DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IEEE 841 NEMA Premium Efficiency Product code: 16684654 Three-Phase Catalog #: 05018ST3QAP326T-W22 : 324/6T Cooling method : IC411 - TEFC Frame Insulation class Mounting : W-8 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight3 Altitude : 1000 m.a.s.l. : 607 lb Protection degree : IP56 Moment of inertia (J) : 9.16 sq.ft.lb : B Design Output [HP] 50 40 40 40 50 50 Poles 4 4 4 4 60 50 50 50 50 50 50 Frequency [Hz] 380 400 Rated voltage [V] 460 380 400 415 415 Rated current [A] 68.4 59.2 58.7 57.1 56.4 71.6 66.3 372 L. R. Amperes [A] 367 376 400 417 397 411 6.4x(Code | 7.0x(Code H) | 7.4x(Code J) | 5.2x(Code E) | 5.8x(Code F) 6.2x(Code LRC [A] 6.2x(Code G) G) G) No load current [A] 23.5 23.0 24.0 25.0 23.0 24.0 25.0 Rated speed [RPM] 1775 1475 1478 1460 1465 1470 1477 2.67 Slip [%] 1.39 1.67 1.53 1.47 2.33 2.00 Rated torque [ft.lb] 148 142 142 142 180 179 179 Locked rotor torque [%] 229 229 250 260 180 200 210 Breakdown torque [%] 270 260 300 330 200 240 260 Service factor 1.15 1.00 1.00 1.00 1.00 1.00 1.00 80 K Temperature rise 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 level² 70.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 92.5 91.9 90.6 90.3 93.3 92.2 91.8 50% 93.0 92.5 91.5 91.1 93.0 92.4 92.4 Efficiency (%) 75% 94.1 93.1 92.8 93.0 93.0 93.0 93.0 100% 92.4 94.5 93.6 93.6 93.6 93.0 93.5 25% 0.42 0.41 0.38 0.36 0.48 0.45 0.42 50% 0.66 0.64 0.60 0.57 0.72 0.68 0.65 Power Factor 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 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.7 5.7 5.7 5.7 5.7 5.7 5.7 P2 (0,5;1,0) 4.9 4.9 4.9 4.9 4.9 4.9 4.9 P3 (0,25;1,0) 4.7 4.7 4.7 4.7 4.7 4.7 4.7 P4 (0,9;0,5) 2.7 2.7 2.7 2.7 2.7 2.7 2.7 Losses (%) P5 (0,5;0,5) 1.9 1.9 1.9 1.9 1.9 1.9 1.9 P6 (0,5;0,25) 1.2 1.2 1.2 1.2 1.2 1.2 1.2 P7 0.9 0.9 0.9 0.9 0.9 0.9 0.9 (0,25;0,25)Non drive end Foundation loads Drive end Bearing type NU-312 C3 6212 C3 : 1479 lb Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 2086 lb Lubrication interval 10000 h 15000 h Lubricant amount 21 a 13 g Lubricant type Mobil Polyrex EM

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			1 / 37	

DATA SHEET



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Three Phase Induction Motor - Squirrel Cage



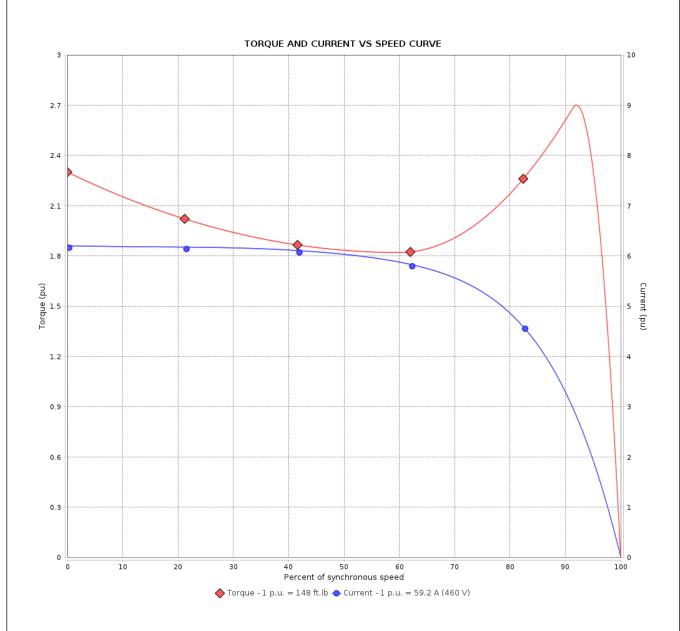
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	: 460 V 60 Hz 4P			
Rated current	: 59.2 A	Moment of 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	: 229 %	Service factor	: 1.15	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 1775 rpm	Design	: B	
Locked rotor time	· 27s (cold) 15s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	04/10/2023			3 / 37	

Three Phase Induction Motor - Squirrel Cage



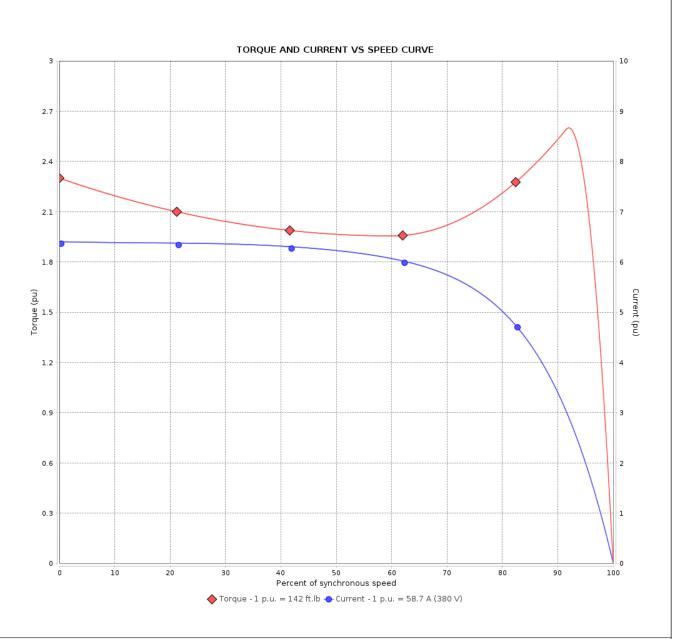
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-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) : 142 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			4 / 37	

