DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-W22

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1178 lb
Protection degree : IP55 Moment of inertia (J) : 29.9 sq.ft.lb

Protection degree	Protection degree			Momer	nt of inertia (J)	: 2	9.9 sq.ft.lb	
Design		: B						
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]		460	380	400	415	380	400	415
Rated current [A]		113	102	98.3	95.9	138	131	127
L. R. Amperes [A]		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 G)	7.1x(Code H)
No load current [A]]	38.0	37.6	40.1	42.0	37.6	40.1	42.0
Rated speed [RPN	1]	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 (%)	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
I OWELL ACTOL	75%	0.84	0.83	0.81	0.79	0.86	0.85	0.84
	100%	0.87	0.86	0.85	0.84	0.88	0.88	0.87

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

Bearing type : NU-316 C3 6314 C3 Max. traction : 2083 lb
Sealing : WSeal WSeal Max. compression : 3261 lb
Lubrication interval : 7000 h

Lubricant amount : 34 g 27 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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Three Phase Induction Motor - Squirrel Cage

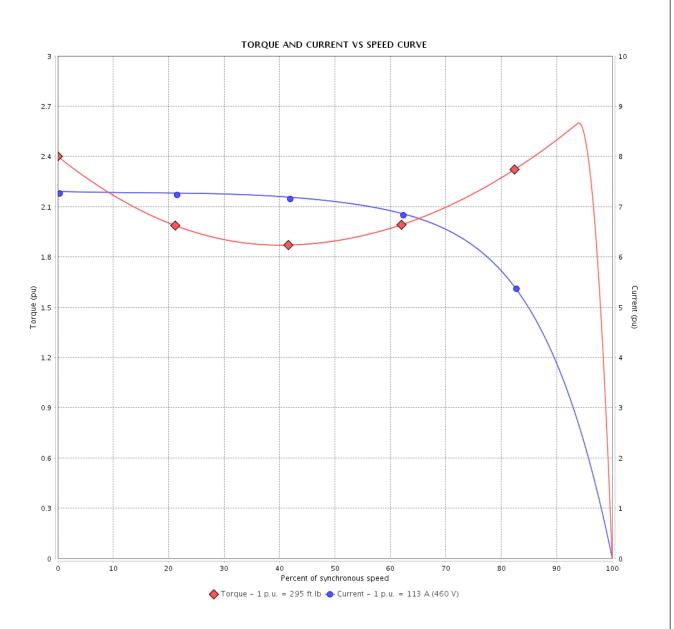


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-W22



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

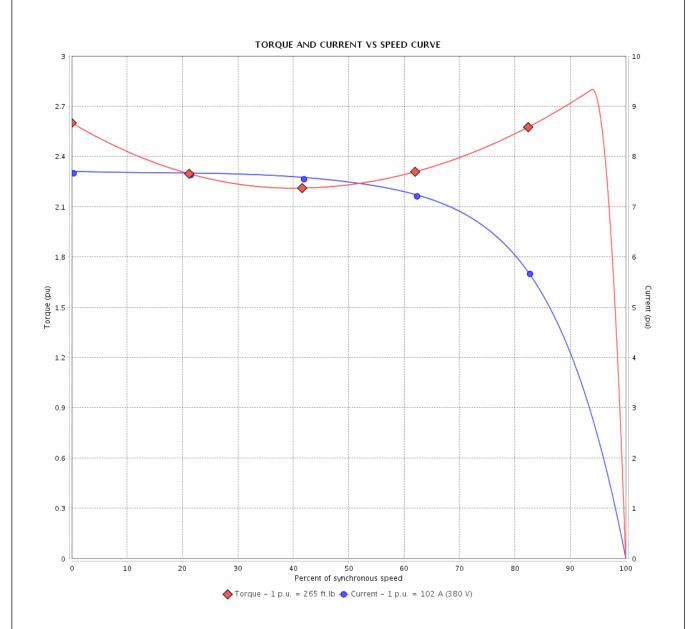
Locked rotor time : 23s (cold) 13s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11356028 Catalog #: 10018ET3GRB405T-W22



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)

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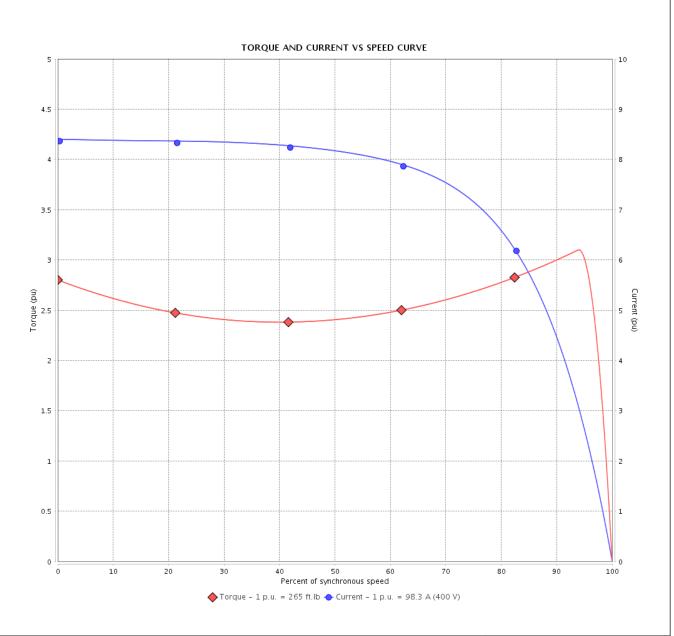
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356028

Catalog #: 10018ET3GRB405T-W22



: 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: 11356028 Catalog #: 10018ET3GRB405T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 95.9 A (415 V) 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 Locked rotor time : 16s (cold) 9s (hot) Rev. **Changes Summary** Performed Checked Date Performed by

