DATA SHEET

Three Phase Induction Motor - Squirrel Cage



2.33

71.7

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

1.67

59.3

Catalog #: 02018ET3ER256TC-W22

3.00

72.2

2.67

71.9

1.53

53.3

Frame : 256TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

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 : 381 lb

Protection degree : IP55 | Moment of inertia (J) : 3.10 sq.ft.lb

2.00

53.6

_ = 55.g							
Output [HP]	20	15	15	15	20	20	20
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]	48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]	333/166	161	167	173	168	174	179
LRC [A]	6.9x(Code H)	7.4x(Code H)	7.9x(Code J)	8.4x(Code K)	5.7x(Code F)	6.2x(Code	6.6x(Code
						G)	
No load current [A]	19.2/9.60	9.90	10.5	11.0	9.90	10.5	11.0
Rated speed [RPM]	1770	1470	1475	1477	1455	1460	1465

1.67

53.4

L	_ocked rotor torqu	e [%]	240	250	280	300	190	210	229
E	Breakdown torque	[%]	260	290	320	340	210	229	260
S	Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
T	Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
L	ocked rotor time		54s (cold)	59s (cold)	55s (cold)	52s (cold)	39s (cold)	37s (cold)	36s (cold)
			30s (hot)	33s (hot)	31s (hot)	29s (hot)	22s (hot)	21s (hot)	20s (hot)
١	Noise level ²		64.0 dB(A)	61.0 dB(A)					
		25%	91.0	90.9	89.2	89.2	92.3	90.8	90.8
	Efficiency (%)	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
	Efficiency (70)	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
		100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
		25%	0.43	0.40	0.37	0.35	0.49	0.46	0.44
	Power Factor	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
	FUWEI FACIUI	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
		100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84

Lubrication interval : 18000 h 19000 h Lubricant amount : 13 g 9 g Lubricant type : Mobil Polyrex EM

Notes

Slip [%]

Rated torque [ft.lb]

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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

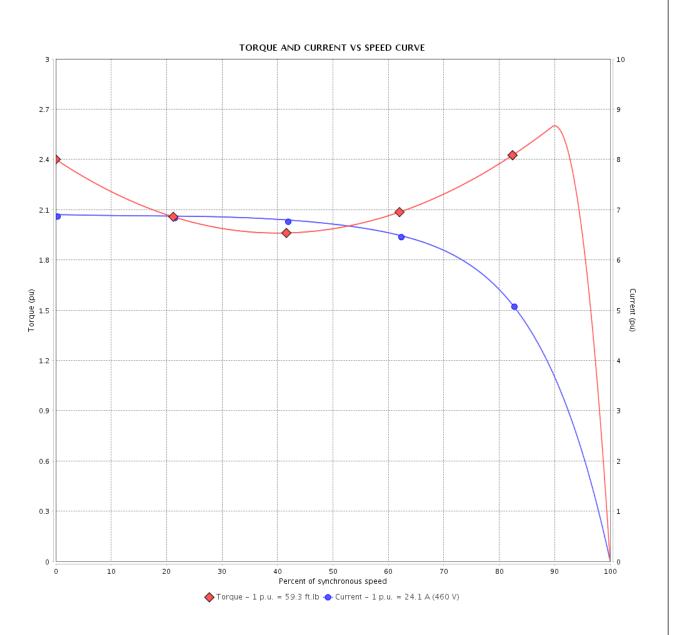


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12821881

Catalog #: 02018ET3ER256TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.3 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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1.8

1.2

Rated speed

Locked rotor time

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: 1470 rpm

14/04/2022

: 59s (cold) 33s (hot)

Changes Summary

Torque (pu)



Current

Date

Revision

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821881 Catalog #: 02018ET3ER256TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1

0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 53.6 ft.lb 🔷 Current – 1 p.u. = 21.8 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 21.8 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 53.6 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K

Design

: B

Checked

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Performed

Three Phase Induction Motor - Squirrel Cage

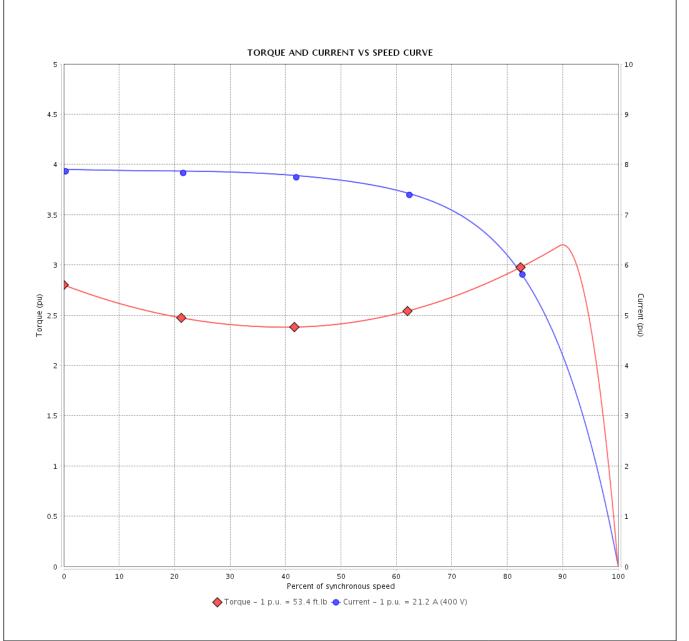


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 21.2 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 53.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Locked rotor time : 55s (cold) 31s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821881 Catalog #: 02018ET3ER256TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.3 ft.lb ◆ Current - 1 p.u. = 20.6 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 20.6 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F : 300 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Locked rotor time : 52s (cold) 29s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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Three Phase Induction Motor - Squirrel Cage



