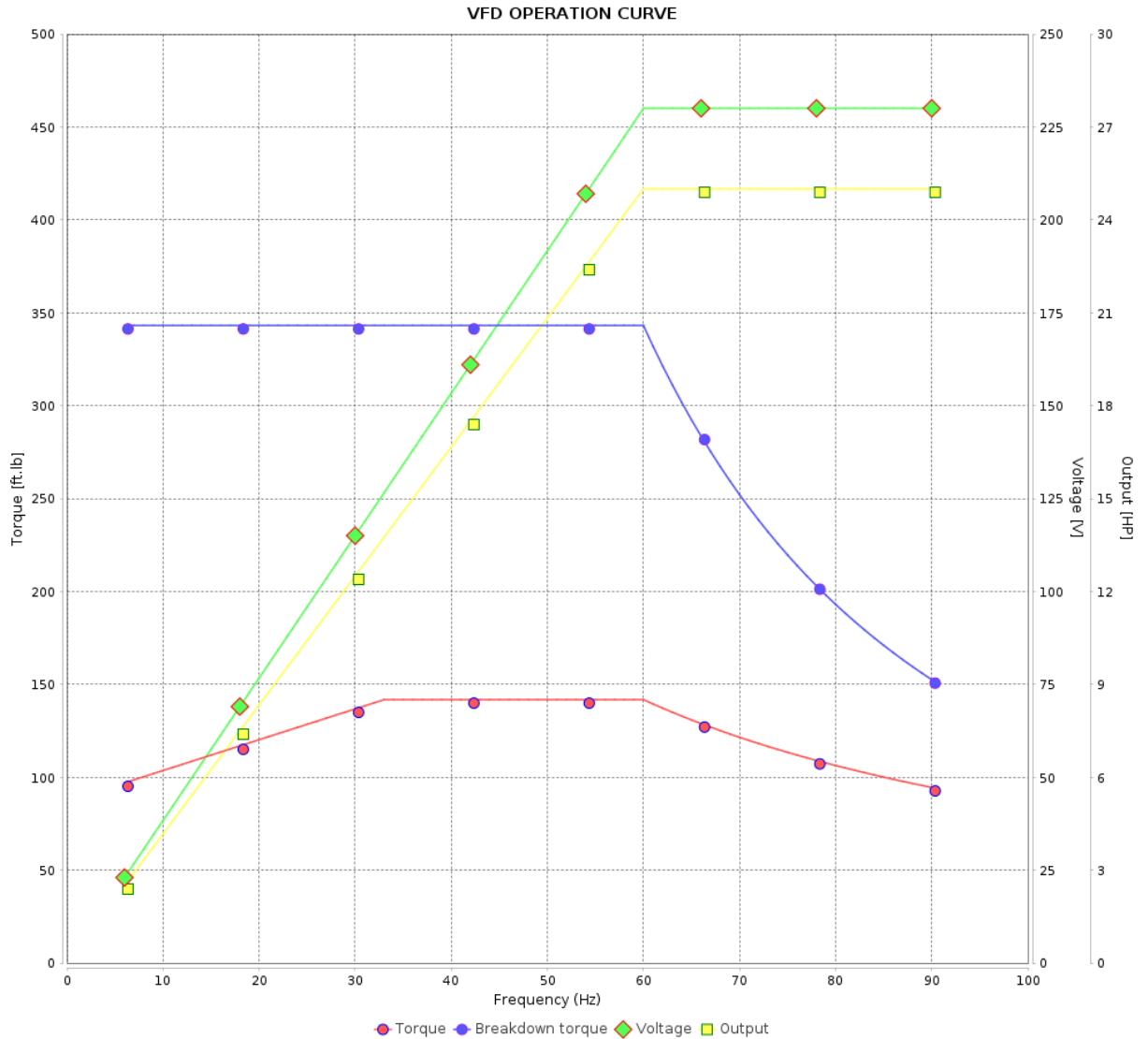
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Rated current : 71.8/35.9 A
 LRC : 5.2
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 Breakdown torque : 229 %
 Rated speed : 880 rpm

Moment of inertia (J) : 11.9 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