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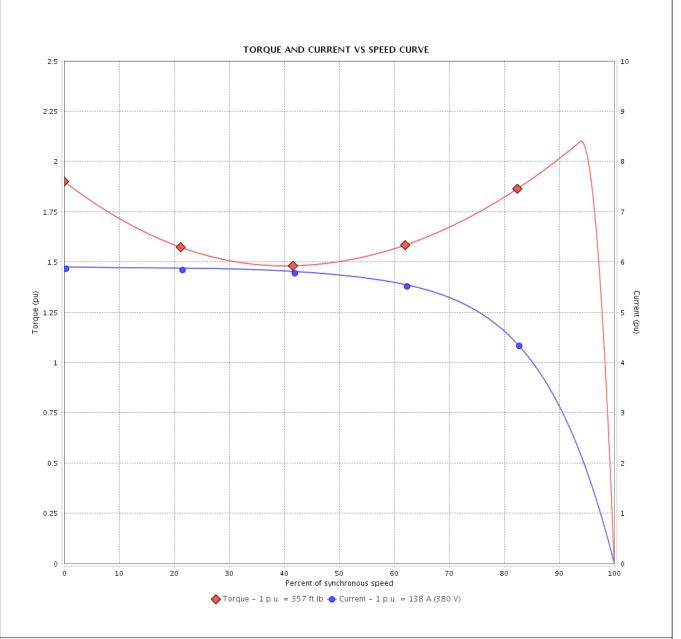


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-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) Insulation class Rated torque : 357 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

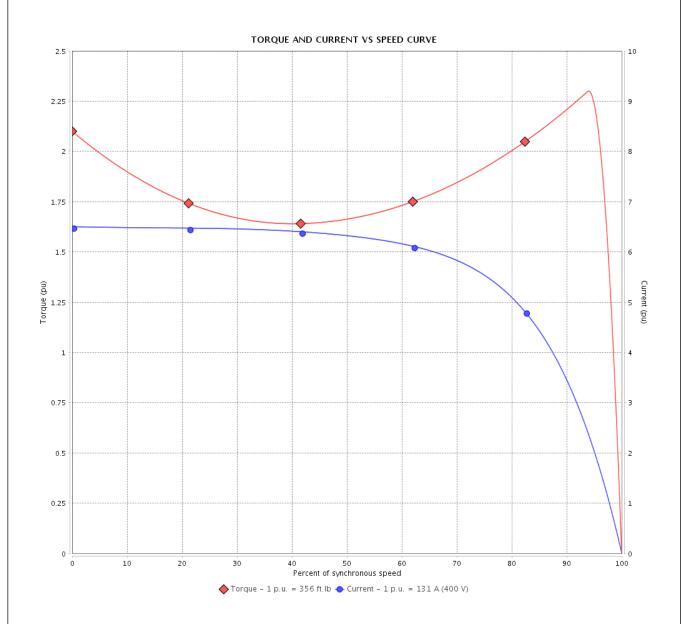
Locked rotor time : 16s (cold) 9s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11356028 Catalog #: 10018ET3GRB405T-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)
Rated torque	: 356 ft.lb	Insulation class	: 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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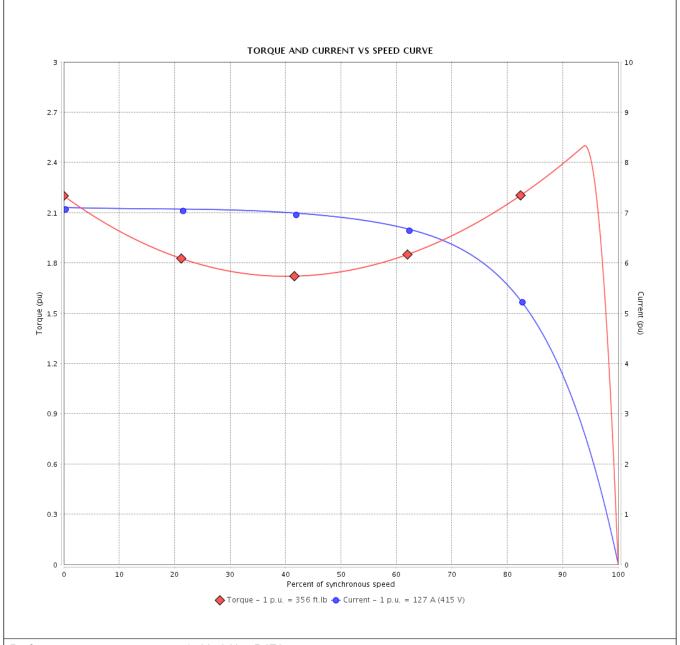
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 11356028

Catalog #: 10018ET3GRB405T-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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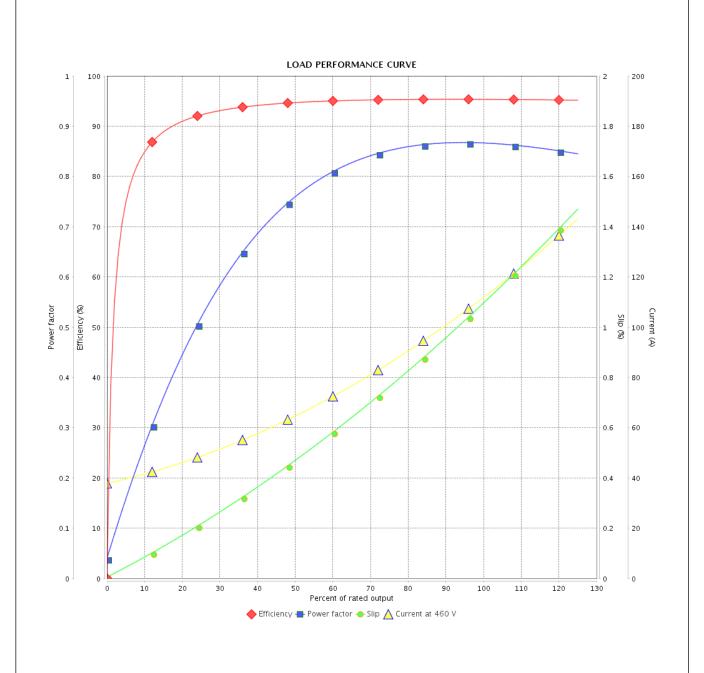