Three Phase Induction Motor - Squirrel Cage



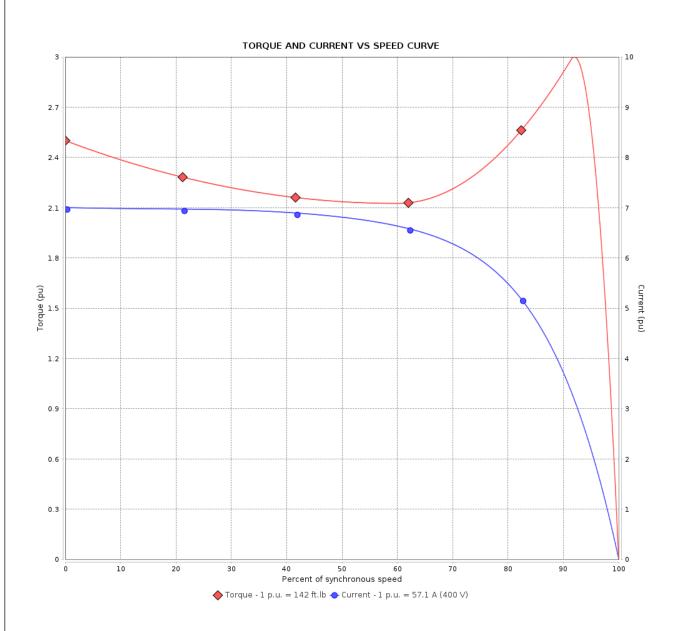
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-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)	
Rated torque	: 142 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1477 rpm	Design	: B	
Locked rotor time	: 19s (cold) 11s (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			5 / 37	

Three Phase Induction Motor - Squirrel Cage



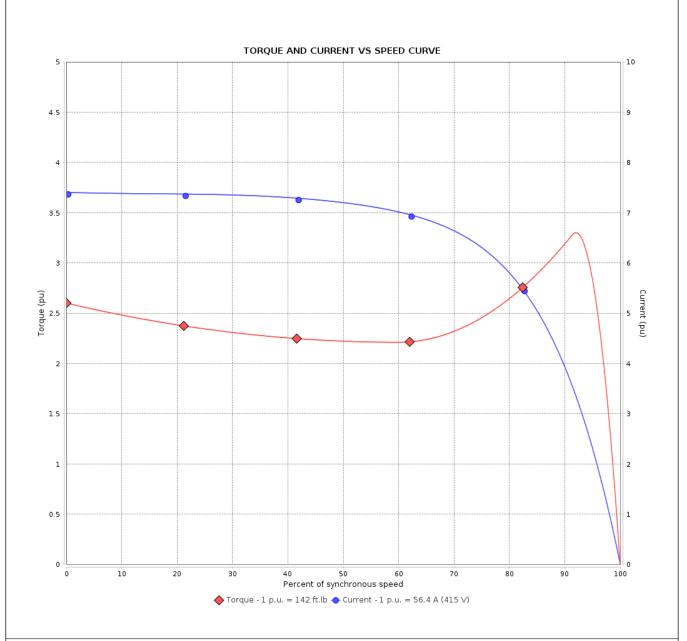
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



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)
Rated torque	: 142 ft.lb	Insulation class	: 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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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			6 / 37	

Three Phase Induction Motor - Squirrel Cage



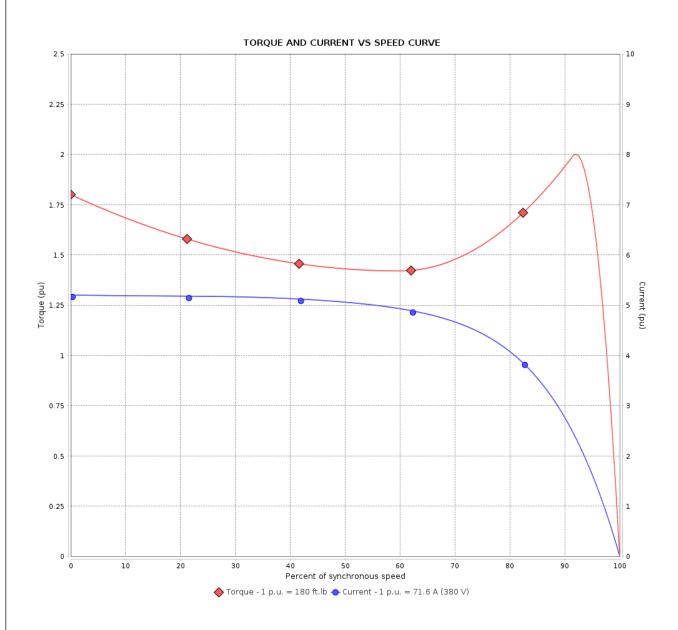
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-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)
Rated torque	: 180 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B
Locked rotor time	: 19s (cold) 11s (hot)		

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			7 / 37	

Three Phase Induction Motor - Squirrel Cage



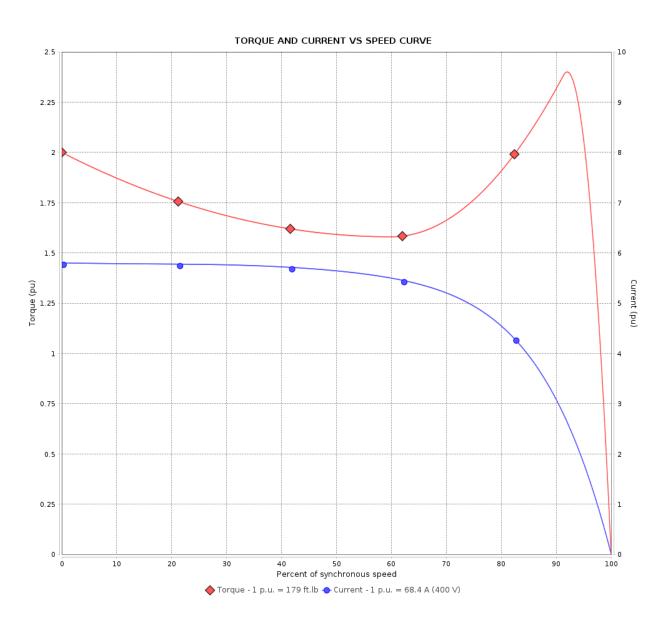
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			8 / 37	

Three Phase Induction Motor - Squirrel Cage



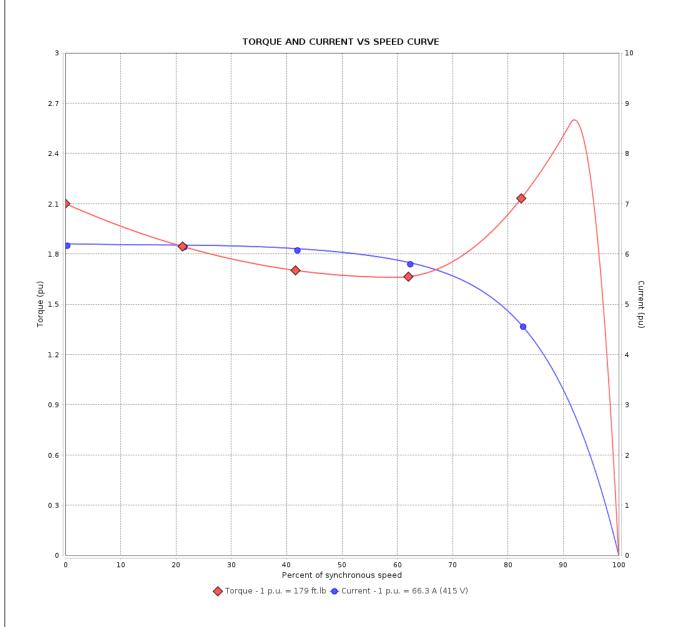
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-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)	
Rated torque	: 179 ft.lb	Insulation class	: 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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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			9 / 37	

