DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22

: F-1

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

Insulation class : F Mounting

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 : 609 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 9	.16 sq.ft.lb	
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	[%]	270	260	300	330	210	240	260
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		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 level ²		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%	92.5	91.9	90.6	90.8	93.3	92.2	91.8
Efficiency (%)	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4
Lincicity (70)	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
100%		94.5	93.6	93.6	93.6	92.4	93.0	93.5
25%		0.42	0.41	0.38	0.35	0.48	0.45	0.42
Power Factor	Dower Factor 50%		0.64	0.60	0.57	0.72	0.68	0.65
FUWEI FACIOI	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 : 1478 lb Sealing : V'Ring V'Ring Max. compression : 2087 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 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.

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



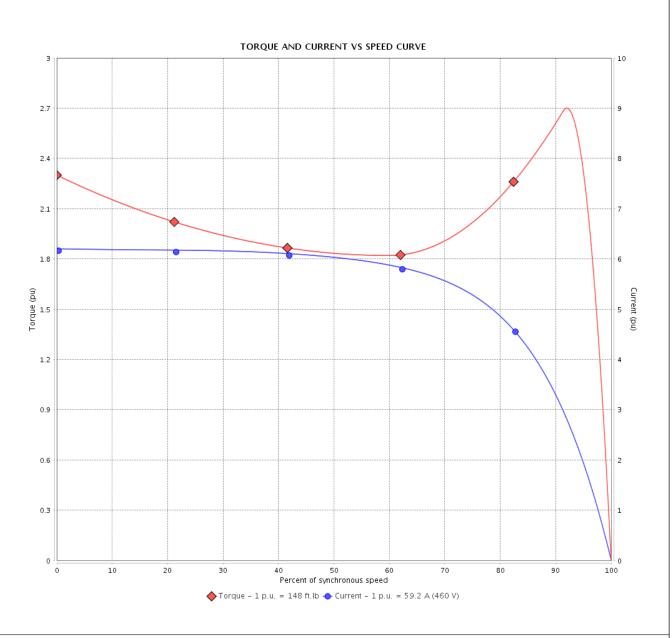
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-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

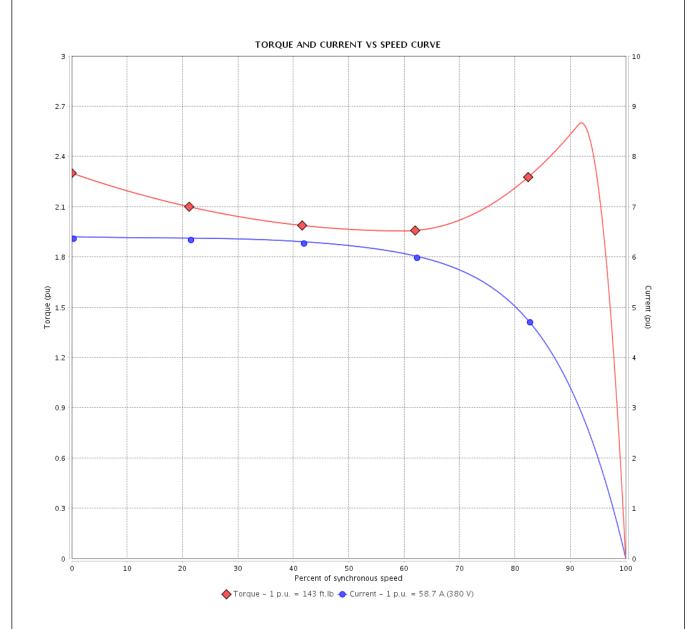
Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11546664 Catalog #: 05018ET3E326TSC-W22



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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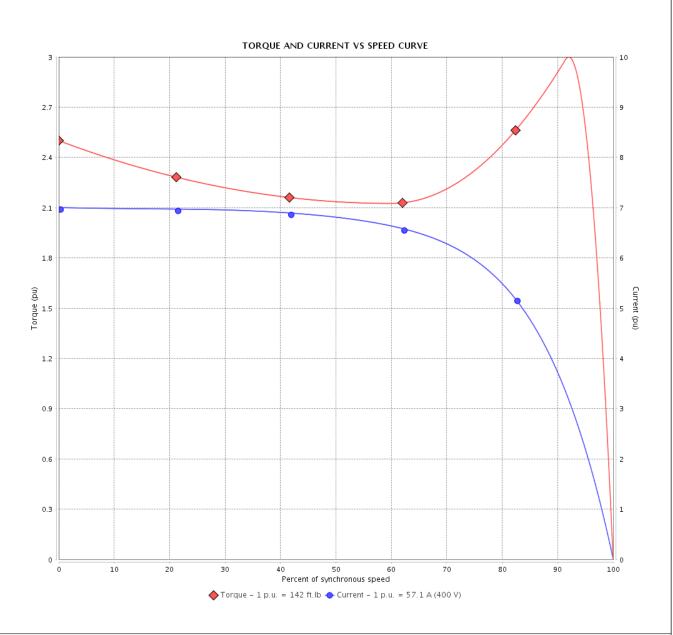
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-W22



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 Rated torque : 142 ft.lb : F Locked rotor torque : 250 % Service factor : 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: 11546664 Catalog #: 05018ET3E326TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 142 ft.lb ◆ Current - 1 p.u. = 56.4 A (415 V) 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) : 142 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1478 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