Customer : _____

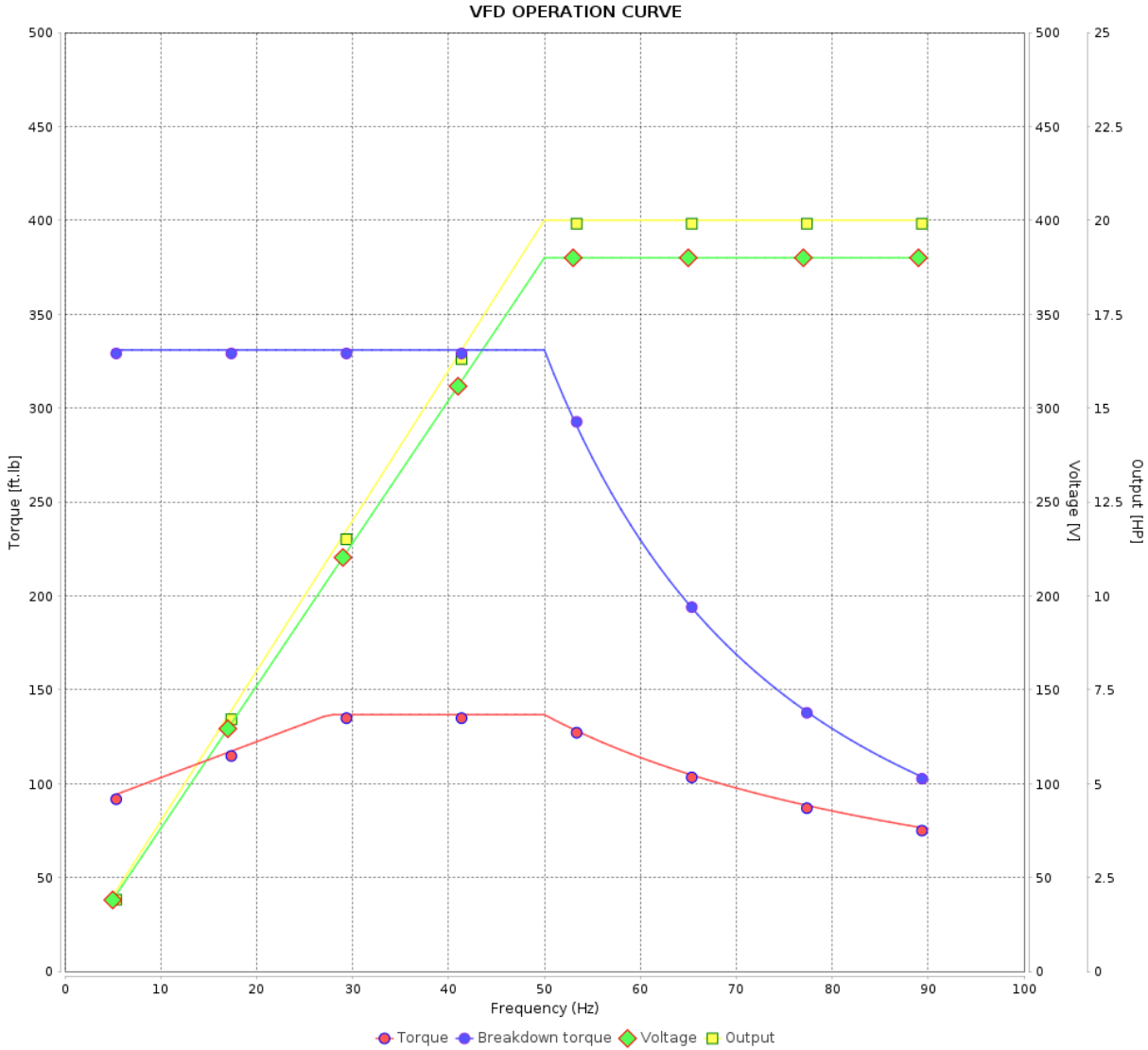
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE3

Rated current : 35.3 A
 LRC : 5.0
 Rated torque : 144 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 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 :

