DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Product code:

Three-Phase

Catalog #: 25018OT3G445TC-W40

14272427

Frame : 444/5TC 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. Approx. weight³ : 1584 lb Moment of inertia (J) : 50.9 sa.ft.lb

Protection degree : IP23

Protection degree		. IP23	Moment of the	ertia (J) . 50.9	sq.ii.ib
Design		: B			
Output [HP]		250	200	200	200
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		289	283	272	269
L. R. Amperes [A]		1850	1953	1986	1991
LRC [A]		6.4x(Code G)	6.9x(Code H)	7.3x(Code H)	7.4x(Code J)
No load current [A]]	106	105	115	125
Rated speed [RPN	1]	1780 1.11	1480	1480	1485
Slip [%]	Slip [%]		1.33	1.33	1.00
	Rated torque [ft.lb]		710	710	707
	Locked rotor torque [%]		200	229	250
Breakdown torque	[%]	240	220	240	270
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level ²		78.0 dB(A)			
	25%	95.3	95.2	94.9	94.4
Efficiency (%)	50%	95.4	95.5	95.3	94.9
Liliciency (70)	75%	95.8	95.6	95.5	95.4
100%		95.8	95.8	95.8	95.8
	25%	0.46	0.46	0.41	0.38
Power Factor	50%	0.72	0.72	0.67	0.64
1 OWELL ACTOL	75%	0.80	0.81	0.78	0.75
	100%	0.84	0.84	0.83	0.81

Drive end Non drive end Foundation loads

Bearing type 6319 C3 6314 C3 Max. traction : 4298 lb

Without Without Sealing Max. compression : 5883 lb Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval 45 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

Notes

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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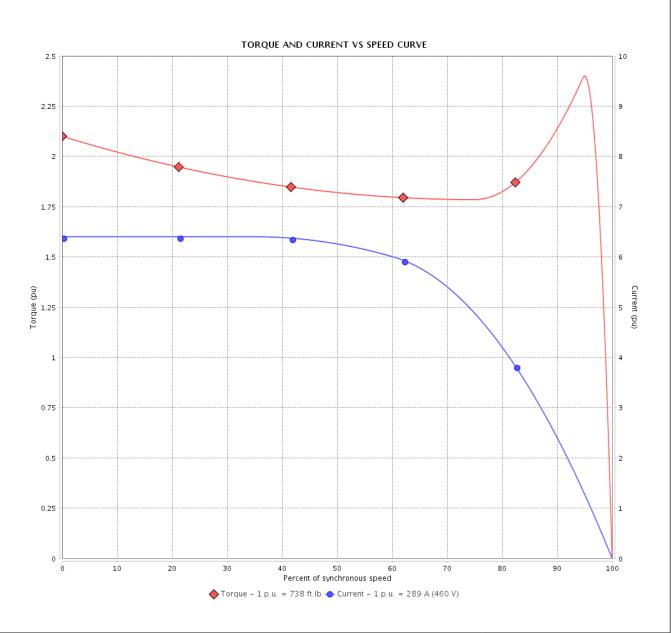
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance : 460 V 60 Hz 4P Rated current : 289 A Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : F : 738 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 210 % : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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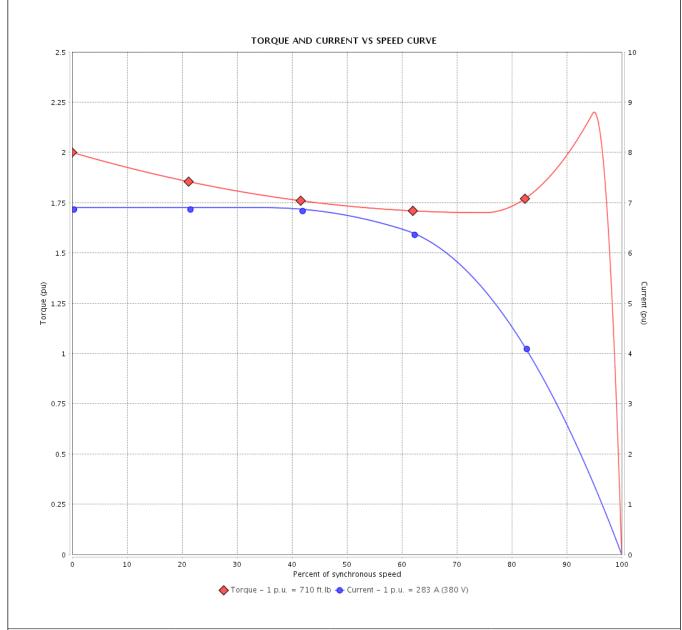
Customer

Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

roduct code : 14272427

Catalog # : 25018OT3G445TC-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 283 A Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 710 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 1480 rpm Design

Locked rotor time : 14s (cold) 8s (hot)

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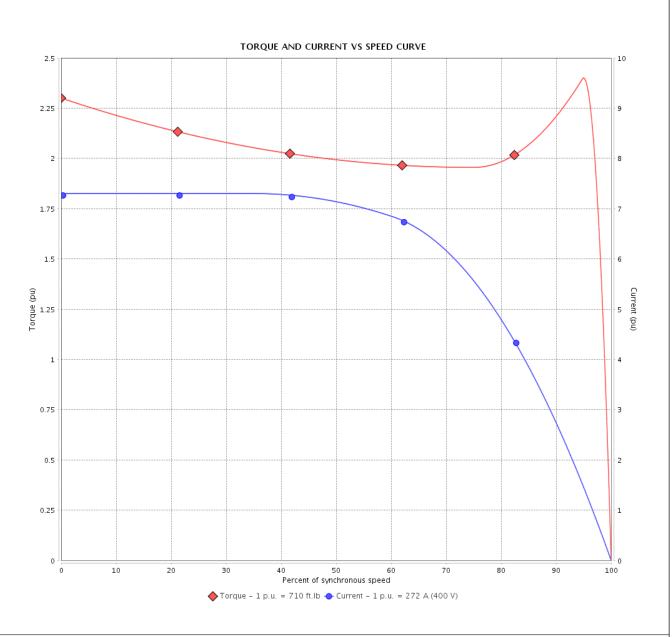
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 272 A Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 710 ft.lb Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : B : 1480 rpm Design

Locked rotor time : 14s (cold) 8s (hot)

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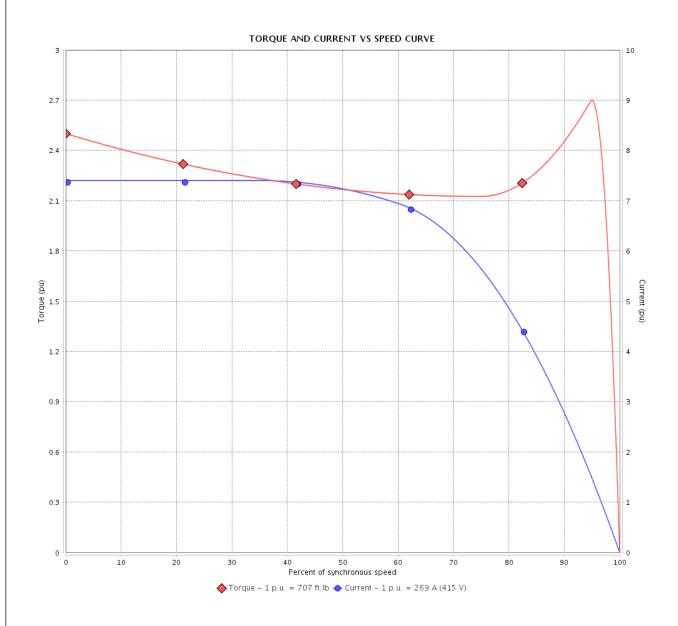
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 269 A Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 707 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K : B Rated speed : 1485 rpm Design Locked rotor time

: 14s (cold) 8s (hot)

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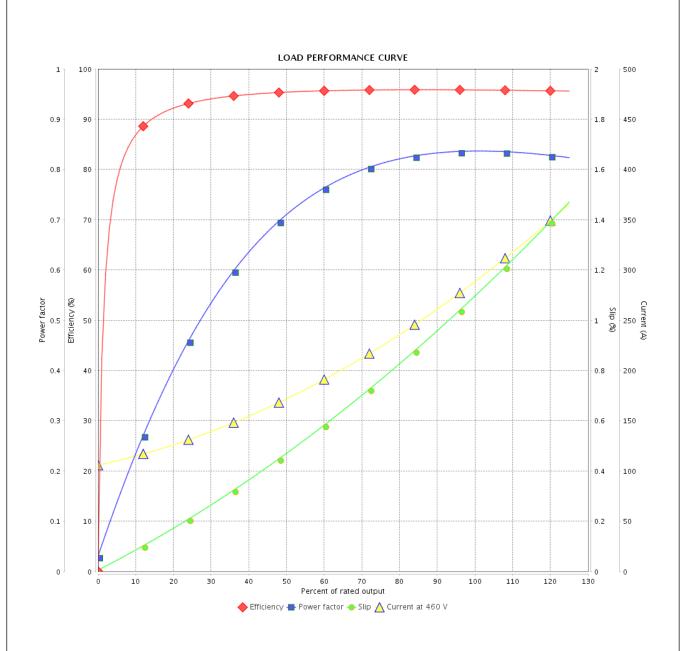
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

