### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11723868

Three-Phase

Catalog #: 00118ET3E143T-W22

Frame : 143/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 20.2 kg

Protection degree	9	: IP55	Moment of inc	Moment of inertia (J) : 0.0049 kgm²		
Design		: B				
Output [HP]		1	1 1		1	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		2.94/1.47	1.71	1.65	1.63	
L. R. Amperes [A]		25.3/12.6	10.9	11.5	12.1	
LRC [A]		8.6x(Code M)	6.4x(Code J)	7.0x(Code K)	7.4x(Code K)	
No load current [A]		1.88/0.940	0.930	1.00	1.08	
Rated speed [RPIV	Rated speed [RPM]		1450	1455	1455	
Slip [%]	Slip [%]		3.33	3.00	3.00	
	Rated torque [kgfm]		0.501	0.499	0.499	
Locked rotor torque	Locked rotor torque [%]		220	240	260	
Breakdown torque	[%]	350	250	290	310	
Service factor		1.25	1.25	1.25	1.25	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		32s (cold) 18s (hot)				
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
		78.4	79.6	78.4	78.4	
Efficiency (%)		80.0	80.0	80.0	80.0	
Elliciency (%)	75%	84.0	82.5	82.5	82.5	
	100%		82.5	84.0	84.0	
	25%	0.31	0.36	0.33	0.31	
Power Factor	50%	0.55	0.62	0.58	0.55	
	100%	51.0 dB(A) 78.4 80.0 84.0 85.5 0.31	49.0 dB(A) 79.6 80.0 82.5 82.5 0.36	49.0 dB(A) 78.4 80.0 82.5 84.0 0.33	49.0 dB(A) 78.4 80.0 82.5 84.0 0.31	

Drive end Non drive end Foundation loads

0.74

0.81

6204 ZZ Bearing type 6205 ZZ Max. traction : 34 kgf Sealing V'Ring V'Ring Max. compression : 54 kgf

0.68

0.75

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 3.07A SF 1.15 SFA 3.54A

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.

0.71

0.78

0.69

0.76

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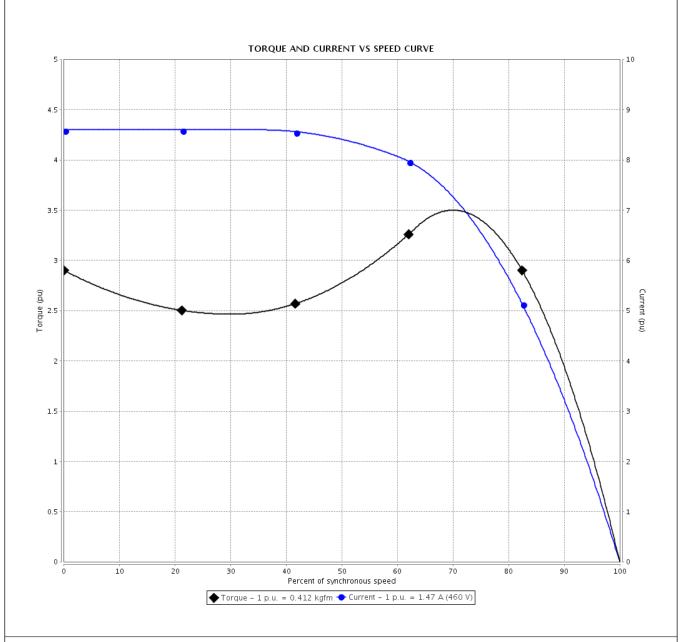
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



: 230/460 V 60 Hz 4P Performance Rated current : 2.94/1.47 A Moment of inertia (J) : 0.0049 kgm<sup>2</sup> **LRC** Duty cycle : Cont.(S1) : F : 0.412 kgfm Insulation class Rated torque Service factor Locked rotor torque : 290 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K