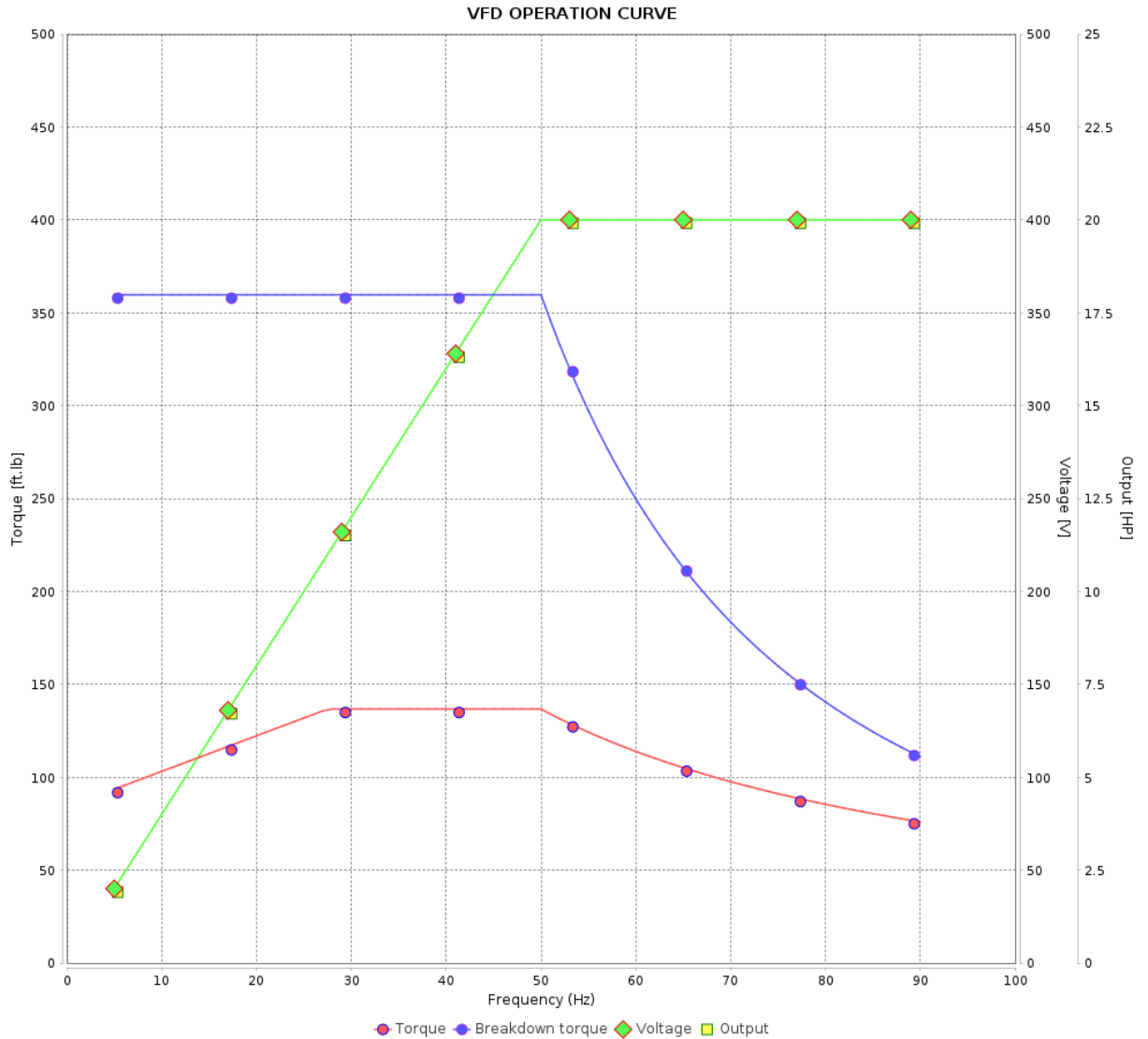
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 400 V 50 Hz 8P IE3

Rated current : 35.6 A
 LRC : 5.4
 Rated torque : 144 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 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		25 / 29		
Date		26/10/2022		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____

