DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11438076

270

Catalog #: 05018ET3E326T-W22

Frame : 324/6T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Approx. weight3 : 594 lb Altitude Moment of inertia (J) : 9.16 sq.ft.lb

Protection degree : IP55

Design	: B						
Output [HP]	50	40	40	40	50	50	50
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]	118/59.2	58.7	57.1	56.4	71.6	68.4	66.3
L. R. Amperes [A]	734/367	376	400	417	372	397	411
LRC [A]	6.2x(Code	6.4x(Code	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code
	G)	G)					G)
No load current [A]	47.0/23.5	23.0	24.0	25.0	23.0	24.0	25.0
Rated speed [RPM]	1775	1470	1475	1478	1460	1465	1470
Slip [%]	1.39	2.00	1.67	1.47	2.67	2.33	2.00
Rated torque [ft.lb]	148	143	142	142	180	179	179
Locked rotor torque [%]	229	229	250	260	180	200	210

Breakdown torque [%] Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K Locked rotor time 27s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 19s (cold) 15s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) 11s (hot) Noise level² 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 93.0 92.5 91.5 91.5 93.0 92.4 92.4 Efficiency (%) 75% 94.1 93.1 92.8 93.0 93.0 93.0 93.0 100% 94.5 93.6 93.6 92.4 93.0 93.5 93.6 25%

300

330

210

240

260

0.64 0.60 0.72 0.65 50% 0.66 0.57 0.68 Power Factor 75% 0.77 0.77 0.73 0.70 0.81 0.79 0.76 100% 0.83 0.83 0.81 0.79 0.85 0.84 0.83 Drive end Non drive end Foundation loads

Bearing type 6312 C3 6212 C3 Max. traction : 1485 lb V'Ring V'Ring : 2080 lb Sealing Max. compression Lubrication interval 20000 h 20000 h

13 g

260

21 g Lubricant type Mobil Polyrex EM

Notes USABLE @208V 131A SF 1.15 SFA 151A

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.

Lubricant amount

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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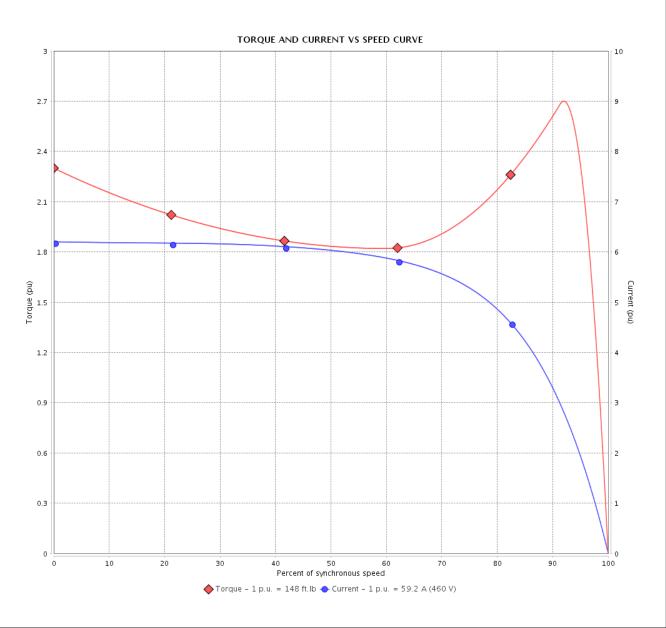
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

Catalog #: 05018ET3E326T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 118/59.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11438076 Catalog #: 05018ET3E326T-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. = 143 ft.lb ◆ Current - 1 p.u. = 58.7 A (380 V)

Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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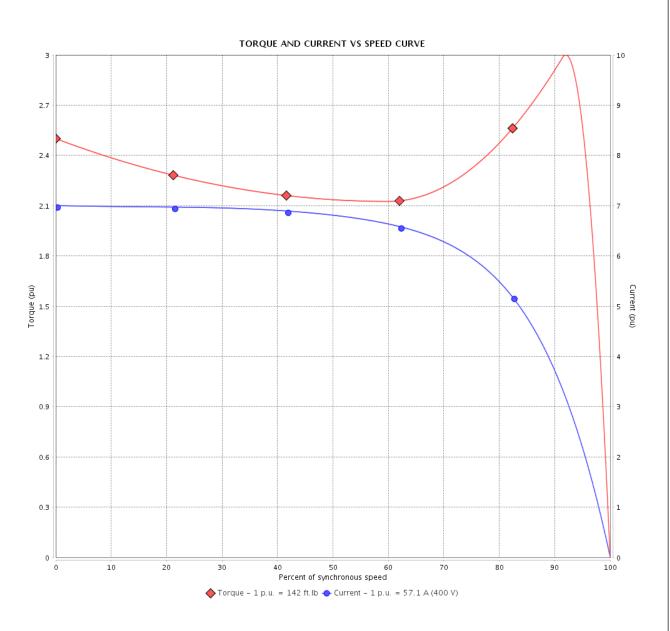
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

Catalog #: 05018ET3E326T-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 57.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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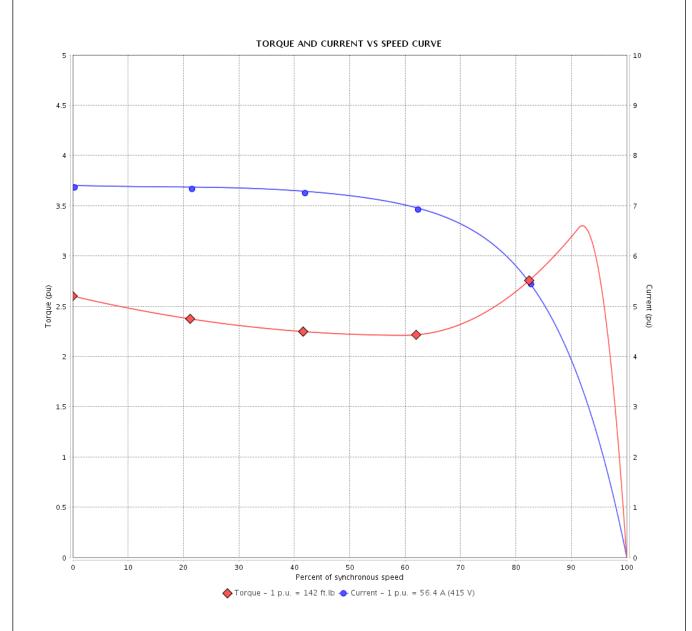
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11438076