Design

: B

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

: 1760 rpm

Rated speed

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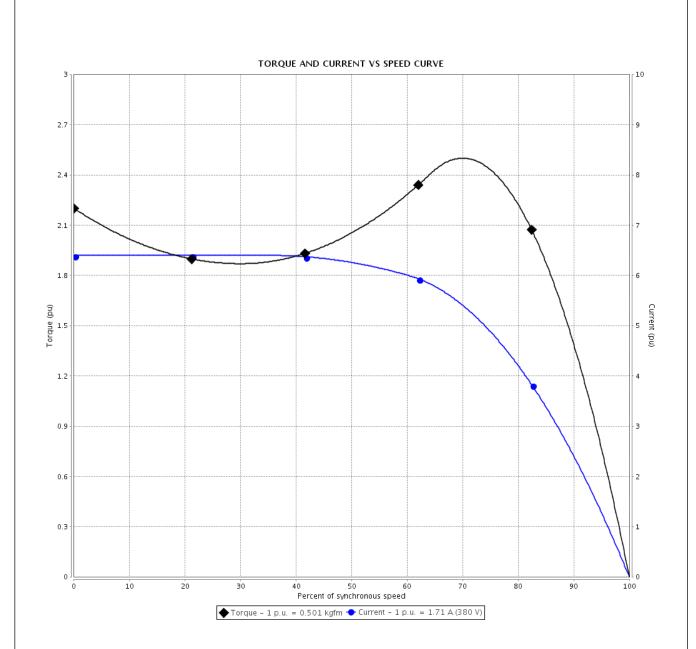
Customer

Product line : W22 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 00118ET3E143T-W22

11723868



Performance : 380 V 50 Hz 4P IE3 Rated current : 1.71 A Moment of inertia (J) : 0.0049 kgm<sup>2</sup> **LRC** : 6.4 Duty cycle : Cont.(S1) : 0.501 kgfm Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K : B Rated speed : 1450 rpm Design Locked rotor time

: 32s (cold) 18s (hot)

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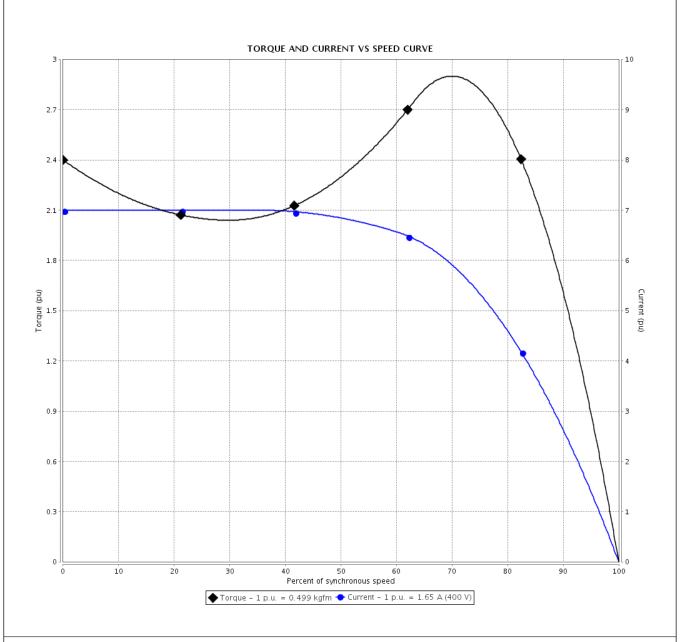
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 1.65 A Moment of inertia (J) : 0.0049 kgm<sup>2</sup> **LRC** : 7.0 Duty cycle : Cont.(S1) : F : 0.499 kgfm Insulation class Rated torque Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 290 % Temperature rise : 80 K