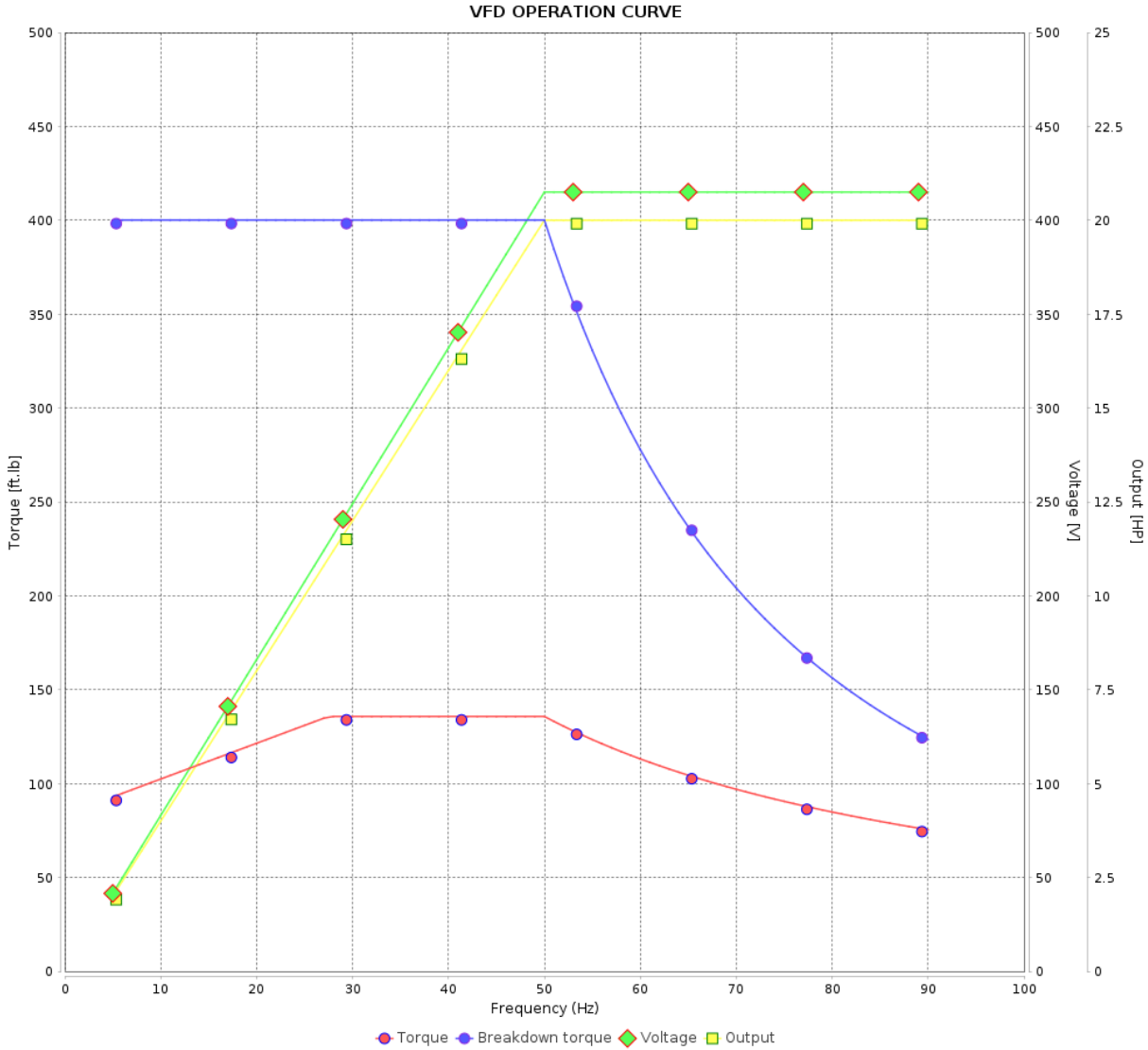
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 415 V 50 Hz 8P IE3

Rated current : 36.4 A
 LRC : 5.5
 Rated torque : 143 ft.lb
 Locked rotor torque : 240 %
 Breakdown torque : 280 %
 Rated speed : 735 rpm

Moment of inertia (J) : 11.9 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 :