Catalog #: 05018ET3E326T-W22



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 56.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 142 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1478 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)			

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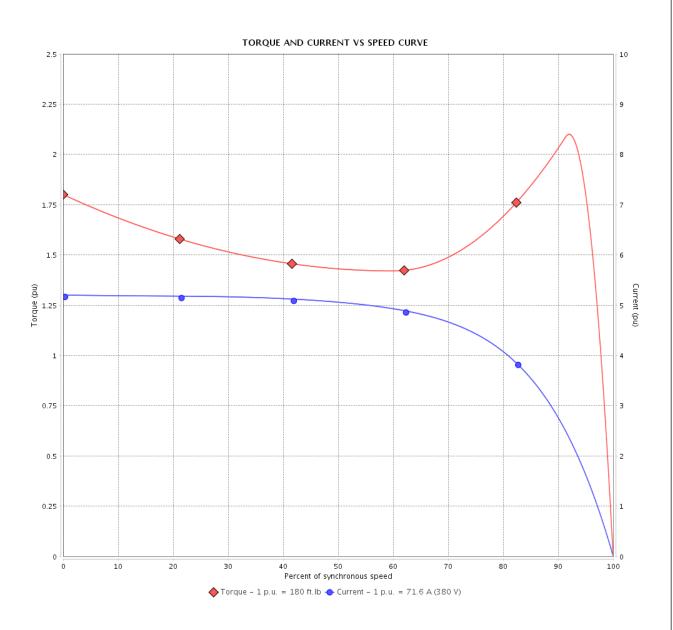
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

Catalog #: 05018ET3E326T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 71.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 180 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11438076 Catalog #: 05018ET3E326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 179 ft.lb ◆ Current - 1 p.u. = 68.4 A (400 V)

Performance : 400 V 50 Hz 4P IE2 Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 179 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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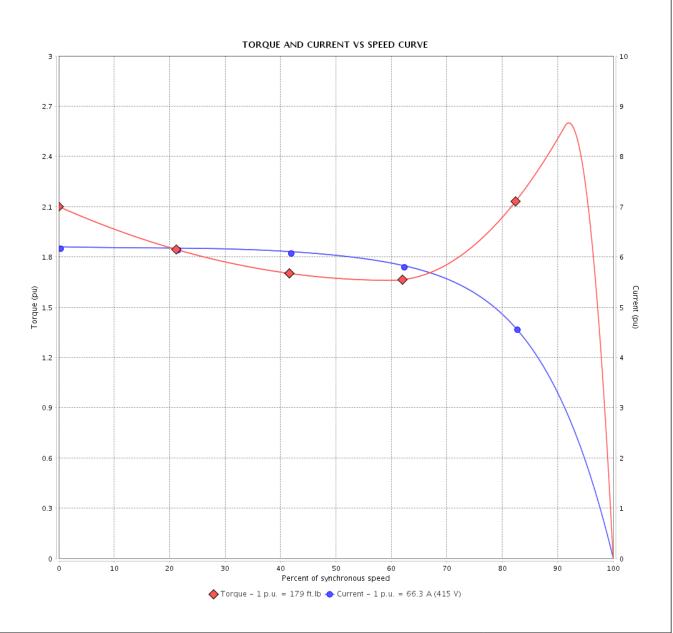
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Phase

Product code: 11438076

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Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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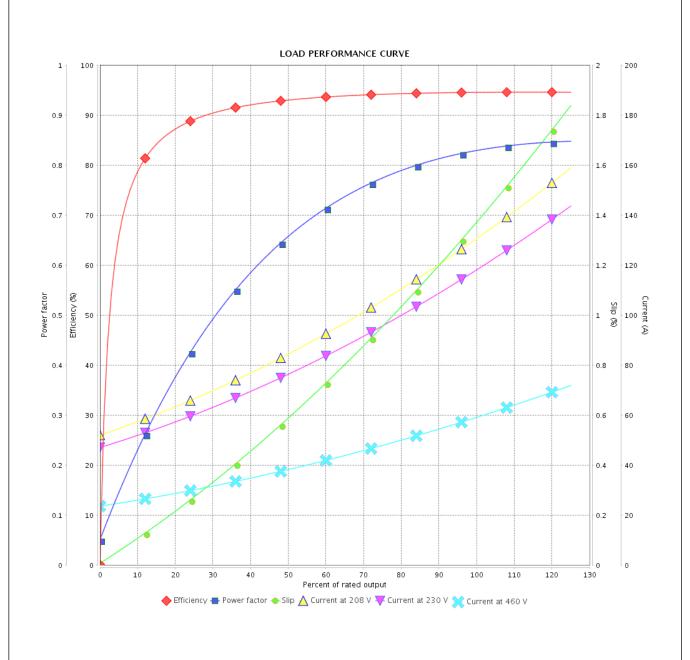