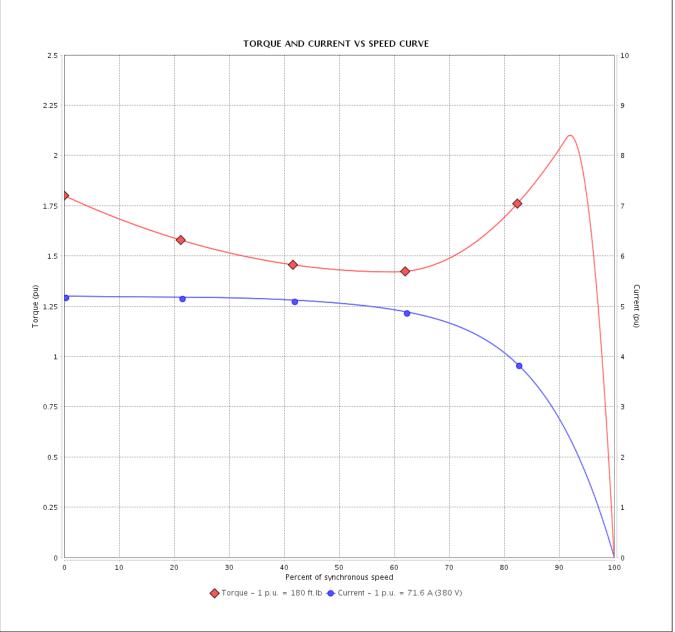
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-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: 11546664 Catalog #: 05018ET3E326TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (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) : 400 V 50 Hz 4P IE2 Performance Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Rated torque : 179 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 : 105 K Breakdown torque : 240 % Temperature rise Rated speed : 1465 rpm : B Design

Locked rotor time	e : 19	9s (cold) 11s (hot)			
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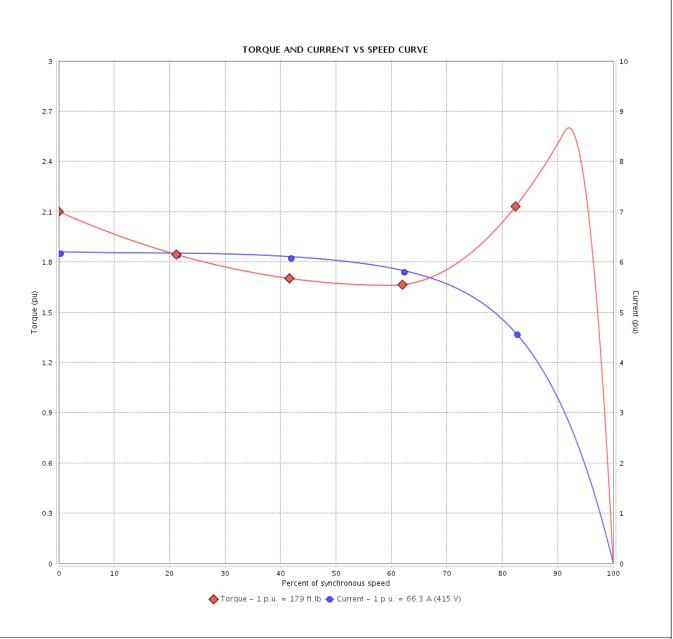
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-W22



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 Locked rotor torque : 210 % Service factor : 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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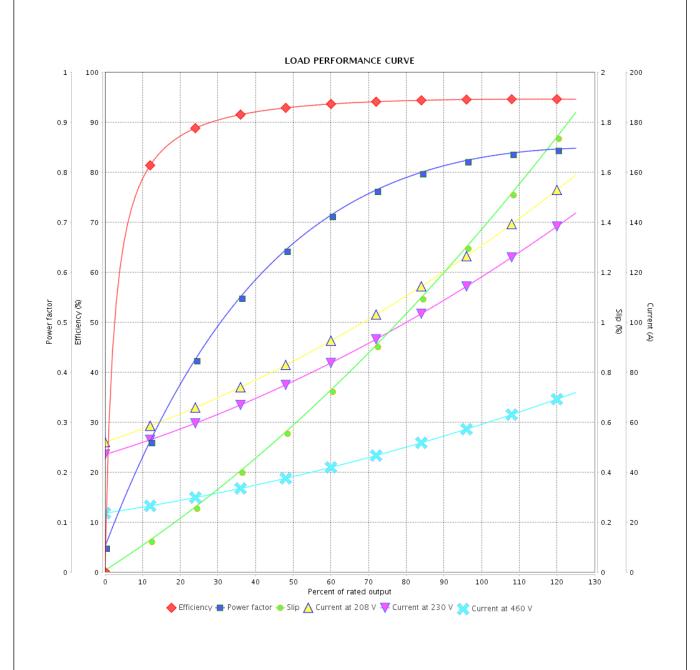


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	: 118/59.2 A Moment of inertia (J)		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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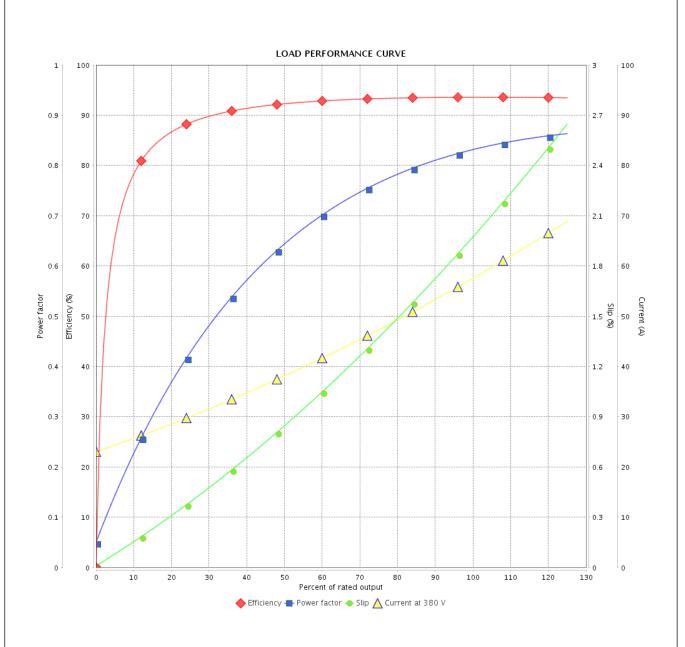
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326TSC-W22