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-W22



Performance	:	460 V 60 Hz 4P				
Rated current	:	113 A	Moment of	f 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	e :	240 %	Service fa	ctor	: 1.25	
Breakdown torque	:	260 %	Temperati	Temperature rise		
Rated speed	:	1780 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code : 11356028

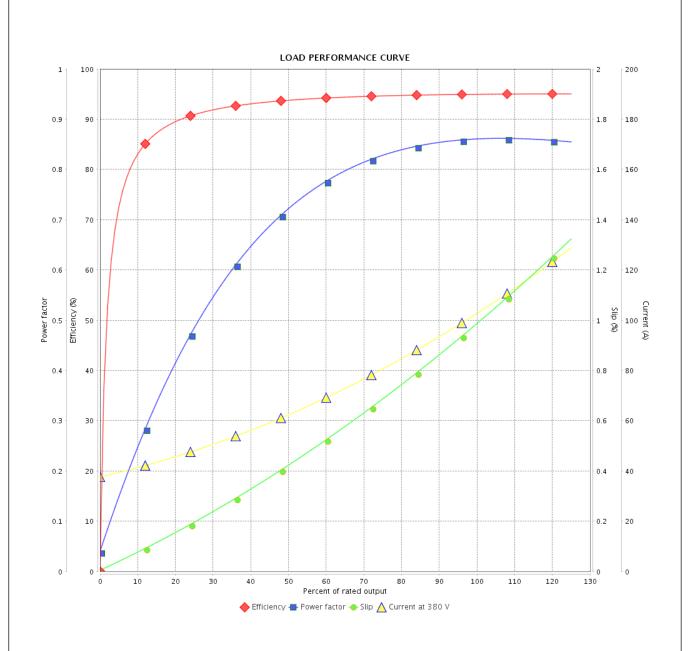
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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.7 : 265 ft.lb : 260 % : 280 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise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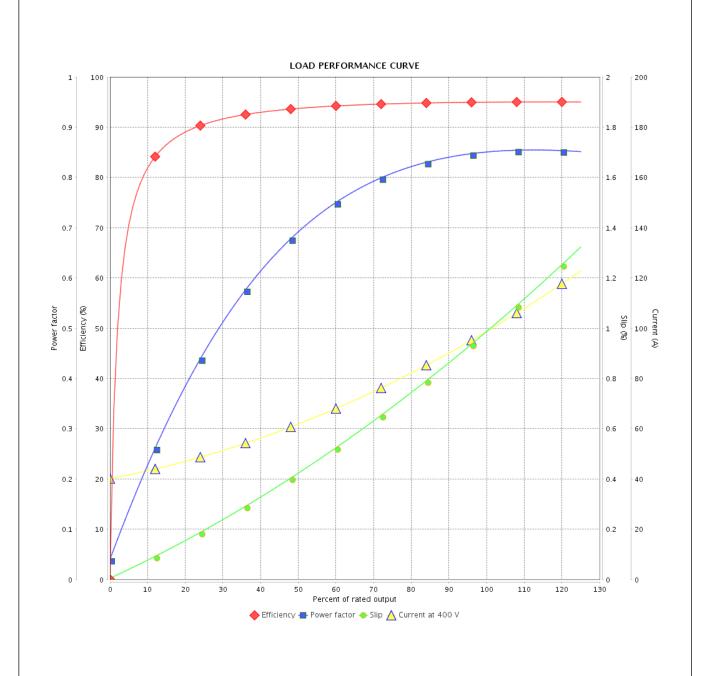
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3GRB405T-W22

11356028



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current	ted current : 98.3 A		Moment of	Moment of inertia (J)		
LRC	: 8	4	Duty cycle)	: Cont.(S1)	
Rated torque	: 20	65 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 28	30 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 3	10 %	Temperat	ure rise	: 80 K	
Rated speed		485 rpm	Design	Design		
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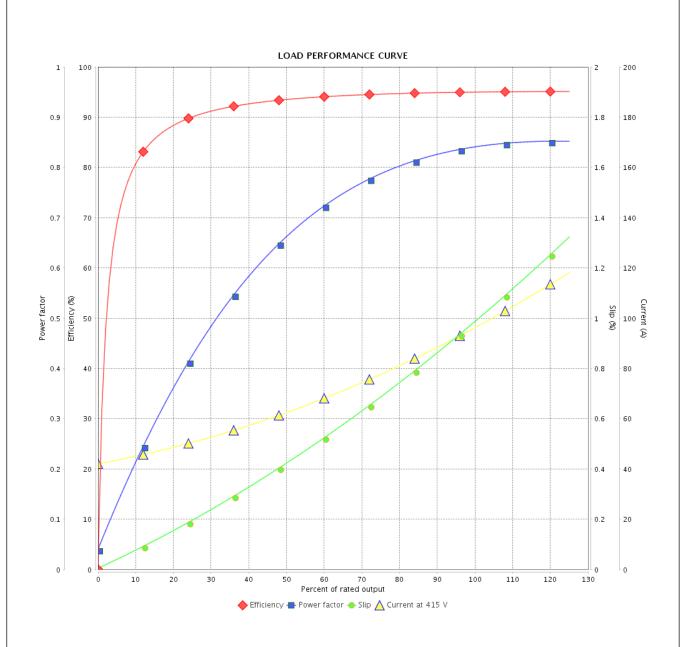
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11356028