Customer

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Phase

Catalog #: 05018ET3E326T-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	118/59.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	6.2	Duty cycle	}	: Cont.(S1)	
Rated torque	:	148 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.25	
Breakdown torque	:	270 %	Temperature rise		: 80 K	
Rated speed	:	1775 rpm	Design		: B	
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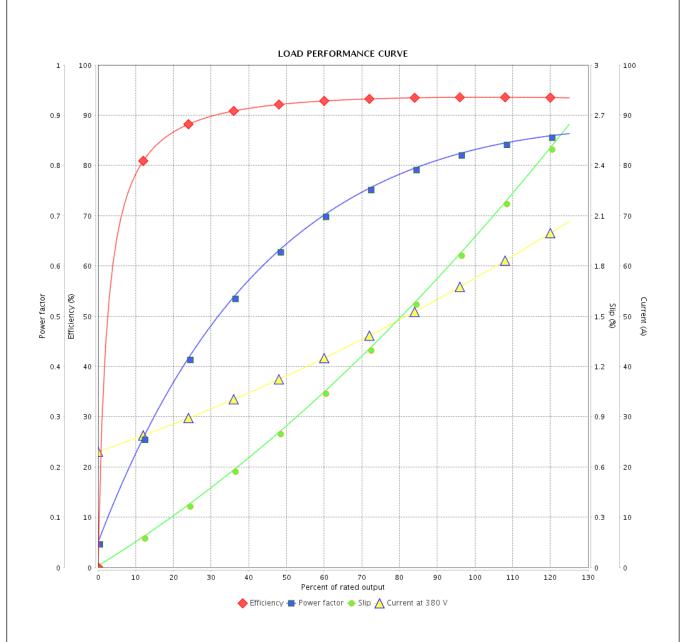
Customer :

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Phase

Product code: 11438076

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 143 ft.lb : 229 % : 260 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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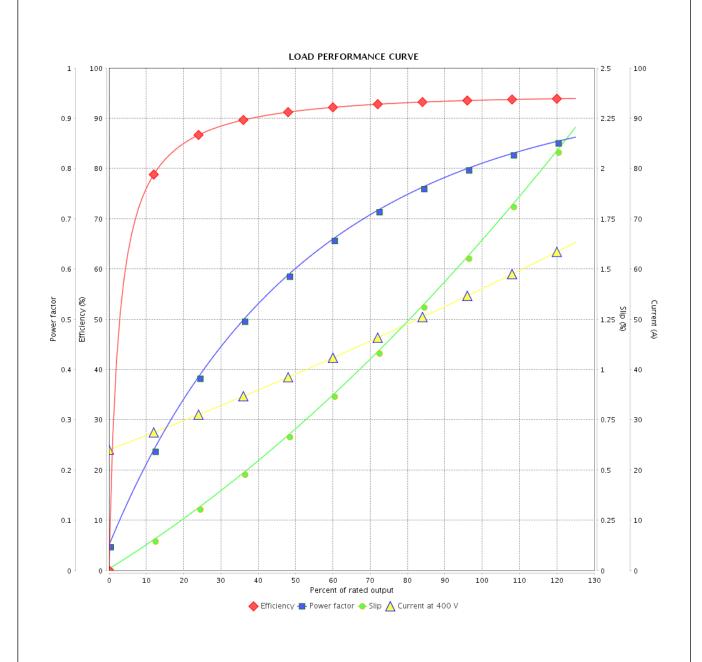


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11438076

Phase

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Domformon		00 \/ 50 - 40 50				
Performance	erformance : 400 V 50 Hz 4P IE3					
Rated current	: 5	7.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	.0	Duty cycle	:	: Cont.(S1)	
Rated torque		42 ft.lb	Insulation	class	: F	
Locked rotor torque		50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3			ıre rise	: 80 K	
Rated speed	: 1			Design		
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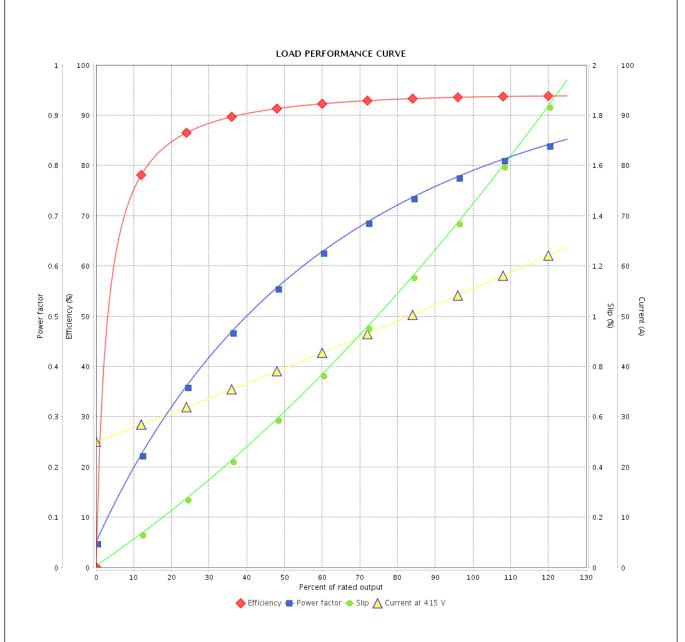
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 11438076

Catalog #: 05018ET3E326T-W22



Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 56.4 A			: 9.16 sq.ft.lb	
LRC Rated torque	: 7.4 : 142 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 260 % : 330 %	: 330 % Temperature rise		: 1.00 se : 80 K	
Rated speed	: 1478 rpm			: B	
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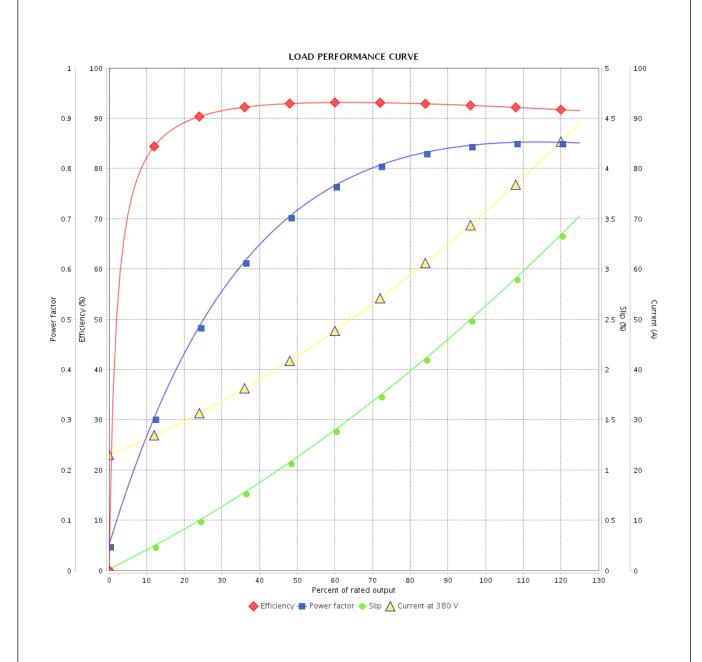