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11546664



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 58.7 A	: 58.7 A Moment of inertia (J)) : 9.16 sq.ft.lb : Cont.(S1)	
LRC	: 6.4 Duty cycle : 143 ft.lb Insulation class		9		
Rated torque			class	: F	
Locked rotor torque	: 229 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 260 %			: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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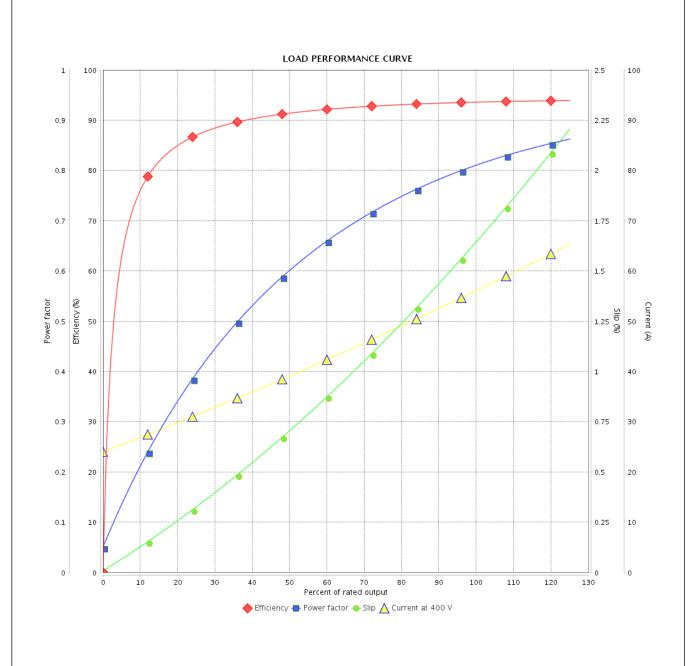


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 5	57.1 A	I A Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC	: 7	7.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	: 300 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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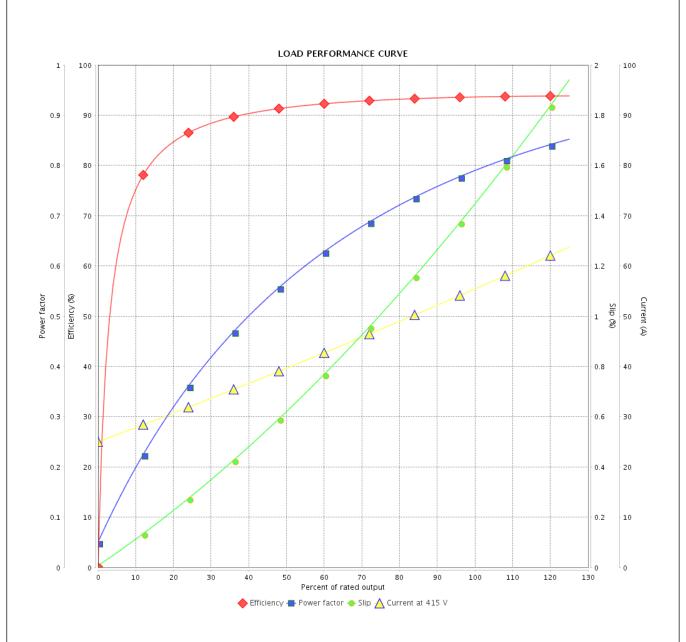
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Phase

Product code: 11546664

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 56.4 A	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	SS	: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 1478 rpm	Design		: B	
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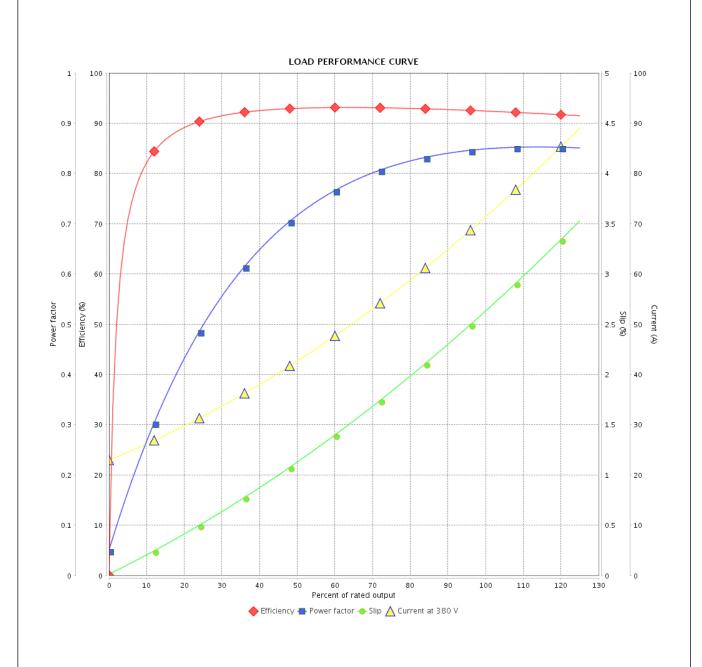