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

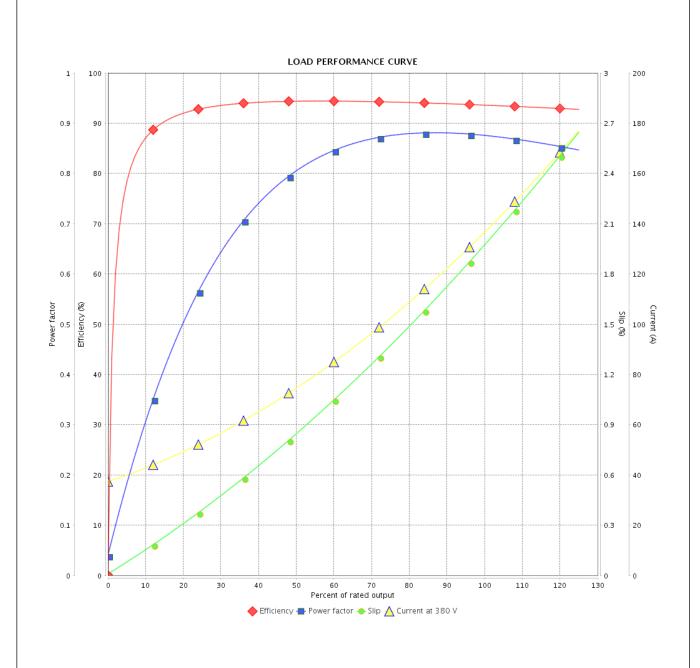


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-W22



Performance	: 3	380 V 50 Hz 4P IE1				
Rated current	: 1	138 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 5	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	357 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	190 %	Service fa	ctor	: 1.00	
Breakdown torque		210 %	Temperati	Temperature rise		
Rated speed	: 1	1470 rpm	Design		: B	
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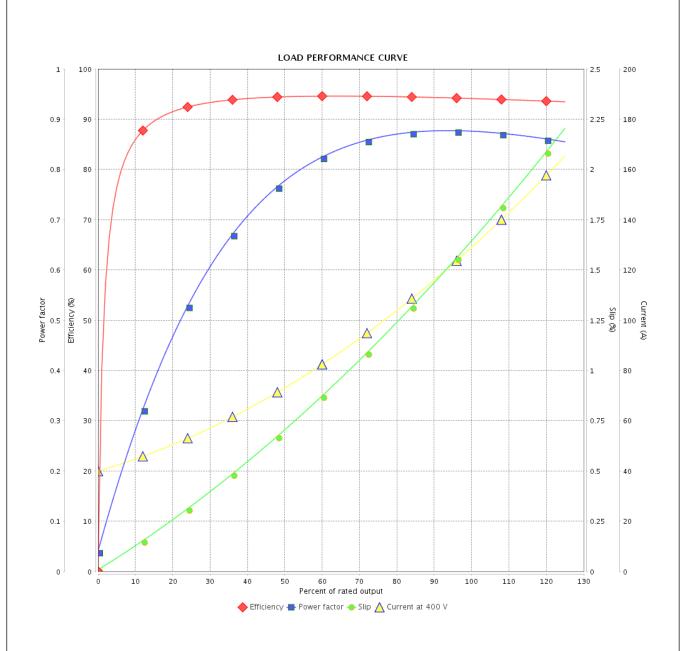
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11356028

Catalog # : 10018ET3GRB405T-W22

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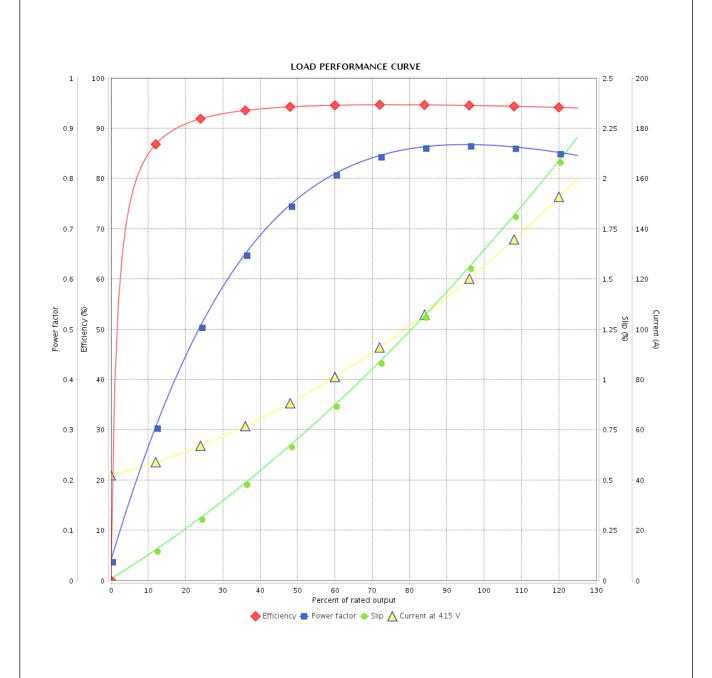


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11356028

Phase

Catalog #: 10018ET3GRB405T-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 1	27 A	A Moment of inertia (J)		: 29.9 sq.ft.lb	
LRC	: 7	.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	56 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torqu			ıre rise	: 105 K		
Rated speed	: 1	475 rpm	Design		: B	
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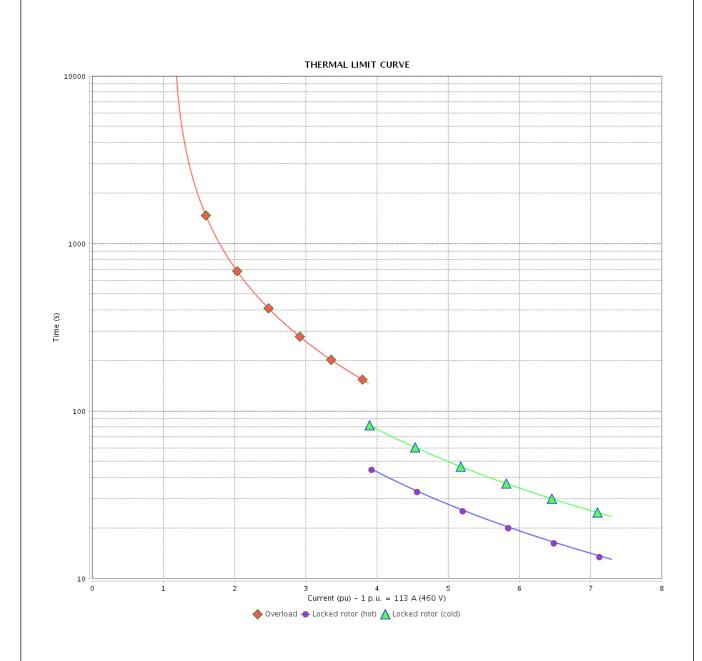


