DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13679143

Catalog #: 00118OT3E143TC-SG

Frame : 143/5TC Cooling method : IC01 - ODP 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 Altitude · 1000 m a s l · 35 5 lb Approx. weight3

Aititude		: 1000 m.a.s.i.	Approx. weight	. 35.5 ID
Design		: B	Moment of inertia (J)	: 0.1101 sq.ft.lb
Output [HP]		1	1	1
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.02/1.51	3.44/1.72	3.15/1.67
L. R. Amperes [A]		24.2/12.1	22.4/11.2	22.4/11.9
LRC [A]		8.0x(Code L)	6.5x(Code J)	7.1x(Code K)
No load current [A	.]	1.92/0.958	1.88/0.942	1.93/1.02
Rated speed [RPN	Л]	1760	1445	1450
Slip [%]		2.22	3.67	3.33
Rated torque [ft.lb]		2.98	3.63	3.62
Locked rotor torqu		290	200	229
Breakdown torque	: [%]	360	270	300
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	79.9	82.2	80.7
Efficiency (%)	50%	81.5	81.9	81.0
Lincicity (70)	75%	84.0	83.4	83.2
	100%	85.5	82.6	83.1
	25%	0.29	0.34	0.31
Power Factor	50%	0.51	0.59	0.55
1 OWEL 1 actor	75%	0.65	0.73	
	100%	0.73	0.80	0.78

Non drive end Drive end Foundation loads

Bearing type 6205 ZZ 6203 ZZ Max. traction : 77 lb Sealing Without Without Max. compression : 112 lb

Bearing Seal Bearing Seal Lubrication interval

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

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.

(4) / 11 100 /0 01 10	iii load.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

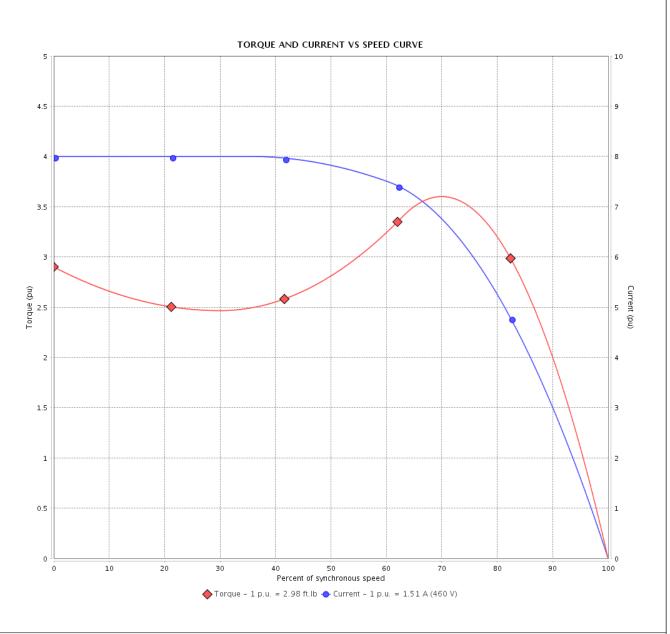


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13679143

Phase

Catalog #: 00118OT3E143TC-SG



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque	: 3.02/1.51 A : 8.0 : 2.98 ft.lb : 290 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 0.1101 sq.ft.lb : Cont.(S1) : F
Breakdown torque Rated speed	: 360 % : 1760 rpm	Temperature rise Design	: 80 K : B
Looked reter time	: 20a (aald) 22a (bat)		

Locked rotor time : 39s (cold) 22s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13679143 Catalog #: 00118OT3E143TC-SG 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. = 3.63 ft.lb ◆ Current - 1 p.u. = 1.72 A (380 V) Performance : 190/380 V 50 Hz 4P Rated current : 3.44/1.72 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Rev. **Changes Summary** Performed Checked Date

