DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22

Frame : 404/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1182 lb

Protection degree Design	е	: IP55 : B		Momer	nt of inertia (J)	: 2	9.9 sq.ft.lb	
Output [HP]		100	75	75	75	100	100	100
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		226/113	102	98.3	95.9	138	131	127
L. R. Amperes [A]		1650/825	785	826	854	814	852	902
LRC [A]		7.3x(Code H)	7.7x(Code H)	8.4x(Code J)	8.9x(Code K)	5.9x(Code F)	6.5x(Code	7.1x(Code H)
							Ġ)	
No load current [A		76.0/38.0	37.6	40.1	42.0	37.6	40.1	42.0
Rated speed [RPN	/ []	1780	1485	1485	1485	1470	1475	1475
Slip [%]		1.11	1.00	1.00	1.00	2.00	1.67	1.67
Rated torque [ft.lb]		295	265	265	265	357	356	356
Locked rotor torqu	e [%]	240	260	280	290	190	210	220
Breakdown torque	[%]	260	280	310	330	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		23s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)	16s (cold)
		13s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)
Noise level ²		68.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
	25%	94.6	93.4	93.3	93.0	94.8	94.7	94.4
Efficiency (9/)	50%	95.0	94.0	93.9	93.6	94.5	94.5	94.5
Efficiency (%)	75%	95.0	94.4	94.5	94.5	94.1	94.5	94.5
	100%	95.4	95.0	95.0	95.0	93.6	94.1	94.5
	25%	0.51	0.47	0.44	0.41	0.57	0.53	0.51
Power Factor	50%	0.77	0.72	0.69	0.66	0.82	0.79	0.77

Drive end Non drive end Foundation loads

0.81

0.85

0.79

0.84

Bearing type : NU-316 C3 6314 C3 Max. traction : 2081 lb Sealing : WSeal WSeal Max. compression : 3262 lb

0.83

0.86

Lubrication interval:7000 h12000 hLubricant amount:34 g27 gLubricant type:Mobil Polyrex EM

0.84

0.87

Notes

Power Factor

USABLE @208V 245A SF 1.10 SFA 270A

75%

100%

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.

0.86

0.88

0.85

0.88

0.84

0.87

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Three Phase Induction Motor - Squirrel Cage



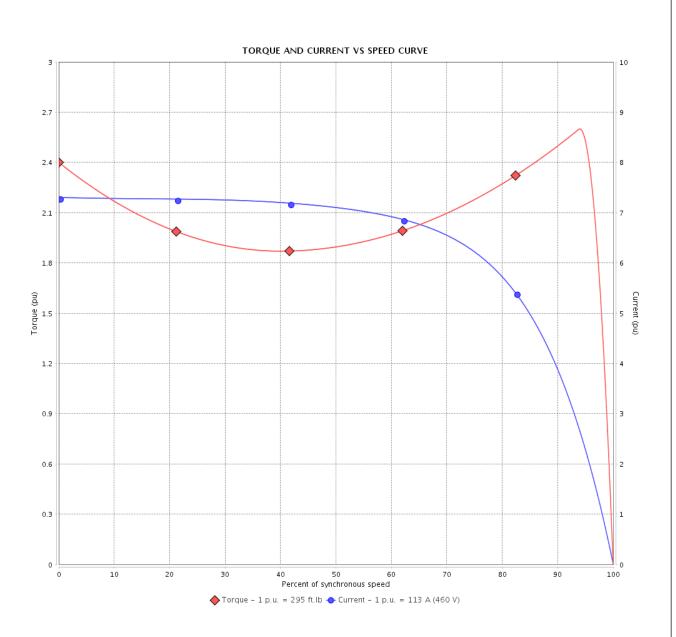
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3ERB405T-W22

11355410



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 226/113 A	Moment of inertia (J)	: 29.9 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 295 ft.lb	Insulation class	:F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B
	•		

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355410 Catalog #: 10018ET3ERB405T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 102 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 102 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 16s (cold) 9s (hot) Rev. **Changes Summary** Performed Checked Date

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Three Phase Induction Motor - Squirrel Cage



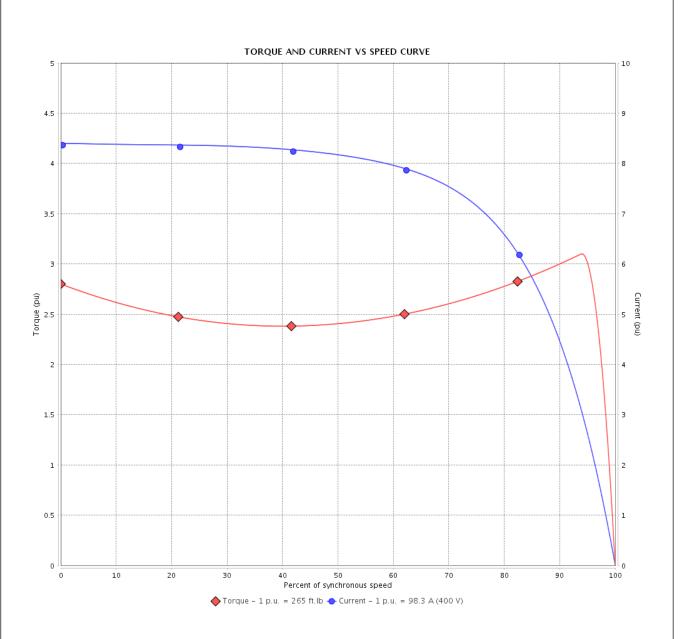
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3ERB405T-W22

11355410



: 400 V 50 Hz 4P IE3 Performance Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355410 Catalog #: 10018ET3ERB405T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5

Performance : 415 V 50 Hz 4P IE3 Rated current : 95.9 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 95.9 A (415 V)

Locked rotor time : 16s (cold) 9s (hot)