Three Phase Induction Motor - Squirrel Cage



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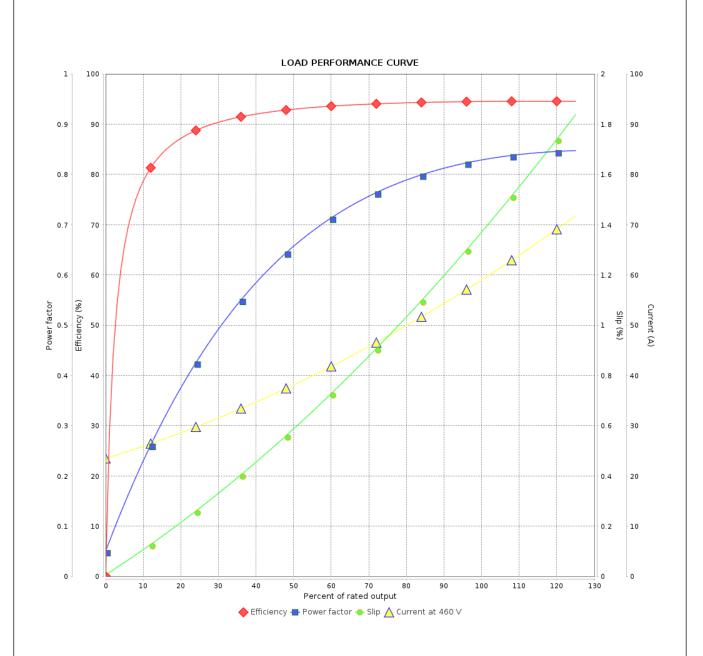
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22

10/37



Performance	: 460 V 60 Hz 4P				
Rated current	: 59.2 A	Moment of	inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 148 ft.lb	Insulation c	lass	: F	
Locked rotor torque : 229 %		Service factor		: 1.15	
Breakdown torque : 270 %		Temperature rise		: 80 K	
Rated speed	: 1775 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

04/10/2023

Date

Three Phase Induction Motor - Squirrel Cage



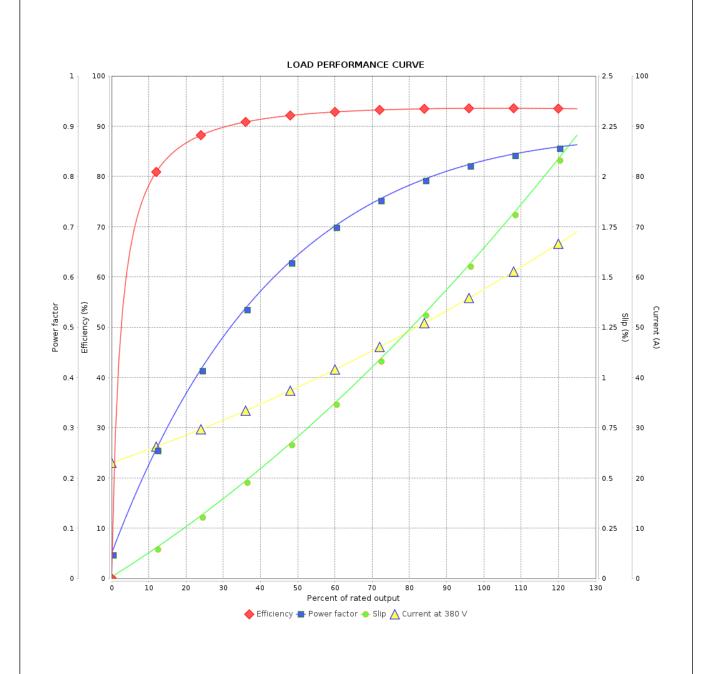
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



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	:	142 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	260 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1475 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/10/2023				11 / 37	

Three Phase Induction Motor - Squirrel Cage



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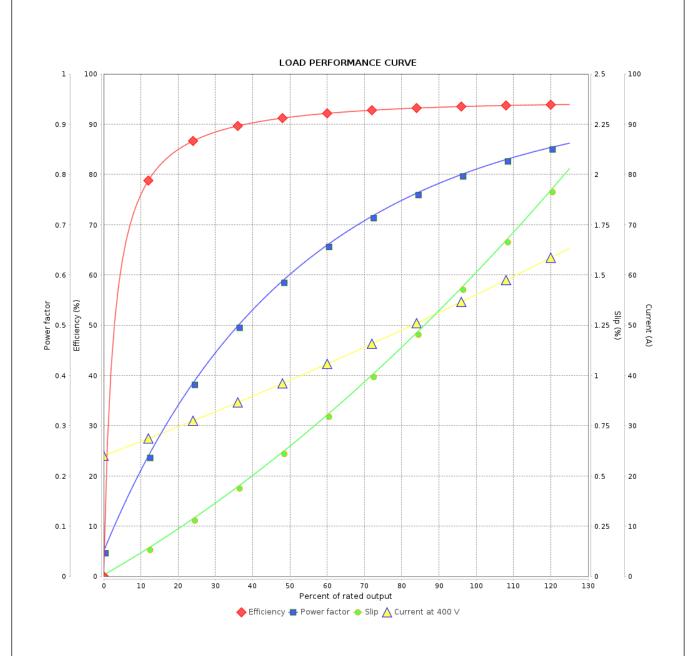
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22

12/37



Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.1 A : 7.0 : 142 ft.lb : 250 % : 300 % : 1477 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

04/10/2023

Date

Three Phase Induction Motor - Squirrel Cage



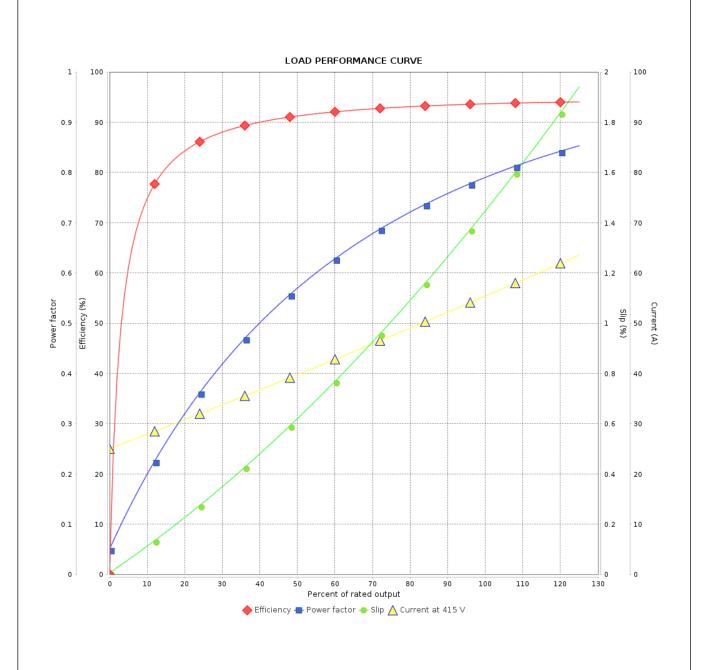
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-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	ctor	: 1.00	
Breakdown torque	:	330 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1478 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/10/2023				13 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