Design

: B

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

: 1455 rpm

Rated speed

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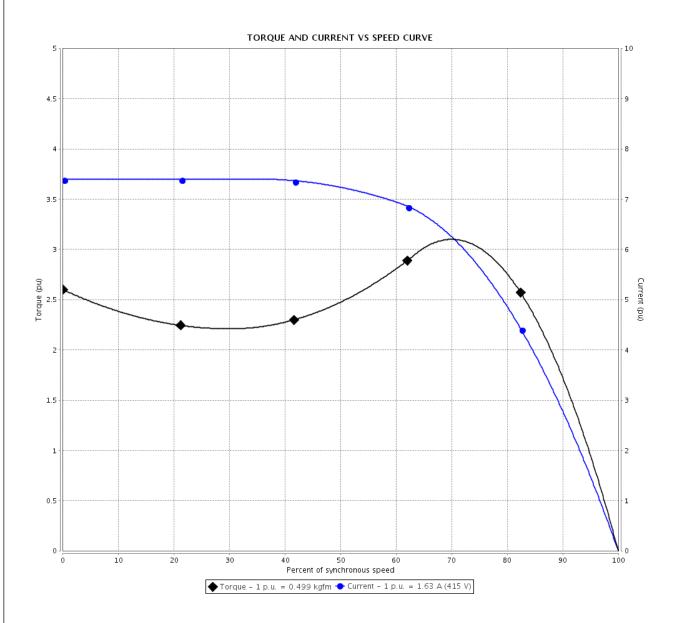
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 1.63 A Moment of inertia (J) : 0.0049 kgm<sup>2</sup> **LRC** : 7.4 Duty cycle : Cont.(S1) : 0.499 kgfm Insulation class : F Rated torque : 260 % Locked rotor torque Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K : B Rated speed : 1455 rpm Design Locked rotor time

: 32s (cold) 18s (hot)

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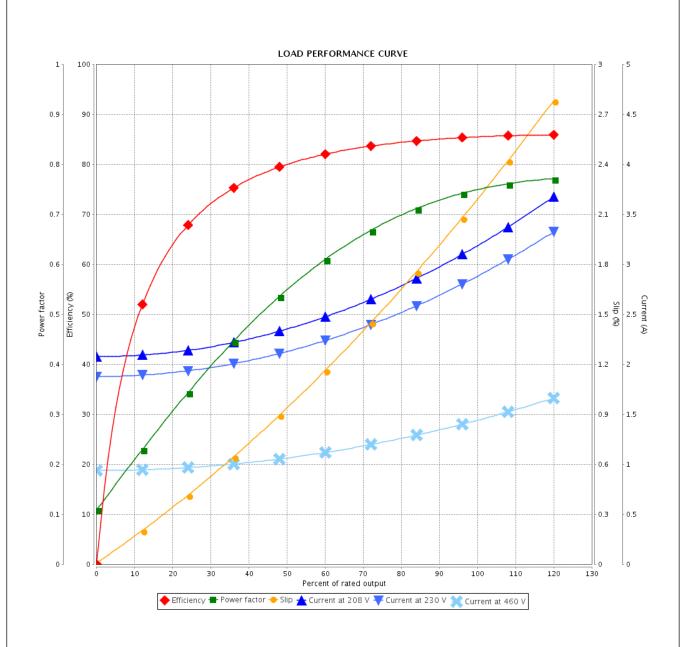
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



: 230/460 V 60 Hz 4P			
: 2.94/1.47 A : 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	:
Changes Summary	Performed	d Checked	Date
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	: 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm	: 8.6 : 0.412 kgfm : 290 % : 350 % : 1760 rpm  Duty cycle Insulation class Service factor Temperature rise Design	: 8.6       Duty cycle       : Cont.(S1)         : 0.412 kgfm       Insulation class       : F         : 290 %       Service factor       : 1.25         : 350 %       Temperature rise       : 80 K         : 1760 rpm       Design       : B