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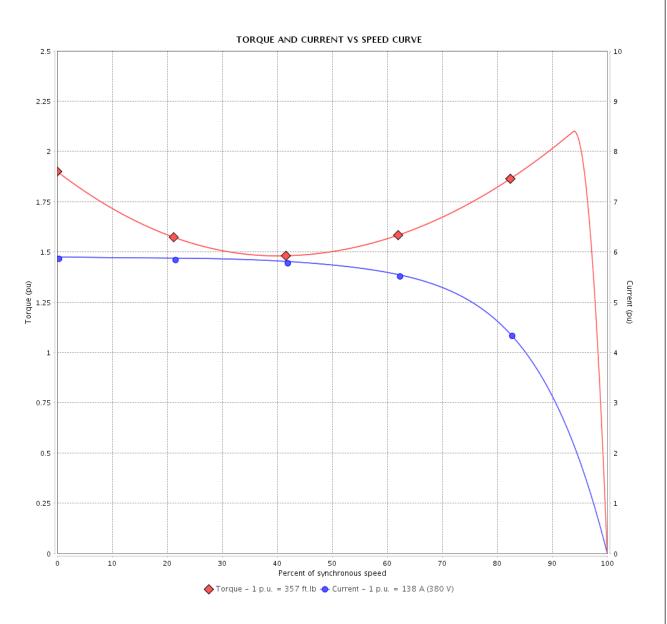


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22



Performance	: 380 V 50 Hz 4P IE1		
Rated current	: 138 A	Moment of inertia (J)	: 29.9 sq.ft.lb
LRC	: 5.9	Duty cycle	: Cont.(S1)
Rated torque	: 357 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

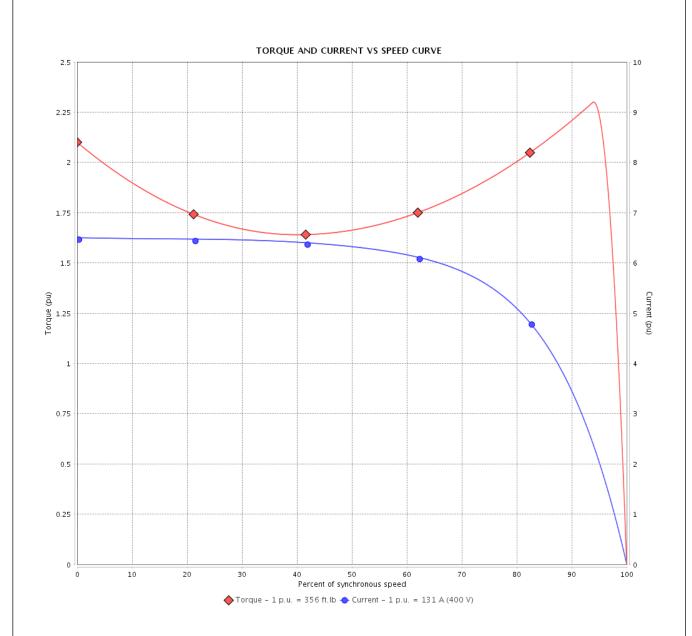
Locked rotor time : 16s (cold) 9s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11355410 Catalog #: 10018ET3ERB405T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 131 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Locked rotor time : 16s (cold) 9s (hot)

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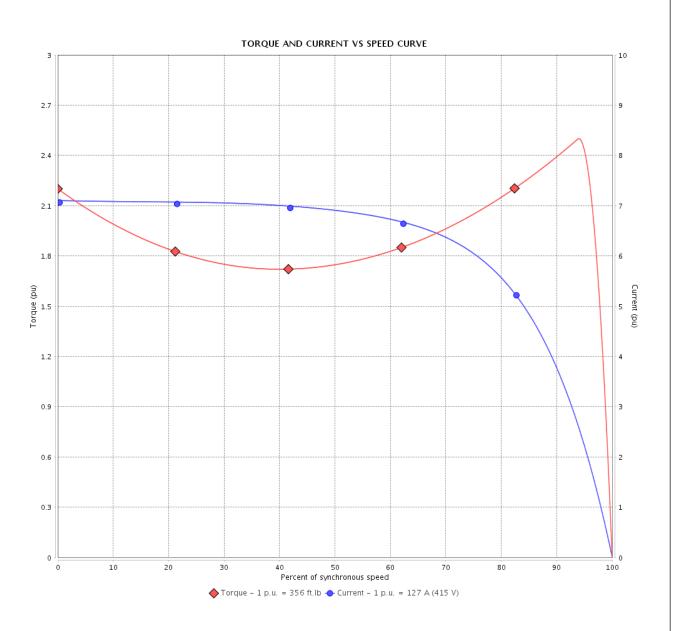


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 127 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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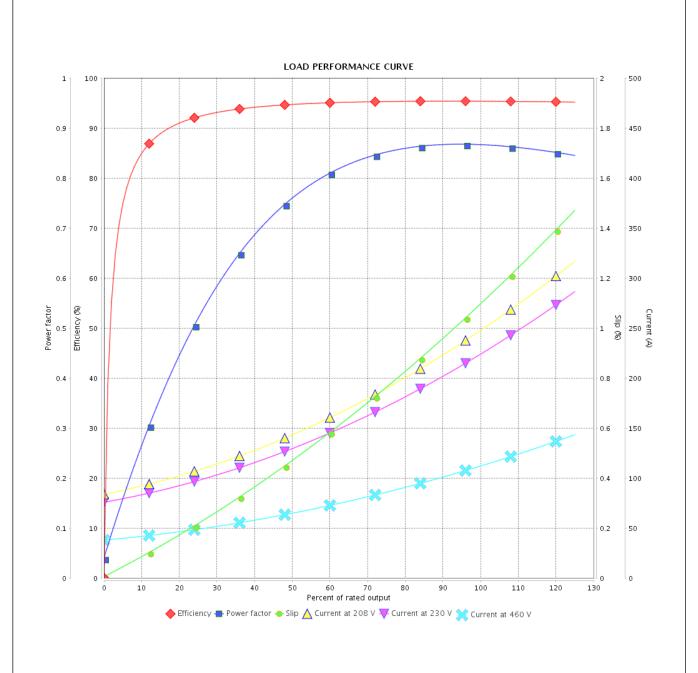