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Product line : NEMA Premium Efficiency Three- Product code : 11438076

Phase

Catalog #: 05018ET3E326T-W22



Performance	: 380 V 50 Hz 4P IE1					
Rated current	: 7	71.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	180 ft.lb	Insulation	class	:F	
Locked rotor torque		180 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	210 %	Temperature rise		: 105 K	
Rated speed	: 1	1460 rpm	Design		: B	
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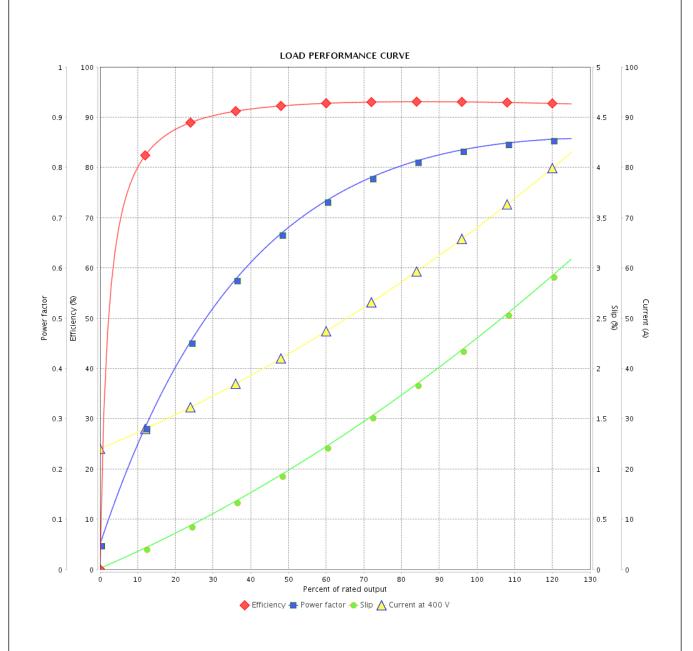
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

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Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 68.4 A : 5.8 : 179 ft.lb : 200 % : 240 % : 1465 rpm	b Insulation class Service factor Temperature rise		
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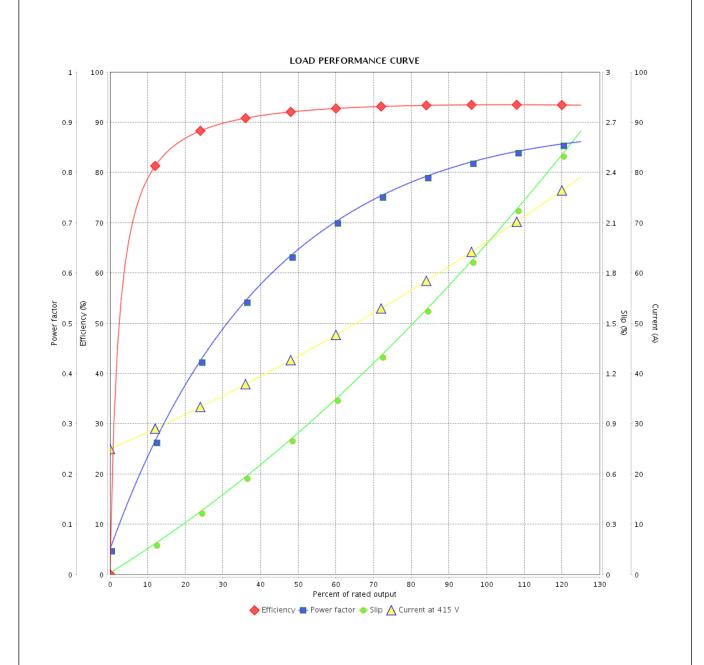


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11438076

Phase

Catalog #: 05018ET3E326T-W22



Performance : 415 V 50 Hz 4P IE2						
Rated current : 66		66.3 A	1	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	79 ft.lb	Insulation	class	: F	
Locked rotor torque :		210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 260 % Temper		ıre rise	: 105 K	
Rated speed	: 1470 rpm		Design	Design		
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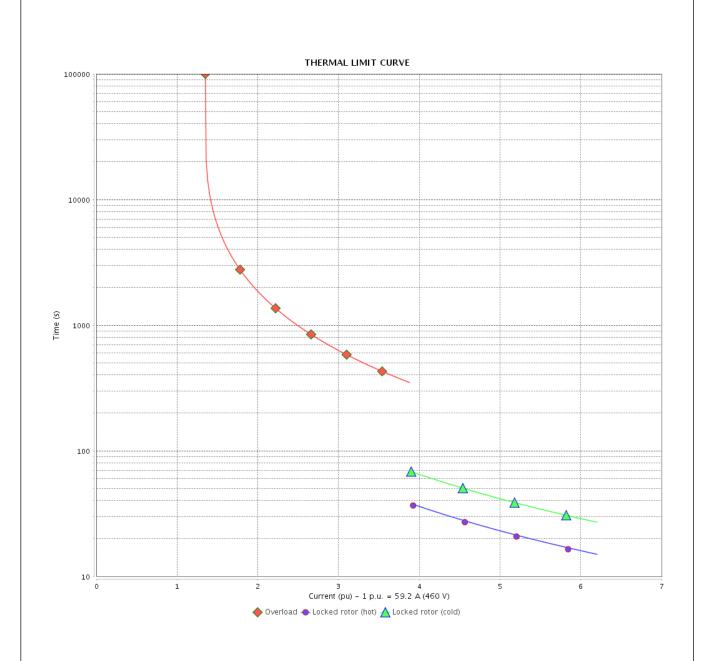