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22



Performance	: 3	380 V 50 Hz 4P IE1				
Rated current	: 7	: 71.6 A Moment of		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 torqu	ed rotor torque : 180 % Service factor		ctor	: 1.00		
Breakdown torque : 210 %		210 %	Temperature rise		: 105 K	
Rated speed	: 1	1460 rpm	Design		: B	
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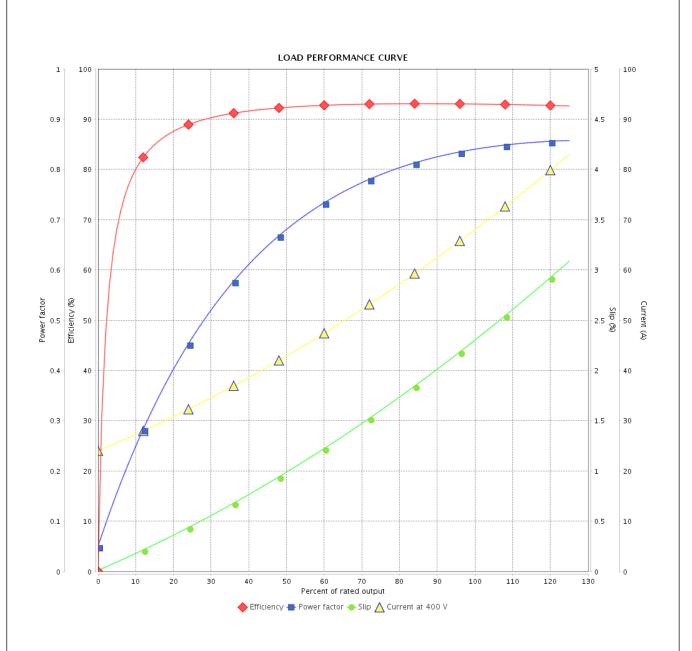
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-W22

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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	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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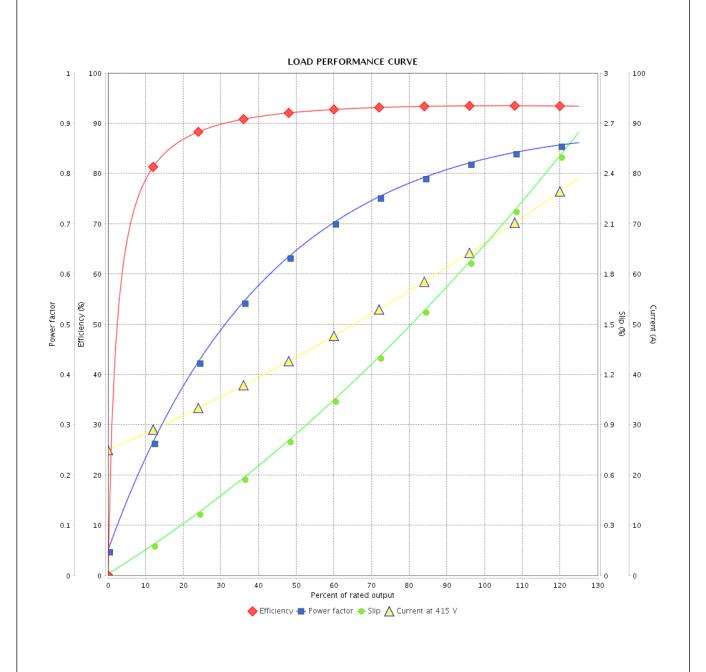


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22



Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current	: 66.3 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	79 ft.lb	Insulation	class	:F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	470 rpm	Design		: B	
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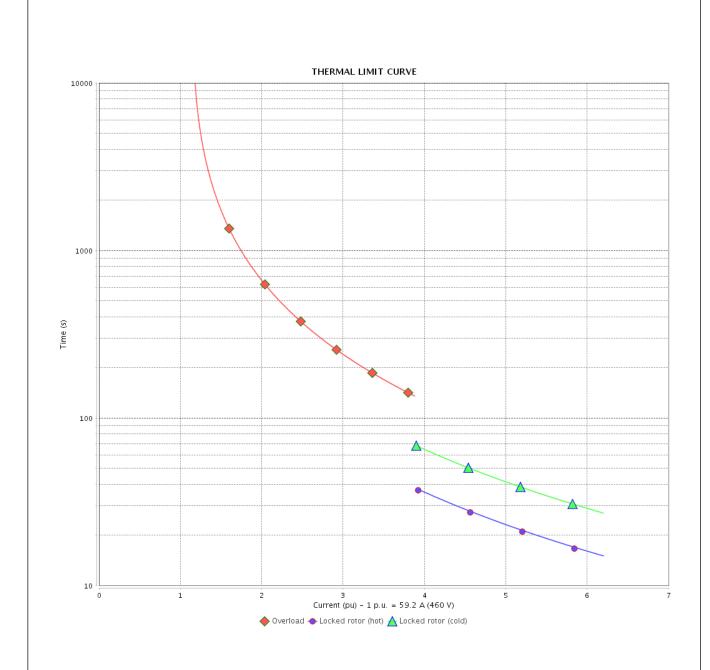