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Performance : 460 V 60 Hz 4P : 289 A Rated current Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 738 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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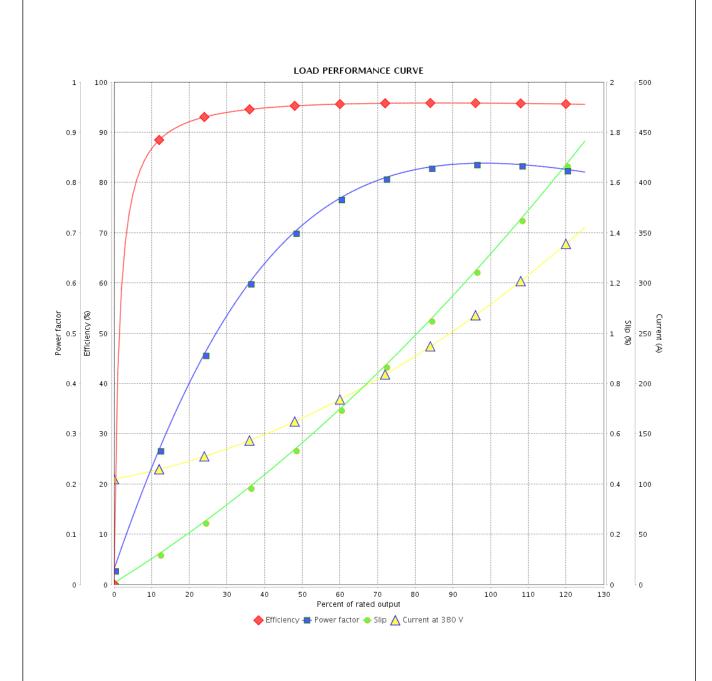


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Product line : W40 NEMA Premium Efficiency Product code : 14272427

Three-Phase

Catalog #: 25018OT3G445TC-W40



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	ated current : 283 A		Moment o	f inertia (J)	: 50.9 sq.ft.lb	
LRC	: 6	: 6.9)	: Cont.(S1)	
Rated torque	: 7	10 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.00	
· · · · · · · · · · · · · · · · · · ·		20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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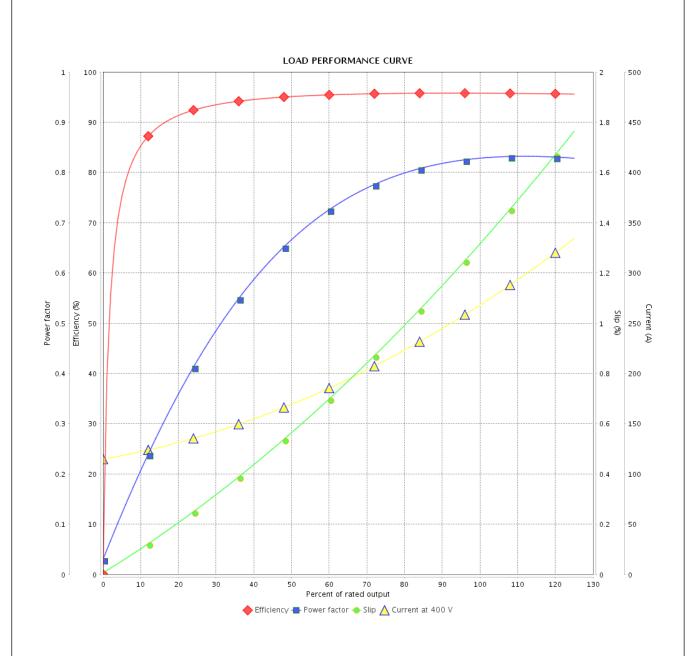
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Three-Phase