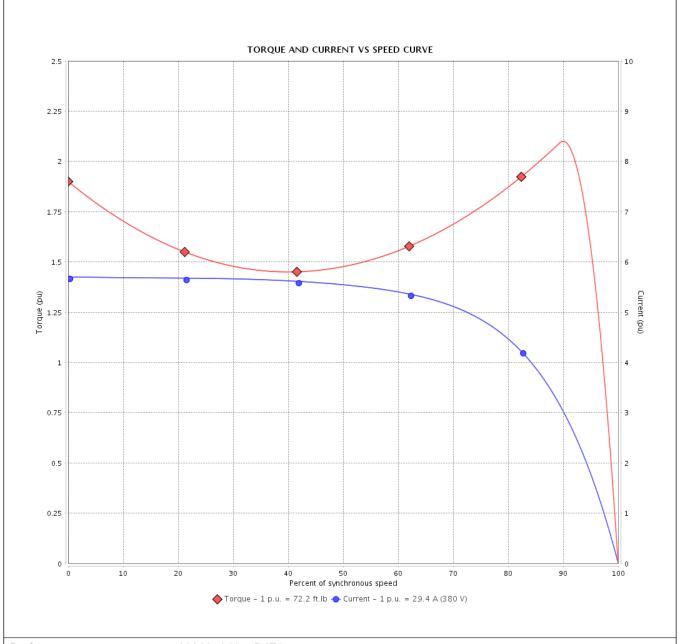
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12821881

Catalog #: 02018ET3ER256TC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 29.4 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 72.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 : 210 % : 105 K

Breakdown torque : 210 % Temperature rise : 105 k Rated speed : 1455 rpm Design : B

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

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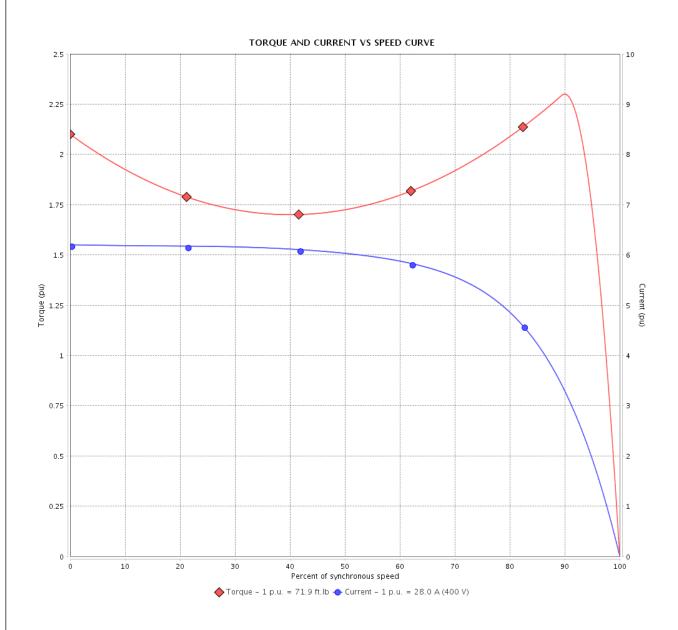
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Catalog # : 02018ET3ER256TC-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 28.0 A	Moment of inertia (J)	: 3.10 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 71.9 ft.lb	Insulation class	:F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	· 37s (cold) 21s (hot)			

Locked rotor time : 37s (cold) 21s (hot)

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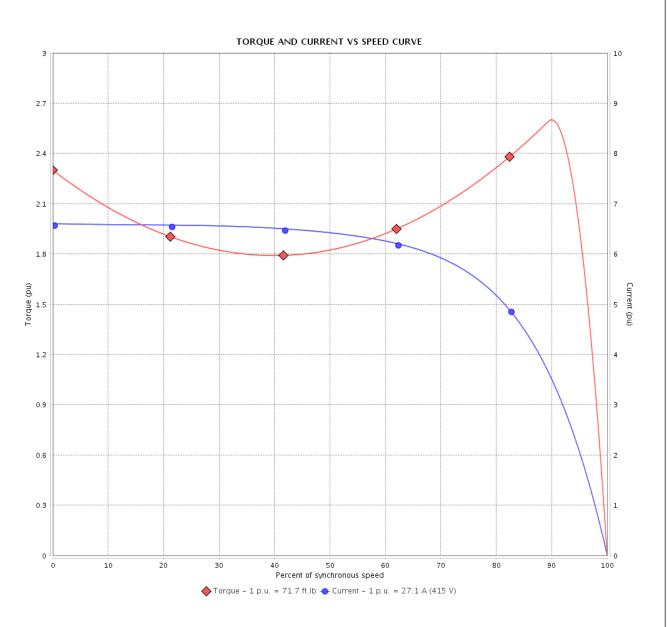


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.1 A : 6.6 : 71.7 ft.lb : 229 % : 260 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Locked rotor time	: 36s (cold) 20s (hot)		

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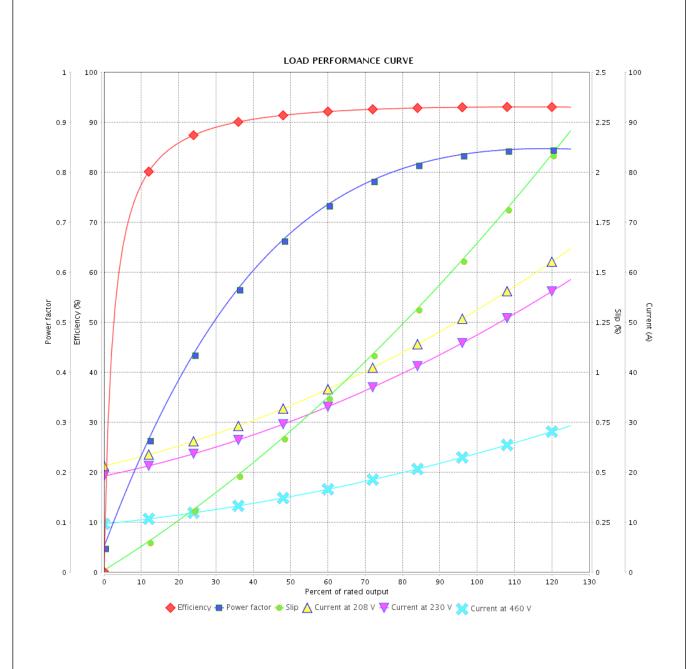