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14/04/2022

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



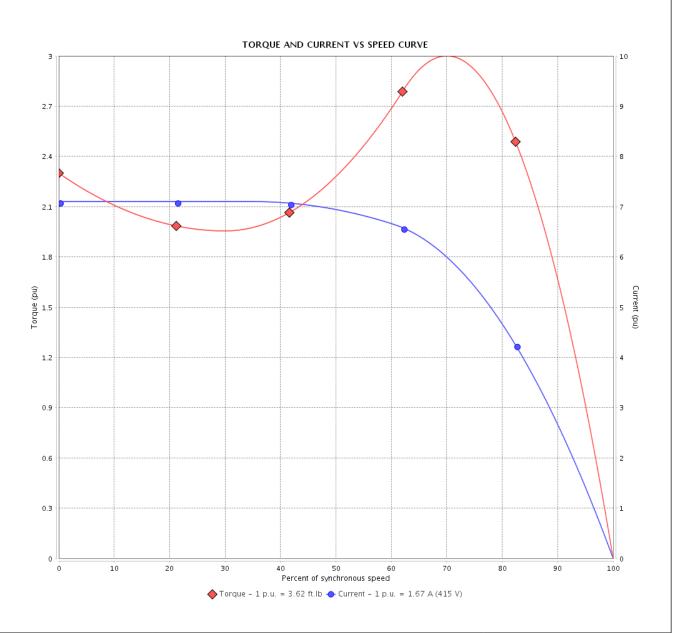
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13679143

Catalog #: 00118OT3E143TC-SG



Performance : 220/415 V 50 Hz 4P Rated current : 3.15/1.67 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.62 ft.lb Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

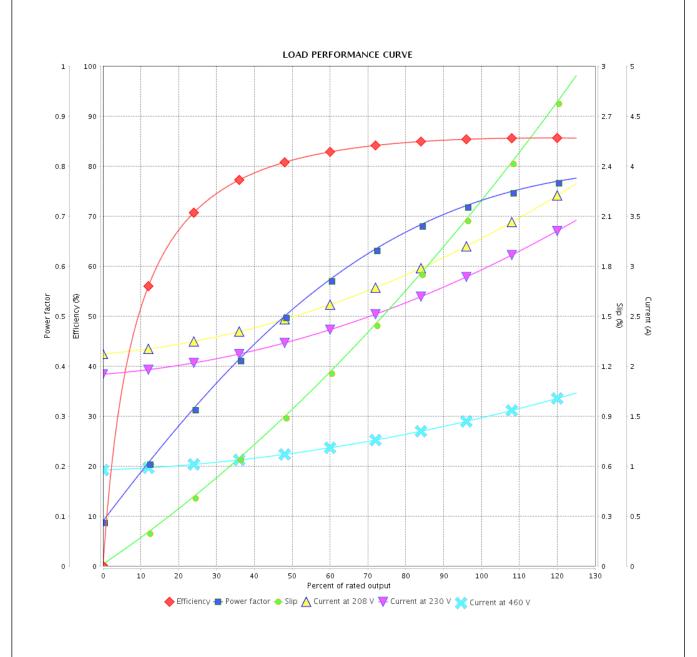


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13679143

Phase

Catalog #: 00118OT3E143TC-SG



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 3	.02/1.51 A	Moment o	f inertia (J)	: 0.1101 sq.ft.l	b
LRC	: 8	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	. –	.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	90 %	Service fa	ctor	:	
Breakdown torque : 360		60 %	Temperature rise		: 80 K	
Rated speed	: 1	760 rpm	Design		: B	
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Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three- Product code : 13679143