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11546664	0T00 W00
		Catalog # :	05018ET3E32	61SC-W22
Performance	: 230/460 V 60 Hz 4P			
Rated current	: 118/59.2 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 148 ft.lb : 229 %	Insulation class Service factor	: F : 1.25	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1775 rpm	Design	: B	
Heating constant				
Cooling constant				
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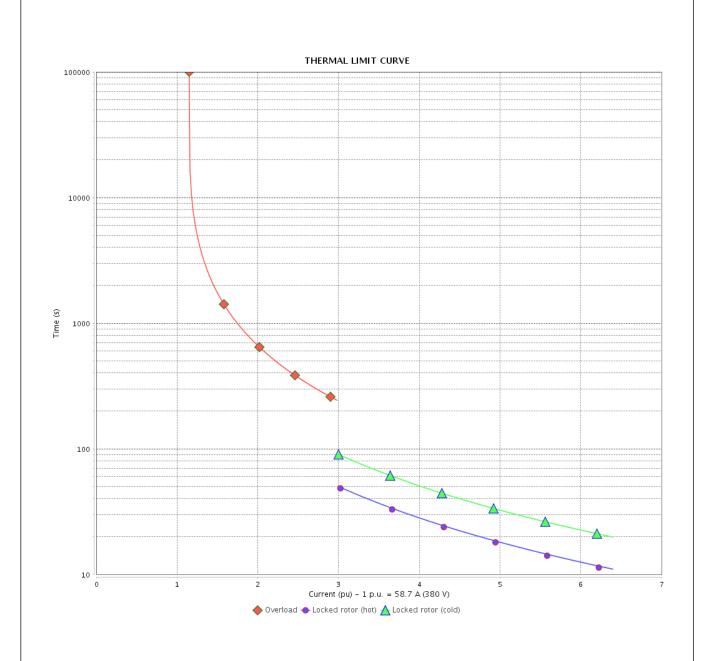


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11546664 05018ET3E3	26TSC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 58 : 6. : 14 : 22 : 26 : 14	43 ft.lb 29 % 60 % 470 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor ıre rise	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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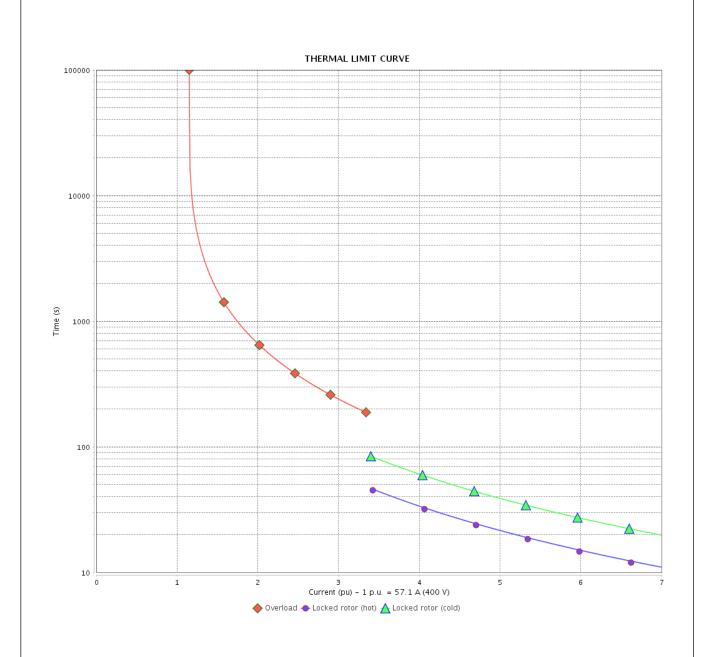


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11546664 05018ET3E3	26TSC-W22
Performance Rated current LRC	:	400 V 50 Hz 4P IE3 57.1 A 7.0	Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	142 ft.lb 250 % 300 % 1475 rpm	Insulation Service fa Temperatu Design	class ctor	: F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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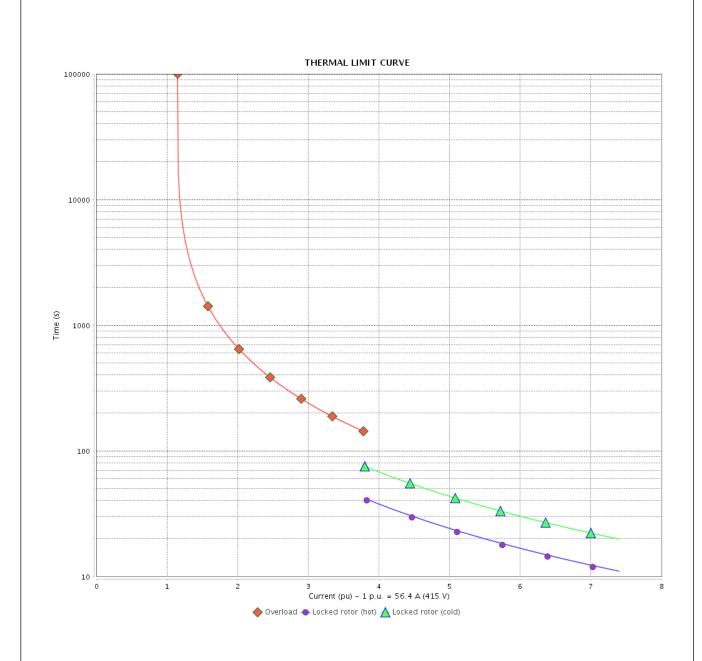


Customer	:					
Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	11546664 05018ET3E3	26TSC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 7 : 1 que : 2 ie : 3	415 V 50 Hz 4P IE3 56.4 A 7.4 142 ft.lb 260 % 330 % 1478 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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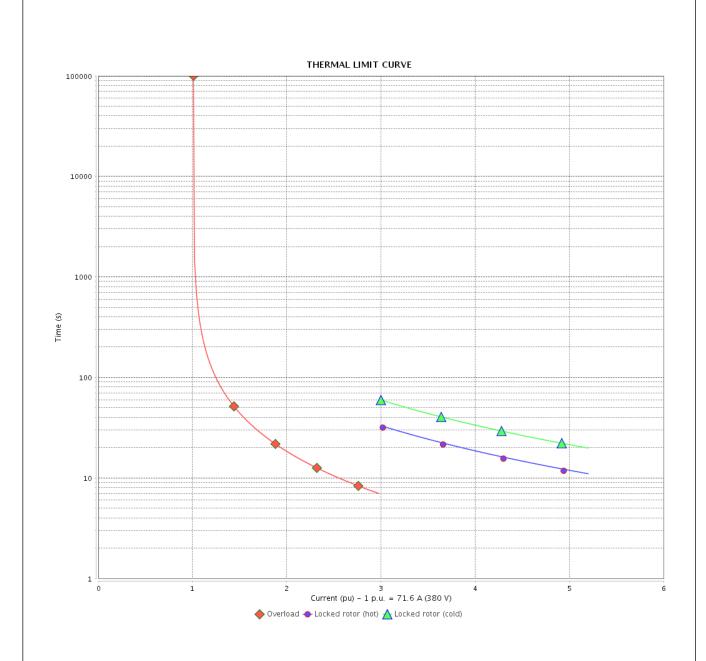


