### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12373795

Phase

Catalog #: 00318ST3QIE182T-W22

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 109 lb

Ailliude		. 1000 III.a.s.i.	11		ID
Protection degre	е	: IP55	Moment of ine	ertia (J) : 0.34	01 sq.ft.lb
Design		: B			
Output [HP]		3	3	3	3
Poles	Poles		4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		3.91	4.60	4.48	4.43
L. R. Amperes [A]		31.7	29.0	31.4	33.2
LRC [A]	LRC [A]		6.3x(Code H)	7.0x(Code J)	7.5x(Code J)
No load current [A]		2.00	2.00	2.15	2.25
Rated speed [RPM]		1760	1445	1450	1455
Slip [%]			3.67	3.33	3.00
Rated torque [ft.lb]		8.95	10.9	10.9	10.8
Locked rotor torque [%]		229	180	210	240
Breakdown torque	[%]	340	260	290	320
Service factor		1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>		56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%				
Efficiency (%)	50%	87.5	87.5	87.5	87.5
Efficiency (70)	75%	88.5	87.5	87.5	87.5
	100%	89.5	87.5	87.5	87.5
	25%				
Power Factor	50%	0.61	0.68	0.64	0.61
I OWEI Facior	75%	0.73	0.79	0.76	0.73
	100%	0.79	0.83	0.81	0.79

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6207 C3 6206 C3 Max. traction : 167 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 275 lb

Lubrication interval:20000 h20000 hLubricant amount:7 g5 gLubricant 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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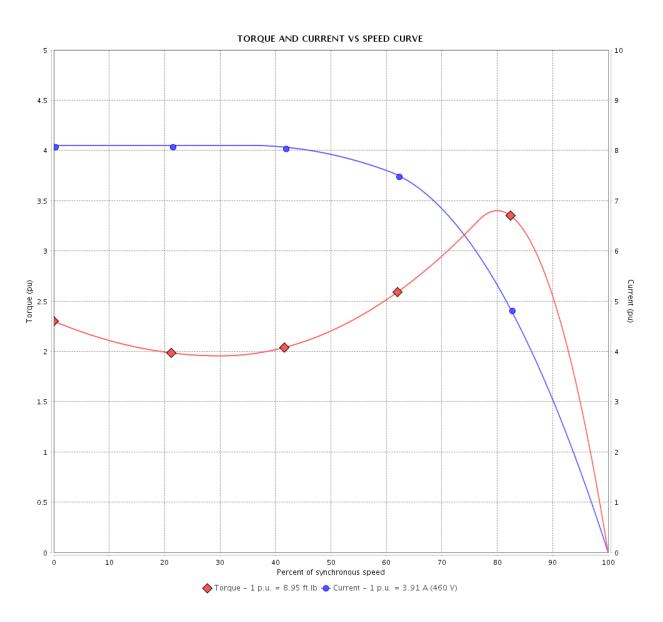
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12373795

Catalog #: 00318ST3QIE182T-W22



Performance : 460 V 60 Hz 4P Rated current : 3.91 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : F : 8.95 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12373795 Catalog #: 00318ST3QIE182T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 10.9 ft.lb ◆ Current - 1 p.u. = 4.60 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 4.60 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 10.9 ft.lb Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary** 

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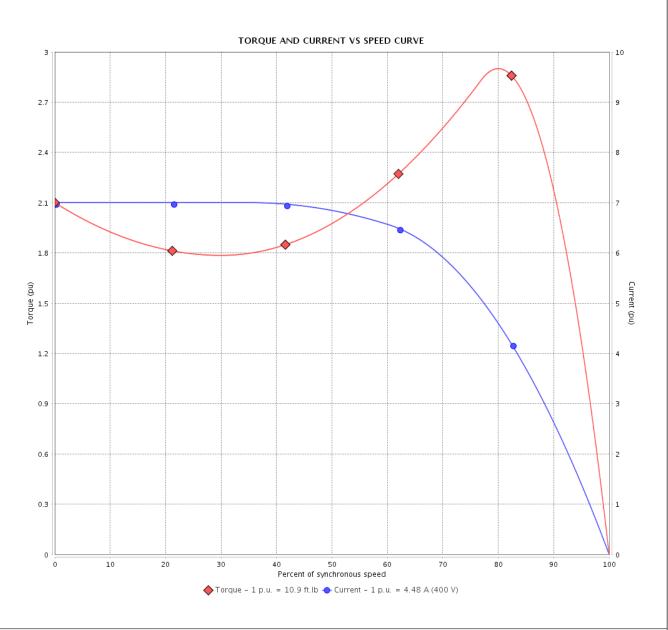
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373795