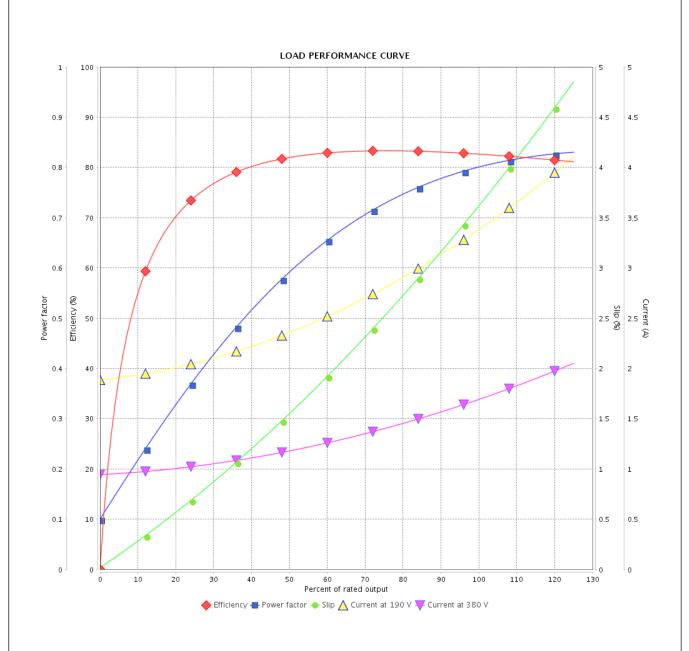
Phase

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Performance	: 190/380 V 5	60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 3.44/1.72 A : 6.5 : 3.63 ft.lb : 200 % : 270 % : 1445 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1101 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	dl
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Three Phase Induction Motor - Squirrel Cage

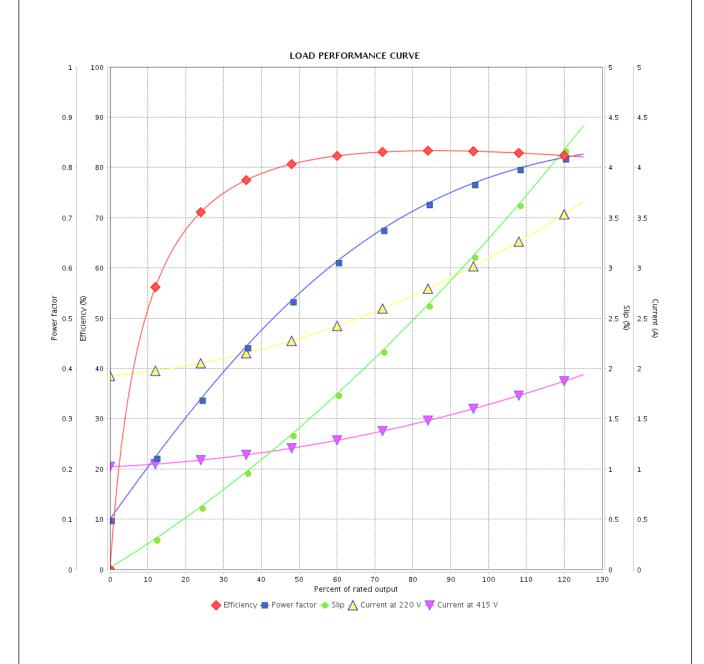


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13679143

Phase

Catalog #: 00118OT3E143TC-SG



Performance	::	220/415 V 50 Hz 4P				
Rated current	::	3.15/1.67 A	Moment o	f inertia (J)	: 0.1101 sq.ft.lb	
LRC	: '	7.1	Duty cycle)	: Cont.(S1)	
Rated torque	::	3.62 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	229 %	Service fa	ctor	: 1.15	
Breakdown torque	::	300 %	Temperati	Temperature rise		
Rated speed	:	1450 rpm	Design		: B	
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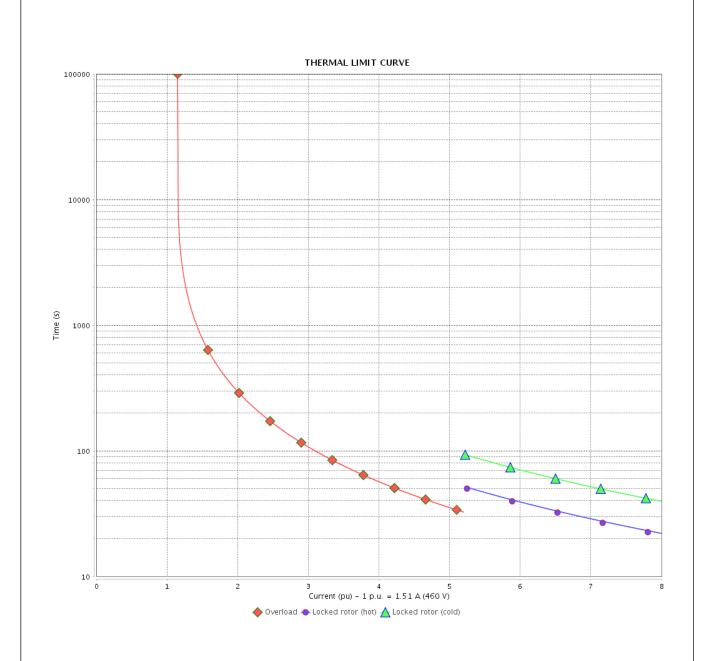