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog #:	11356028 10018ET3GF	RB405T-W22
Performance	: 460 V 60 Hz 4P			
Rated current LRC	: 113 A : 7.3	Moment of inertia (J) Duty cycle	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 295 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 260 % : 1780 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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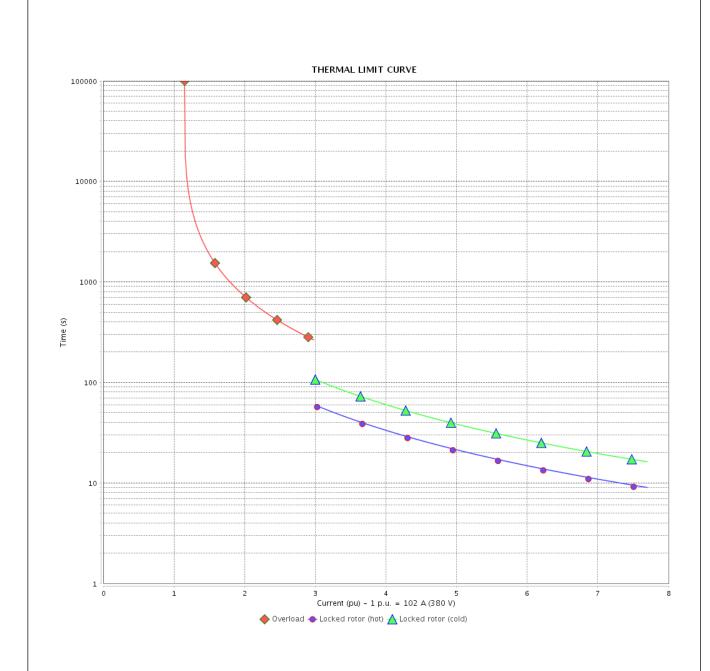


Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		roduct code :	11356028	
		C	catalog # :	10018ET3GR	B405T-W22
Performance	: 380 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 102 A : 7.7 : 265 ft.lb : 260 % : 280 % : 1485 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 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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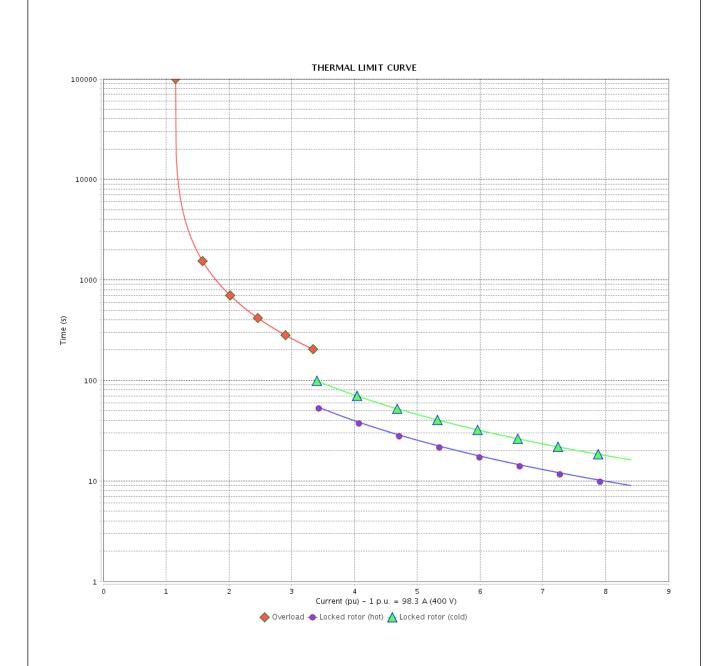


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Customer	: 				
Product line	: NEMA Premium Efficiency Phase	Three- Pro	oduct code :	11356028	
	Tridoc	Ca	talog # :	10018ET3GR	B405T-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.3 A : 8.4 : 265 ft.lb : 280 % : 310 % : 1485 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ass or	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	. 1 700 (piii	Design			
Heating constant					
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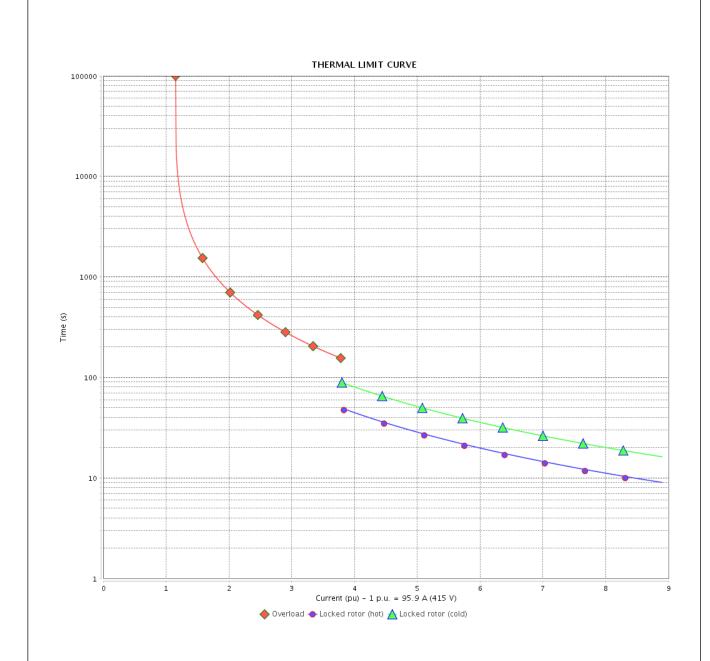