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	48.2/24.1 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	:	6.9	Duty cycle		: Cont.(S1)	
Rated torque	:	59.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	240 %	Service fa	ctor	: 1.25	
Breakdown torque	::	260 %	Temperatu	ıre rise	: 80 K	
Rated speed	:	1770 rpm	Design		: B	
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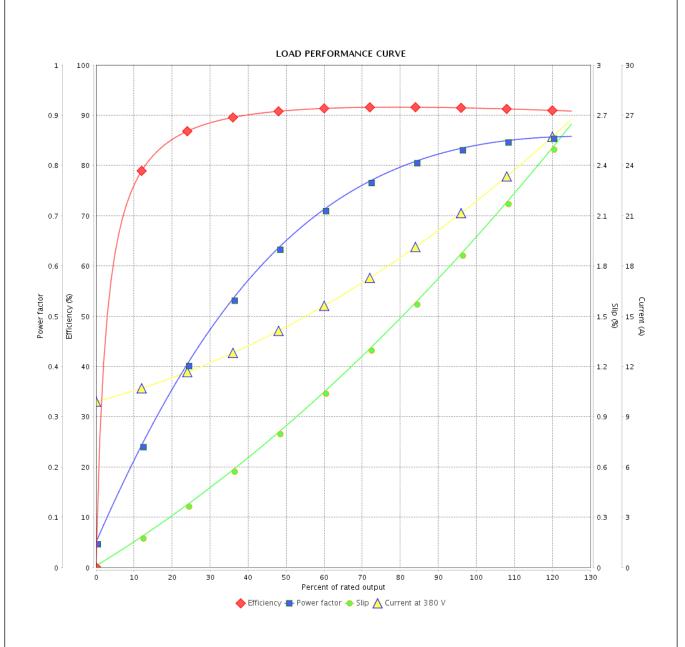
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02018ET3ER256TC-W22

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12821881



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 21.8 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	: 7.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 53.6 ft.lb	Insulation	class	: F	
Locked rotor torque	: 250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 290 %	0 % Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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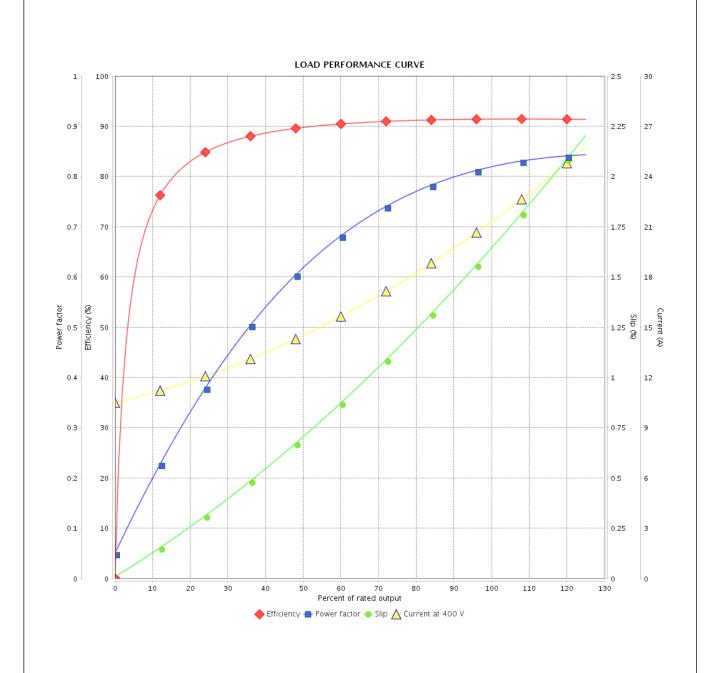


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	:	400 V 50 Hz 4P IE3				
Rated current	ated current : 21.2 A		Moment of	Moment of inertia (J)		
LRC	:	7.9	Duty cycle	;	: Cont.(S1)	
Rated torque	:	53.4 ft.lb	Insulation	class	: F	
Locked rotor torque : 2		280 %	Service fa	ctor	: 1.00	
Breakdown torque	:	320 %	Temperati	Temperature rise		
Rated speed	:	: 1475 rpm		Design		
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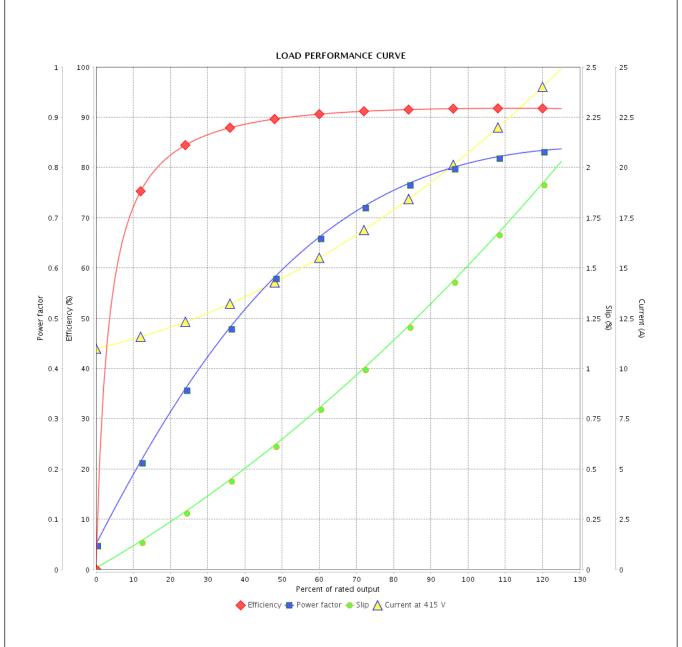
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821881

Catalog #: 02018ET3ER256TC-W22



Performance : 415 V 50 Hz 4P IE3 : 20.6 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