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11546664 05018ET3E32	26TSC-W22
Performance Rated current		: 380 V 50 Hz 4P IE1 : 71.6 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 5.2	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		: 180 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 210 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constan	t 	Changes Commercial		Douts was!	Charles	Data
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Three Phase Induction Motor - Squirrel Cage



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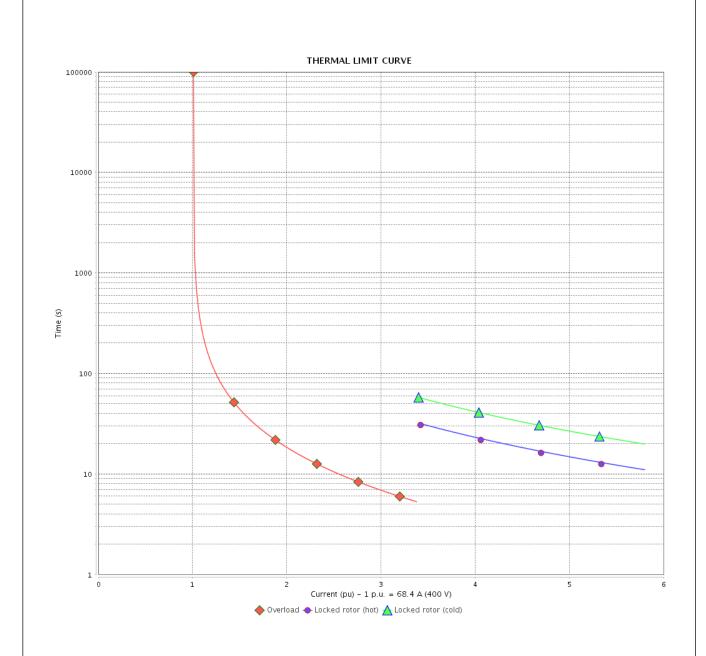


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11546664 05018ET3E32	6TSC-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 68.4 A : 5.8	Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 179 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 240 % : 240 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1465 rpm	Design	· 	: B	
Heating constan						
Cooling constant	t	Changes Summan		Performed	Checked	Data
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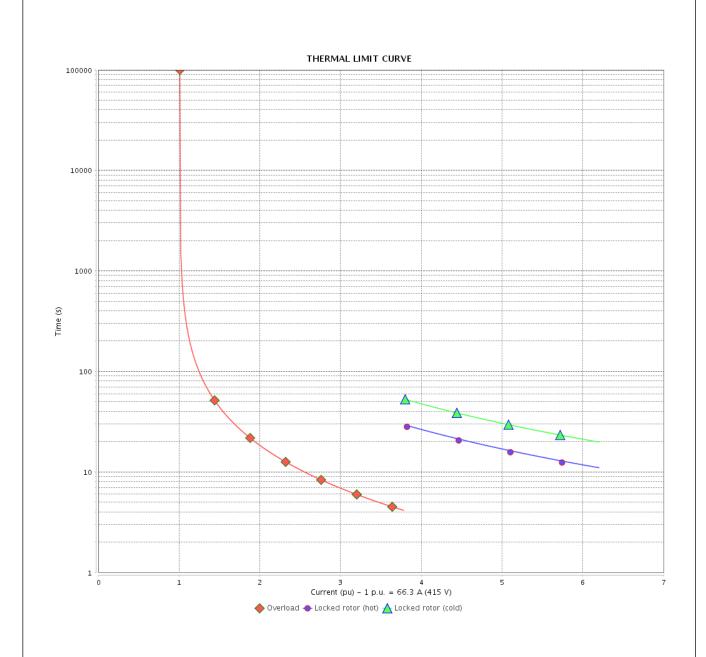


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11546664	
		Catalog # :	05018ET3E3	26TSC-W22
Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.3 A : 6.2 : 179 ft.lb : 210 % : 260 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		<u> </u>		
Heating constant Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

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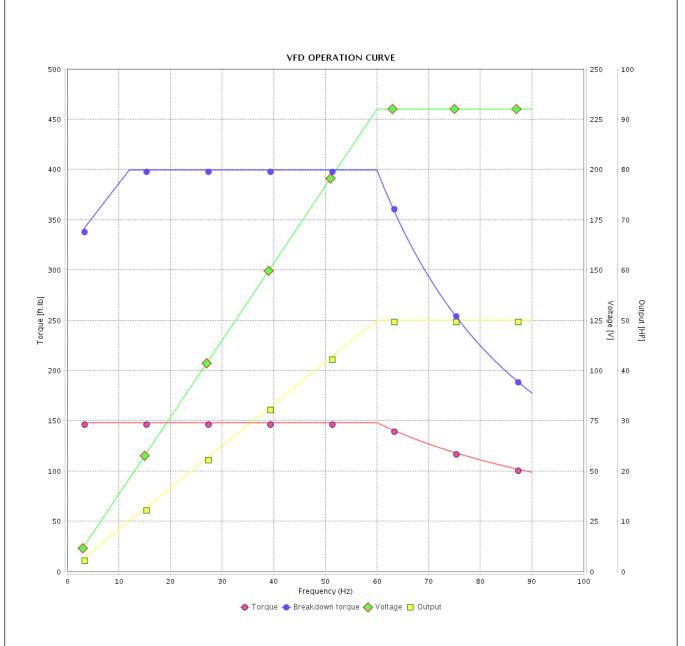
Product code: 11546664