Catalog #: 00318ST3QIE182T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 4.48 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 10.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12373795 Catalog #: 00318ST3QIE182T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 60 Percent of synchronous speed ◆Torque - 1 p.u. = 10.8 ft.lb ◆ Current - 1 p.u. = 4.43 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current · 4 43 A Moment of inertia (.I) · 0.3401 sq ft lb

LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7 : 1 ue : 2 e : 3	7.5 0.8 ft.lb 240 % 320 % 455 rpm	1.8 ft.lbInsulation class: F0 %Service factor: 1.0 %Temperature rise: 80		: Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	::	32s (cold) 18s (ho	t)			
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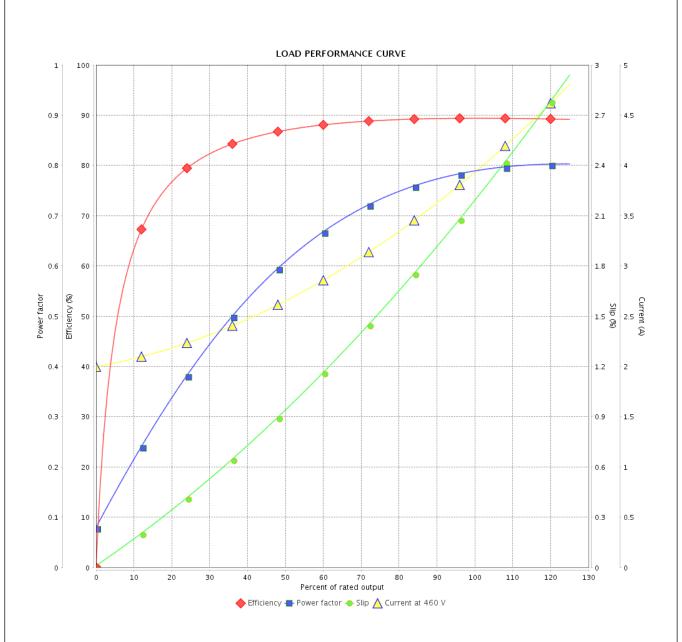
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373795

Catalog #: 00318ST3QIE182T-W22



Performance : 460 V 60 Hz 4P Rated current : 3.91 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 : 8.95 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 12373795