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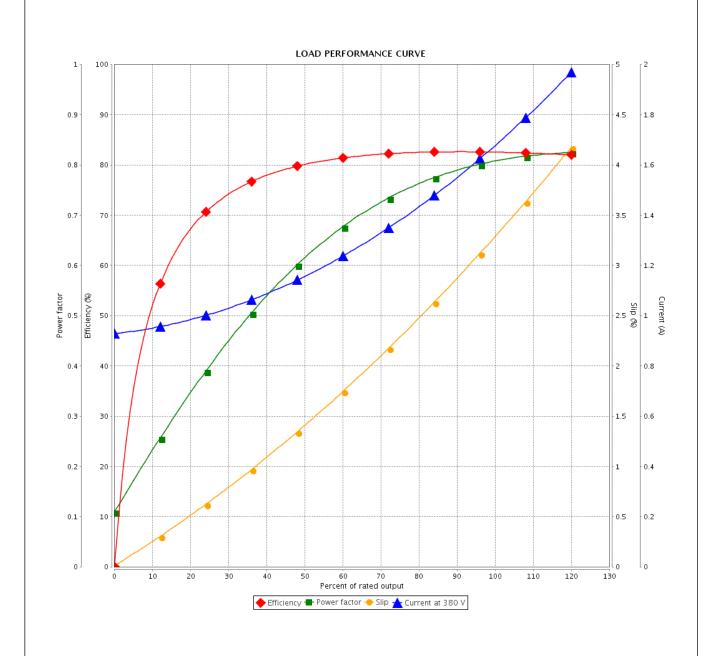
Customer

Product line : W22 NEMA Premium Efficiency Pr

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	Rated current : 1.71 A		Moment o	f inertia (J)	: 0.0049 kgm²	!
LRC	: 6	.4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 0	.501 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed	: 1	50 rpm Design			: B	
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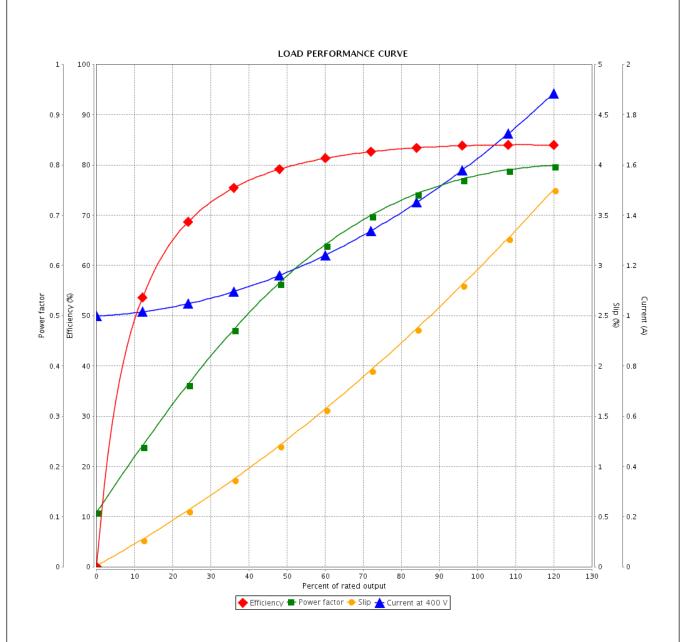
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance : 400 V 50 Hz 4P IE3 : 1.65 A : 0.0049 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.0 : 0.499 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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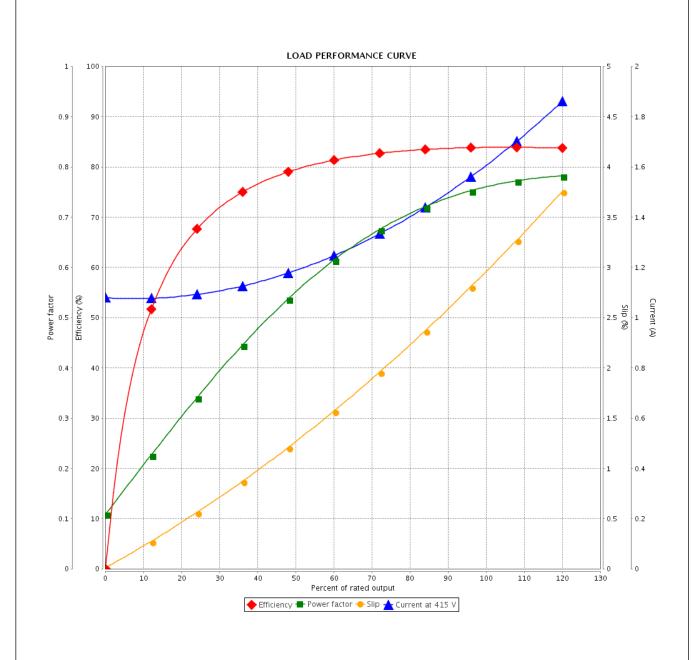
Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 00118ET3E143T-W22