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 2	226/113 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	295 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	260 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	1780 rpm	Design		: B	
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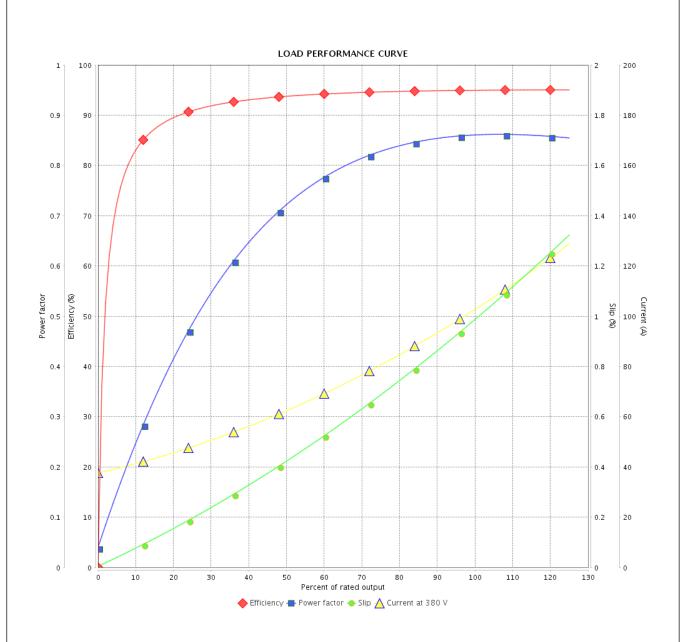
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355410

Catalog #: 10018ET3ERB405T-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 102 A	Moment of inertia	(J)	: 29.9 sq.ft.lb	
LRC	: 7.7	Duty cycle	• •	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class		: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 1485 rpm	Design		: B	
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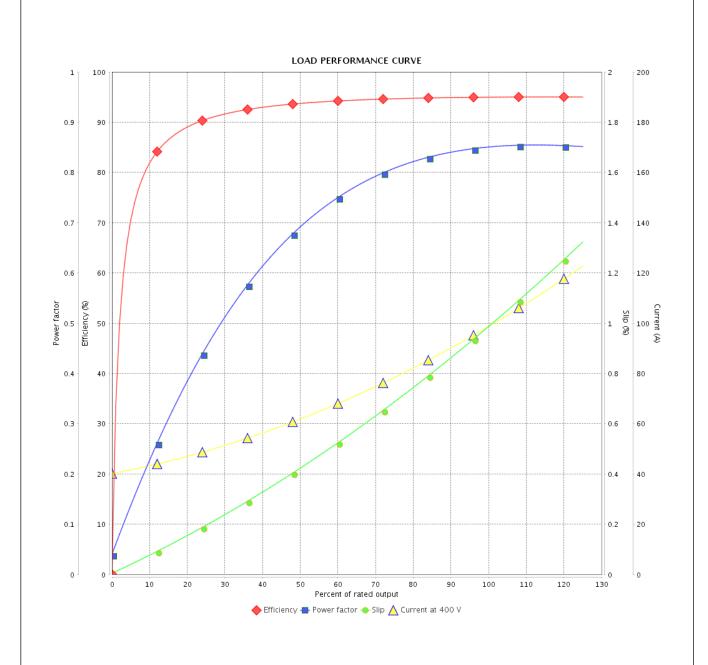


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22



D (001/5011 40150	,			
Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current	: 9	8.3 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	.4	Duty cycle	;	: Cont.(S1)	
Rated torque		65 ft.lb	Insulation	class	: F	
Locked rotor torque		80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	10 %			: 80 K	
Rated speed	: 1	485 rpm	Design	Design		
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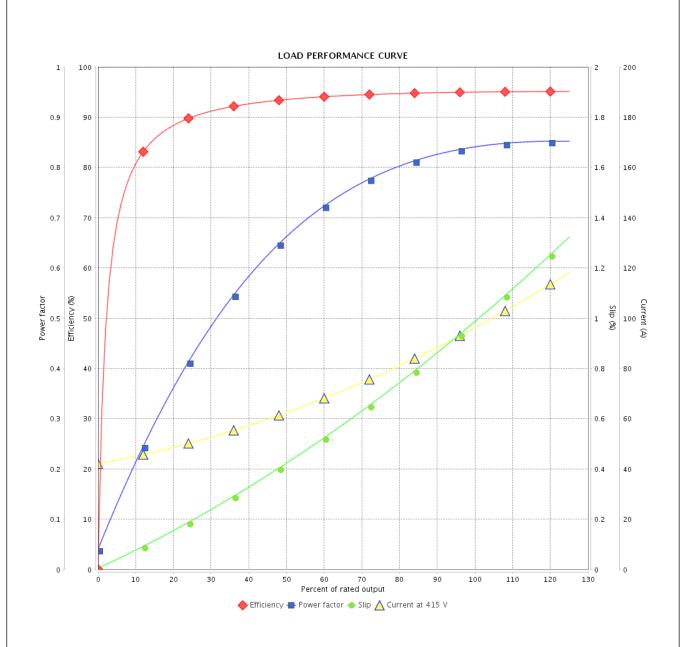
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Phase

Product code: 11355410

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Performance : 415 V 50 Hz 4P IE3 Rated current : 95.9 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