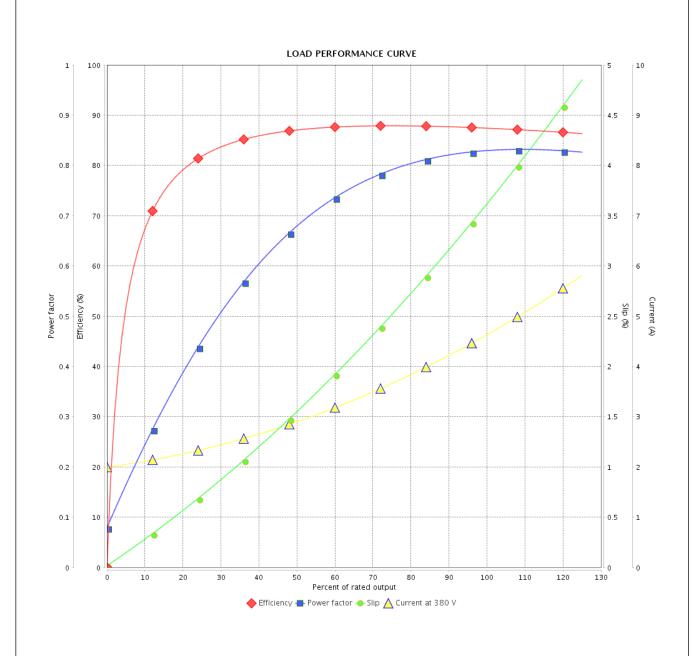
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.60 A : 6.3 : 10.9 ft.lb : 180 % : 260 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3401 sq.ft.lk : Cont.(S1) : F : 1.25 : 80 K : B	)
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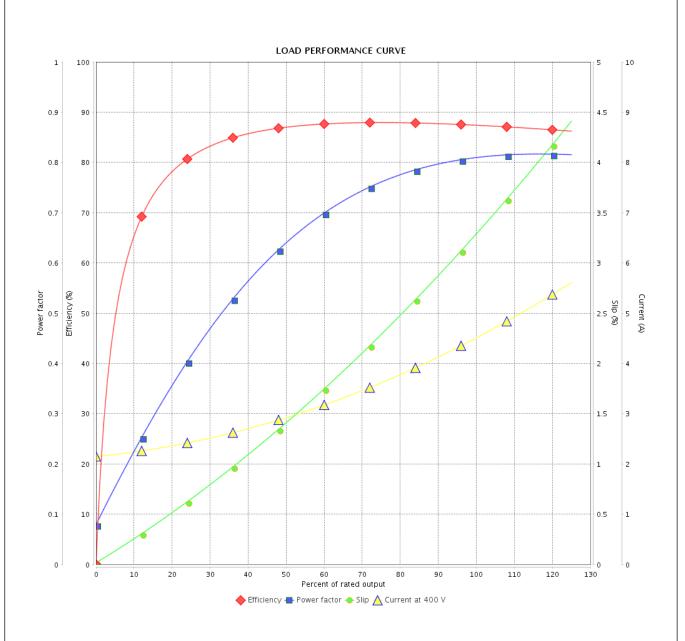
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12373795

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 4.48 A	Moment of inertia (J)		: 0.3401 sq.ft.lb	
LRC	: 7.0	Duty cycle	•	: Cont.(S1)	
Rated torque	: 10.9 ft.lb	Insulation class Service factor		: F : 1.25	
Locked rotor torque	: 210 %				
Breakdown torque	: 290 %	Temperat	Temperature rise		
Rated speed	: 1450 rpm	Design		: B	
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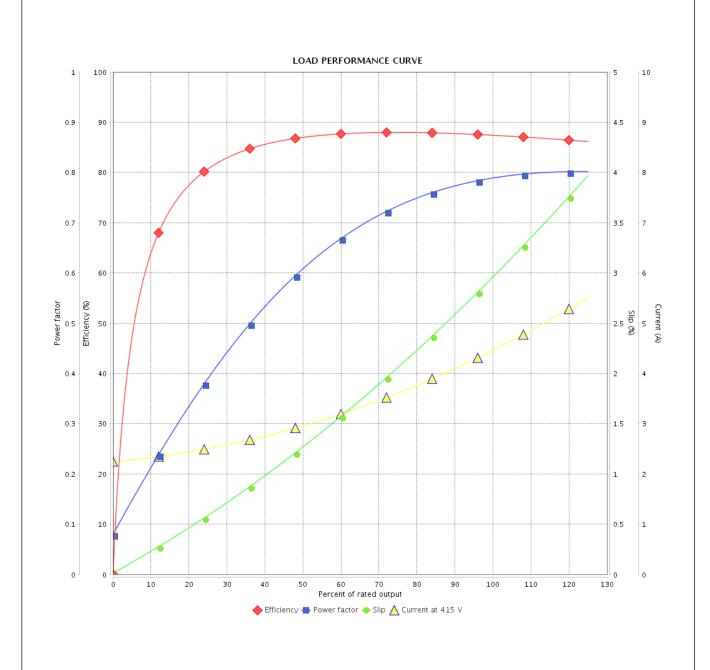