04/10/2023

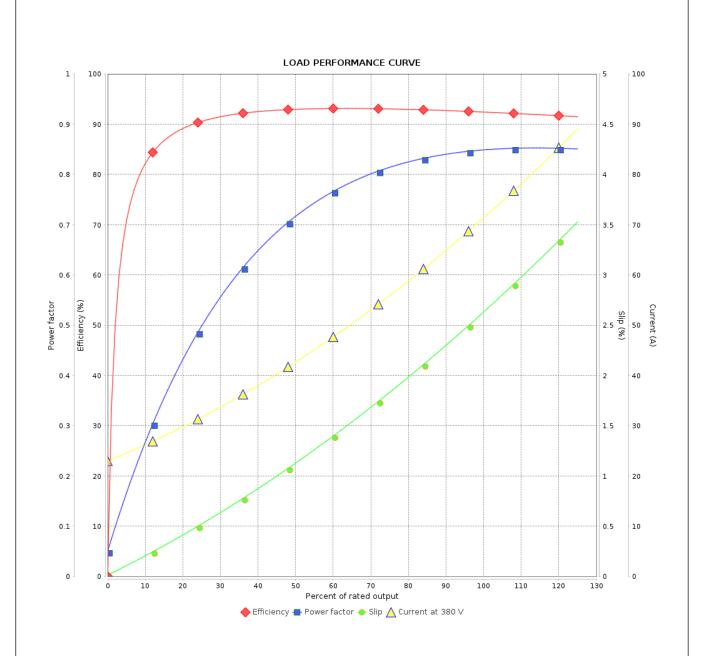
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22

14/37



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 Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



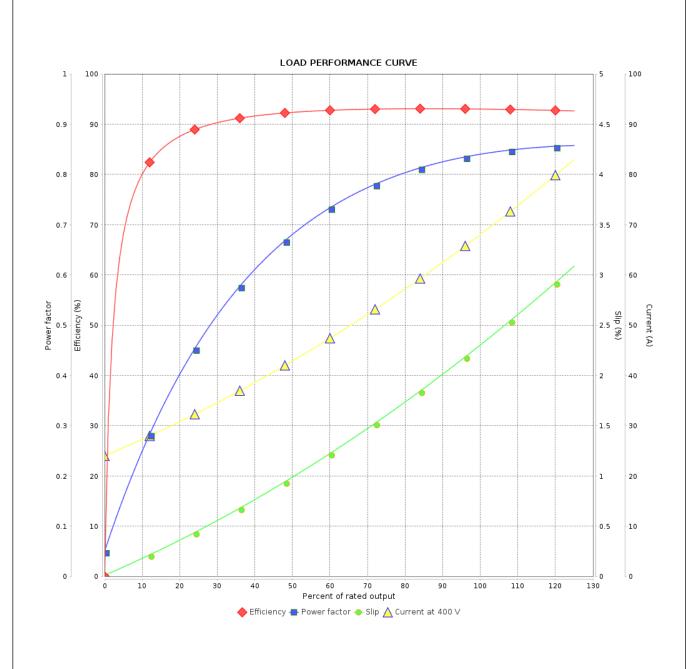
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	: 6	88.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 1	179 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 240 %		Temperati	Temperature rise		
Rated speed	: 1	1465 rpm	Design		: B	
Rev.		Changes Summary	I	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/10/2023				15 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer

Date

04/10/2023

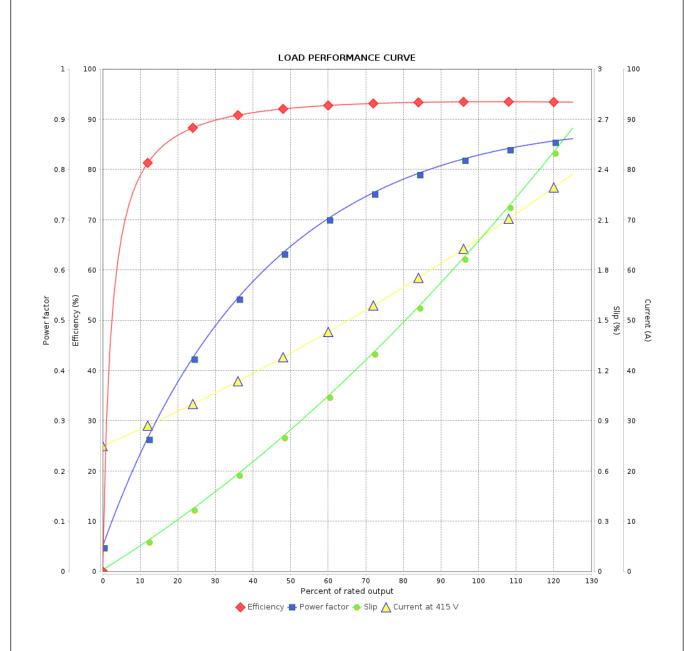
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22

16/37



Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 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 Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

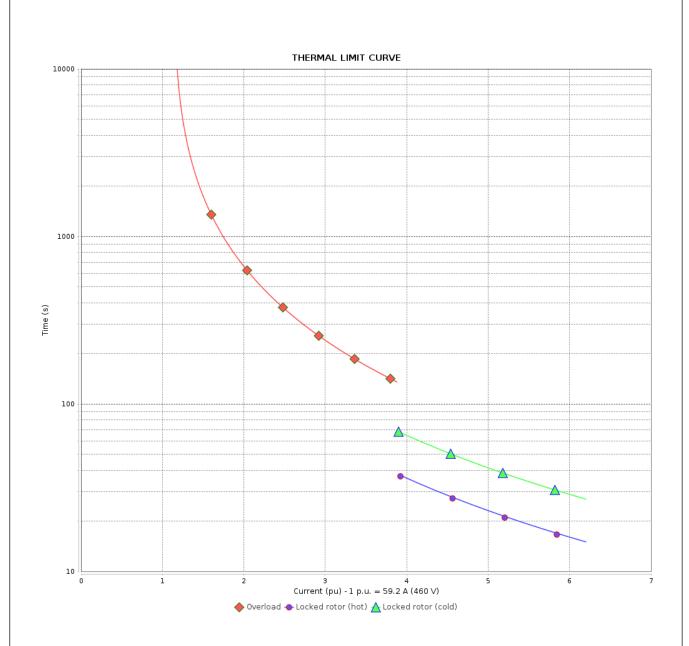


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Performance Rated current	: 460 V 60 I : 59.2 A		ent of inertia (J)	: 9.16 sq.ft.lb	
_RC	: 6.2	Duty o	cycle	: Cont.(S1)	
Rated torque ∟ocked rotor torq	: 148 ft.lb ue : 229 %		tion class ce factor	: F : 1.15	
Breakdown torqu			erature rise	: 80 K	
Rated speed	: 1775 rpm	Desig		: B	
Heating constant					
Cooling constant					
Rev.	Change	es Summary	Performed	Checked	Date
Performed by				_	-
Checked by				Page	Revision
Date	04/10/2023			17 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			18 / 37	