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Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three- P	roduct code :	11356028	
	Thuse	С	atalog # :	10018ET3GR	B405T-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.9 A : 8.9 : 265 ft.lb : 290 % : 330 % : 1485 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant					
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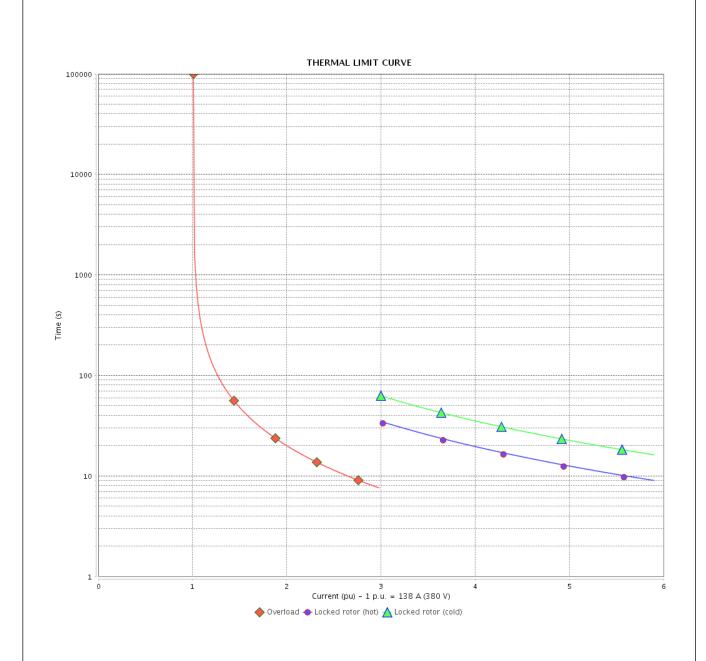


Customer	:				
Product line	: NEMA Premium Efficienc	y Three-	Product code :	11356028	
	Phase		Catalog # :	10018ET3GF	RB405T-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 138 A : 5.9 : 357 ft.lb : 190 % : 210 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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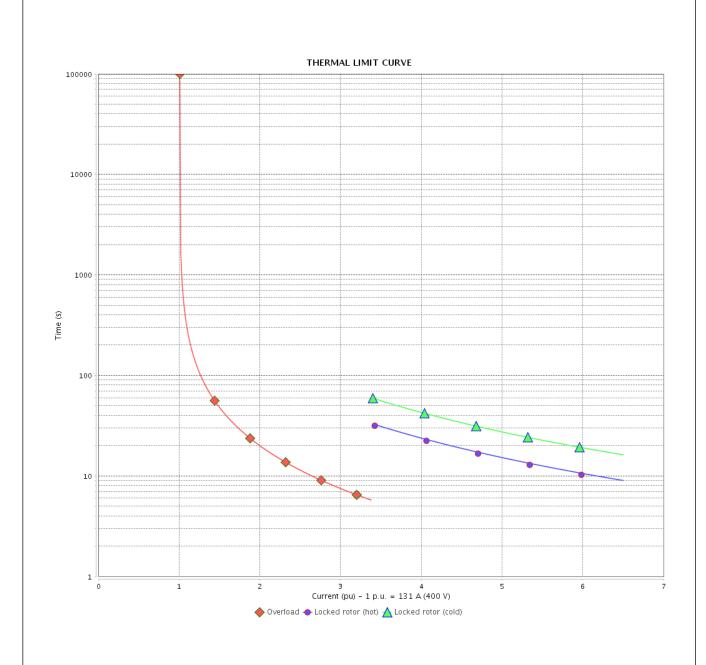


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356028 10018ET3GR	B405T-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 131 A : 6.5	Duty cycle		: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 356 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 229 %	Temperat		: 105 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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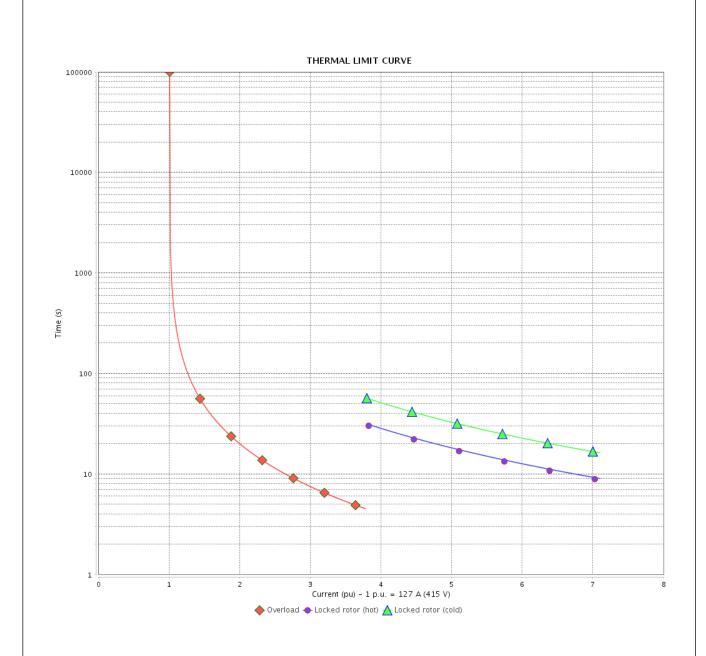