Customer	÷				
Product line	: NEMA Premi Phase		Product code : Catalog # :	13679143 00118OT3E1	43TC-SG
Performance	: 230/460 V 60 I	Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.02/1.51 A : 8.0 : 2.98 ft.lb : 290 % : 360 % : 1760 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1101 sq.ft.ll : Cont.(S1) : F : : 80 K : B	0
Heating constant Cooling constant Rev.	Changes Su	ımmary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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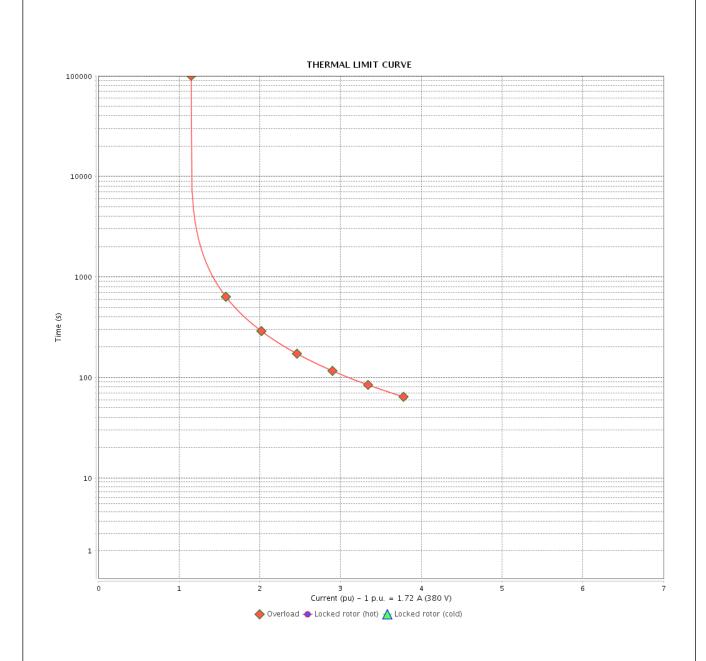


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13679143	
		Phase		Catalog # :	00118OT3E1	43TC-SG
Performance		: 190/380 V 50 Hz 4P				
Rated current		: 3.44/1.72 A	Moment of	of inertia (J)	: 0.1101 sq.ft.ll	0
LRC Rated torque		: 6.5 : 3.63 ft.lb	Duty cycl Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa		. г : 1.15	
Breakdown torqu		: 270 %	Temperat	ure rise	: 80 K	
Rated speed		: 1445 rpm	Design		: B	
Heating constant						
Cooling constant	l 	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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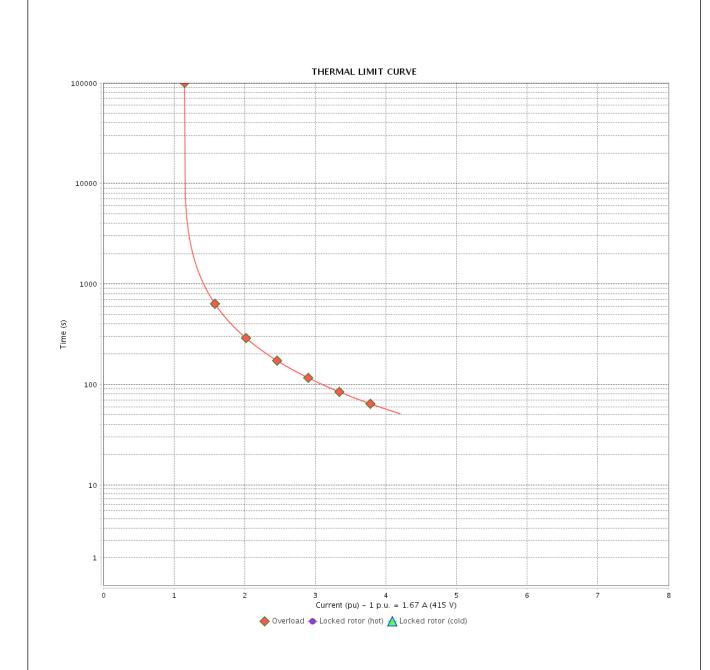