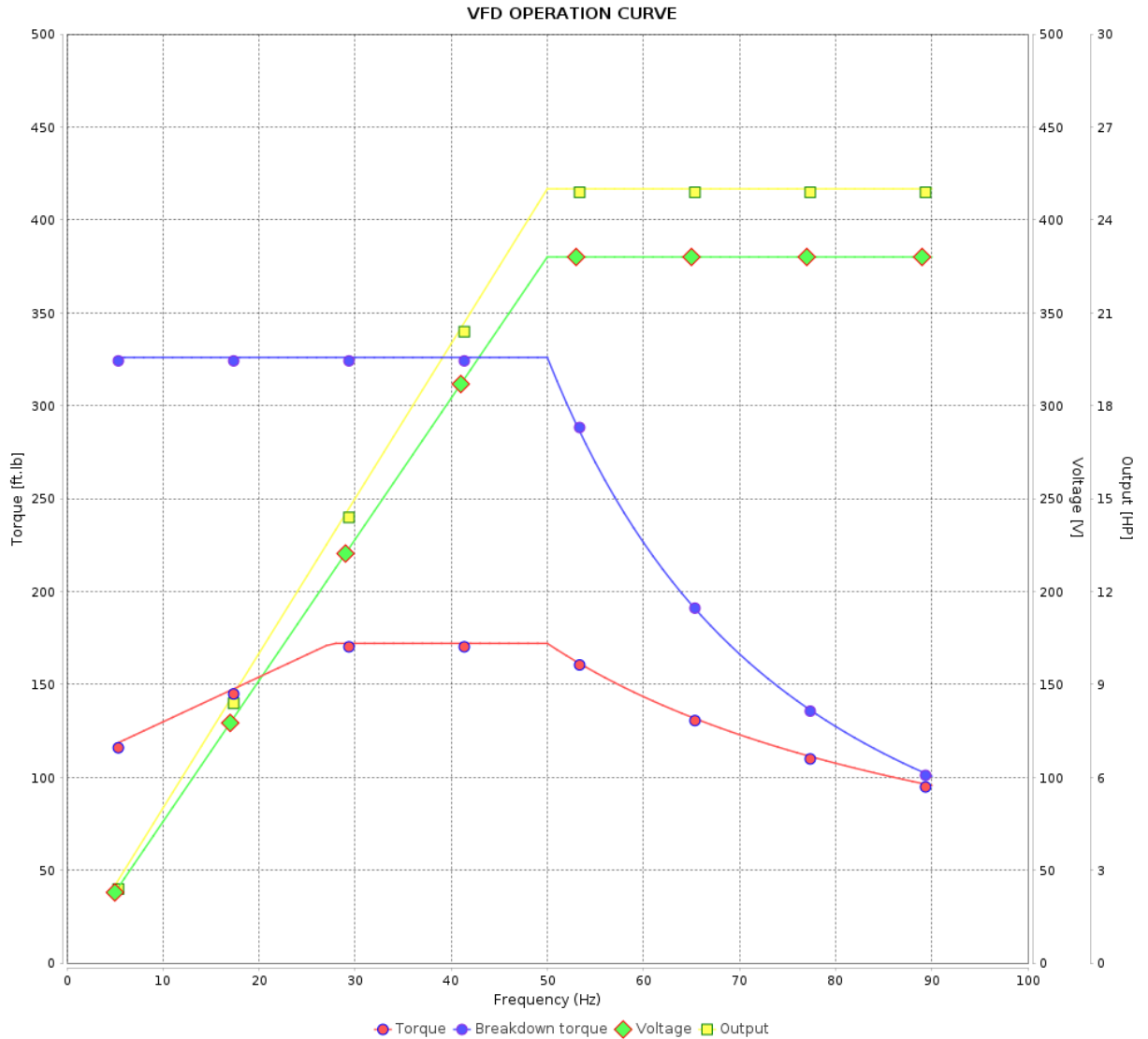
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 380 V 50 Hz 8P IE1

Rated current : 42.3 A
 LRC : 4.2
 Rated torque : 181 ft.lb
 Locked rotor torque : 150 %
 Breakdown torque : 180 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 sq.ft.lb
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 105 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 :