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11356028 10018ET3GR	B405T-W22
Denfermen		· 445 \/ 50 LI= 4D LEO				
Performance Rated current		: 415 V 50 Hz 4P IE2 : 127 A	Moment o	of inertia (J)	: 29.9 sq.ft.lb	
LRC		: 7.1	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 356 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 105 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Commercial		Douts were!	Charles	Data
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Product line : NEMA Premium Efficiency Three-

Phase

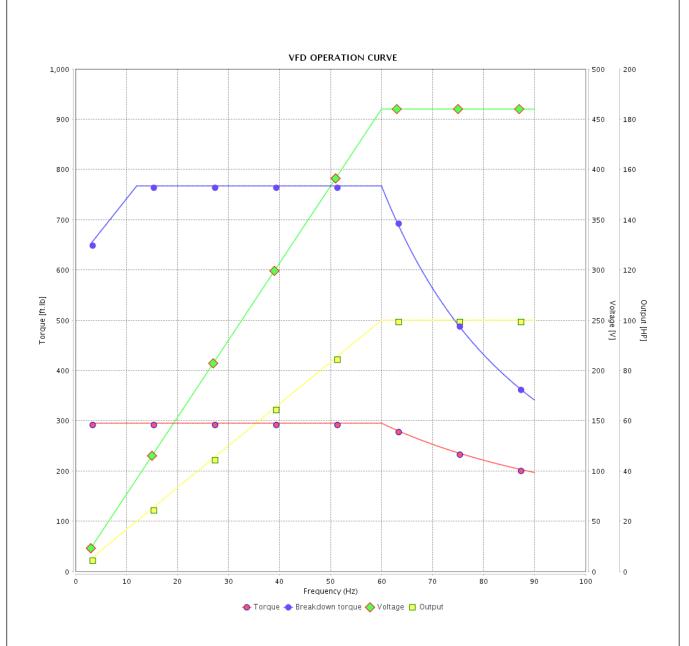
Product code: 11356028

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Performance		: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 113 A : 7.3 : 295 ft.lb : 240 % : 260 % : 1780 rpm	Moment of Duty cycl Insulation Service fa Temperation	class actor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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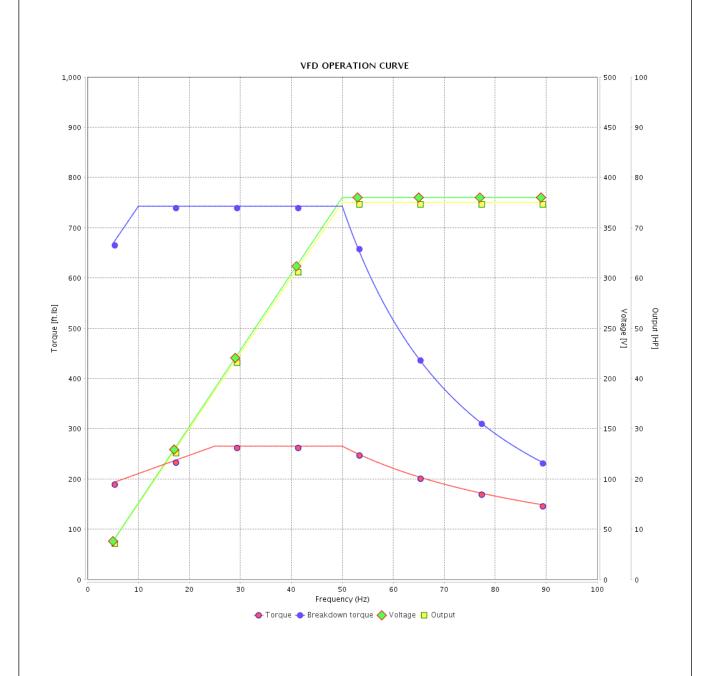
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 1	02 A	2 A Moment of inertia (J)		: 29.9 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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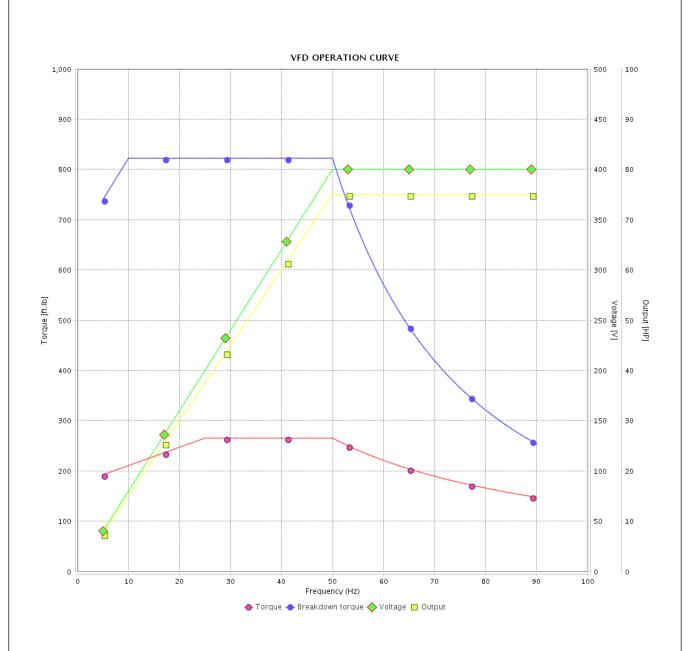
Product line : NEMA Premium Efficiency Three-