Catalog #: 05018ET3E326TSC-W22

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

Three Phase Induction Motor - Squirrel Cage



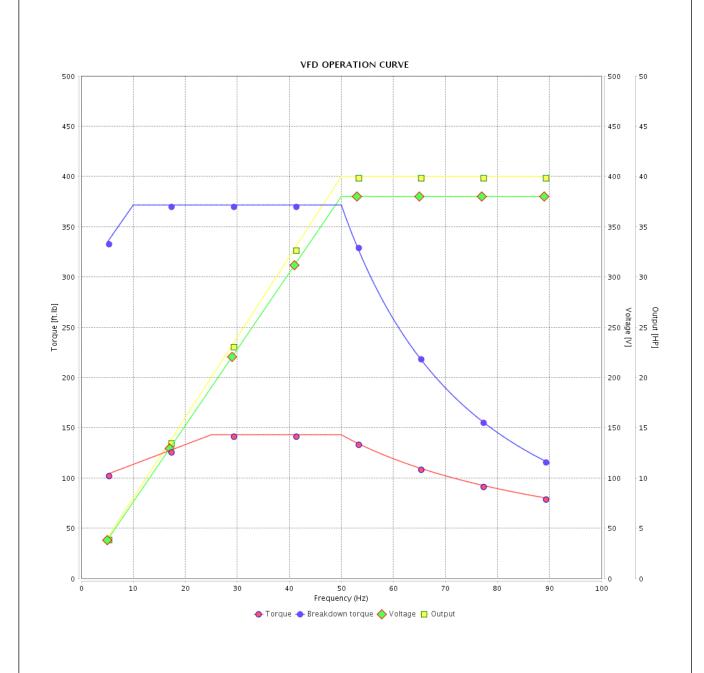
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326TSC-W22

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Performance	:	380 V 50 Hz 4P IE3				
Rated current	:	58.7 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	6.4	Duty cycle	}	: Cont.(S1)	
Rated torque	:	143 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service factor		: 1.00	
Breakdown torque	:	260 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm		Design	Design		
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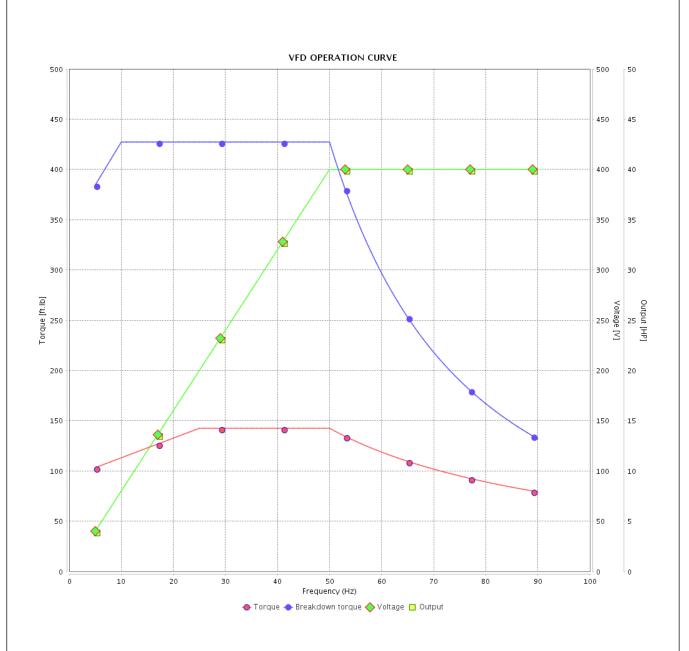
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11546664

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Performance		: 400 V 50 Hz 4P II	E3			
LRC : 7 Rated torque : 1 Locked rotor torque : 2 Breakdown torque : 3		: 57.1 A : 7.0 : 142 ft.lb : 250 % : 300 % : 1475 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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Three Phase Induction Motor - Squirrel Cage

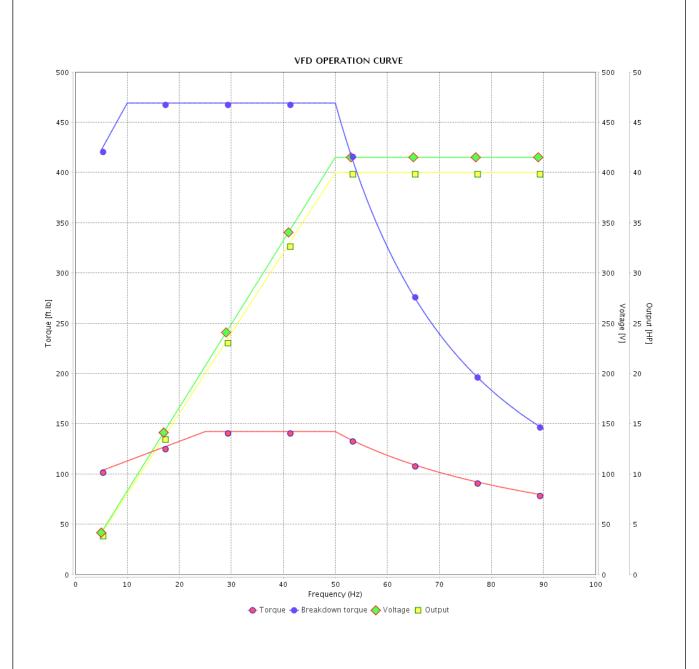


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Product line : NEMA Premium Efficiency Three- Product code : 11546664