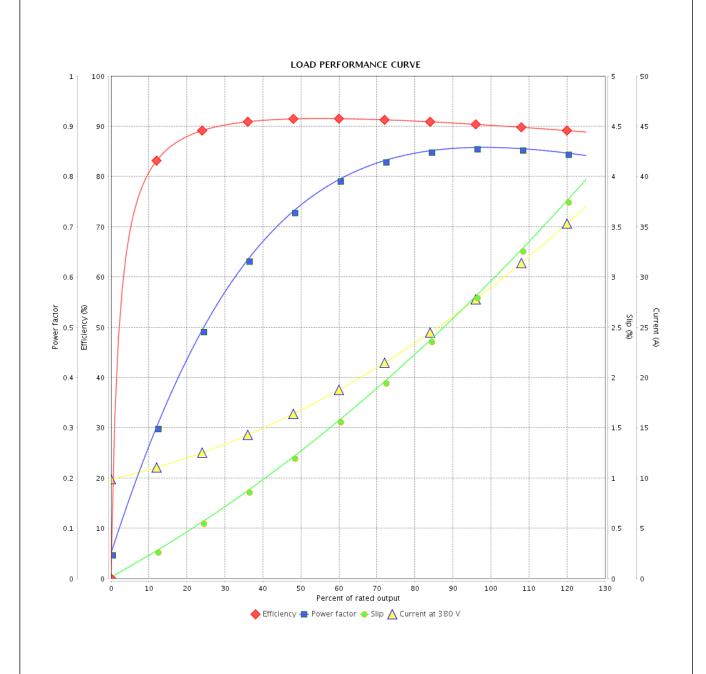


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	:	380 V 50 Hz 4P IE1				
Rated current	:	29.4 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	:	5.7	Duty cycle)	: Cont.(S1)	
Rated torque		72.2 ft.lb	Insulation	class	: F	
Locked rotor torque :		190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	210 %	Temperati	Temperature rise		
Rated speed	:	1455 rpm	Design		: B	
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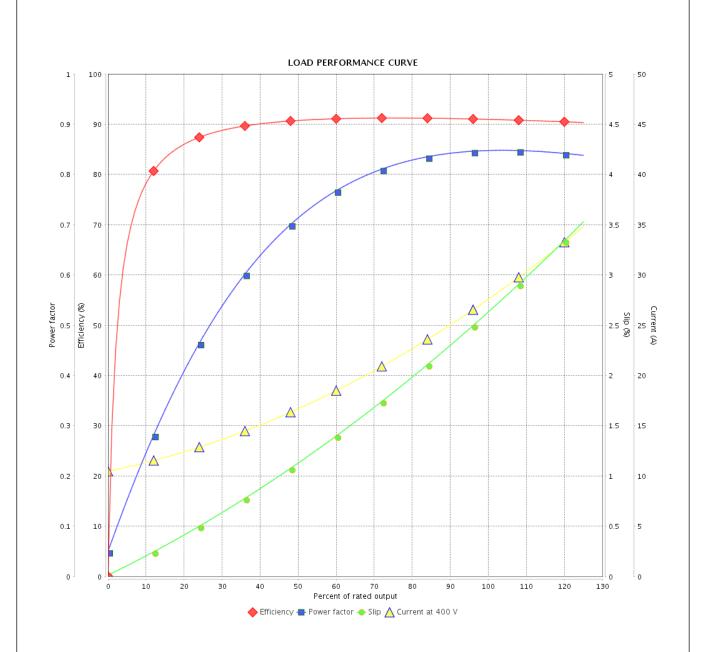
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02018ET3ER256TC-W22

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12821881



Performance : 400 V 50 Hz 4P IE2 : 28.0 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 71.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

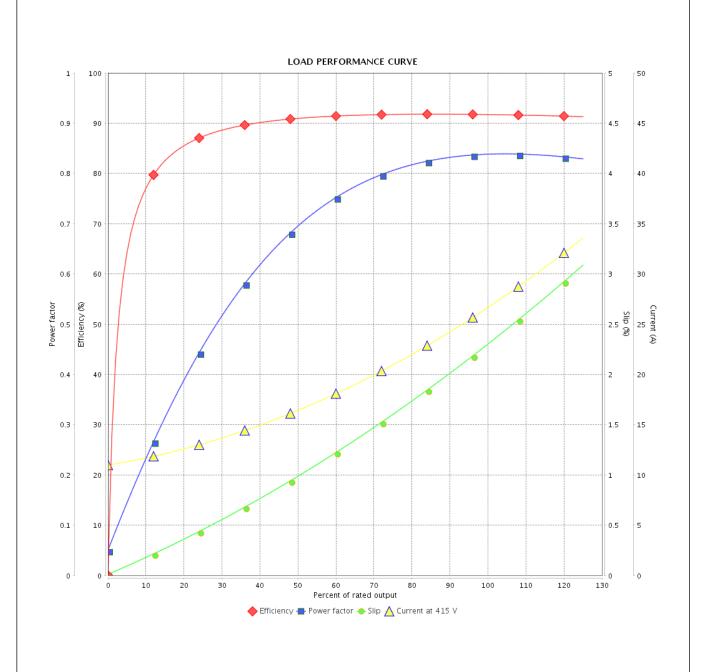


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current	I current : 27.1 A		Moment o	Moment of inertia (J)		
LRC	: 6	.6	Duty cycle		: Cont.(S1)	
Rated torque	: 7	1.7 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : 2:	29 %	Service factor		: 1.00	
Breakdown torque : 260 %		60 %	Temperature rise		: 105 K	
Rated speed	: 14	465 rpm	Design		: B	
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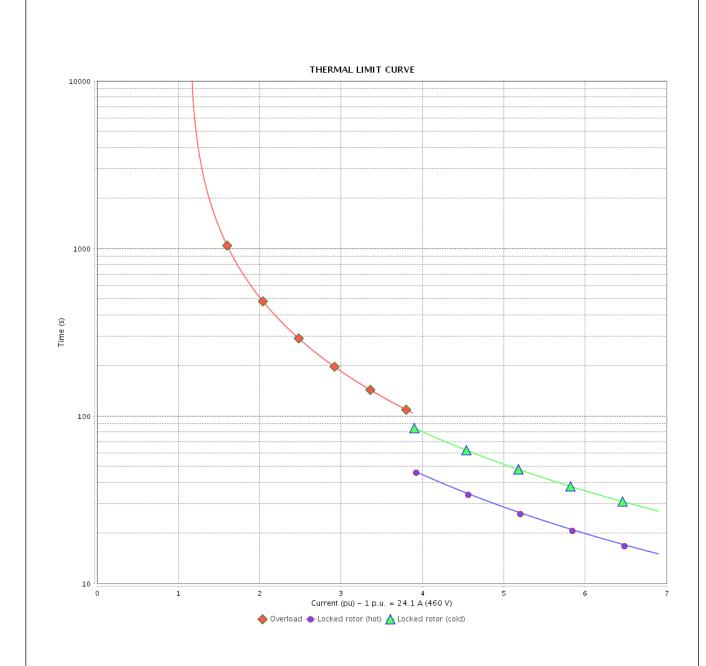