Phase

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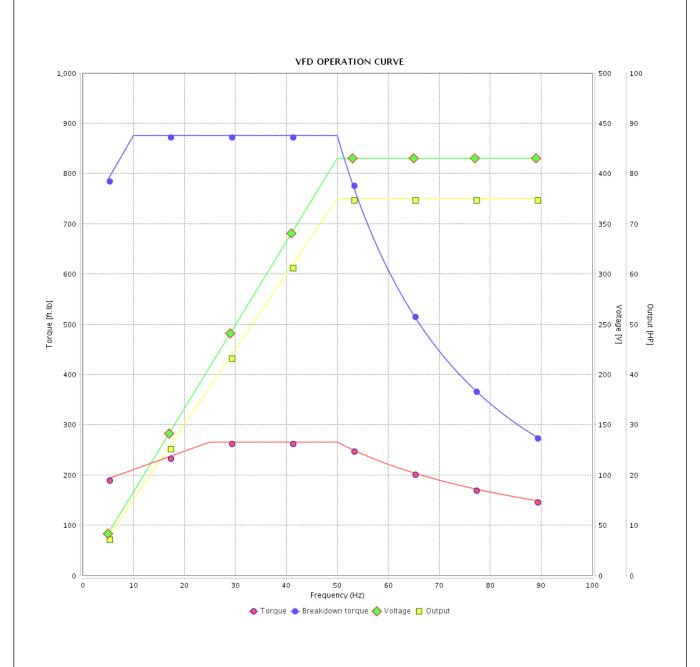


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Phase

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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 9	5.9 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	.9	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 3	30 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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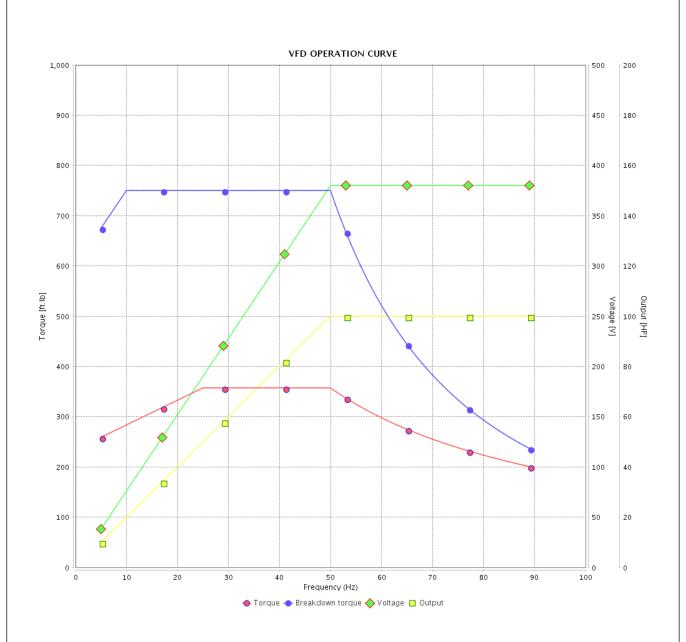
Product line : NEMA Premium Efficiency Three-

Phase

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

Three Phase Induction Motor - Squirrel Cage



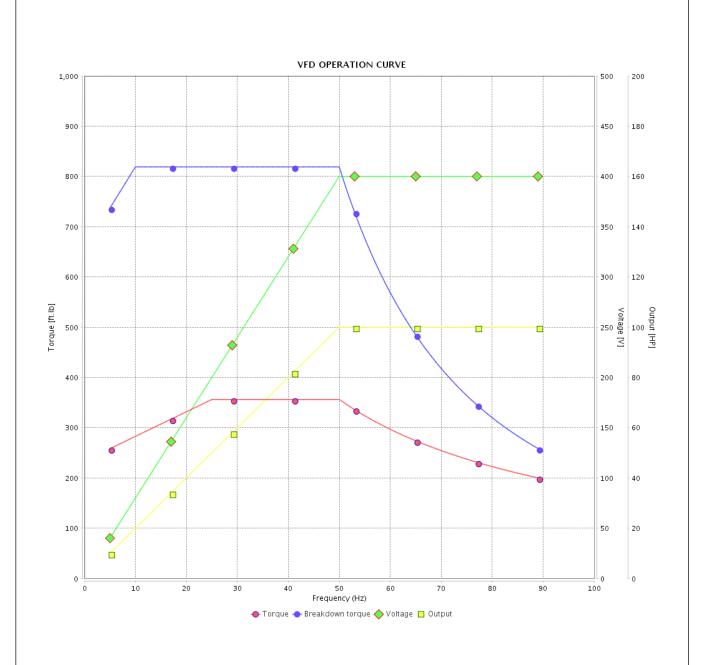
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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.5 : 356 ft.lb : 210 % : 229 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise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

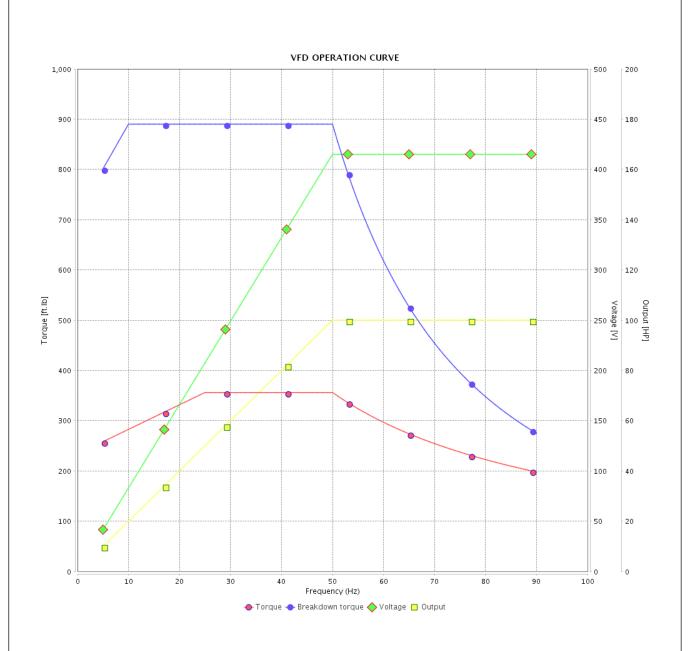
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Performance : 415 V 50 Hz 4P IE2 : 127 A Rated current Moment of inertia (J) : 29.9 sq.ft.lb : 7.1 **LRC** Duty cycle : Cont.(S1) : 356 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250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