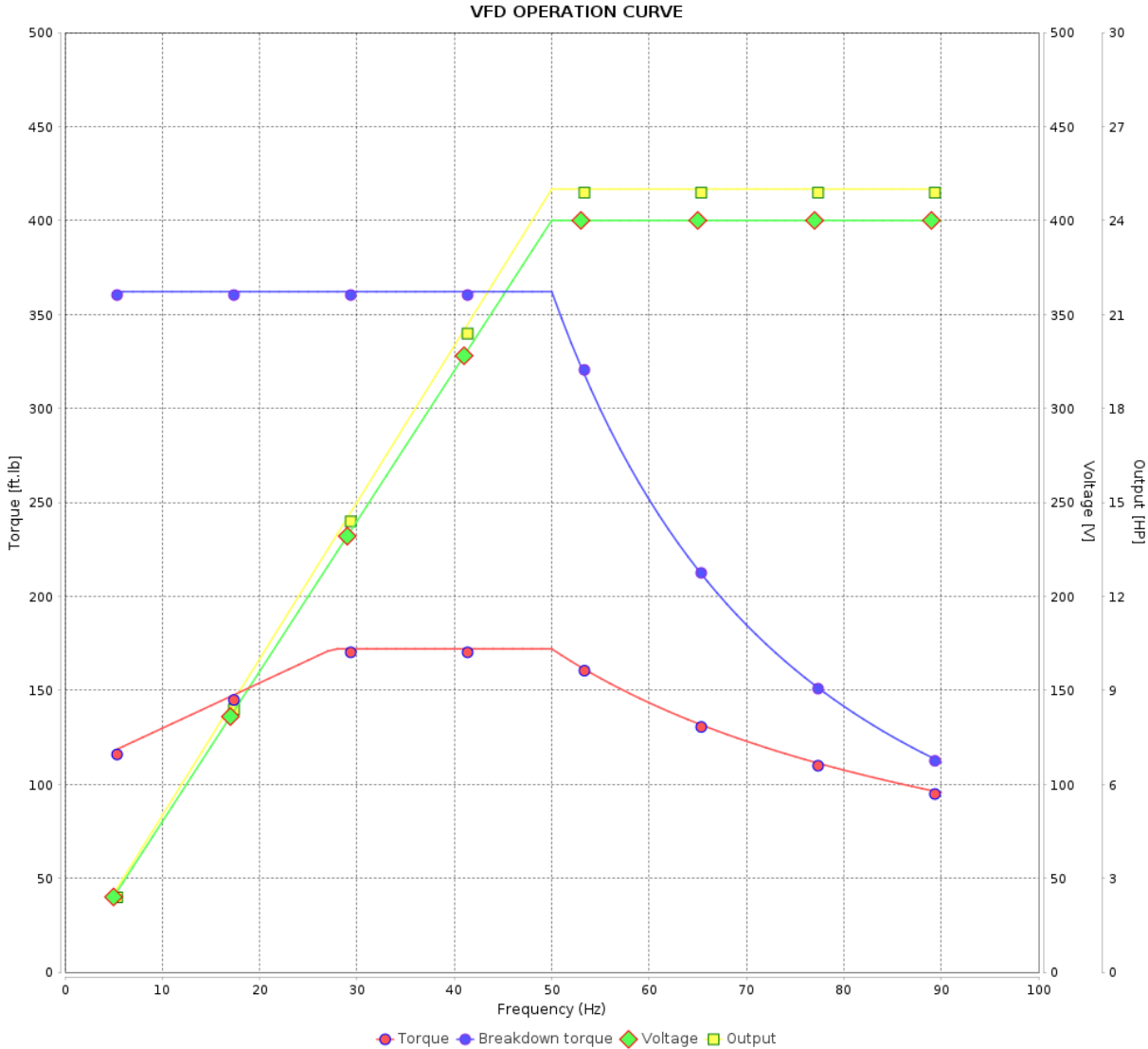
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22



Performance : 400 V 50 Hz 8P IE2

Rated current : 41.4 A
 LRC : 4.6
 Rated torque : 181 ft.lb
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 725 rpm

Moment of inertia (J) : 11.9 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 28 / 29	Revision
Checked by				
Date	26/10/2022			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

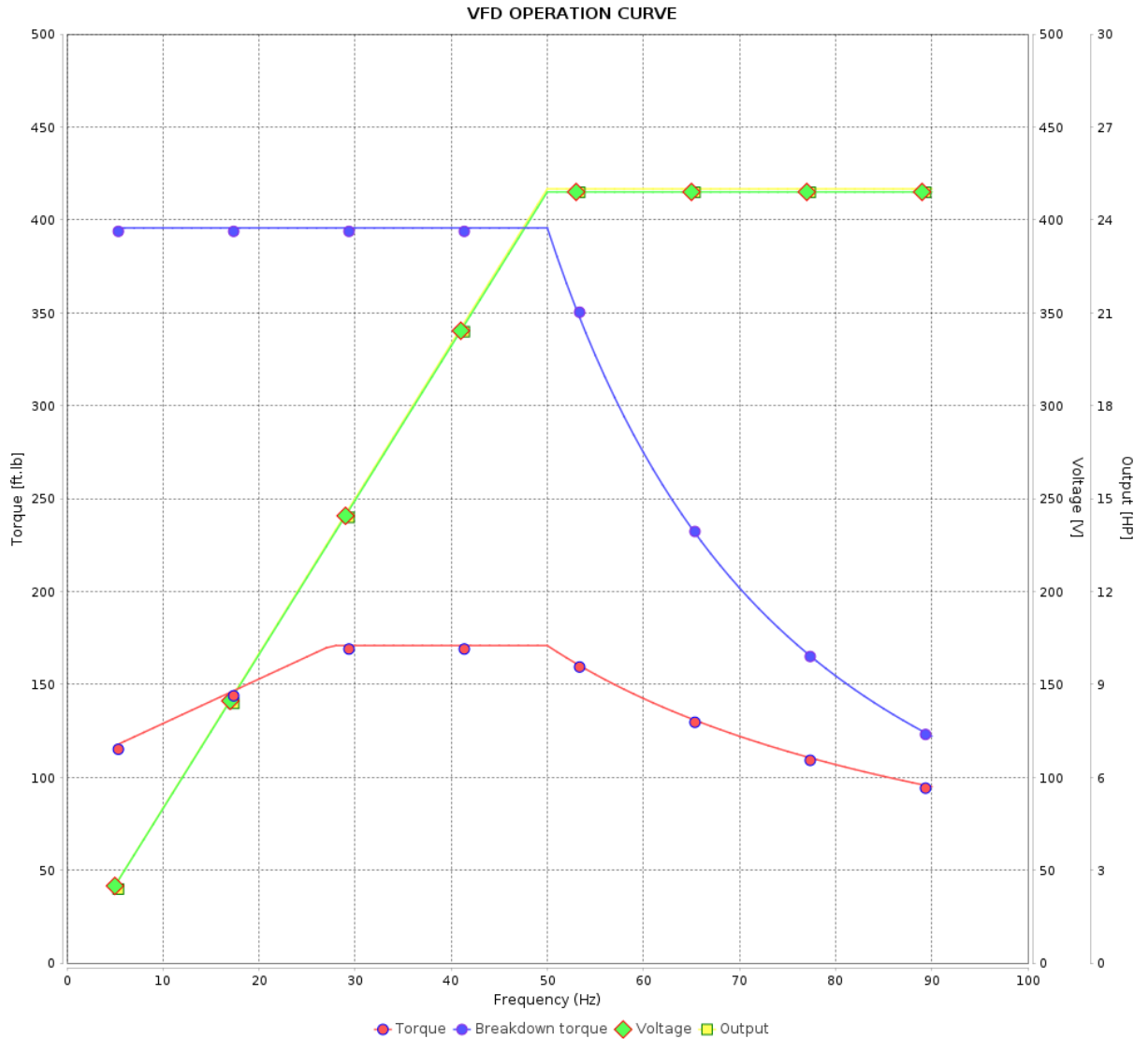
Product line : NEMA Premium Efficiency Three-Phase