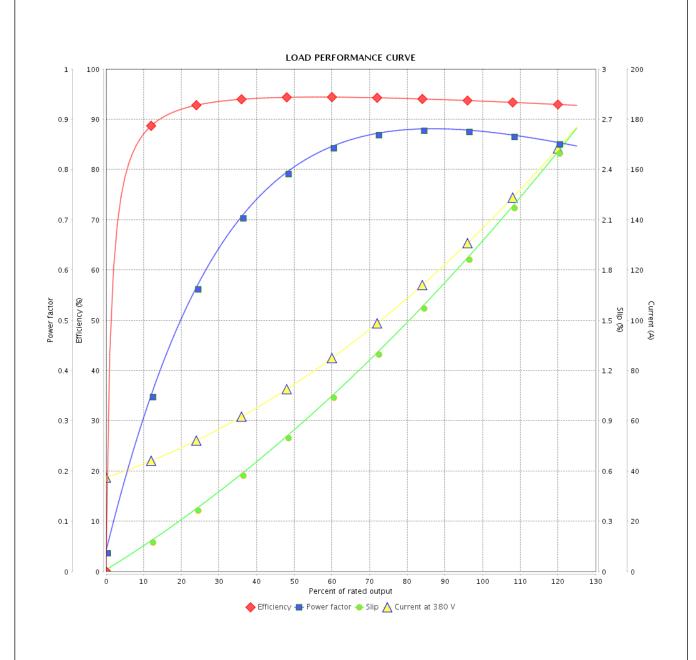
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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 5.9 : 357 ft.lb : 190 % : 210 % : 1470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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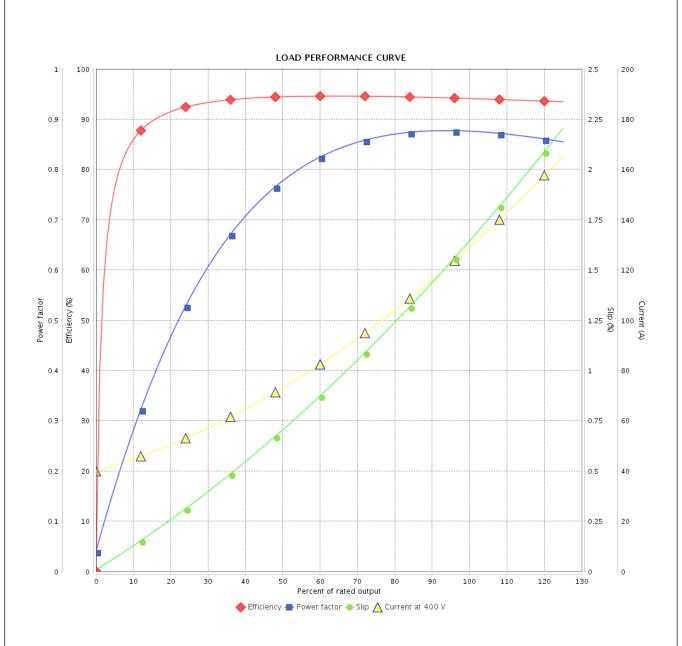
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Performance : 400 V 50 Hz 4P IE2 : 131 A Rated current Moment of inertia (J) : 29.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

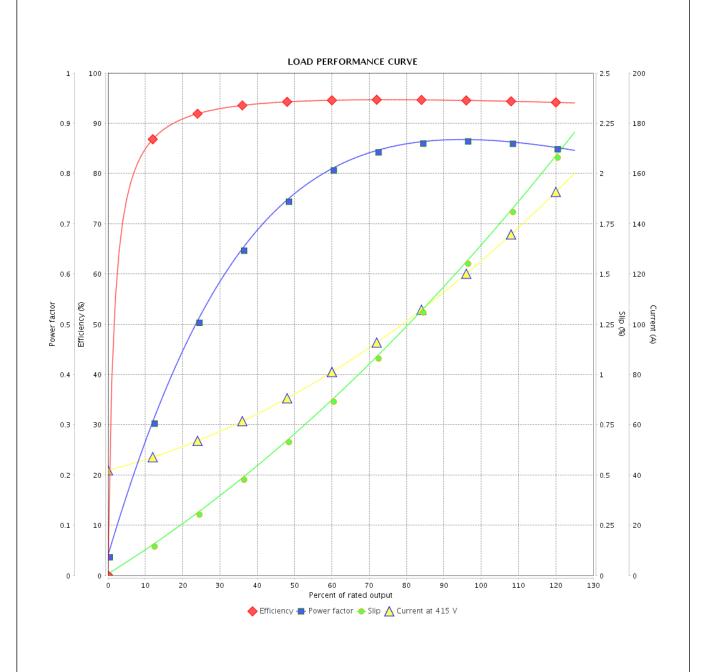


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355410

Phase

Catalog #: 10018ET3ERB405T-W22



Performance	: 415 V 50 Hz 4P IE2					
Rated current	Rated current : 127 A		Moment of	Moment of inertia (J)		
LRC	: 7.	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	56 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2:	20 %	Service fa	ctor	: 1.00	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed	: 14	475 rpm Design		: B		
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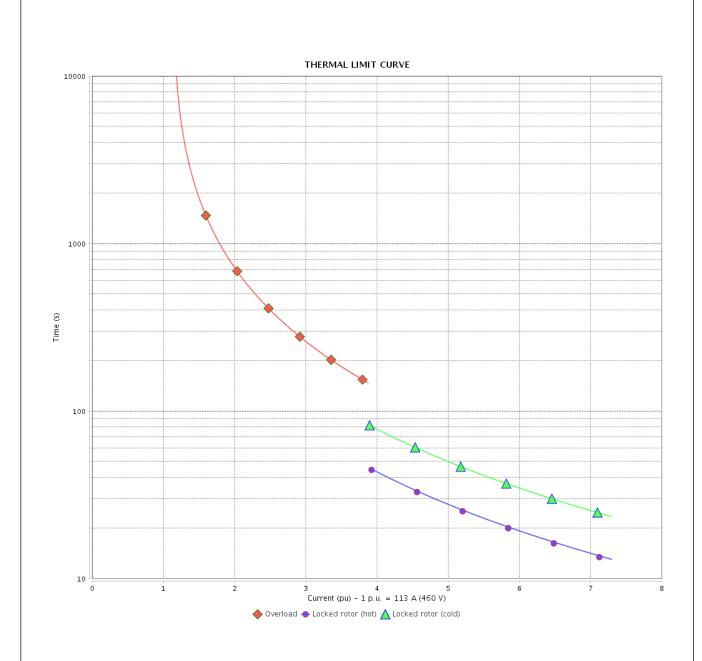