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11438076	
	PI	hase		Catalog # :	05018ET3E32	26T-W22
Performance		30/460 V 60 Hz 4P	Mamanta	finantia (I)	. 0.40 az # lb	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		48 ft.lb 29 %	Insulation Service fa	class	: F : 1.25	
Locked rotor torq Breakdown torqu	e : 27	70 %	Temperatu		: 80 K	
Rated speed		775 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Commercial		Dorform	Charles	Data
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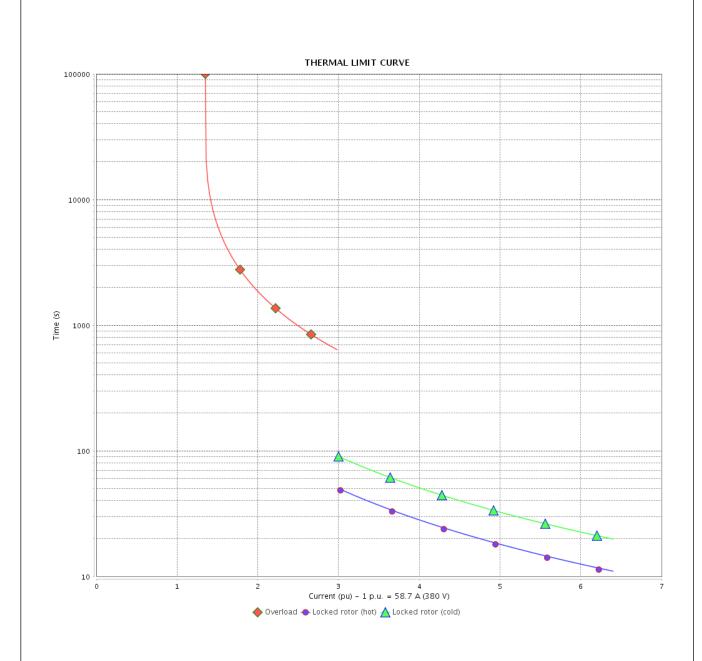


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11438076	
		Catalog #:	05018ET3E326T-W2	22
Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC	: 58.7 A : 6.4	Moment of inertia (J) Duty cycle	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 0.4 : 143 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1470 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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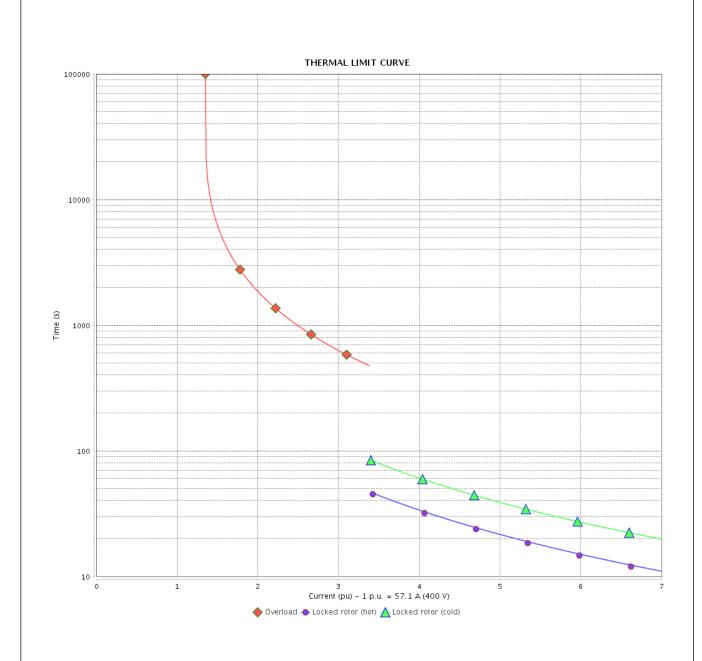


Customer		:				
Product line		· NEMA Promium Efficiency	Throo	Product code :	11/20076	
Product line		: NEMA Premium Efficiency Phase			11438076	
				Catalog # :	05018ET3E32	6T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 57.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC		: 7.0	Duty cycle)	: Cont.(S1)	
Rated torque		: 142 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		: 250 % : 300 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constant	 t					
Cooling constant						
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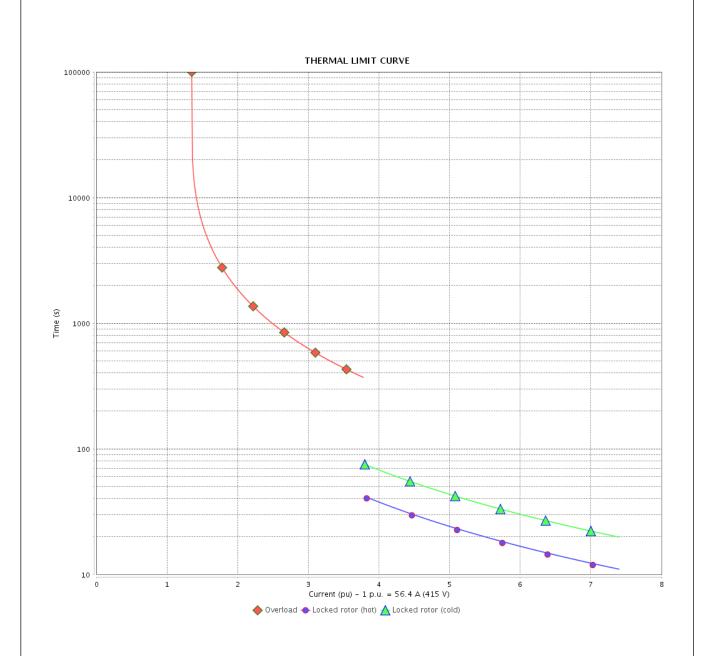