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373795

Phase

Catalog #: 00318ST3QIE182T-W22



			<del>,</del>			
Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	4.43 A	Moment of	f inertia (J)	: 0.3401 sq.ft	.lb
LRC	:	7.5	Duty cycle	)	: Cont.(S1)	
Rated torque	:	10.8 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque		240 %	Service fa	ctor	: 1.25 : 80 K	
Breakdown torque	:	320 %	% Temperature rise			
Rated speed	:	1455 rpm	Design		: B	
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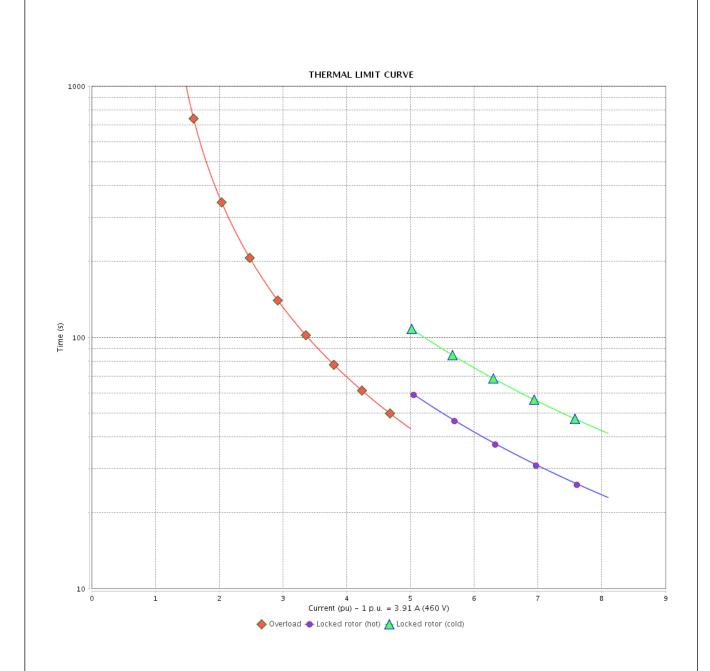


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373795 00318ST3QII	E182T-W22
Performance		: 460 V 60 Hz 4P				
Rated current LRC		: 3.91 A : 8.1	Duty cycle		: 0.3401 sq.ft.ll : Cont.(S1)	0
Rated torque Locked rotor tord		: 8.95 ft.lb : 229 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 340 %	Temperat		: 80 K	
Rated speed		: 1760 rpm	Design		: B	
Heating constant						
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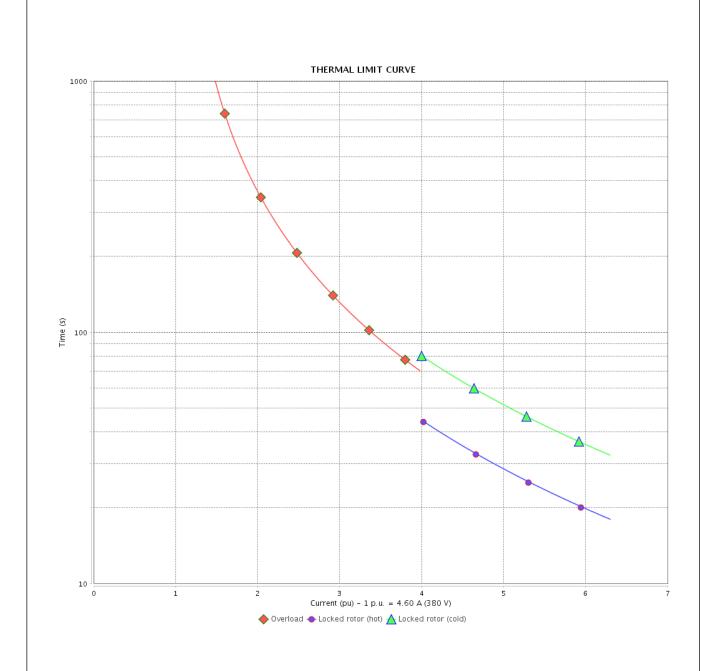