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.63 A : 7.4 : 0.499 kgfm : 260 % : 310 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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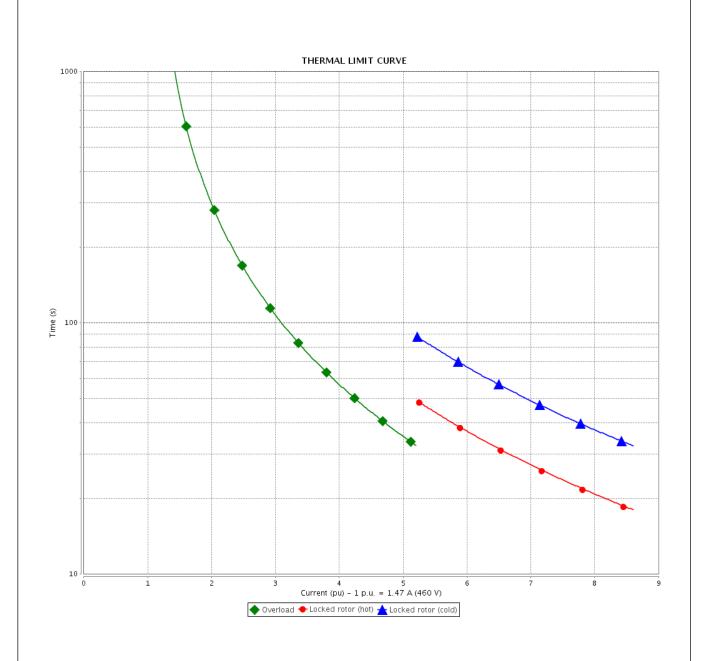


Customer	:					
Product line	: T	W22 NEMA Premium Efficie hree-Phase		Product code : Catalog # :	11723868 00118ET3E14	3T-W22
Performance	: 2	230/460 V 60 Hz 4P				
Rated current LRC Rated torque	: 8 : 0	).412 kgfm	Moment of Duty cycle Insulation	class	: 0.0049 kgm² : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie : 3	290 % 350 % 760 rpm	Service fac Temperatu Design		: 1.25 : 80 K : B	
Heating constant	t					
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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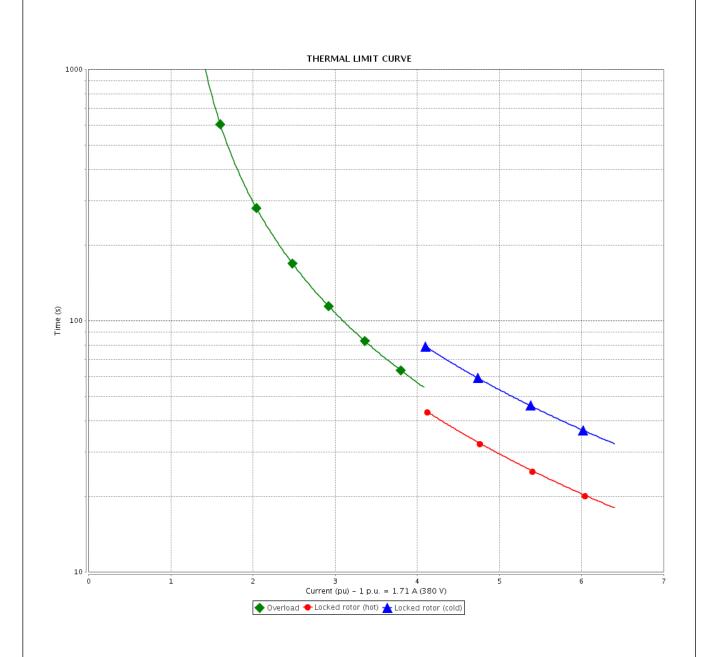