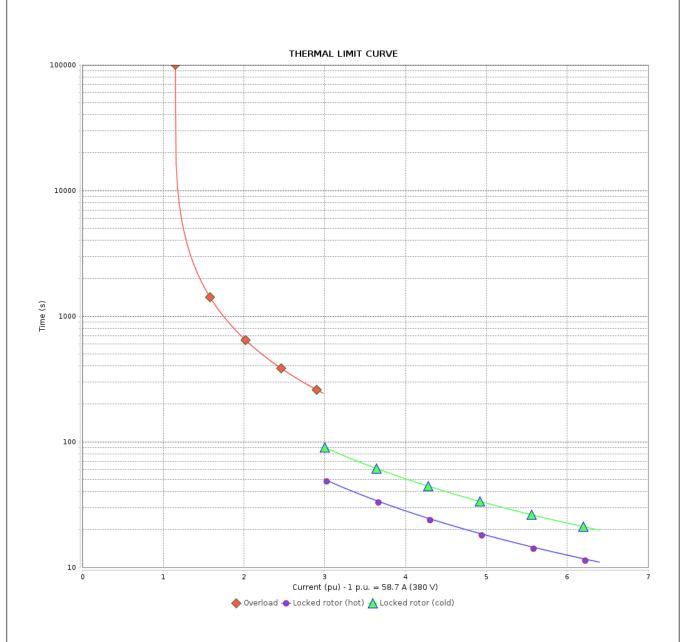


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Customer	:					
Product line	: W22 II Three-F	EEE 841 NEMA Pre	emium Efficiency	Product code :	16684654	
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Performance	:	380 V 50 Hz 4P IE	3			
Rated current		58.7 A		nt of inertia (J)	: 9.16 sq.ft.lb	
₋RC Rated torque		6.4 142 ft.lb	Duty cy Insulati	ycie ion class	: Cont.(S1) : F	
_ocked rotor tord	que :	229 %	Service	e factor	: 1.00	
Breakdown torqı Rated speed		260 % 1475 rpm	Temper Design	rature rise	: 80 K : B	
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Rev.		Changes Summ	nary	Performed	Checked	Date
Performed by						
Checked by					Page	Revisio
Date	04/10/2023				19 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			20 / 37	

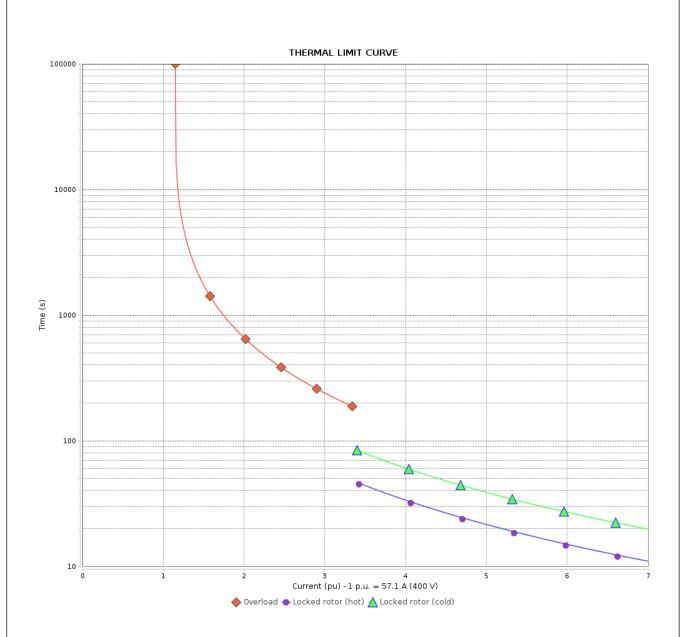


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Customer	:					
Product line	: W22 IE Three-P	EE 841 NEMA Prem	ium Efficiency	Product code :	16684654	
	mree-P	iase		Catalog # :	05018ST3QA	P326T-W
Performance	:	400 V 50 Hz 4P IE3				
Rated current		57.1 A		t of inertia (J)	: 9.16 sq.ft.lb	
.RC Rated torque		7.0 142 ft.lb	Duty cyc Insulation		: Cont.(S1) : F	
ocked rotor tord	que :	250 %	Service	factor	: 1.00	
Breakdown torqu Rated speed		300 % 1477 rpm	Tempera Design	ature rise	: 80 K : B	
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Rev.	-	Changes Summar	<u>-</u>	Performed	Checked	Date
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Performed by					,	
Checked by					Page	Revision
Date	04/10/2023				21 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	04/10/2023			22 / 37	

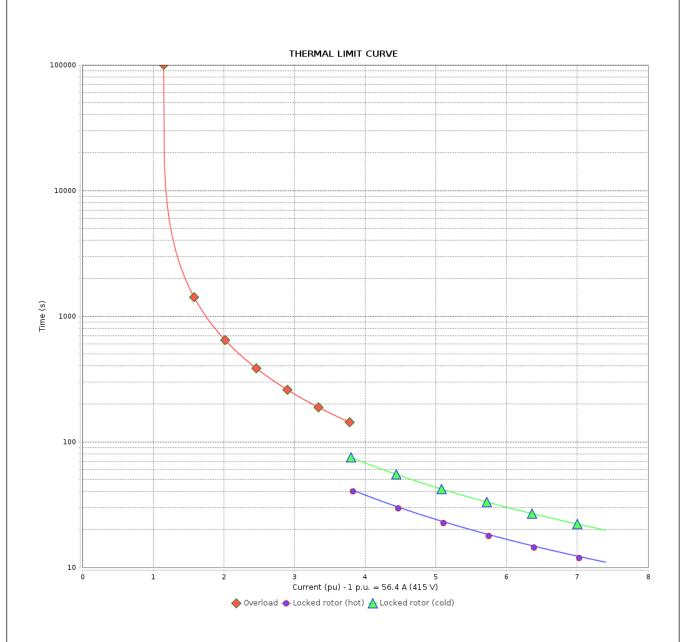


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Customer	:					
Product line	: W22 IE	EE 841 NEMA Prer	nium Efficiency	Product code :	16684654	
	Three-P	nase		Catalog # :	05018ST3QA	P326T-W
Performance		415 V 50 Hz 4P IE3				
Rated current .RC		56.4 A 7.4	Moment	t of inertia (J) cle	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	on class	: F	
ocked rotor tord Breakdown torqu		260 % 330 %	Service Temper	factor ature rise	: 1.00 : 80 K	
Rated speed		1478 rpm	Design	ature rise	: B	
leating constan						
Cooling constant						
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by		_			_	
Checked by	04/10/222	_			Page	Revision
Date	04/10/2023	1			23 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			24 / 37	