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11438076 05018ET3E32	26T-W22
Performance	:	415 V 50 Hz 4P IE3				
Rated current LRC	:	56.4 A 7.4 142 ft.lb	Moment on Duty cycle Insulation		: 9.16 sq.ft.lb : Cont.(S1) : F	
Rated torque Locked rotor tord		260 %	Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	330 % 1478 rpm	Temperati Design		: 80 K : B	
Heating constant						
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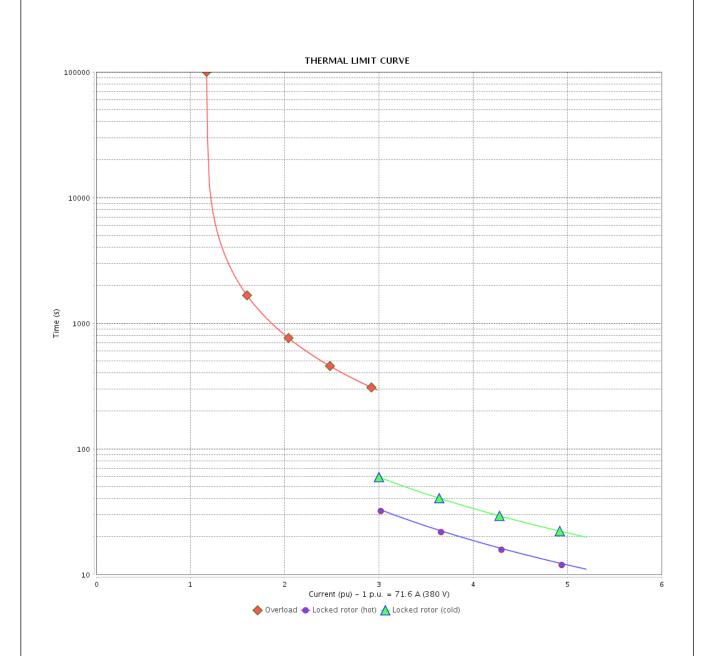


Customer	:			,	
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11438076	
	i ilase	1	Catalog # :	05018ET3E3	26T-W22
Performance Rated current	: 380 V 50 Hz 4P IE1 : 71.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque	: 180 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 210 %	Temperatu		: 105 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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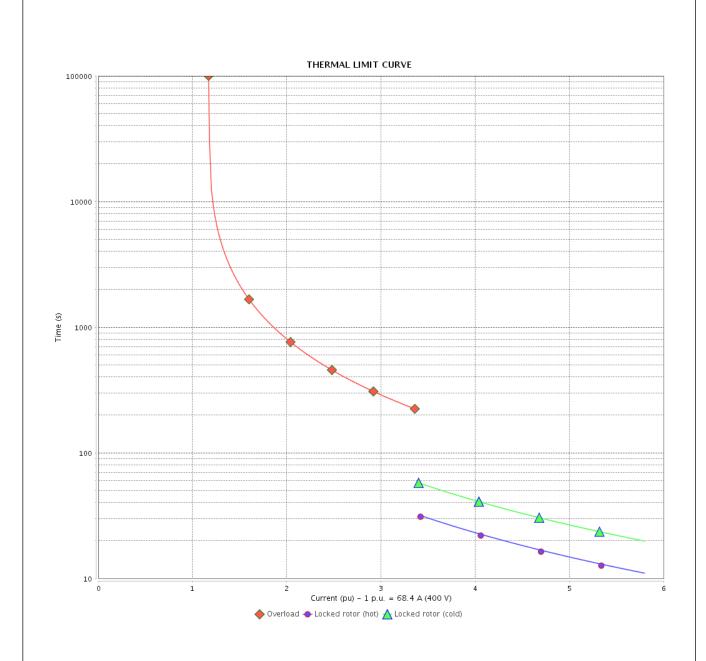


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11438076	
	Phase		Catalog # :	05018ET3E3	326T-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 68.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
	: 5.8 : 179 ft.lb	Duty cycle Insulation	;	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 240 % : 1465 rpm	Temperatu Design	ıre rise	: 105 K : B	
	. 1 1 00 (piii	nesign		. D	
Heating constant Cooling constant					
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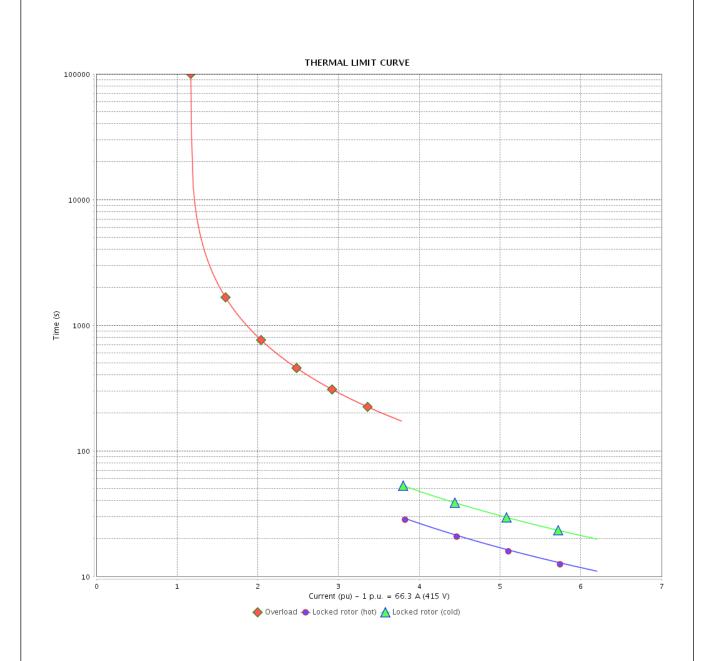


Customer	:	:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11438076 05018ET3E3	26T-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: (: : que : : :	415 V 50 Hz 4P IE2 66.3 A 6.2 179 ft.lb 210 % 260 % 1470 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three- Pro-