Customer		:			·	
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	13679143 00118OT3E1	43TC-SG
Dorformanas		220/445 V 50 Hz 4D				
Performance : 220/415 V 50 Hz 4P Rated current : 3.15/1.67 A LRC : 7.1 Rated torque : 3.62 ft.lb Locked rotor torque : 229 % Breakdown torque : 300 % Rated speed : 1450 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant						
Cooling constant			Т			_
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Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



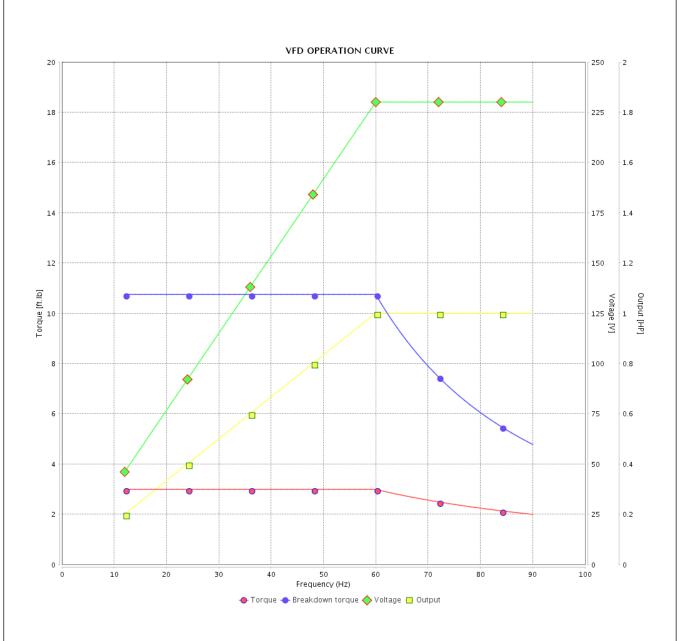
Customer :

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

Phase

Product code: 13679143

Catalog #: 00118OT3E143TC-SG



Performance	: 230/460 V 60 Hz 4P			
Rated current	: 3.02/1.51 A	Moment of inertia (J)	: 0.1101 sq.ft.lb	
LRC Rated torque	: 8.0 : 2.98 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F : : 80 K : B	
Locked rotor torque	: 290 %	Service factor		
Breakdown torque Rated speed	: 360 % : 1760 rpm	Temperature rise Design		
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