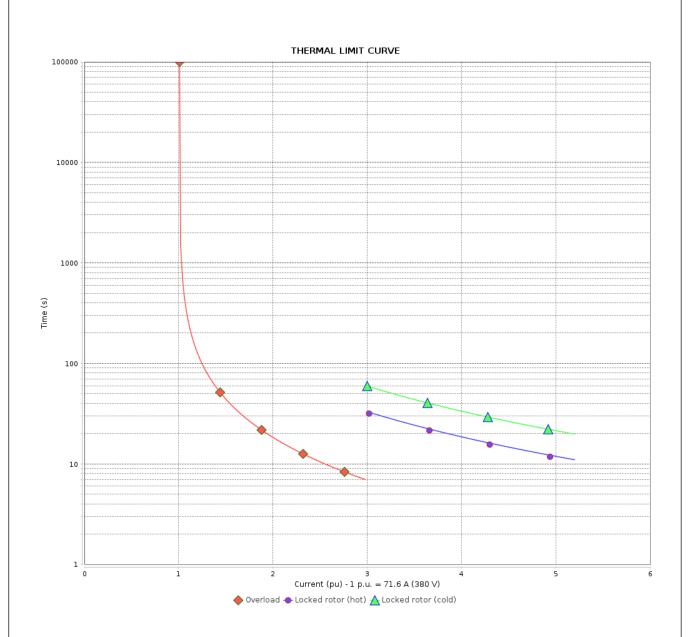


Customer	:				
Product line	: W22 IEEE 841 NEMA Premium Ef Three-Phase	ficiency	Product code :	16684654	
	THICE T HACE		Catalog # :	05018ST3Q	AP326T-W22
Performance	: 380 V 50 Hz 4P IE1			,	
Rated current	: 71.6 A	Moment	of inertia (J)	: 9.16 sq.ft.lb	
RC Rated torque	: 5.2 : 180 ft.lb	Duty cyc	ile n class	: Cont.(S1) : F	
ocked rotor torqu	e : 180 %	Service 1	factor	: 1.00	
Breakdown torque Rated speed	: 200 % : 1460 rpm	Tempera Design	ture rise	: 105 K : B	
Heating constant Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
	<u> </u>				
Performed by			'		l
Checked by				Page	Revision
Date	04/10/2023			25 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			26 / 37	

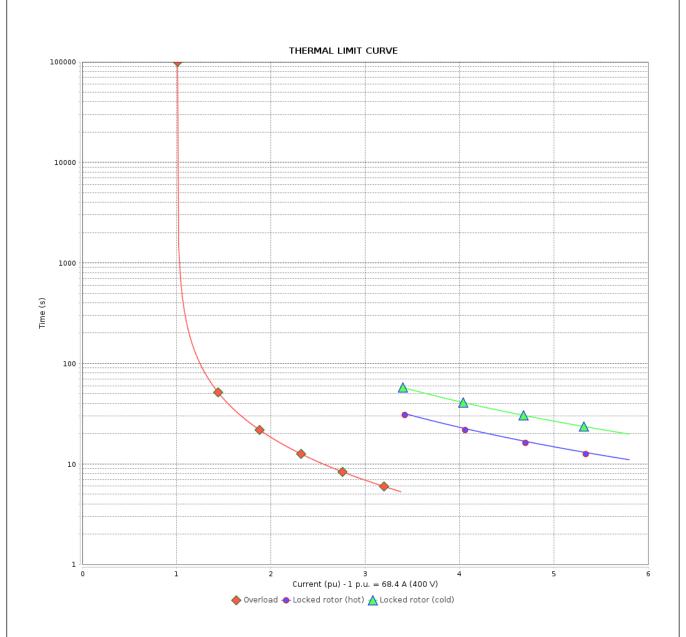


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Product line	: W22 IEEE 841	1 NEMA Premium Efficie	ency	Product code :	16684654	
	Three-Phase			Catalog # :	05018ST3Q	AP326T-W22
Performance Rated current LRC	: 400 V : 68.4 A : 5.8		Moment o	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	: 179 ft.I que : 200 %	lb :	Insulation Service fa Temperatu Design	class ctor	: F : 1.00 : 105 K : B	
Heating constan						
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Checked by Date	04/10/2023				Page 27 / 37	Revision
Date	0 1/ 10/2020				_,, 0,	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			28 / 37	

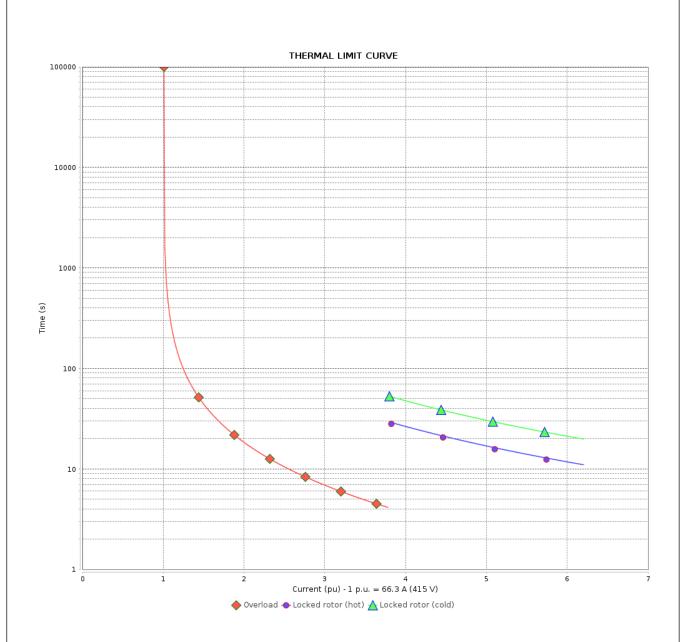


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Customer	:					
Product line	: W22 II	EEE 841 NEMA Pre	mium Efficiency	Product code :	16684654	
	Three-F	rnase		Catalog # :	05018ST3QA	.P326T-W
Performance		: 415 V 50 Hz 4P IE	2			
Rated current		: 66.3 A		nt of inertia (J)	: 9.16 sq.ft.lb	
RC		: 6.2 : 179 ft.lb	Duty cy		: Cont.(S1) : F	
Rated torque ∟ocked rotor tord	que	210 %	Service		: F : 1.00	
Breakdown torqu	ue :	260 %	Temper	rature rise	: 105 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summ	arv	Performed	Checked	Date
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Date	04/10/2023				29 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	04/10/2023			30 / 37	