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Product line		: W22 NEMA Premium Effici Three-Phase	ency	Product code :	11723868	
				Catalog # :	00118ET3E14	3T-W22
Performance		: 380 V 50 Hz 4P IE3 : 1.71 A	Mamanta	of incution ( 1)	. 0.0040 kmm²	
Rated current LRC		: 6.4	Duty cycle	of inertia (J) e	: 0.0049 kgm² : Cont.(S1)	
Rated torque		: 0.501 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 250 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1450 rpm	Design	uie lise	: B	
Heating constan	t					
Cooling constant						
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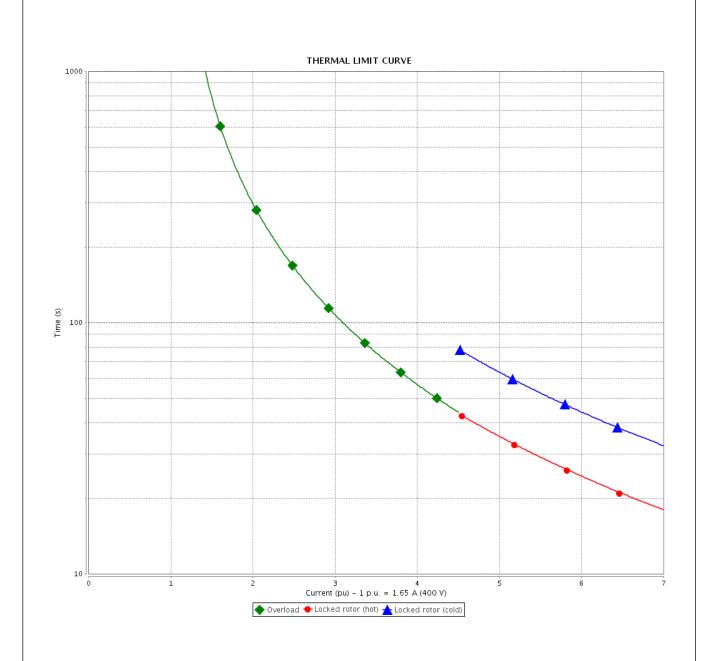


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11723868 00118ET3E14	3T-W22
Performance		400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	:	1.65 A 7.0 0.499 kgfm	Moment o Duty cycle Insulation		: 0.0049 kgm² : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que : ue :	240 % 290 % 1455 rpm	Service fa Temperatu Design	ctor	: 1.25 : 80 K : B	
Heating constan						
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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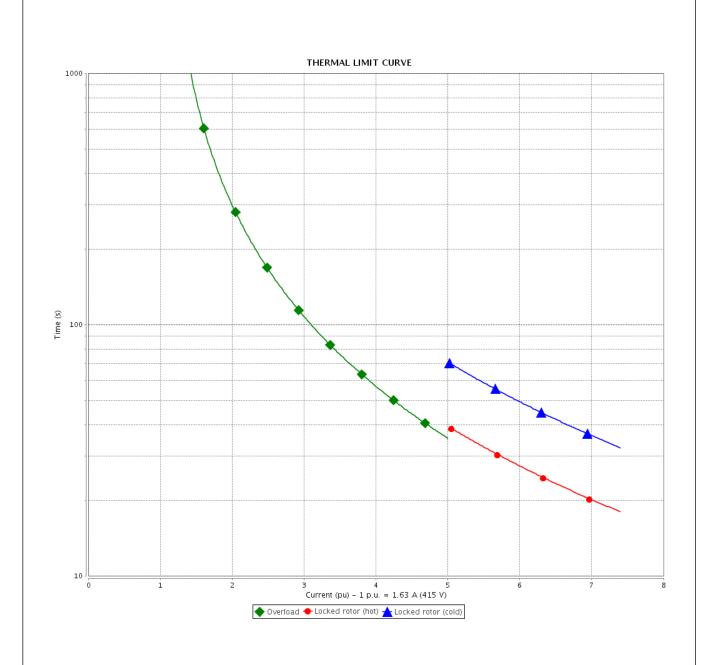