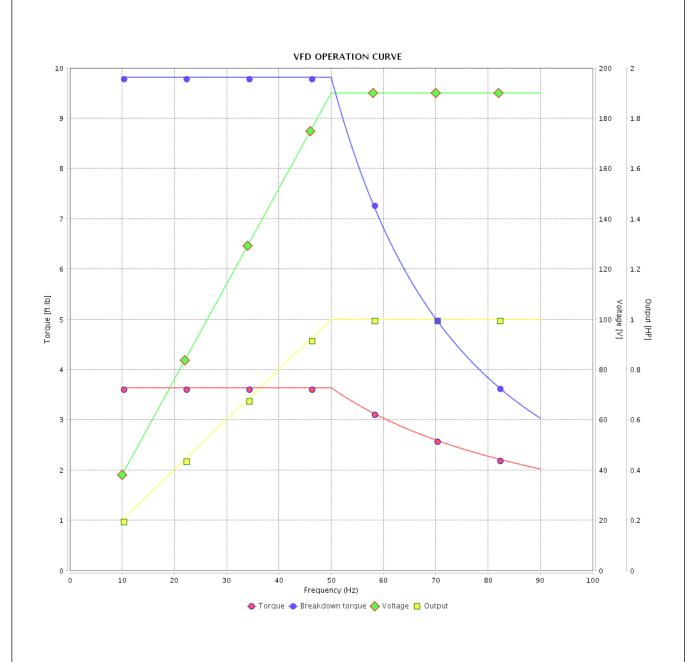


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13679143

Phase

Catalog #: 00118OT3E143TC-SG



Performance		: 190/380 V 50 Hz 4P					
Rated current		3.44/1.72 A	Moment o	f inertia (J)	: 0.1101 sq.ft.	lb	
LRC :		5.5	Duty cycle	Duty cycle : Cont.(S1)			
Rated torque		3.63 ft.lb	Insulation	Insulation class : F			
Locked rotor torque		.00 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	270 % Temperature rise Design		ıre rise	: 80 K : B		
Rated speed	: 1						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



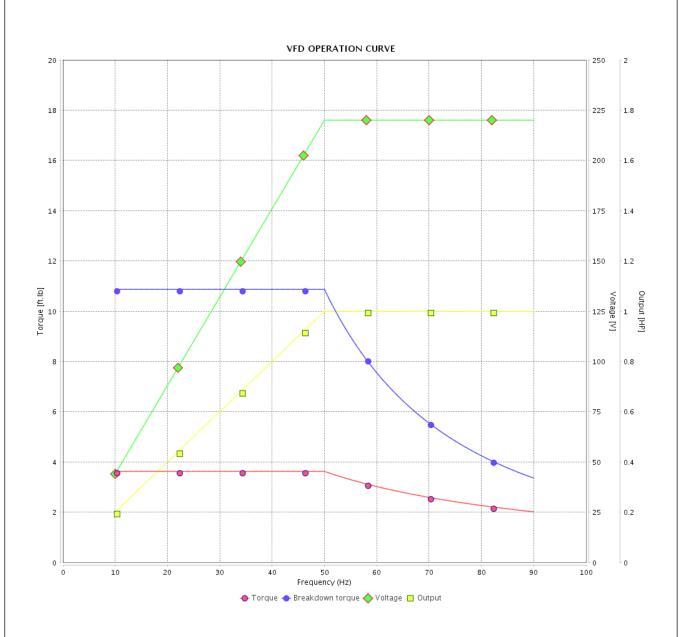
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13679143