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373795 00318ST3QII	≣182T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 4.60 A : 6.3	Moment of Duty cycle	of inertia (J) e	: 0.3401 sq.ft.ll : Cont.(S1)	0
Rated torque		: 10.9 ft.lb : 180 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 260 %	Temperat		: 80 K	
Rated speed		: 1445 rpm	Design		: B	
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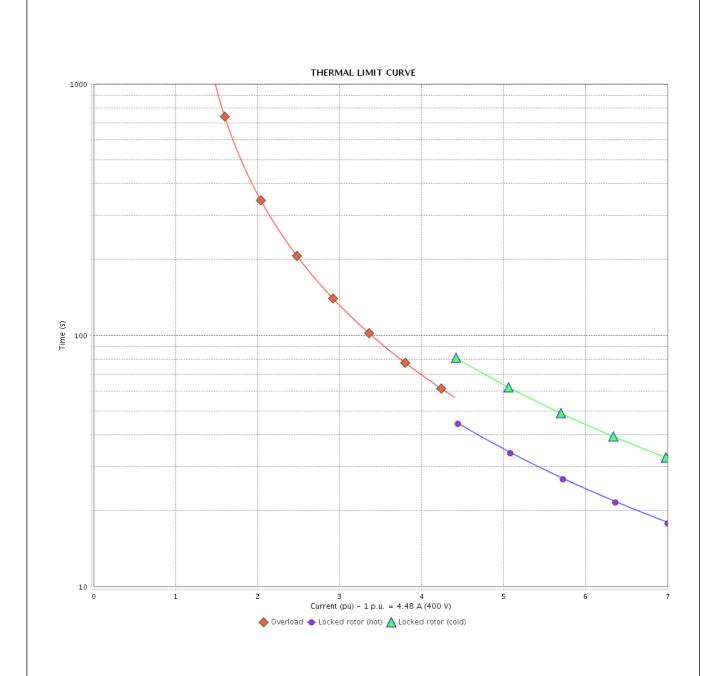


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12373795 00318ST3QII	E182T-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 4.48 A : 7.0 : 10.9 ft.lb	Duty cycle Insulation	class	: 0.3401 sq.ft.l : Cont.(S1) : F	b
Locked rotor torque Breakdown torque Rated speed	: 210 % : 290 % : 1450 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
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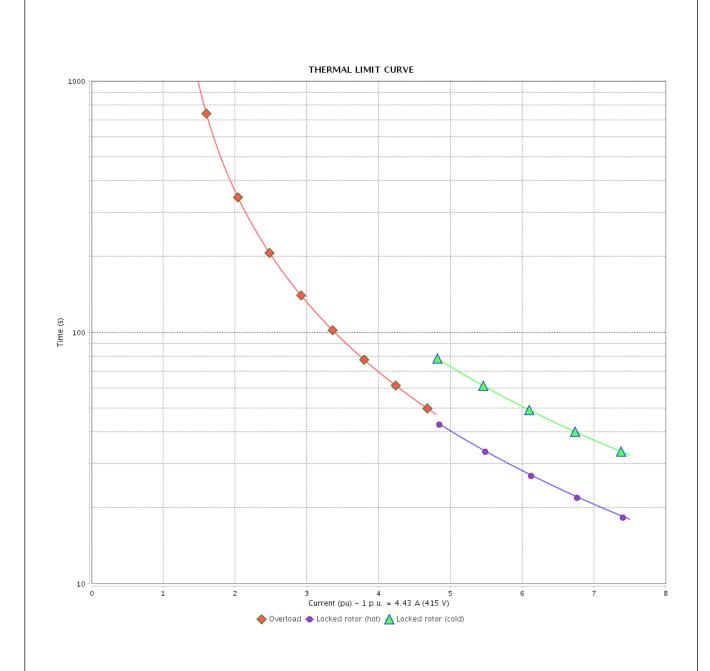