Customer	:					
Product line	:	W22 NEMA Premium Efficie	ency I	Product code :	11723868	
	Т	hree-Phase	(	Catalog # :	00118ET3E14	3T-W22
Performance Rated current		15 V 50 Hz 4P IE3 .63 A	Mamont	finartia (I)	: 0.0040 kgm²	
LRC	: 7	<b>.</b> .4	Moment of Duty cycle		: 0.0049 kgm² : Cont.(S1)	
Rated torque Locked rotor torqu		.499 kgfm :60 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 3	10 %	Temperatu		: 80 K	
Rated speed	: 1 	455 rpm	Design		: B	
Heating constant Cooling constant						
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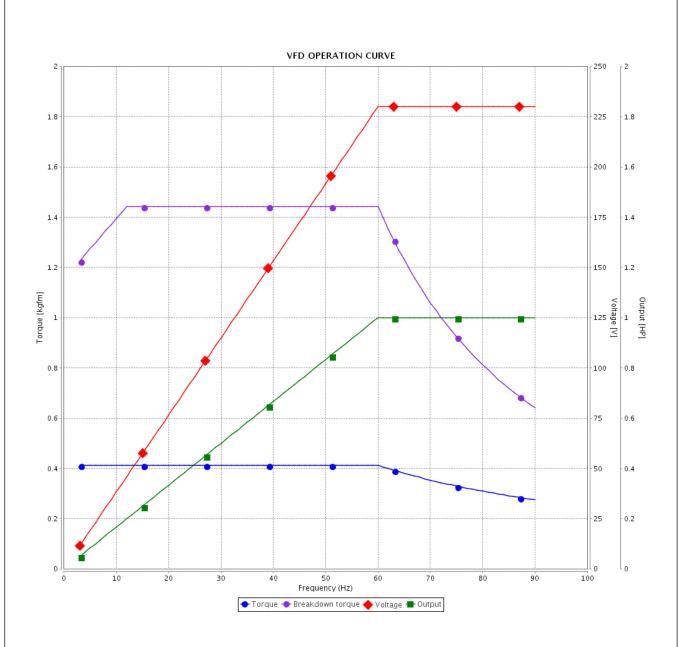
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance : 230/460 V 60 Hz 4P : 2.94/1.47 A : 0.0049 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.6 Insulation class : 0.412 kgfm : F Rated torque Locked rotor torque : 290 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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#### Three Phase Induction Motor - Squirrel Cage