Customer	:			
Product line	: NEMA Premium Efficiency ∃ Phase	Three- Product code : Catalog # :	11355410 10018ET3ERE	3405T-W22
D. f	000/400 \ / 00 \ /			
Performance Rated current	: 230/460 V 60 Hz 4P : 226/113 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.3	Duty cycle	: Cont.(S1)	
Rated torque	: 295 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 240 % : 260 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 1780 rpm	Design	: B	
Heating constant				
Cooling constant				
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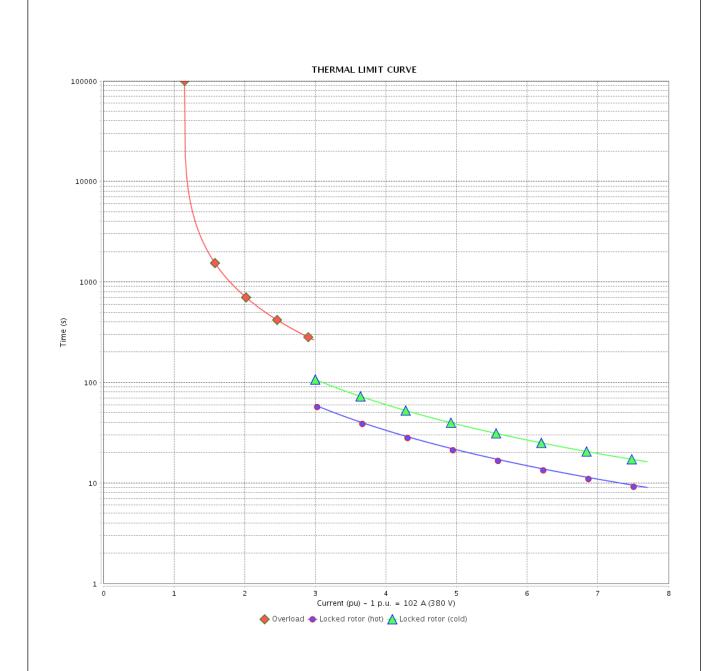


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11355410 10018ET3ER	B405T-W22
Performance	. 30	30 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10 : 7. : 26 : 26 : 28)2 A	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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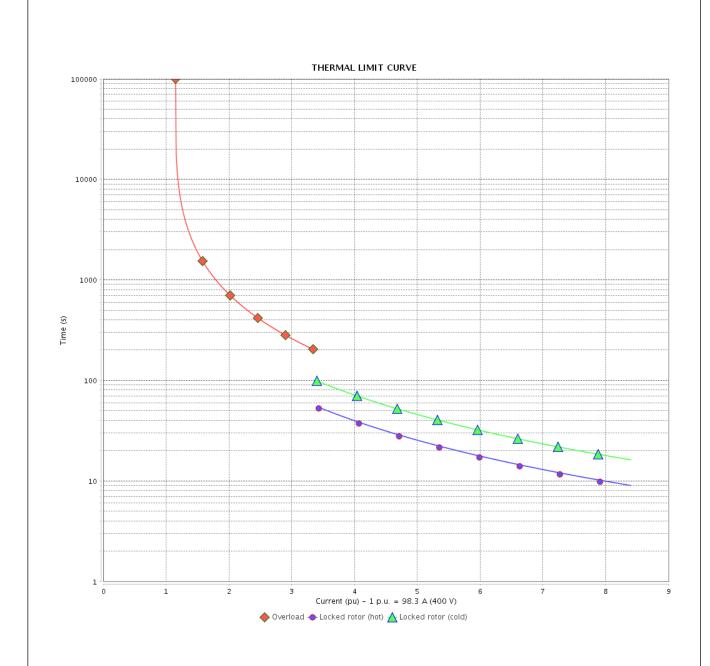


Customer	:				
Product line	: NEMA Premium Efficier Phase		Product code :	11355410 10018ET3ER	B405T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 4P IE3 : 98.3 A : 8.4 : 265 ft.lb : 280 % : 310 % : 1485 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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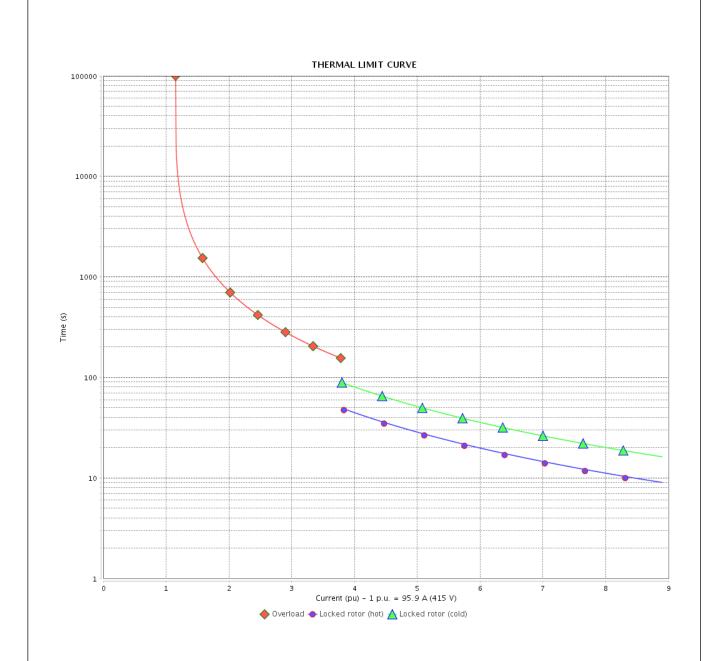