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821881	
	PI	hase		Catalog # :	02018ET3ER	256TC-W22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 48 : 6.	3.2/24.1 A 9	Moment o Duty cycle	f inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque	: 59	9.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		770 rpm	Design	110 110C	: B	
Heating constant						
Cooling constant						
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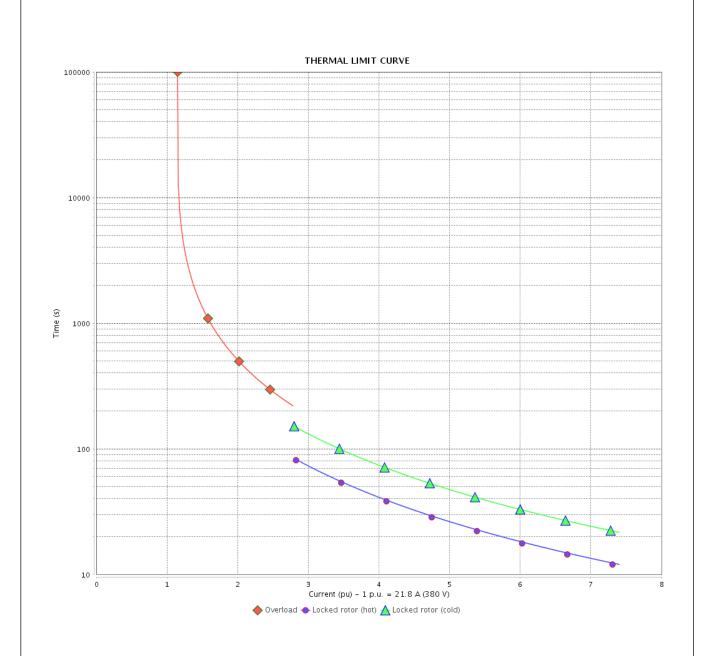


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Customer	:				
Product line	: NEMA Premium Efficiency Thase		Product code :	12821881	
		(Catalog # :	02018ET3ER	256TC-W22
Performance	: 380 V 50 Hz 4P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 21.8 A : 7.4 : 53.6 ft.lb : 250 % : 290 % : 1470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	'	- 3			
Heating constant					
Cooling constant	Changes Cummer:		Dorformed	Chaples	Doto
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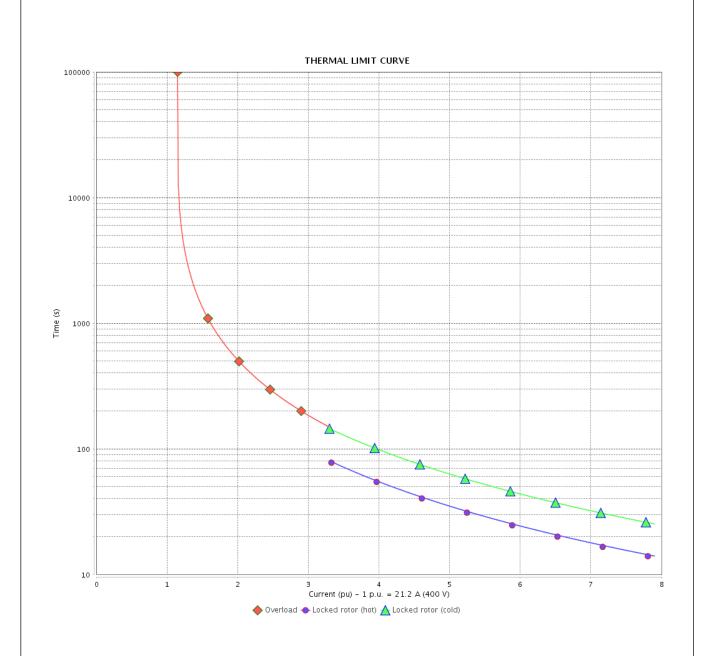


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12821881	
		Phase		Catalog # :	02018ET3ER	256TC-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 21.2 A : 7.9	Moment of Duty cycle	of inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.4 ft.lb	Insulation		: F	
Locked rotor tord		: 280 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 320 % : 1475 rpm	Temperat Design	ure rise	: 80 K : B	
		- r				
Heating constant Cooling constant						
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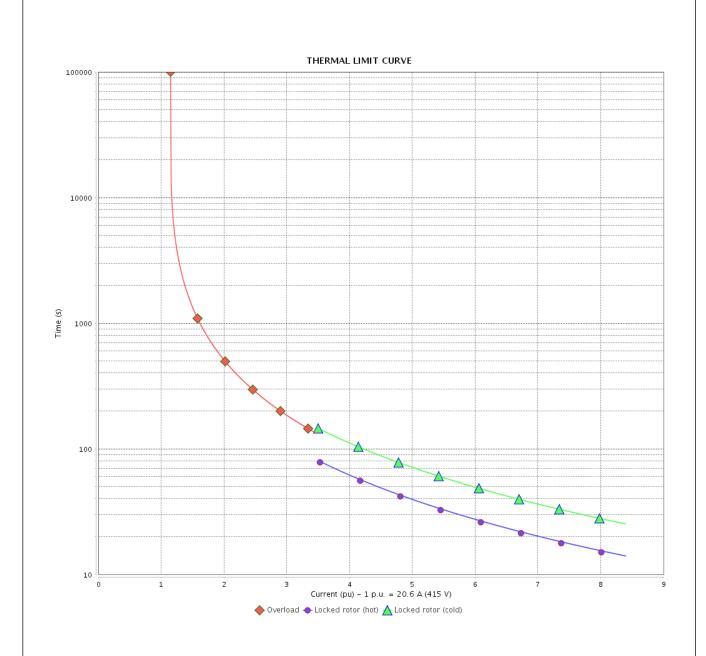


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Product line		NEMA Premium Efficiency	Three-	Product code :	12821881	
	PI	hase		Catalog # :	02018ET3ER	256TC-W22
			·-			
Performance		15 V 50 Hz 4P IE3				
Rated current LRC	: 20 : 8.	0.6 A 4	Moment of Duty cycle	f inertia (J)	: 3.10 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		477 rpm	Design		: B	
Heating constant						
Cooling constant		Change O		Derf	Ohl !	D-t-
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Three Phase Induction Motor - Squirrel Cage