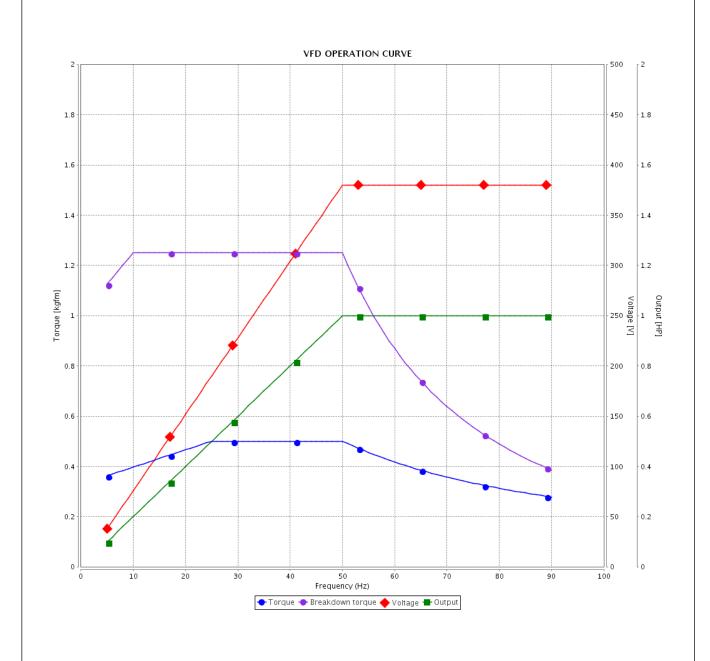
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	:	380 V 50 Hz 4P IE3				
Rated current : 1		1.71 A	Moment o	Moment of inertia (J)		2
LRC	:	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque		0.501 kgfm	Insulation class		: F ` ´	
Locked rotor torque		220 %	Service factor		: 1.25	
Breakdown torque		250 %	Temperature rise		: 80 K	
Rated speed	:	1450 rpm	Design		: B	
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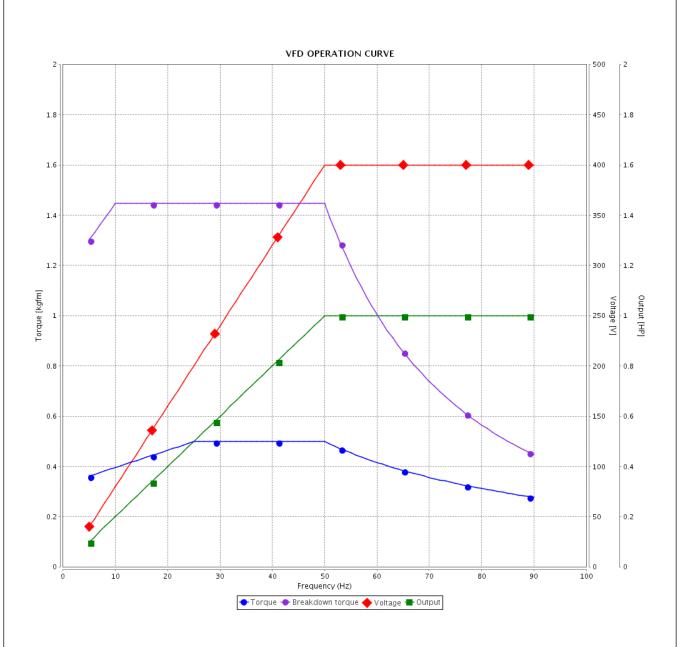
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.65 A : 7.0 : 0.499 kgfm : 240 % : 290 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



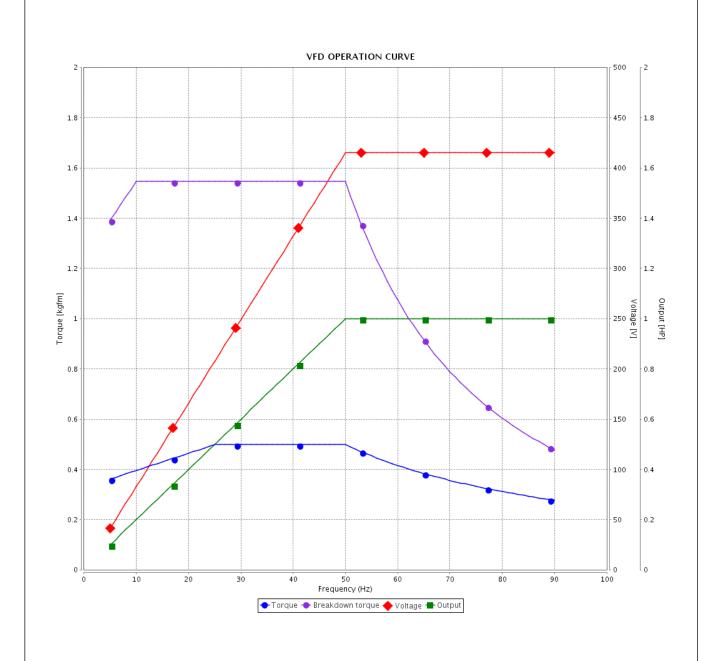
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11723868

Catalog #: 00118ET3E143T-W22



Performance	:	415 V 50 Hz 4P IE3					
Rated current :		1.63 A	Moment o	Moment of inertia (J)		2	
LRC	:	7.4	Duty cycle	)	: Cont.(S1)		
Rated torque		0.499 kgfm	Insulation	Insulation class			
Locked rotor torque		260 %	Service fa	Service factor		: 1.25	
Breakdown torque		310 %	Temperati	Temperature rise			
Rated speed	:	1455 rpm	Design		: B		
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