Customer	:					
Product line		NEMA Premium Efficiency	Γhree- I	Product code :	11355410	
	Ph	nase	(Catalog # :	10018ET3ER	B405T-W22
Performance		15 V 50 Hz 4P IE3				
Rated current		5.9 A	Moment or	f inertia (I)	: 29.9 sq.ft.lb	
LRC	: 8.	9	Duty cycle	;	: Cont.(S1)	
Rated torque		65 ft.lb 90 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		30 % 30 %	Temperatu		: 1.00 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant	t .					
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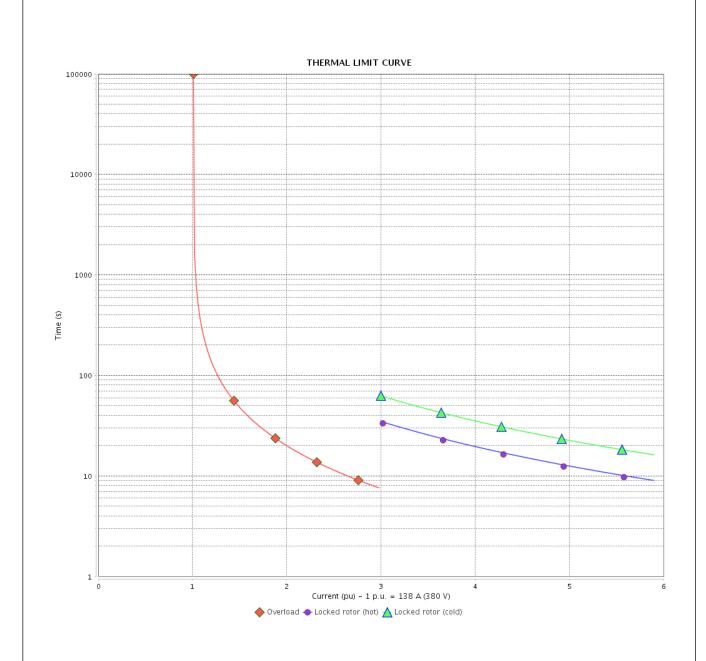


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355410 10018ET3ERI	3405T-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current LRC		: 138 A : 5.9	Moment of Duty cycle	of inertia (J) e	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 357 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu		: 190 % : 210 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1470 rpm	Design		: B	
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Cooling constan	t	Changes Cummers		Dorform	Charles	Doto
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

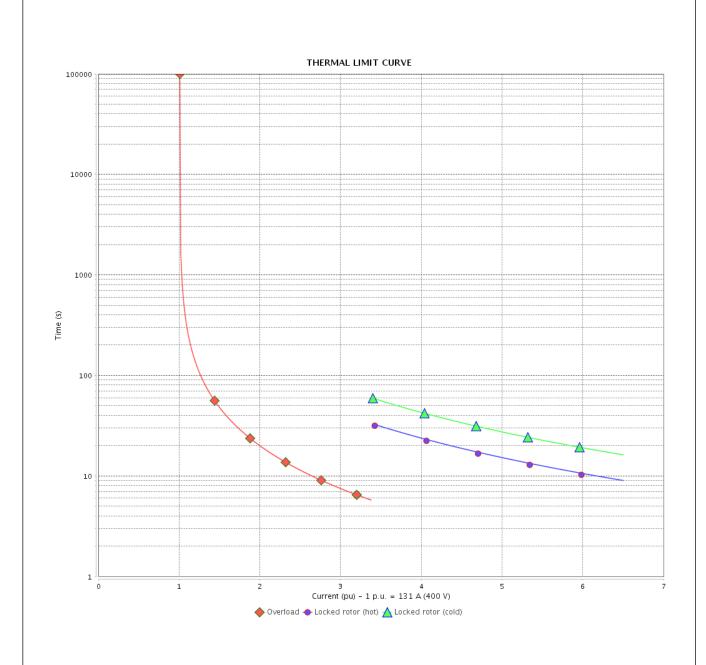


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11355410 10018ET3ER	B405T-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.5 : 356 ft.lb : 210 % : 229 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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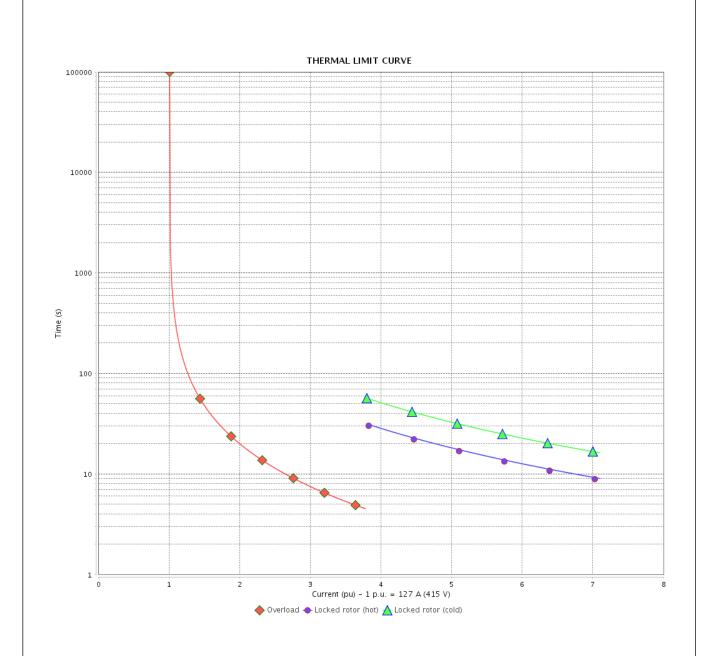


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Product line	: 1	NEMA Premium Efficiency	Three- I	Product code :	11355410	
	Pi	nase	(Catalog # :	10018ET3ER	B405T-W22
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Performance	: 41	15 V 50 Hz 4P IE2				
Rated current	: 12	27 A	Moment of	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.		Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torc		56 ft.lb 20 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie : 25	50 %	Temperatu		: 105 K	
Rated speed	: 14	175 rpm	Design		: B	
Heating constant						
Cooling constant			Т			
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