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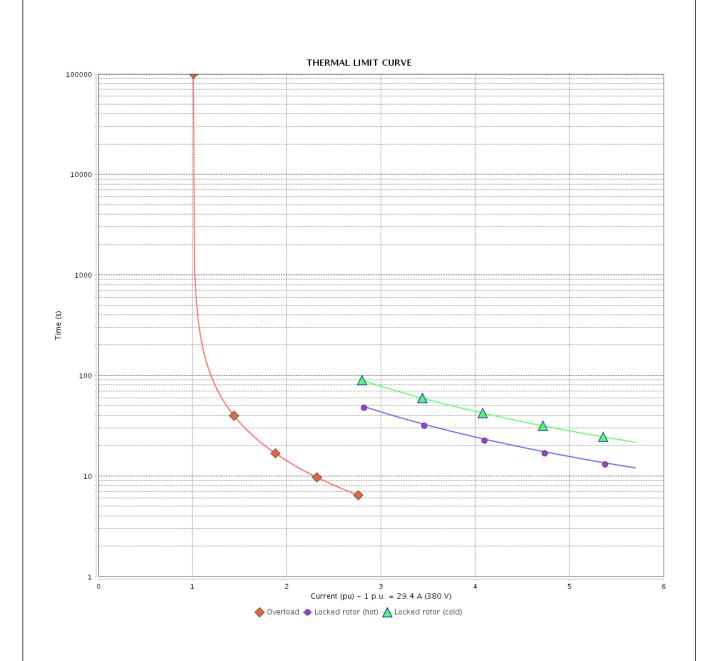


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821881 02018ET3ER	256TC-W22
					0201011311	23010-7722
Performance		: 380 V 50 Hz 4P IE1				
Rated current		: 29.4 A	Moment o	of inertia (J)	: 3.10 sq.ft.lb	
LRC Rated torque	:	: 5.7 : 72.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 190 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 210 % : 1455 rpm	Temperati Design	ure rise	: 105 K : B	
Heating constan	t					
Cooling constant	t			,		
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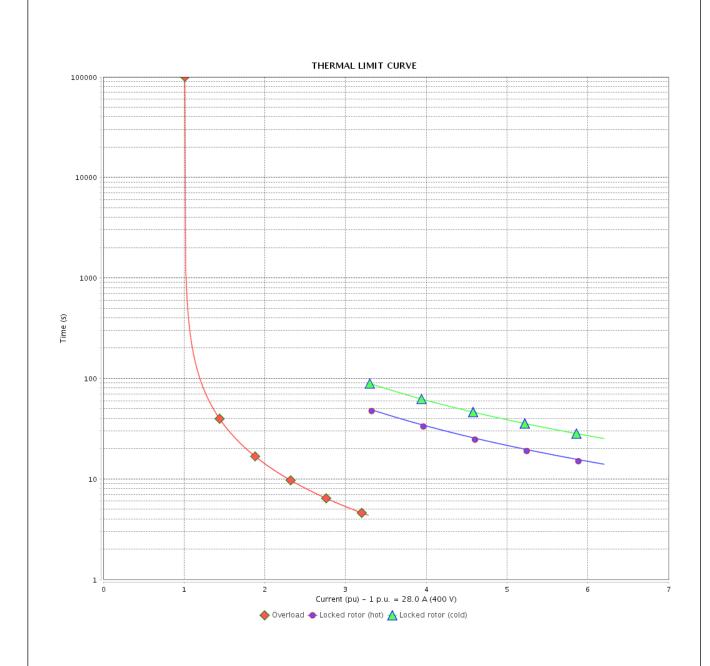


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Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	12821881	050T0 M00
		(Catalog # :	02018ET3ER	256TC-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 28.0 A : 6.2 : 71.9 ft.lb : 210 % : 229 % : 1460 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	-				
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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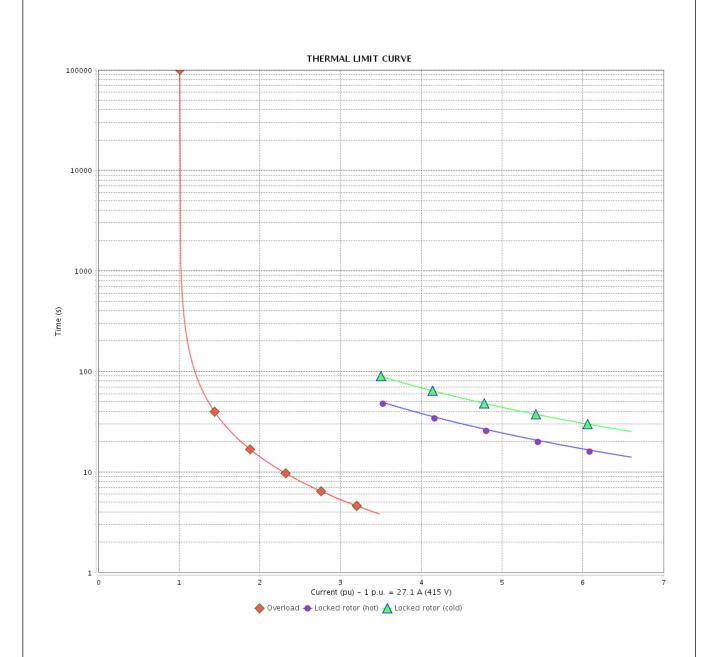


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12821881	
		i ilasc		Catalog # :	02018ET3ER2	256TC-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current		: 27.1 A	Moment of	of inertia (J)	: 3.10 sq.ft.lb	
LRC		: 6.6 : 71.7 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Rated torque Locked rotor torc		: 71.7 π.ID : 229 %	Service fa		: F : 1.00	
Breakdown torqu	ie	: 260 %	Temperat	ure rise	: 105 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t .	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :



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Three Phase Induction Motor - Squirrel Cage



Customer :

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14/04/2022

Product line : NEMA Premium Efficiency Three- F

Phase

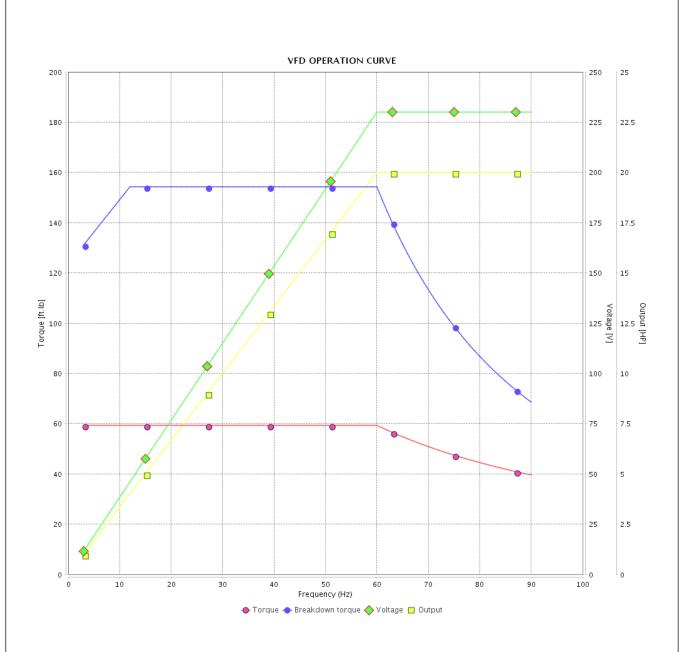
Product code: 12821881

Catalog #: 02018ET3ER256TC-W22

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Performance : 230/460 V 60 Hz 4P Rated current : 48.2/24.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class : 59.3 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

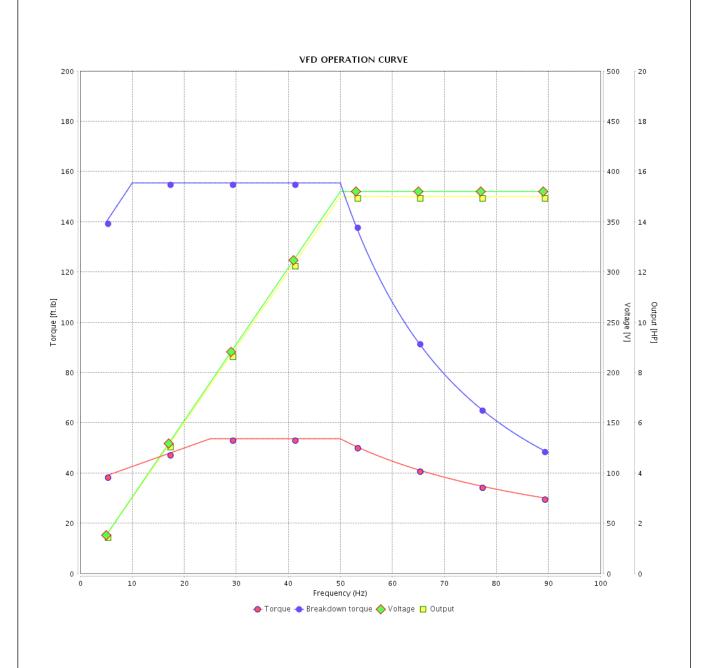
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12821881

02018ET3ER256TC-W22 Catalog #:



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	ed current : 21.8 A Moment of inertia (J)		f inertia (J)	: 3.10 sq.ft.lb		
LRC	: 7	7.4	Duty cycle	Duty cycle		
Rated torque	: 5	53.6 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	290 %	Temperature rise		: 80 K	
Rated speed	: 1	1470 rpm	Design		: B	
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Customer :

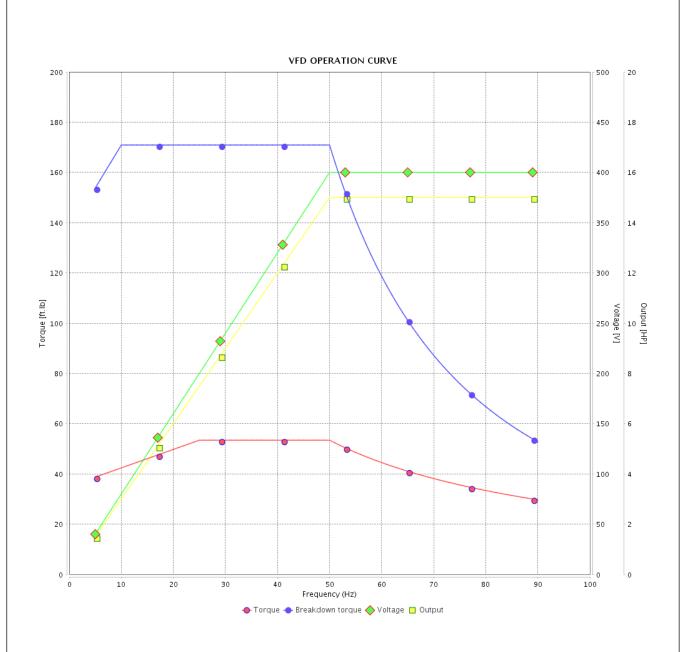
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821881

Catalog #: 02018ET3ER256TC-W22

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			-1			
Performance	: 40	00 V 50 Hz 4P IE3				
LRC : 7.9		I.2 A 9 3.4 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 3.10 sq.ft.lb : Cont.(S1) : F	
Locked rotor toro Breakdown torqu Rated speed	que : 28 ue : 32	20 % 175 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

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Three Phase Induction Motor - Squirrel Cage

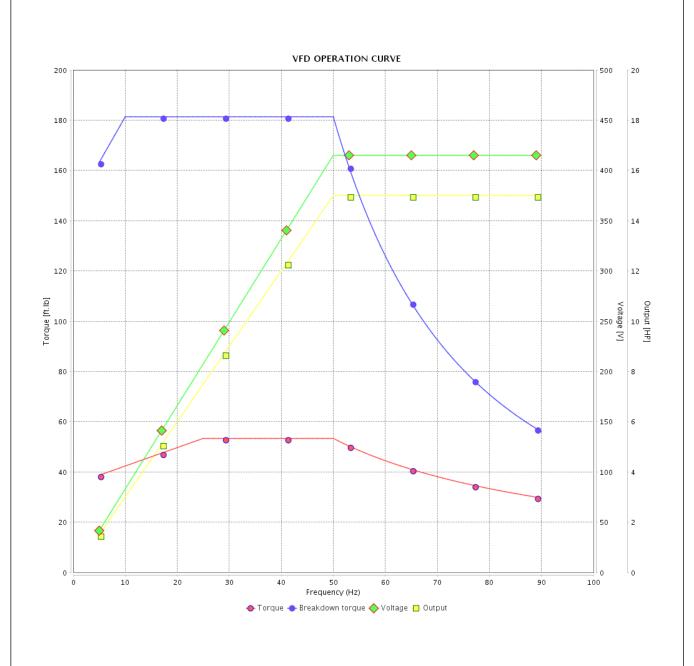


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	: 4	415 V 50 Hz 4P IE3				
Rated current	::	20.6 A	Moment o	Moment of inertia (J)		
LRC	: 8	8.4	Duty cycle		: Cont.(S1)	
Rated torque	: :	53.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	300 %	Service fa	ctor	: 1.00	
Breakdown torque	::	340 %	Temperature rise		: 80 K	
Rated speed	:	1477 rpm	Design		: B	
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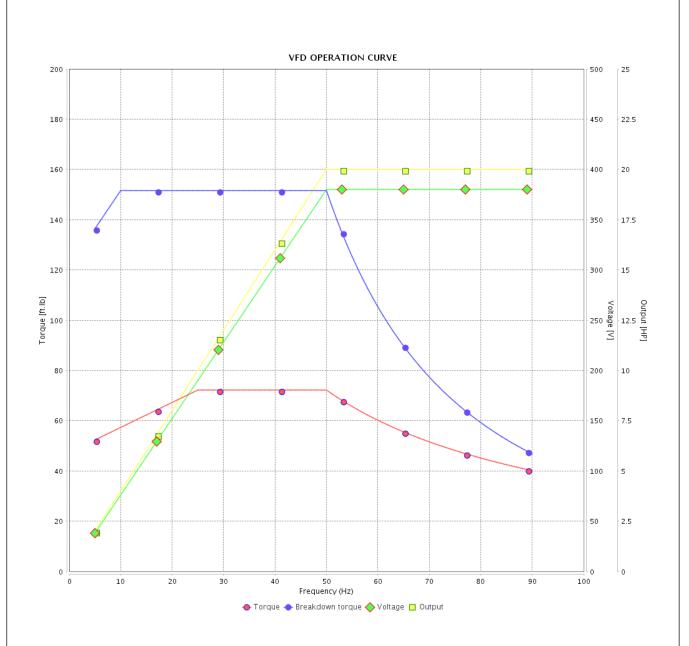
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821881

Catalog #: 02018ET3ER256TC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 29.4 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 72.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B

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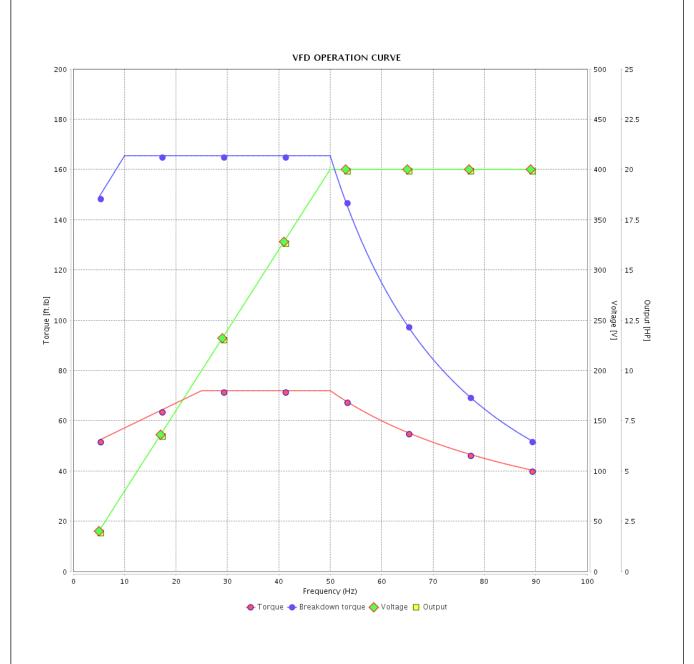


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821881

Phase

Catalog #: 02018ET3ER256TC-W22



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current : 28		8.0 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	: 6	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 7	1.9 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	e : 2	29 %	Temperature rise		: 105 K	
Rated speed	: 1	460 rpm	m Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

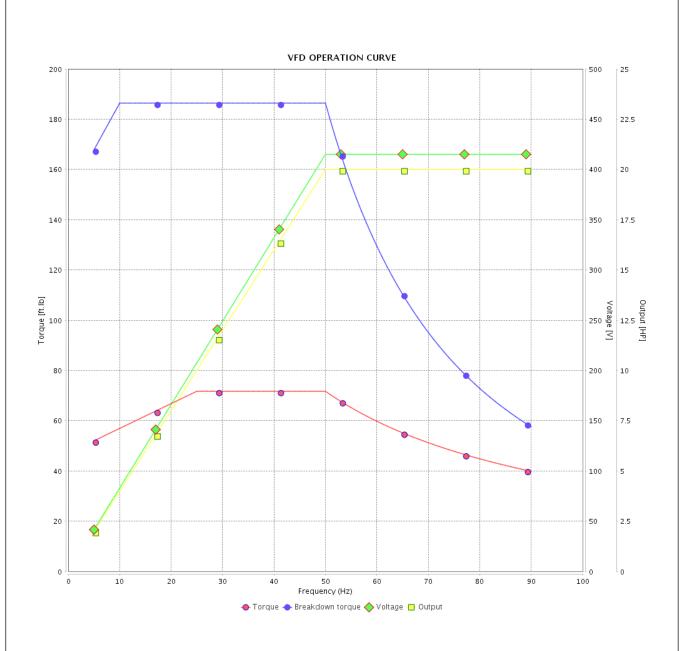
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Performance : 415 V 50 Hz 4P IE2 Rated current : 27.1 A Moment of inertia (J) : 3.10 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class : 71.7 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