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12373795	E400T 18/00
			Catalog # :	00318ST3Q	E182T-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.43 A : 7.5 : 10.8 ft.lb : 240 % : 320 % : 1455 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3401 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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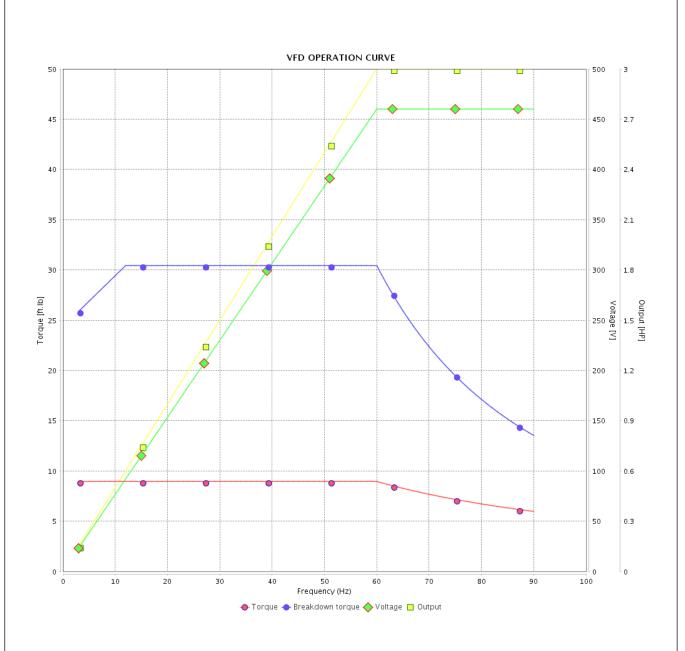
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373795

Catalog #: 00318ST3QIE182T-W22



Performance : 460 V 60 Hz 4P Rated current : 3.91 A Moment of inertia (J) : 0.3401 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 Insulation class : 8.95 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