Three Phase Induction Motor - Squirrel Cage



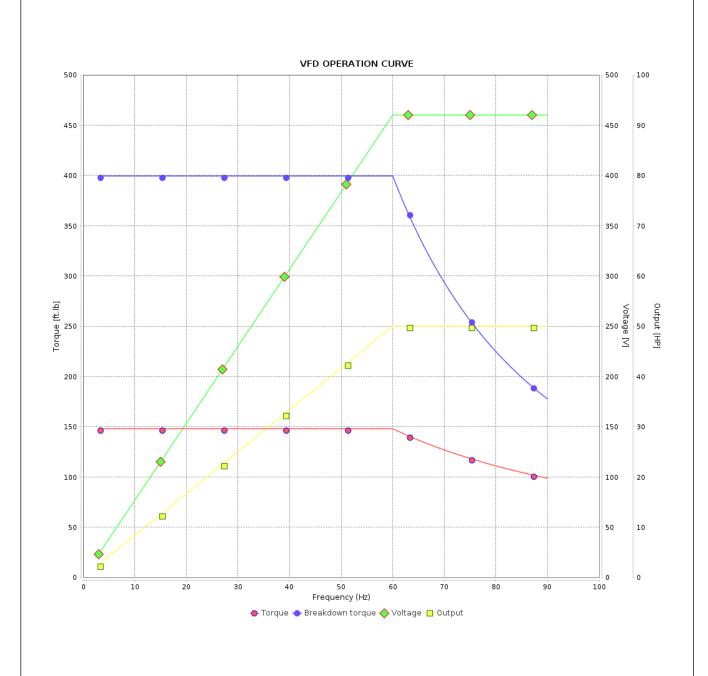
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	: 4	460 V 60 Hz 4P				
Rated current	: !	59.2 A	.2 A Moment of inerti		: 9.16 sq.ft.lb	
LRC	: (6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	148 ft.lb	Insulation	class	: F	
Locked rotor tord	que : :	229 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie ::	270 %	Temperature rise		: 80 K	
Rated speed	:	1775 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/10/2023				31 / 37	

Three Phase Induction Motor - Squirrel Cage



Customer :

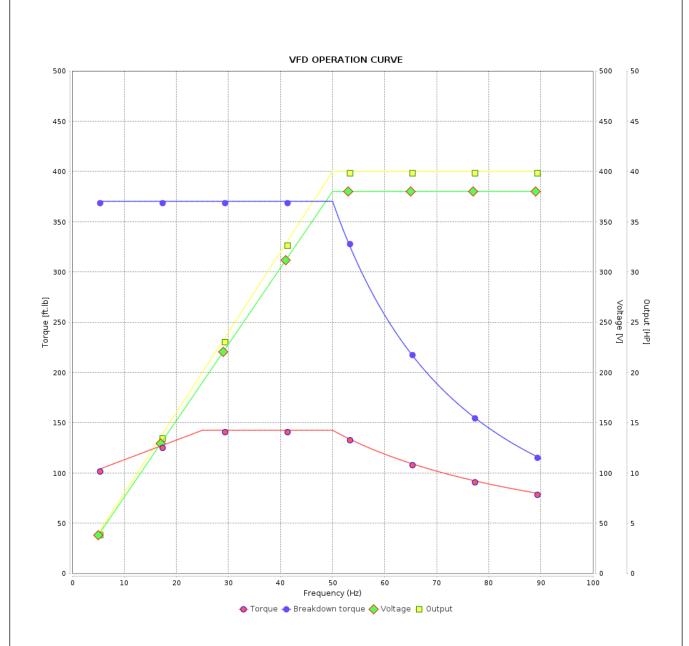
Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22

32 / 37



					<u> </u>	
Performance	: 38	80 V 50 Hz 4P IE3				
Rated current	Rated current : 58.7 A Moment of inertia (J)		f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 6.	.4	Duty cycle	;	: Cont.(S1)	
		Insulation	class	: F		
		29 %	Service fa	Service factor		
Breakdown torque : 260 %		60 %	Temperati	Temperature rise		
Rated speed	: 14	475 rpm	Design		: B	
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision

04/10/2023

Date

Three Phase Induction Motor - Squirrel Cage



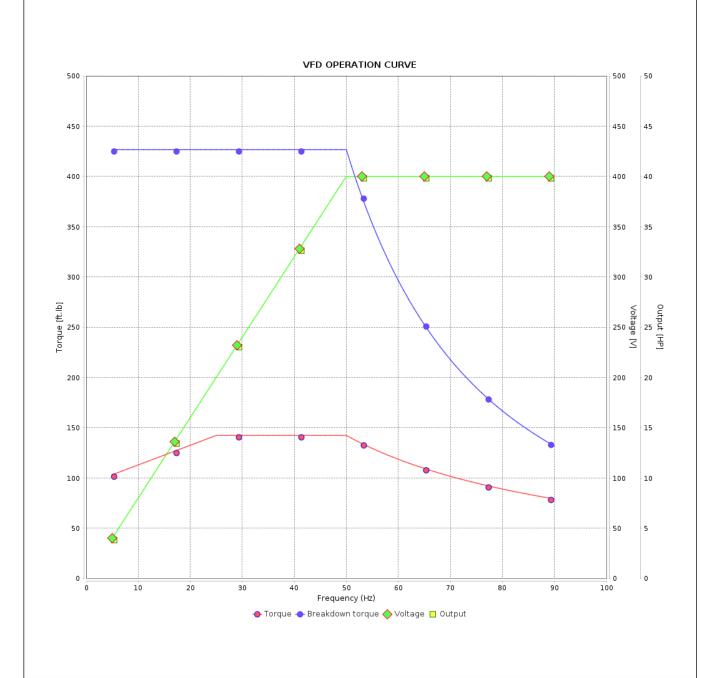
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	57.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	e :	300 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1477 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	04/10/2023				33 / 37	

Three Phase Induction Motor - Squirrel Cage



Revision

Page 34 / 37

Customer :

Checked by

Date

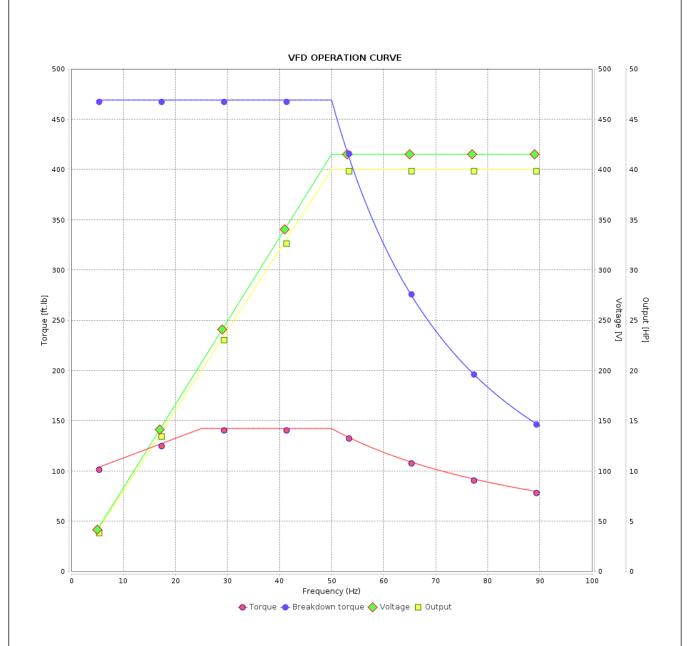
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Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