Phase

Catalog #: 05018ET3E326TSC-W22



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	56.4 A	Moment o	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	Service factor		
Breakdown torque	:	330 %	% Temperature rise		: 80 K	
Rated speed	: 1478 rpm		Design	Design		
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Date

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Product line : NEMA Premium Efficiency Three-

Phase

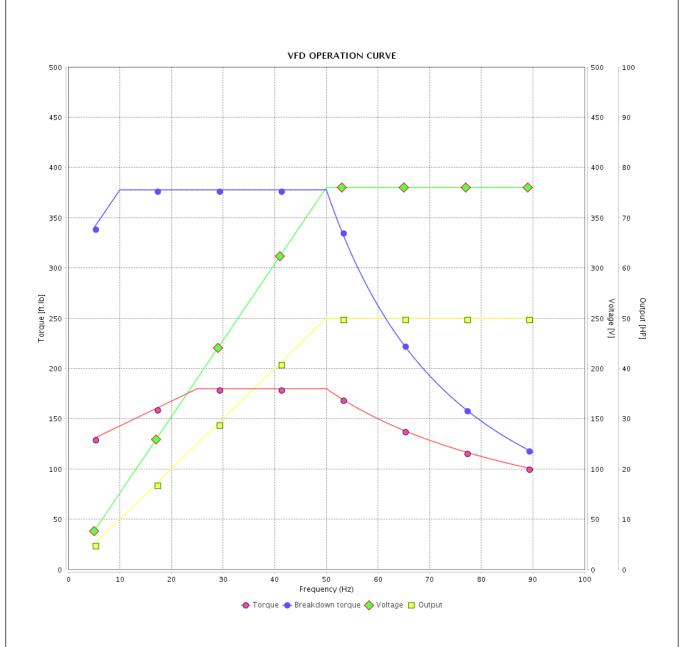
Product code: 11546664

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

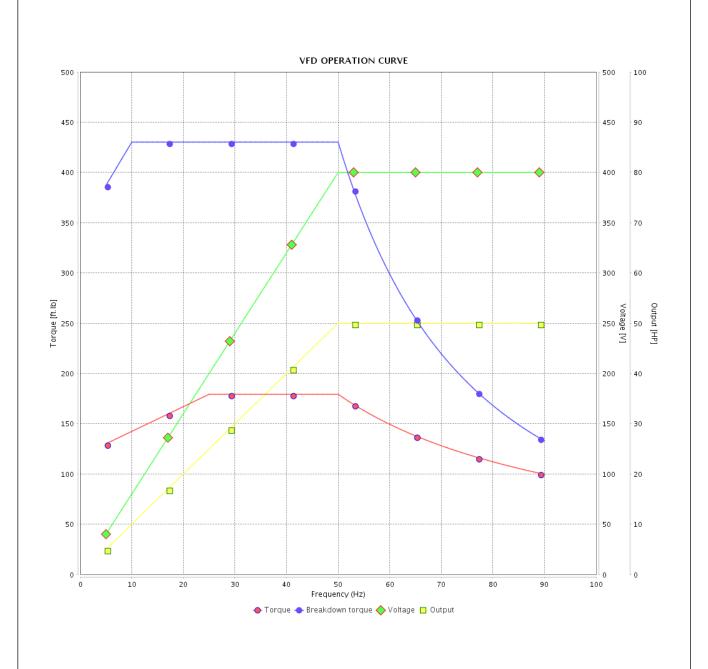
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11546664

Catalog #: 05018ET3E326TSC-W22



Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 68	8.4 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.	.8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 17	79 ft.lb	Insulation class		: F	
Locked rotor torq	ue : 20	00 %	Service factor		: 1.00	
Breakdown torqu	E : 240 % Temperature rise		ure rise	: 105 K		
Rated speed	: 14	465 rpm	5 rpm Design		: B	
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Three Phase Induction Motor - Squirrel Cage



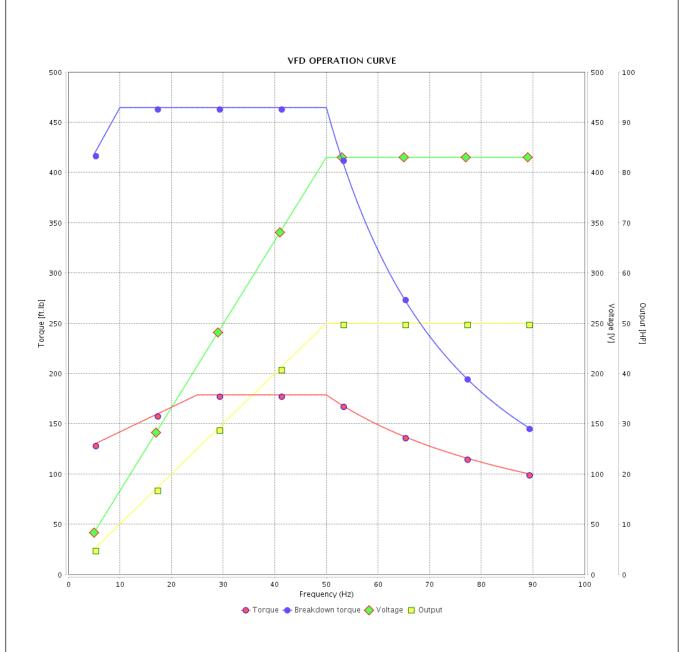
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11546664

Catalog #: 05018ET3E326TSC-W22



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) : 179 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B Changes Summary Checked Rev. Performed Date

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