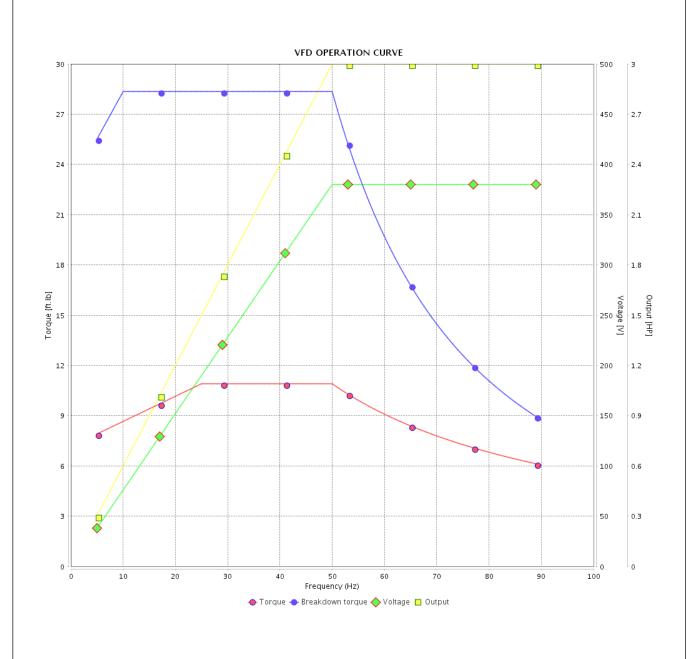


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373795

Phase

Catalog #: 00318ST3QIE182T-W22



Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 4.	60 A Moment of inc			rtia (J) : 0.3401 sq.ft.lb	
LRC	: 6.	3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 10	0.9 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 18	30 %	Service fa	ictor	: 1.25	
Breakdown torqu	ie : 26	60 %	Temperature rise		: 80 K	
Rated speed	: 14	145 rpm	Design		: B	
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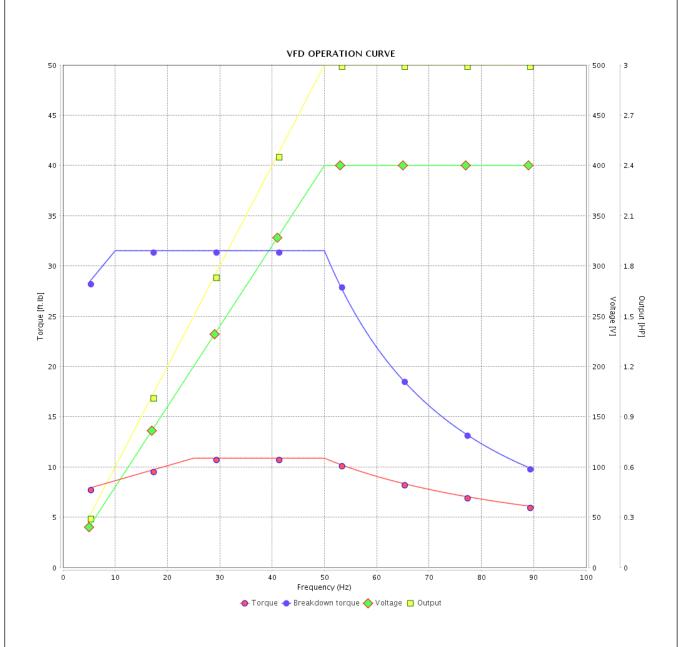
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12373795

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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current		48 A Moment of inertia (J)		` '	: 0.3401 sq.ft.lb	
LRC	: 7.	0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 10	).9 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 21	10 %	Service fa	ctor	: 1.25	
Breakdown torqu	ue : 29	90 %	Temperati	ıre rise	: 80 K	
Rated speed	: 14	150 rpm	Design		: B	
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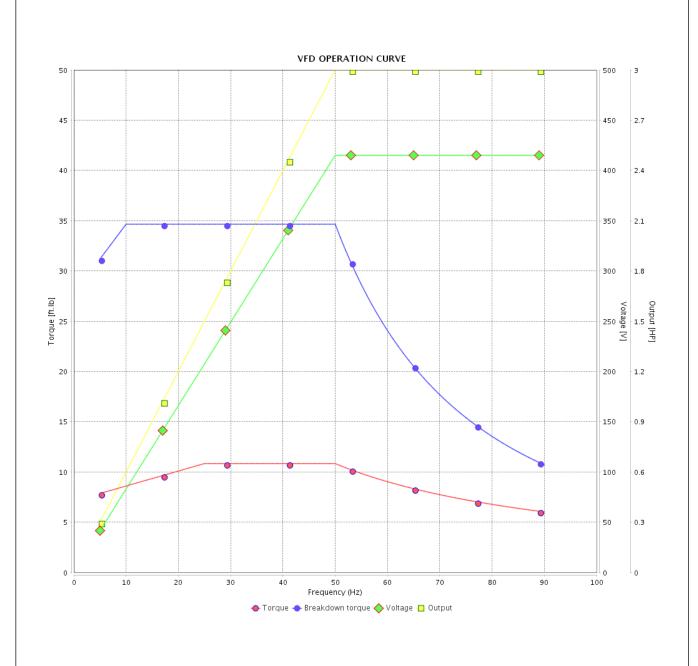


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12373795

Phase

Catalog #: 00318ST3QIE182T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 4	.43 A	Moment of inertia (J)		: 0.3401 sq.ft.lb	
LRC	: 7	.5	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	0.8 ft.lb	Insulation	class	:F	
Locked rotor torqu	ie : 2	40 %	Service factor		: 1.25	
Breakdown torque	: 3	20 %	% Temperature rise		: 80 K	
Rated speed	: 1	455 rpm	Design		: B	
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