Product code :

11441523

Catalog # :

02509ET3E326T-W22

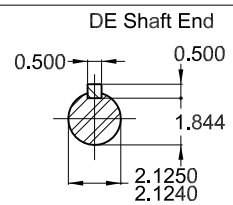
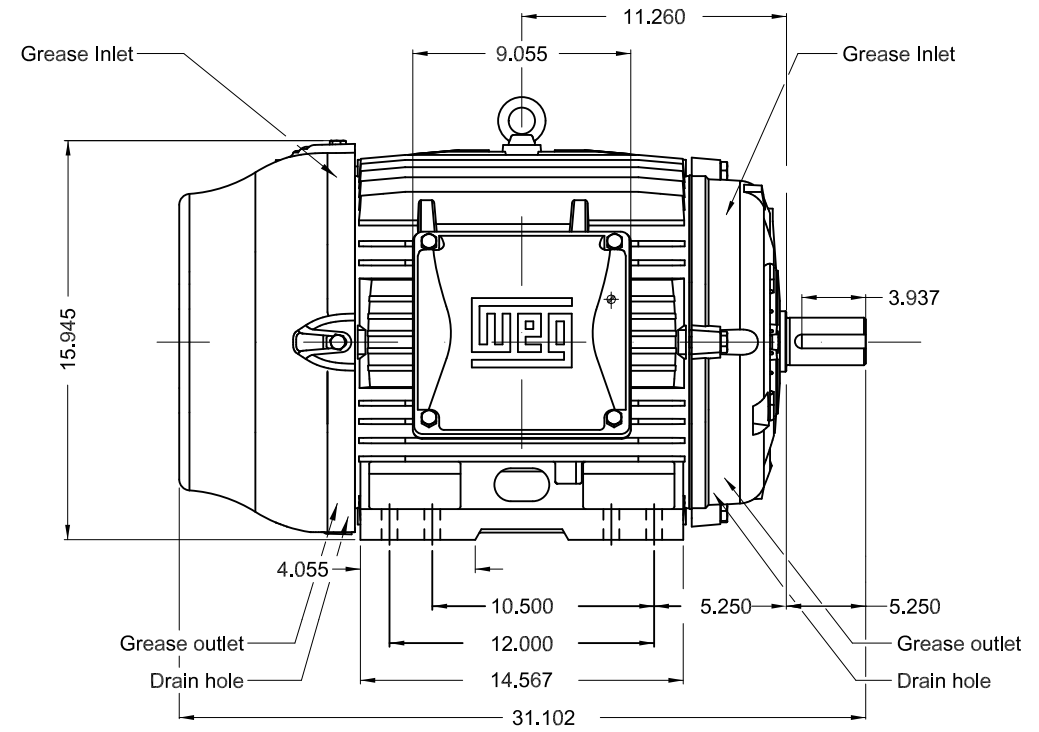
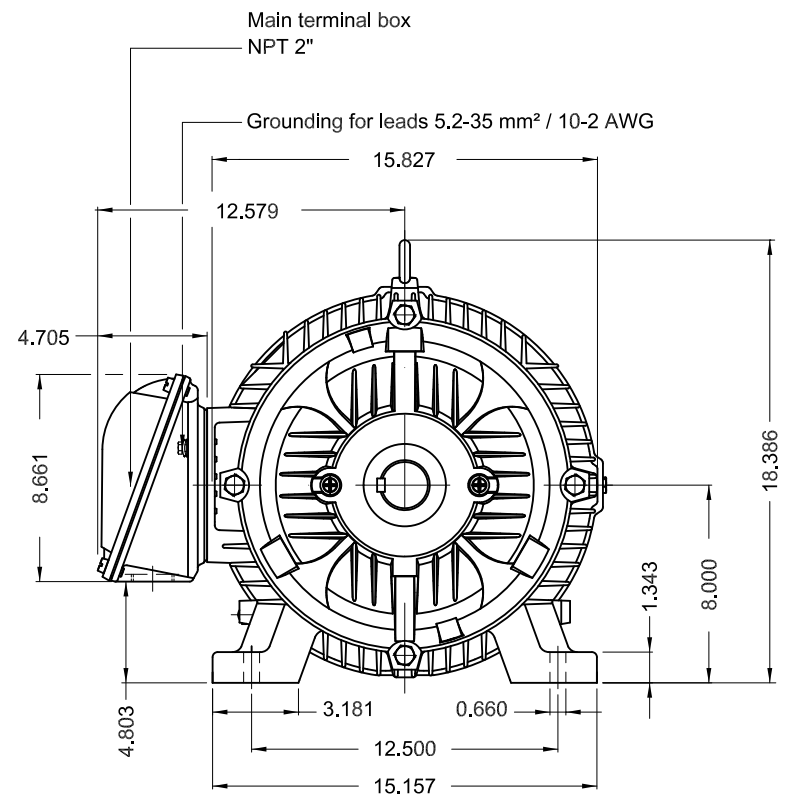