Phase

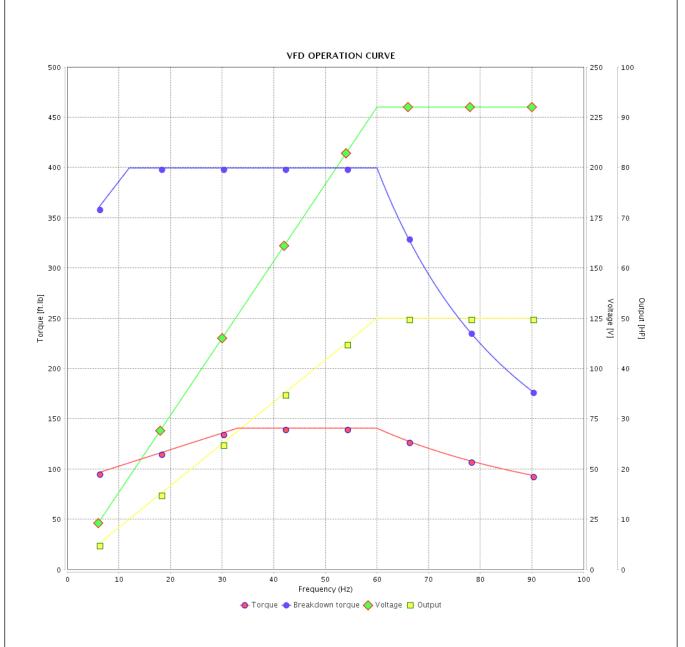
Product code: 11438076

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 118/59.2 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm	Moment of inertia (J) : 9.16 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
Performed by					

Three Phase Induction Motor - Squirrel Cage



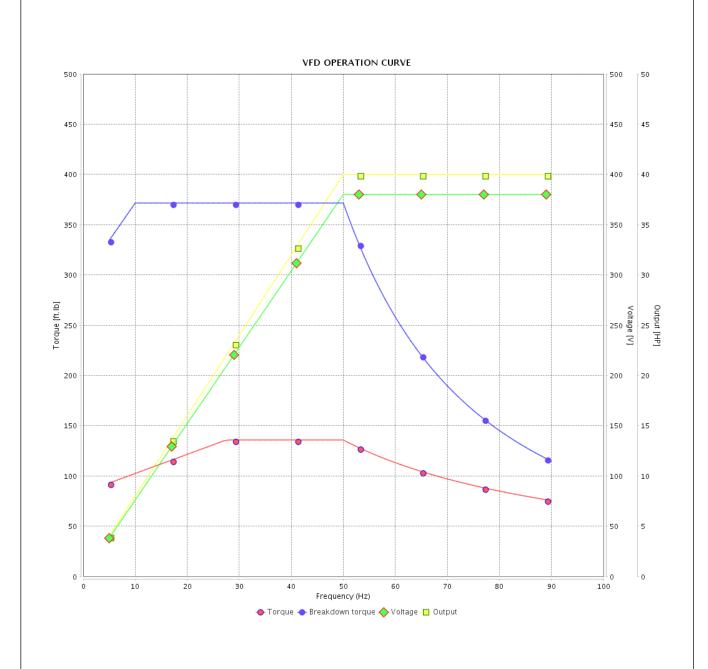
Customer

Product line : NEMA Premium Efficiency Three- Product code :

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Performance	: 38	80 V 50 Hz 4P IE3				
Rated current	: 58	8.7 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.	4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 14	43 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 20	60 %	% Temperature rise		: 80 K	
Rated speed	: 14	470 rpm	Design		: B	
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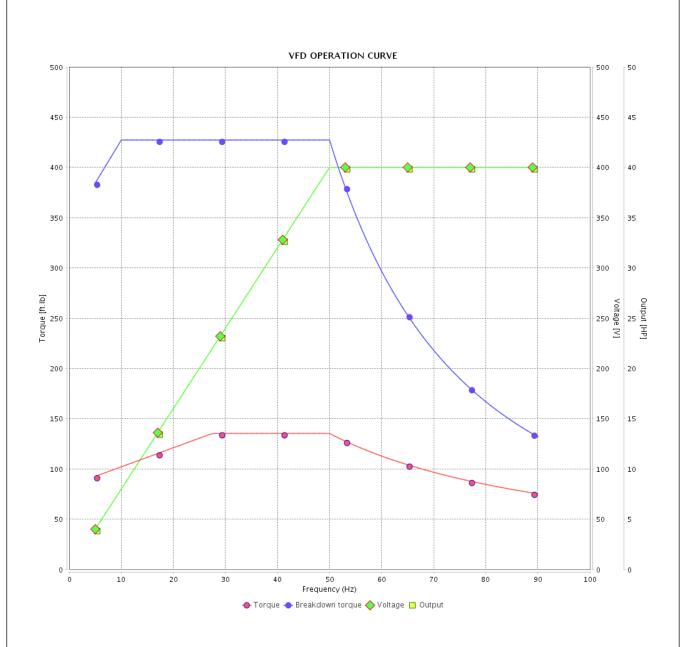
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

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Performance : 400 V 50 Hz 4P IE3 Rated current : 57.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class : 142 ft.lb : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



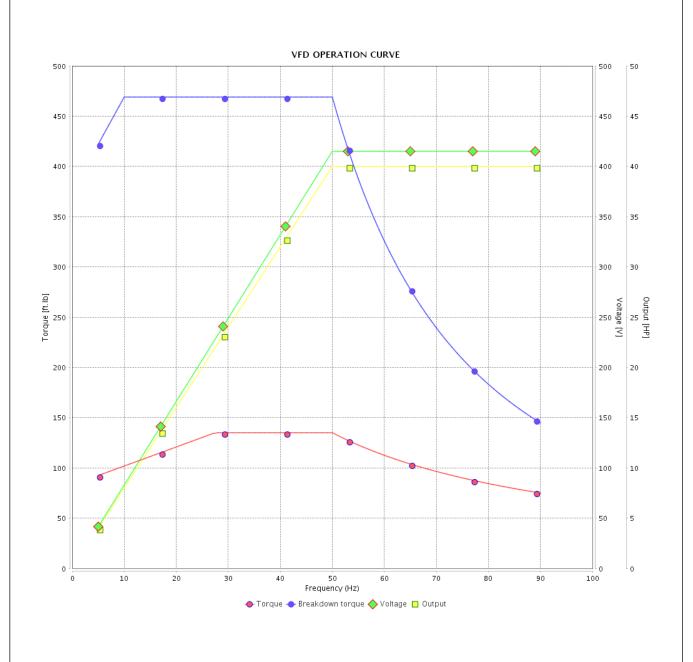
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326T-W22