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 : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1478 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



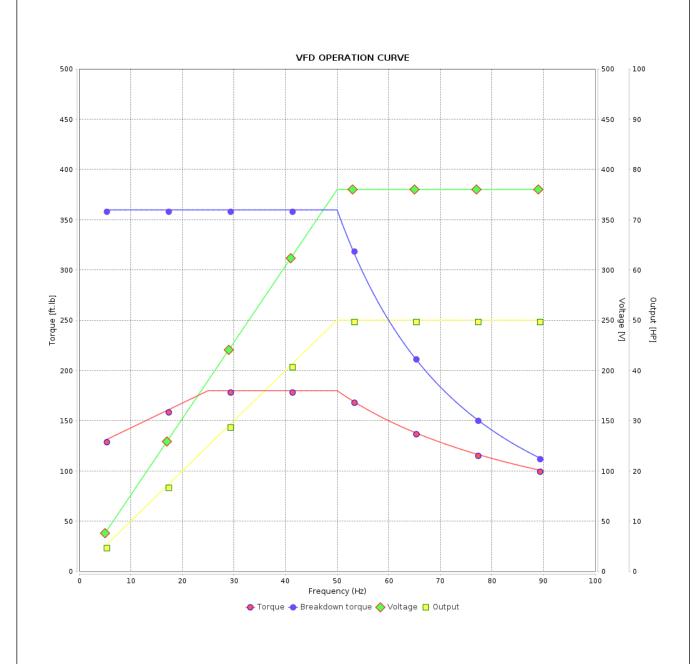
Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	: 38	: 380 V 50 Hz 4P IE1						
Rated current LRC		: 71.6 A : 5.2		Moment of inertia (J) Duty cycle				
Rated torque	: 18	: 180 ft.lb		class	: Cont.(S1) : F			
Locked rotor torque Breakdown torque		80 % 00 %	Service factor Temperature rise		: 1.00 : 105 K			
Rated speed		: 1460 rpm		Design				
Rev.	Changes Summary			Performed	Checked	Date		
Performed by								
Checked by		-			Page	Revision		
Date	04/10/2023	1			35 / 37			

Three Phase Induction Motor - Squirrel Cage



Revision

Page

36 / 37

Customer :

Checked by

Date

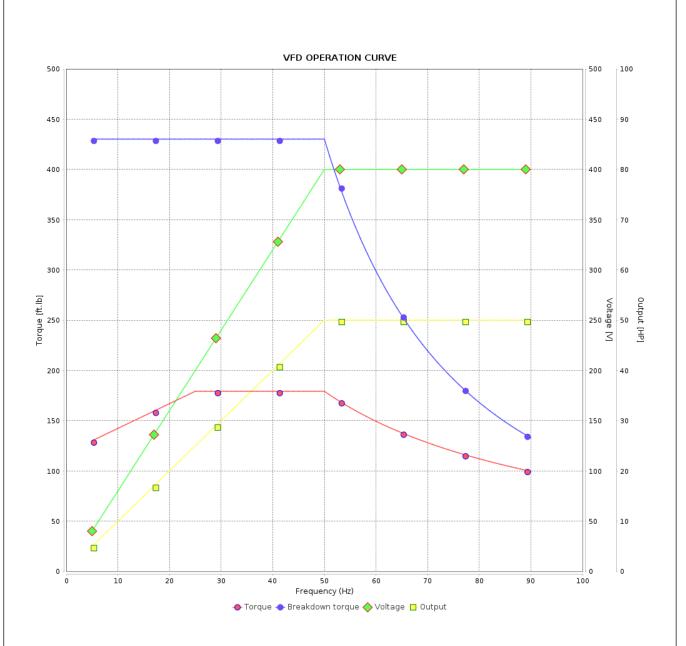
04/10/2023

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : 5.8 : Cont.(S1) Insulation class : 179 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

Three Phase Induction Motor - Squirrel Cage



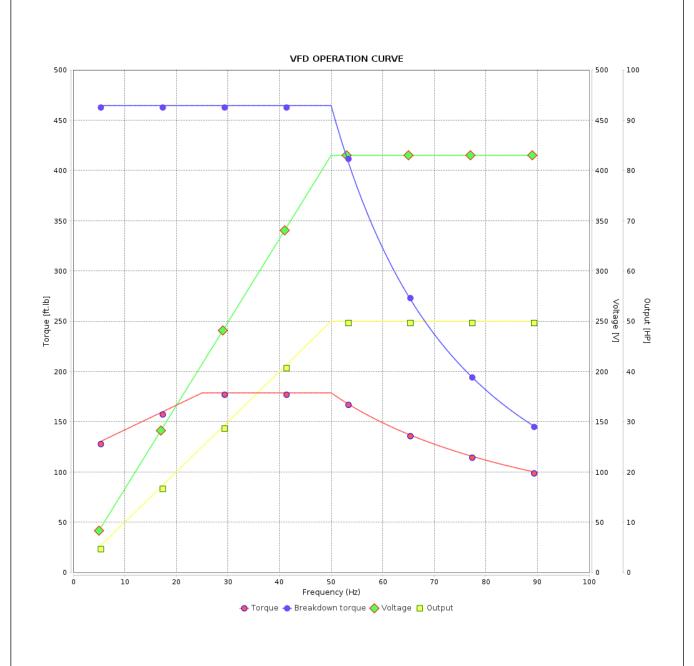
Customer

Product line : W22 IEEE 841 NEMA Premium Efficiency

Three-Phase

Product code: 16684654

Catalog #: 05018ST3QAP326T-W22



Performance	:	: 415 V 50 Hz 4P IE2							
Rated current	:	: 66.3 A		f inertia (J)	: 9.16 sq.ft.lb				
LRC	:	: 6.2 Duty cycle		:	: Cont.(S1)	: Cont.(S1)			
Rated torque	:	179 ft.lb	9 ft.lb Insulation class		: F				
Locked rotor torque	e ::	210 %	Service factor		: 1.00				
Breakdown torque	::	: 260 %		ıre rise	: 105 K				
Rated speed	:	: 1470 rpm			: B				
Rev.	Changes Summary			Performed	Checked	Date			
Performed by									
Checked by					Page	Revision			
Date	04/10/2023				37 / 37				