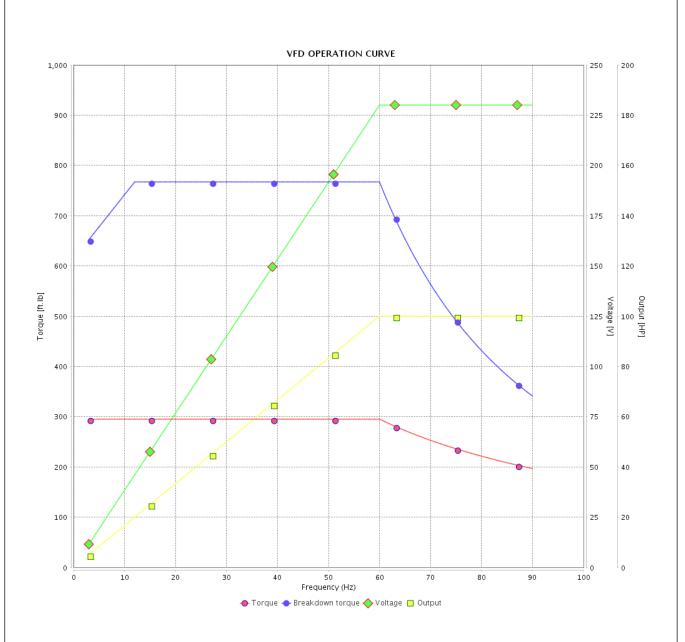
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355410

Catalog #: 10018ET3ERB405T-W22

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: 230/460 V 60 H	z 4P		
: 226/113 A : 7.3 : 295 ft.lb que : 240 % ue : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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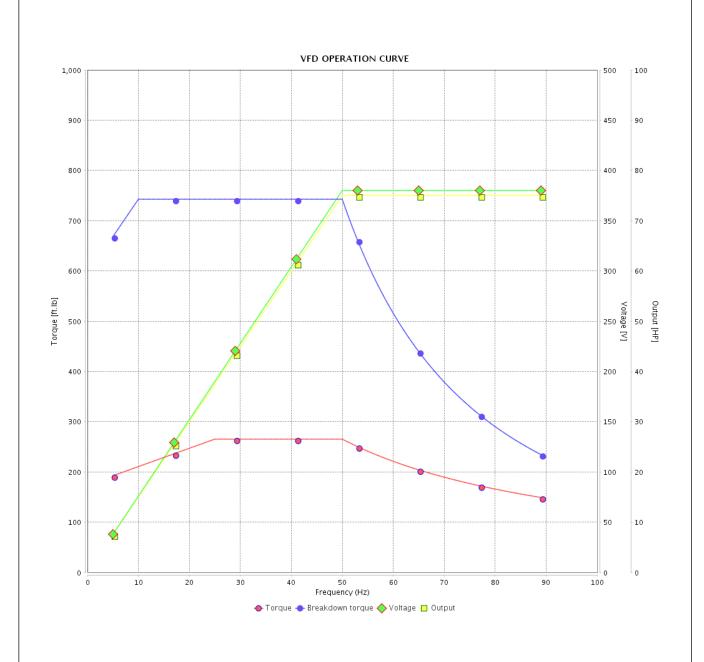
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Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2 ie : 2	02 A .7 65 ft.lb 60 % 80 % 485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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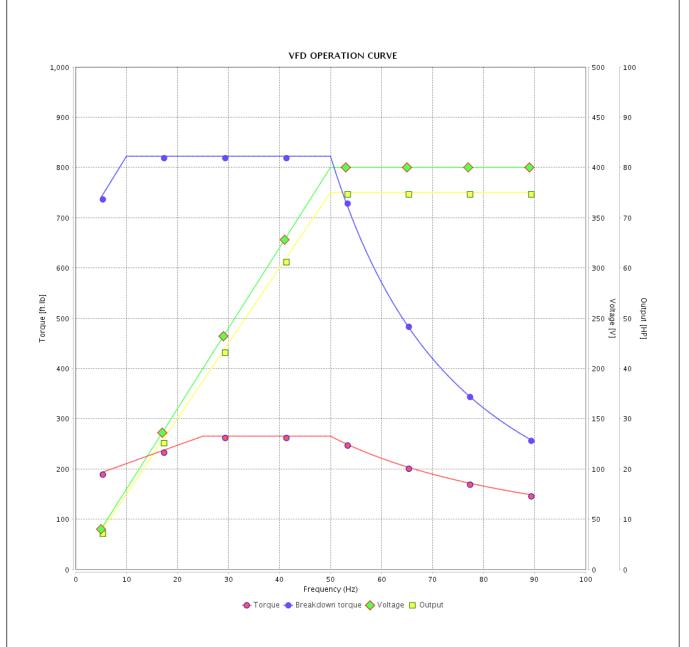
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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8.4 : 26 ue : 28 e : 31	65 ft.lb 80 % 0 %	Duty cycle Insulation Service fa Temperati	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
Rated speed		85 rpm	Design	D - "f - ""	: B	D-4-
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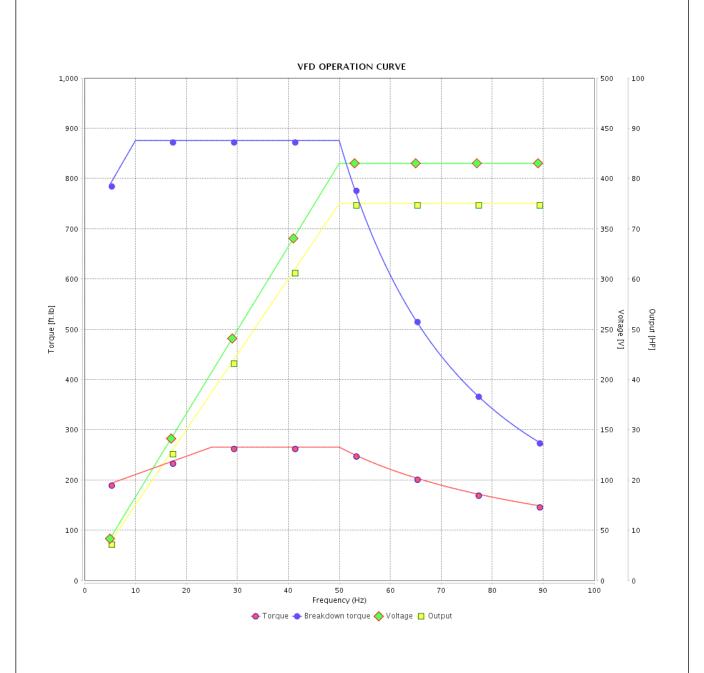