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Performance	:	415 V 50 Hz 4P IE3				
Rated current		56.4 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	7.4	Duty cycle)	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service fa	ctor	: 1.00	
Breakdown torque	:	330 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1478 rpm	Design		: B	
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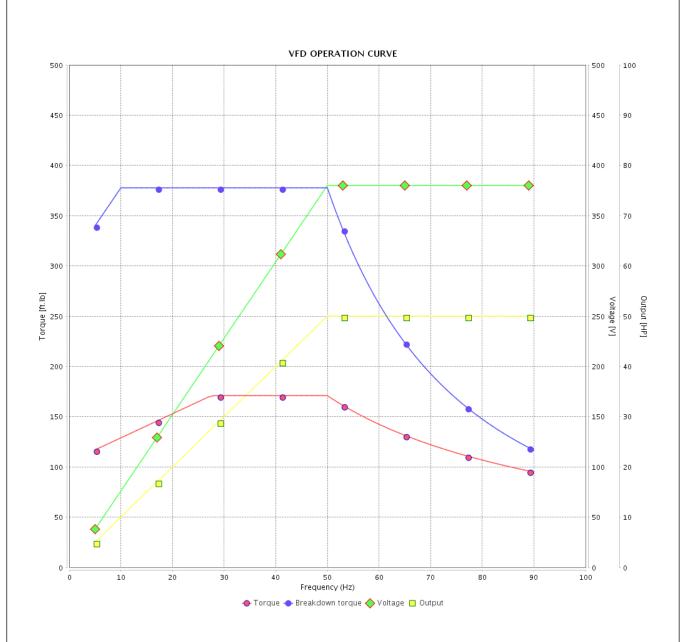
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

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Performance		: 380 V 50 Hz 4P IE1	1			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 71.6 A : 5.2 : 180 ft.lb : 180 % : 210 % : 1460 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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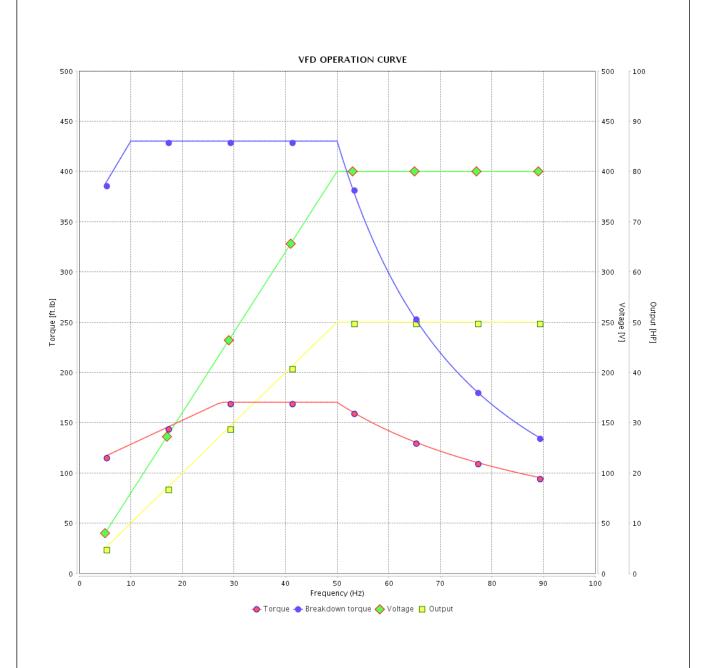
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11438076

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Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 68	68.4 A Moment of ir		of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.	.8	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 17	79 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 20	00 %	Service fa	actor	: 1.00	
Breakdown torque	e : 24	40 %	Temperature rise		: 105 K	
Rated speed	: 14	465 rpm	Design		: B	
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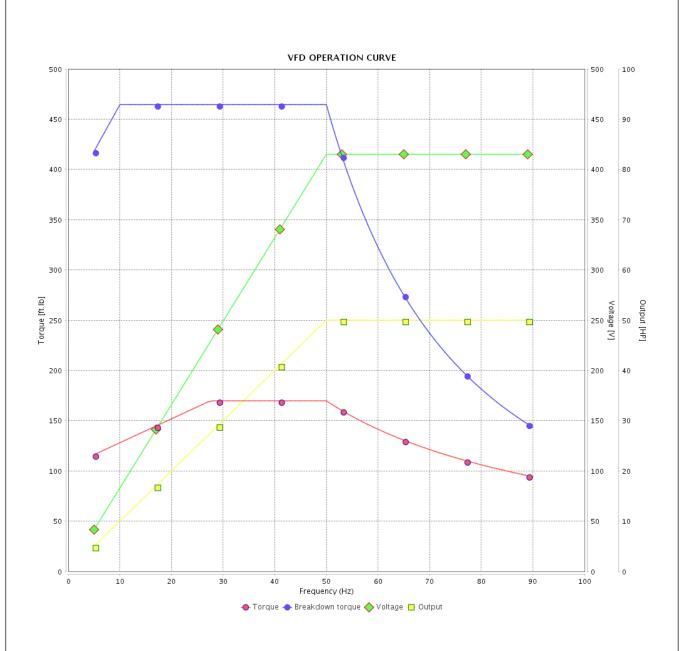
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11438076

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Performance		: 415 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 66.3 A : 6.2 : 179 ft.lb : 210 % : 260 % : 1470 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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