Performance : 415 V 50 Hz 8P IE2

Rated current : 41.1 A
 LRC : 4.8
 Rated torque : 180 ft.lb
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 730 rpm

Moment of inertia (J) : 11.9 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
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Date	26/10/2022			



Without vertical jackscrews
 Color RAL 5009
 Painting plan 203A
 Mounting B3R(D)

25 HP 08 Poles 60 Hz

ECM		LOC	SUMMARY OF MODIFICATIONS		HYBRISUSER					00
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 PREM. EFF.		EXECUTED	CHECKED	RELEASED	DATE	VER	
CHECKED			FRAME 324/6T IP55 TEFC							
RELEASED										
REL DT.		WMO	Jaragua do Sul	Product Engineering						

PREVIEW

WDD 00

SHEET 1 / 1





FOR SAFE AREA
Mod. TE1BFOXON
CC029A



For use on 60Hz

Class I, Div 2, Gr A, B, C and D - T3

Class I, Zone 2, IIC - T3

Class II, Div 2, Gr F and G - T4

For use on PWM: Gr. A, B, C, D and F,
VT 1000:1, CT 20:1, 1.00SF - T3A

MODEL 02509ET3E326T-W22

Inverter Duty Motor
Severe Duty

PH3 60Hz Fr. 324/6T 1000m.a.s.l. IP55 TEFC 555lb

V 230/460 A 71.8/35.9

HP 25 kW 18.5

SF 1.25 SFA 89.8/44.9

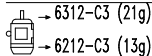
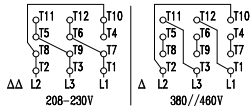
RPM 880 PF 0.71

AMB 40°C INS cl. F DT80K NEMA NOM EFF 91.0%

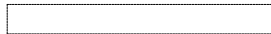
DUTY CONT. DES B Code G

USABLE @208V 79.4A SF 1.15 SFA 91.3

25HP 18.5kW 50Hz 380V 42.3A 725RPM SF 1.15 SFA 48.6 EFF 88.5% (IE1)



MOBIL POLYREX EM (20000h)



MADE IN BRAZIL
11441523