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Performance	: 4	415 V 50 Hz 4P IE3				
Rated current	: 9	95.9 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	3.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	265 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	290 %	Service fa	ctor	: 1.00	
Breakdown torque	: ;	330 %	Temperati	Temperature rise		
Rated speed	: '	1485 rpm	Design		: B	
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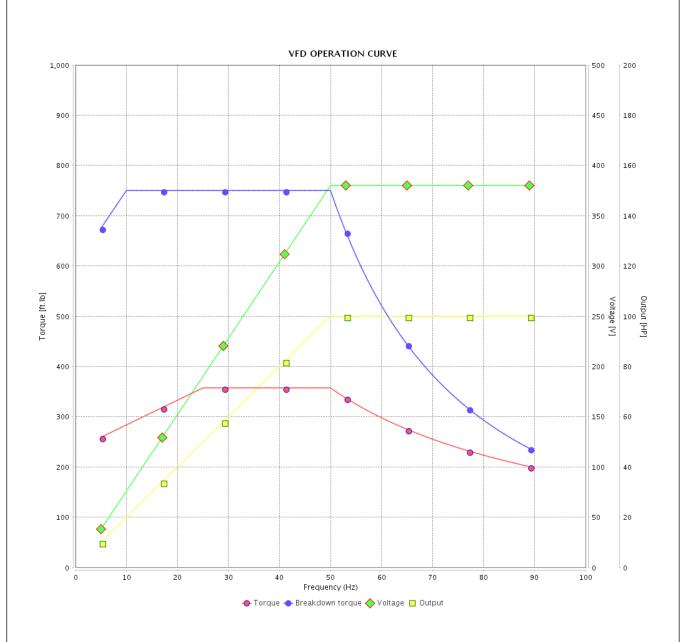
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Performance	: 3	380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 3 jue : 1 ie : 2	138 A 5.9 357 ft.lb 190 % 210 % 1470 rpm	Duty cycle : Insulation class : Service factor : Temperature rise :		: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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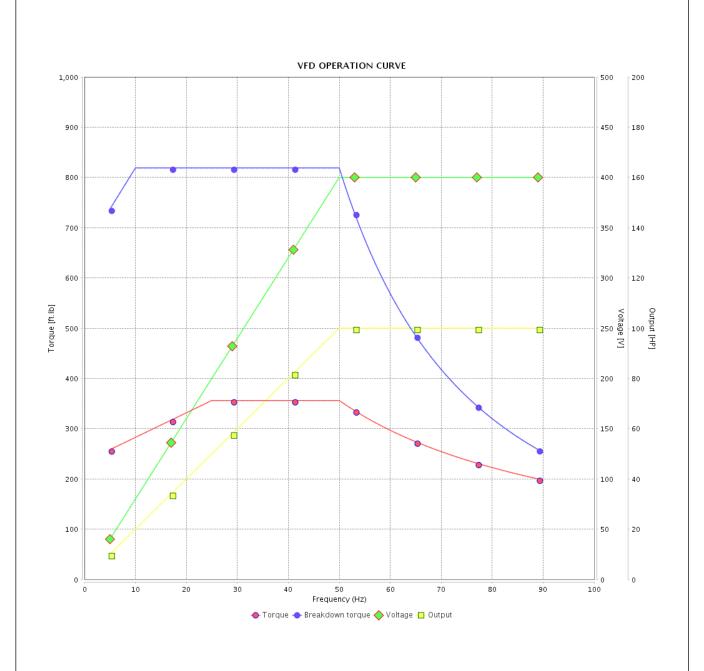
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Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 1	31 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 6	.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	56 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	29 %	Temperature rise		: 105 K	
Rated speed	: 1	475 rpm	Design		: B	
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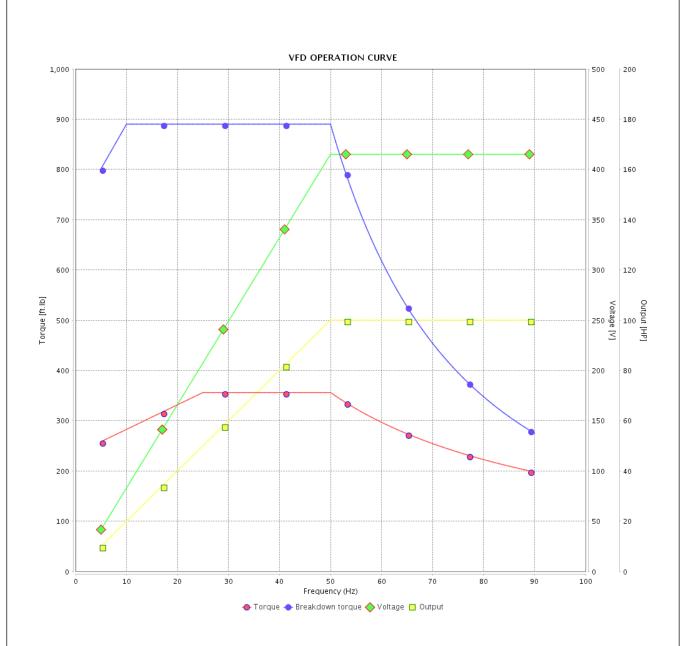
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Performance : 415 V 50 Hz 4P IE2 : 127 A Rated current Moment of inertia (J) : 29.9 sq.ft.lb : 7.1 **LRC** Duty cycle : Cont.(S1) : 356 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