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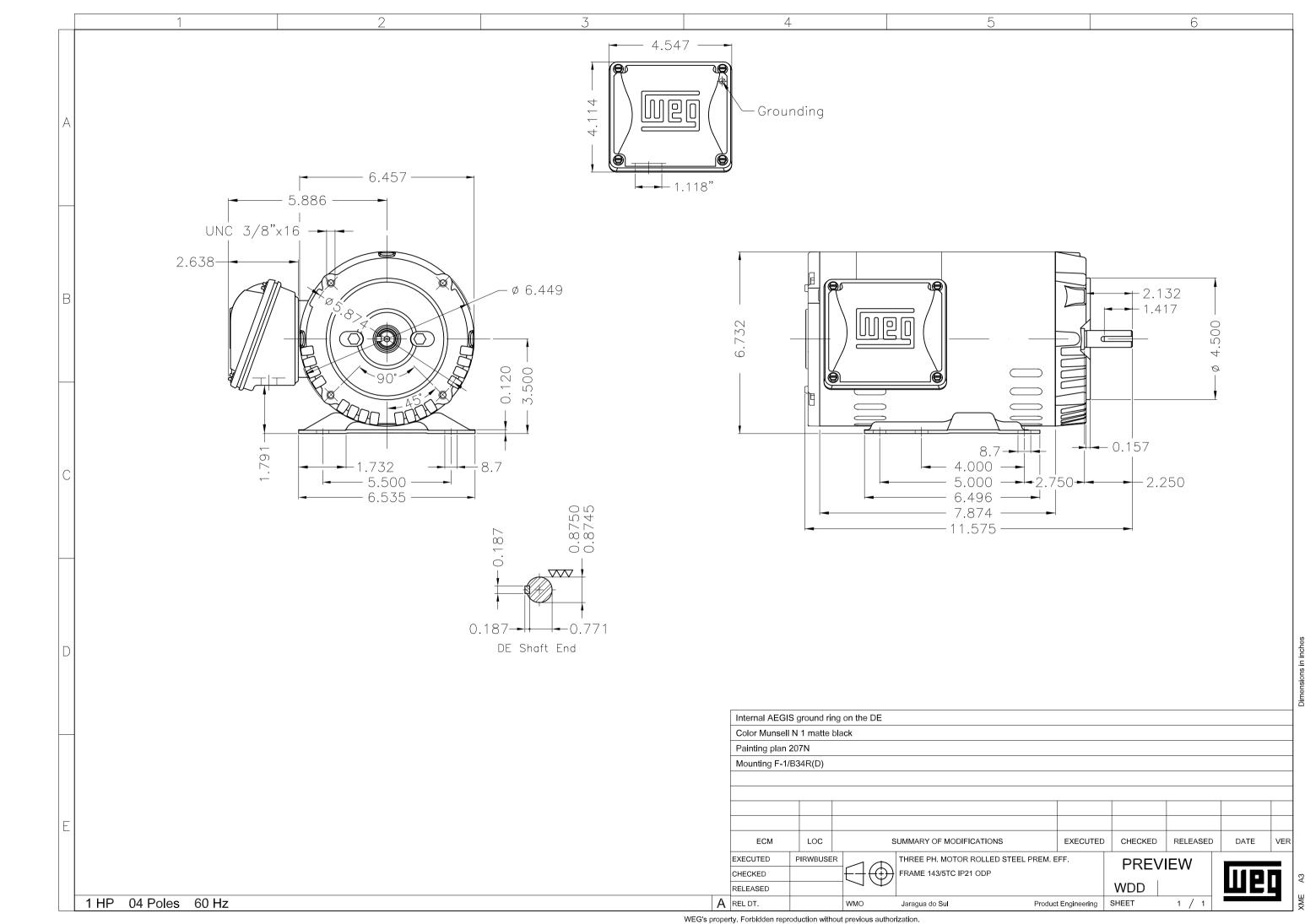


Performance	: 220/415 V 50 Hz 4P					
Rated current LRC	: 3.15/1.67 A : 7.1	Moment of inertia (J) Duty cycle		: 0.1101 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque	: 3.62 ft.lb : 229 %			: F : 1.15 : 80 K : B		
Breakdown torque Rated speed						
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CC029A N01.TODICOXON

13679143

MODEL 001180T3E143TC-SG

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143/5TC

CONT

3.02/1.51 3.47/1.74 230/460 0.75

1000 m.a.s.l

F AT 80K

NSC

2°04 900

1.15

8 Energy Verifi

IEC 60034-1 SF1.15 5:1 CT

T9-BRK RED

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine.

conformément aux codes électriques locaux et nationaux afin d'éviter tout

AVERTISSEMENT: Le moteur doit être mis à la terre

I7-PNK F5-BLK

T6-GRY T8-RED

T2-WHT

Inverter duty motor For 80Hz use on VPWM 1000:1 VT.

MOBIL POLYREX EM

8203-ZZ

ODE

8205-ZZ

牌

9

2

5

190-220/380-415V

85.5%

NOM EFF 1445RPM

50 Hz

HO!

3.44-3.15/1.72-1.67A

LTERNATE RATING:

ZPM 3FA 냃 쌆

> CODE DES

SABLE @ 208V 3.34A

SF1.00 INC. 2

EFF 82.6%

T4-YEL

13-ORG 1-BLU

shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical