### **DATA SHEET**

Checked by

Date

04/10/2023

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 16689599 Three-Phase Catalog #: 07518ST3QAP365T-W22 Frame : 364/5T Cooling method : IC411 - TEFC Insulation class Mounting : W-8 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 954 lb Altitude : IP56 Moment of inertia (J) Protection degree : 23.3 sq.ft.lb Design : B Output [HP] 75 75 75 75 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 87.2 106 102 98.7 L. R. Amperes [A] 541 571 602 558 LRC [A] 6.4x(Code G) 5.1x(Code E) 5.6x(Code F) 6.1x(Code G) No load current [A] 33.0 33.0 35.0 38.0 Rated speed [RPM] 1780 1475 1475 1480 Slip [%] 1.11 1.67 1.67 1.33 Rated torque [ft.lb] 221 267 267 266 Locked rotor torque [%] 240 170 200 210 Breakdown torque [%] 260 200 220 240 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level<sup>2</sup> 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 94.0 94.9 94.7 94.0 50% 94.5 94.5 94.5 94.1 Efficiency (%) 75% 95.0 94.1 94.5 94.5 94.1 94.5 100% 95.4 93.6 0.44 0.46 0.43 25% 0.51 50% 0.75 0.70 0.68 0.67 Power Factor 75% 0.78 0.82 0.80 0.78 100% 0.83 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power 4.7 P1 (0,9;1,0) 4.7 4.7 4.7 P2 (0,5;1,0) 3.7 3.7 3.7 3.7 P3 (0,25;1,0) 3.4 3.4 3.4 3.4 P4 (0,9;0,5) 2.4 2.4 2.4 2.4 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 Drive end Non drive end Foundation loads Bearing type NU-314 C3 6314 C3 Max. traction : 1709 lb Inpro/Seal Inpro/Seal Sealing Max. compression : 2663 lb 4000 h 6000 h Lubrication interval Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). **Changes Summary** Performed Checked Rev. Date Performed by

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### Three Phase Induction Motor - Squirrel Cage

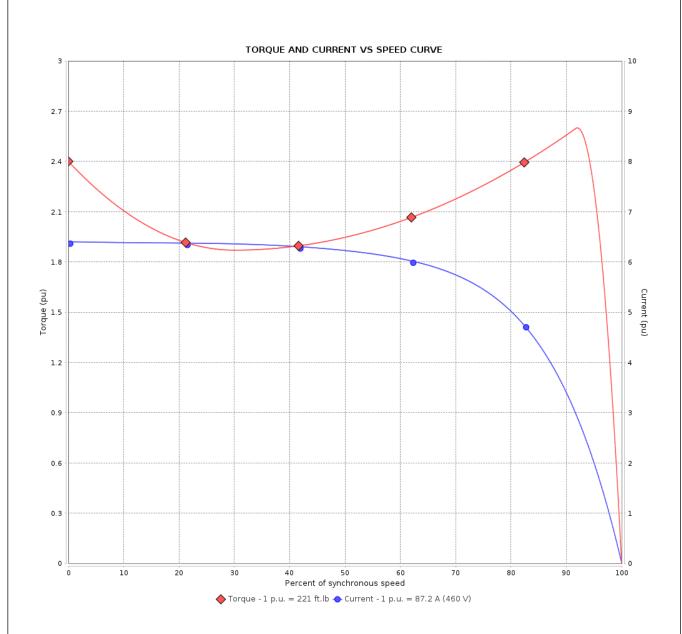


Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance	: 460 V 60 Hz 4P			
Rated current	: 87.2 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 221 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1780 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)	1		

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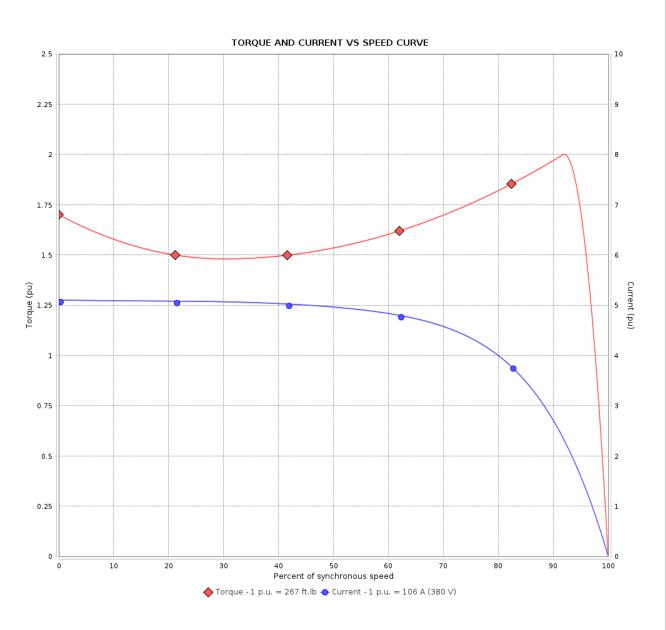
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 106 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 267 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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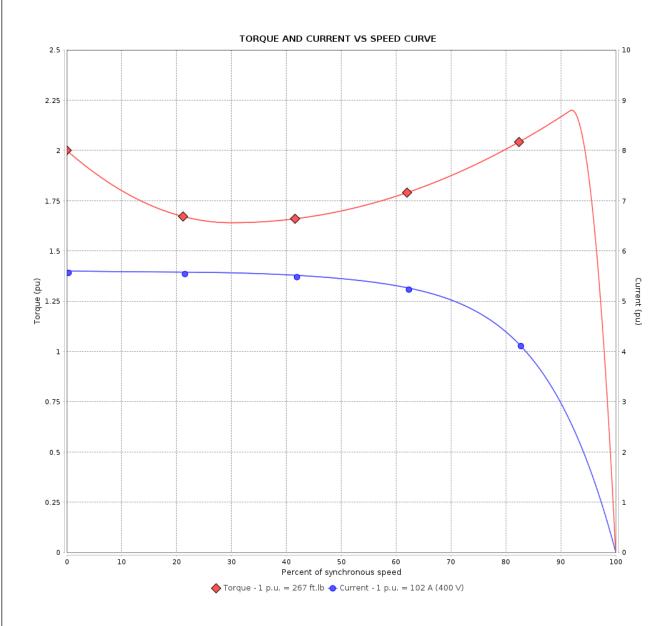
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Product code:

16689599

Catalog #: 07518ST3QAP365T-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 102 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5.6	Duty cycle	: Cont.(S1)	
Rated torque	: 267 ft.lb	Insulation class	:F ^	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (bot)			

LOCKCO TOTOL UITA		33 (cold) 103 (110t)			
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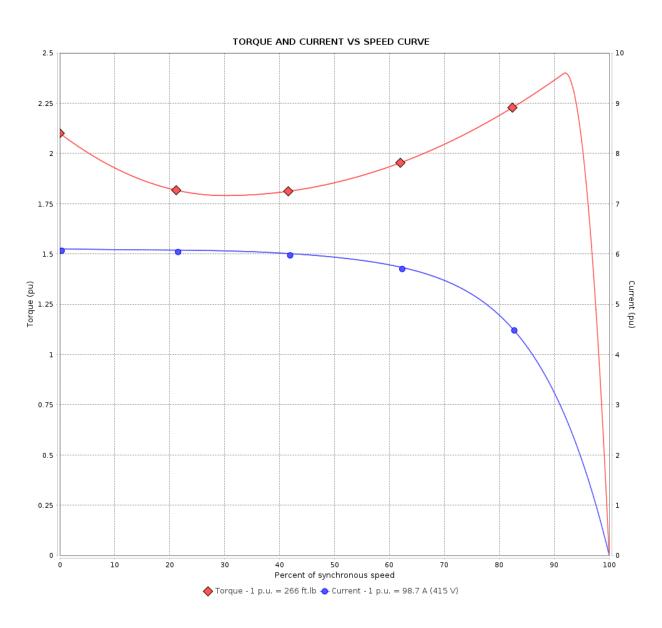
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 98.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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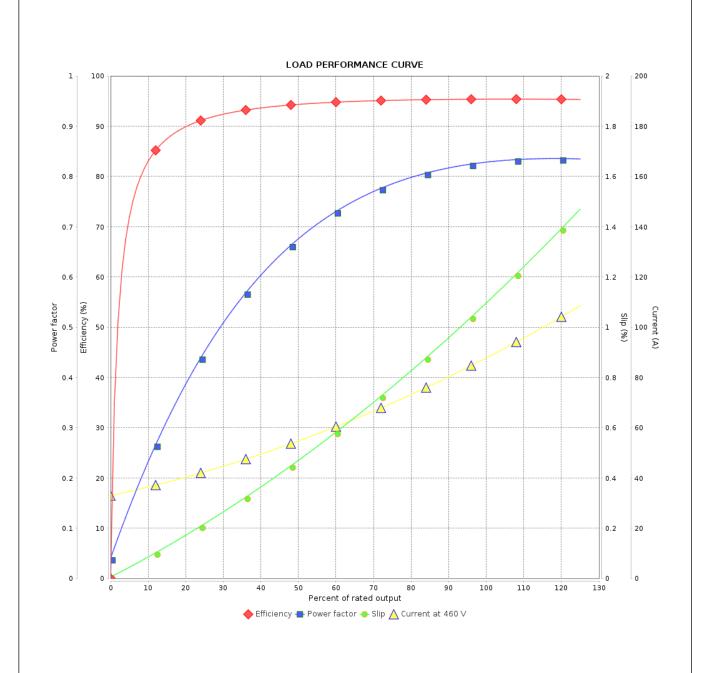
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance	: 4	460 V 60 Hz 4P				
Rated current	: 8	37.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	: 6.4 Duty cycle		: Cont.(S1)		
Rated torque	lated torque : 221 ft.lb Insulation class		class	:F		
Locked rotor torque : 240 % Service factor		ctor	: 1.15			
Breakdown torque	: 2	260 %	Temperati	Temperature rise		
Rated speed	: '	1780 rpm	Design		: B	
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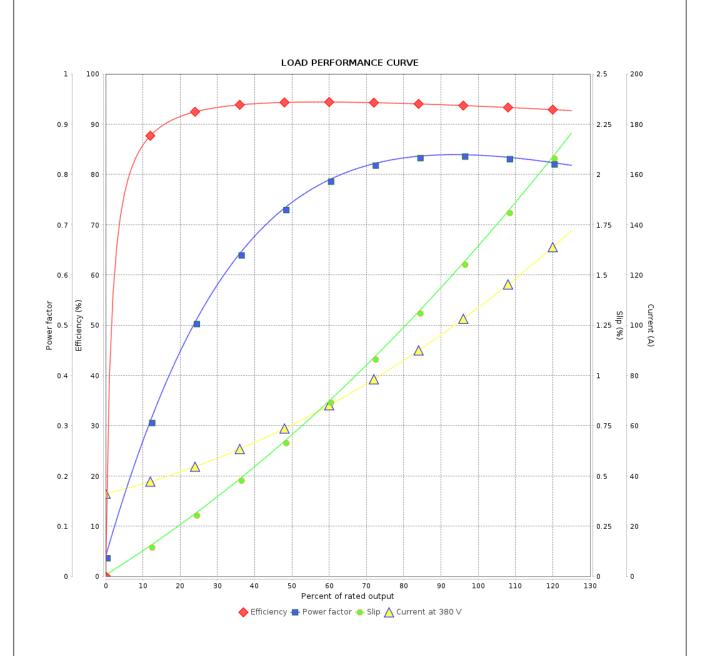
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

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Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 106 A	Moment of inertia (J)		: 23.3 sq.ft.lb	
LRC	: 5.1	Duty cycle		: Cont.(S1)	
Rated torque	: 267 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 170 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 1475 rpm	Design		: B	
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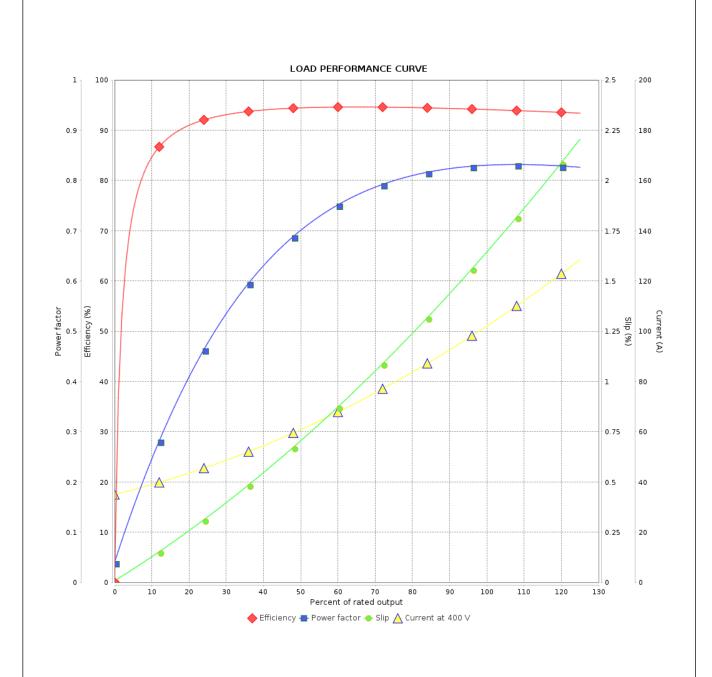
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



	·					
Performance	:	400 V 50 Hz 4P IE2				
Rated current	:	102 A	Moment of	f inertia (J)	: 23.3 sq.ft.lb	
LRC	:	5.6	Duty cycle	)	: Cont.(S1)	
Rated torque : 267 ft.lb Insulation class		class	: F			
Locked rotor torque : 200 % Service factor		ctor	: 1.00			
Breakdown torque	:	220 %	Temperati	ıre rise	: 105 K	
Rated speed	:	1475 rpm	Design		: B	
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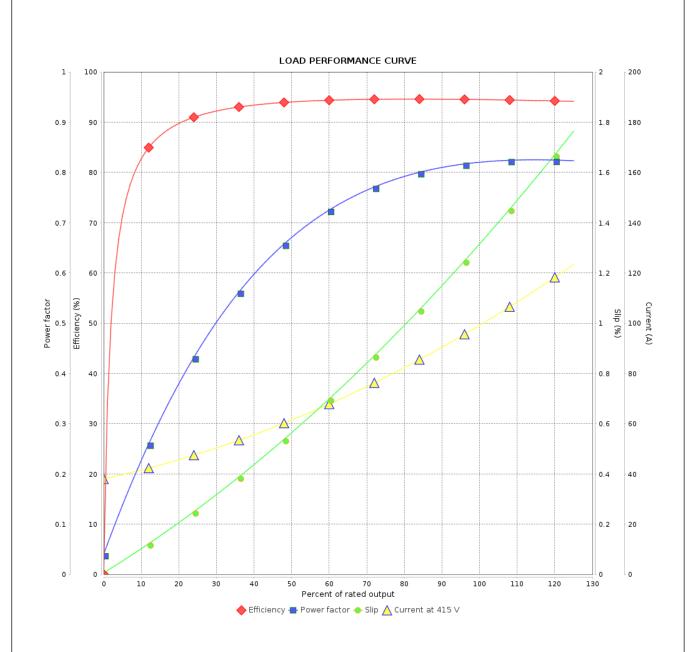
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22

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Performance	: 415 V 50 Hz 4P IE2	E2			
Rated current LRC Rated torque Locked rotor torque	: 98.7 A : 6.1 : 266 ft.lb : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	kdown torque : 240 % Temperature rise			: 105 K : B	
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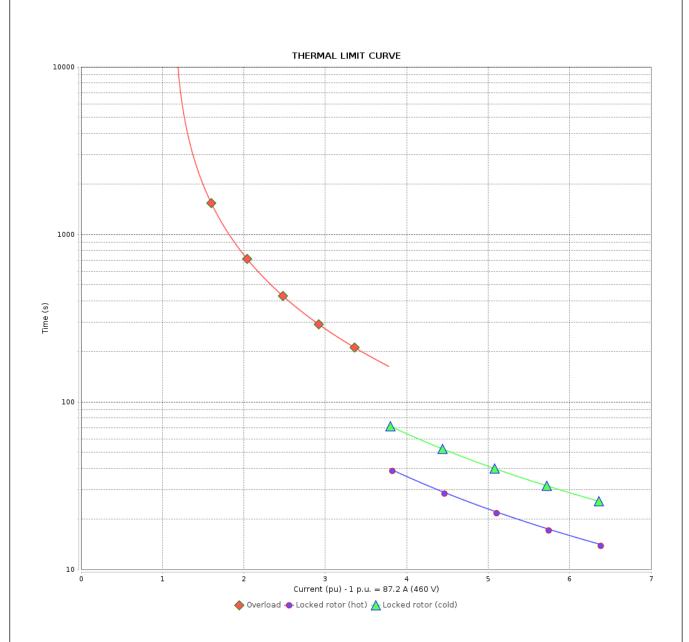


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Performance		: 460 V 60 Hz 4P				
Rated current		: 87.2 A	Moment	of inertia (J)	: 23.3 sq.ft.lb	
RC		: 6.4	Duty cyc	cle	: Cont.(S1)	
Rated torque .ocked rotor tord		: 221 ft.lb : 240 %	Insulation Service		: F : 1.15	
Breakdown torqu	ie :	: 260 %	Tempera	ature rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B	
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Cooling constant	t					
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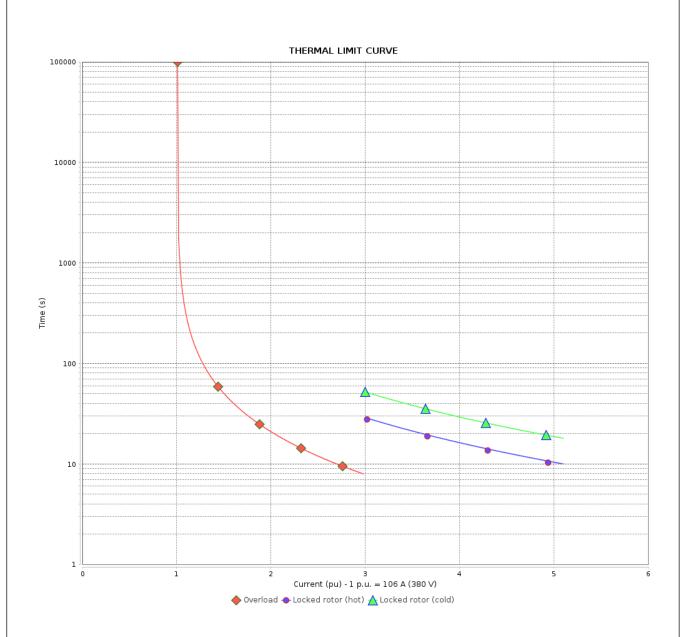


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Product line	: W22 IEEE 841 NEMA Premium	Efficiency	Product code :	16689599	
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			Catalog # :	07518ST3Q	AP3651-W2
Performance	: 380 V 50 Hz 4P IE2				
Rated current _RC	: 106 A : 5.1	Momen Duty cy	t of inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 267 ft.lb		on class	: F	
_ocked rotor torque	e : 170 %	Service		: 1.00	
Breakdown torque Rated speed	: 200 % : 1475 rpm	Design	ature rise	: 105 K : B	
Heating constant	•	- J.			
Cooling constant					
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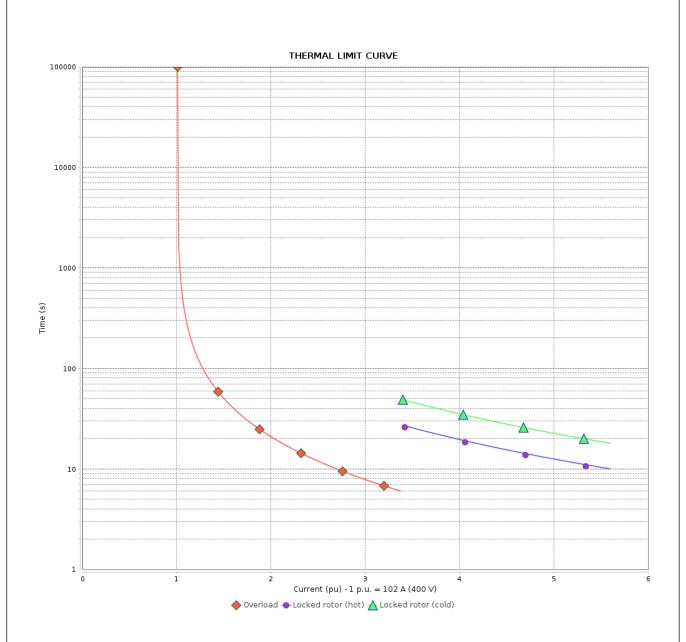


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Product line	: W22	EEE 841 NEMA P	remium Efficien	cy Prod	uct code :	16689599	
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Performance Rated current		: 400 V 50 Hz 4P : 102 A		oment of ine	rtia (J)	: 23.3 sq.ft.lb	
.RC		: 5.6	Du	ıty cycle		: Cont.(S1)	
Rated torque .ocked rotor tord		: 267 ft.lb : 200 %		sulation class ervice factor	S	: F : 1.00	
Breakdown torqu	ue	: 220 %	Te	mperature ri	se	: 105 K	
Rated speed		: 1475 rpm	De	esign		: B	
Heating constan							
Cooling constant	t	Changes Sum	marv		Performed	Checked	Date
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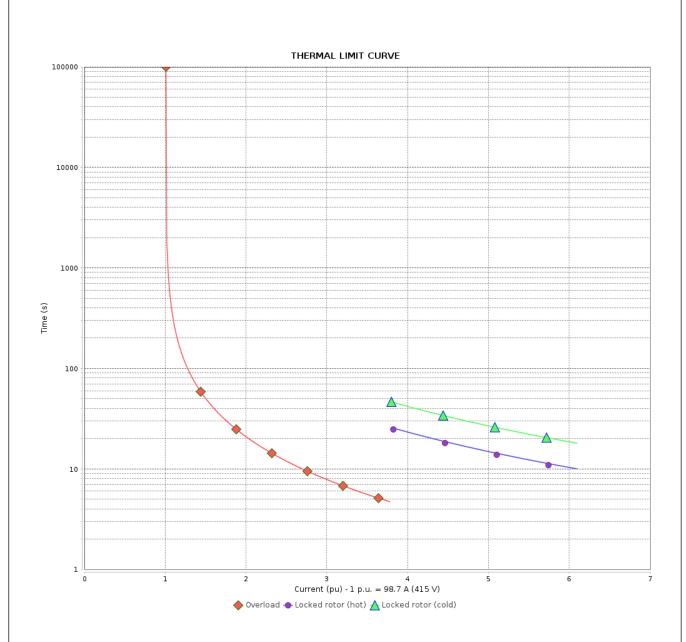


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Customer	:					
Product line	: W22 II	EEE 841 NEMA Pre	mium Efficiency	Product code :	16689599	
	Three-F	mase		Catalog # :	07518ST3QA	P365T-W
Performance		. 445 \ / 50 LI= 4D LE				
Rated current		: 415 V 50 Hz 4P IE: : 98.7 A		t of inertia (J)	: 23.3 sq.ft.lb	
.RC		6.1	Duty cy	cle	: Cont.(S1)	
Rated torque .ocked rotor tord		: 266 ft.lb : 210 %	Insulation   Insulation   Service	on class factor	: F : 1.00	
Breakdown torqu	ue	240 %	Temper	ature rise	: 105 K	
Rated speed		: 1480 rpm	Design		: B	
leating constant						
Cooling constant Rev.	t 	Changes Summa		Performed	Checked	Date
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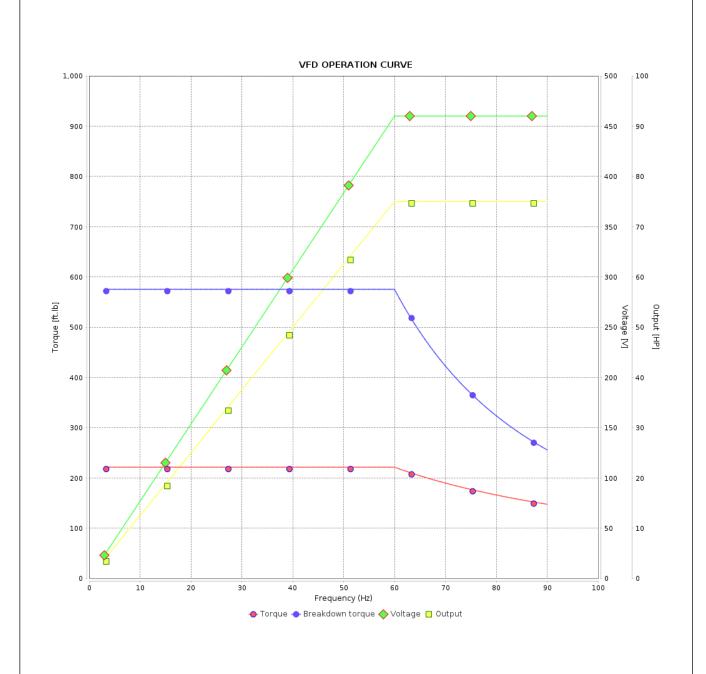
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog # : 07518ST3QAP365T-W22



Performance	:	460 V 60 Hz 4P				
Rated current	:	87.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	:	6.4	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	221 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.15	
Breakdown torque		260 %	Temperature rise		: 80 K	
Rated speed	:	1780 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



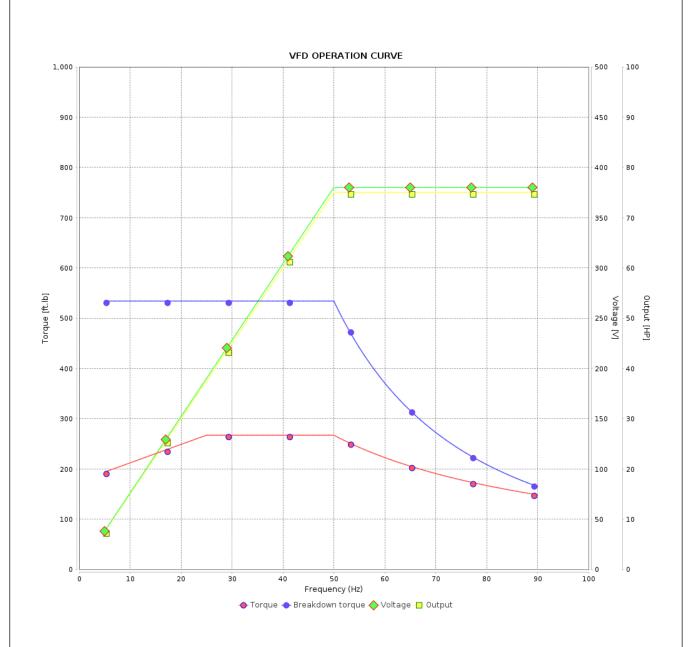
Customer :

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Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance : 380 V 50 Hz 4P IE2 : 106 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 267 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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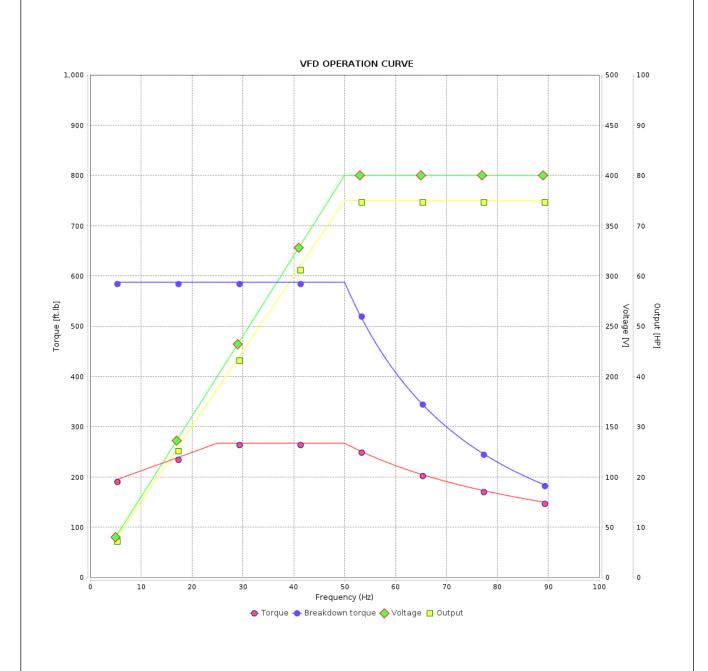
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16689599

Catalog #: 07518ST3QAP365T-W22



Performance	: 40	00 V 50 Hz 4P IE2				
LRC : 5.0		02 A 6 67 ft.lb	Duty cycle	Moment of inertia (J) Duty cycle Insulation class		
Locked rotor torque Breakdown torque Rated speed	: 22	00 % 20 % 475 rpm	Service factor Temperature rise Design		: 1.00 : 105 K : B	
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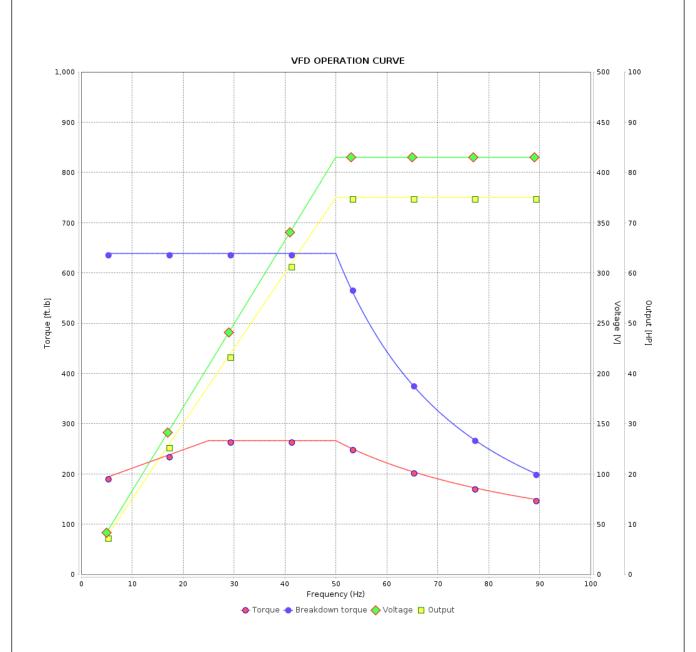
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Performance : 415 V 50 Hz 4P IE2 Rated current : 98.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