Product code: 14272427

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 272 A	Moment of	inertia (J)	: 50.9 sq.ft.lb	
LRC	C : 7.3			: Cont.(S1)	
Rated torque	: 710 ft.lb	Insulation of	lass	: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
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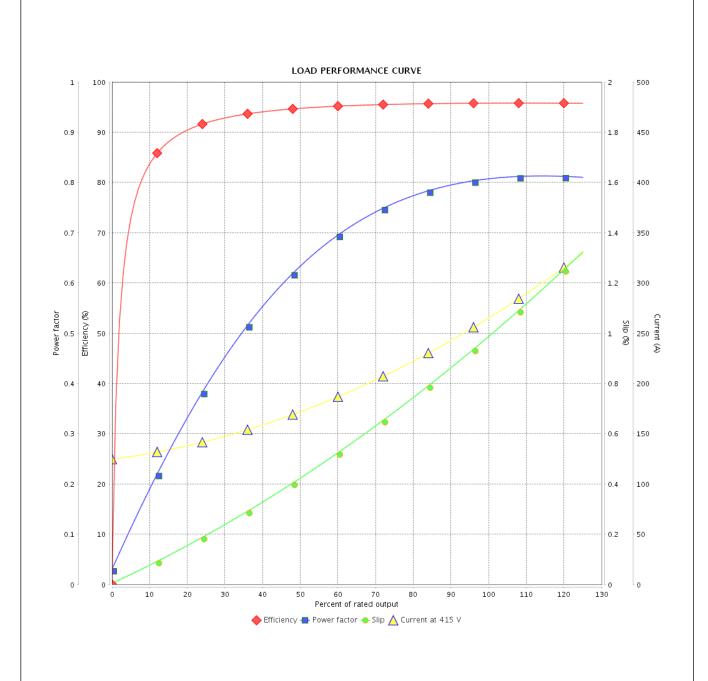
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Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 25018OT3G445TC-W40

14272427



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	ated current : 269 A		Moment o	f inertia (J)	: 50.9 sq.ft.lb	
LRC	: 7	: 7.4)	: Cont.(S1)	
Rated torque	: 7	07 ft.lb	Insulation	class	: F	
Locked rotor torque : 250		50 %	Service fa	ctor	: 1.00	
Breakdown torque :		70 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm	Design		: B	
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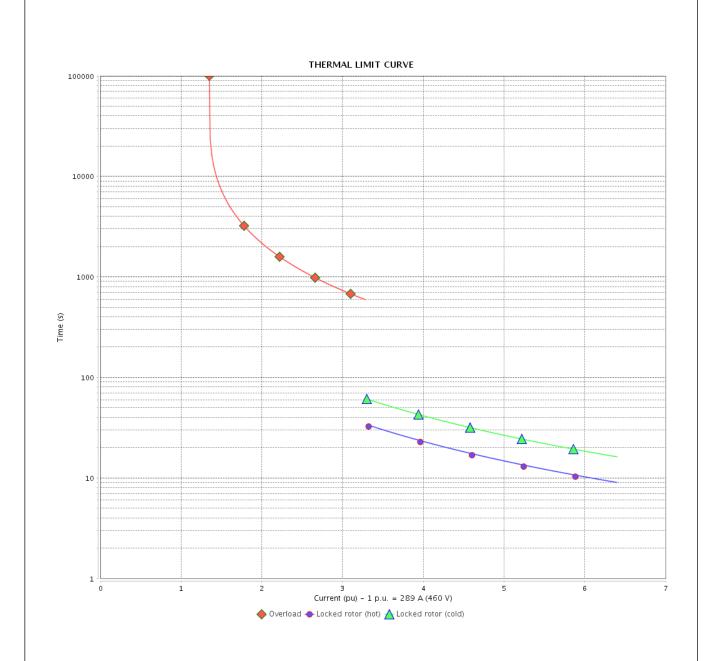


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Product line		: W40 NEMA Premium Effici Three-Phase	ency	Product code :	14272427	
		THICC T HOSC		Catalog # :	25018OT3G4	45TC-W40
Performance		: 460 V 60 Hz 4P				
Rated current		: 289 A	Moment o	of inertia (J)	: 50.9 sq.ft.lb	
LRC		: 6.4	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		: 738 ft.lb : 210 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ue	: 240 %	Temperat		: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Heating constan						
Cooling constant	t					
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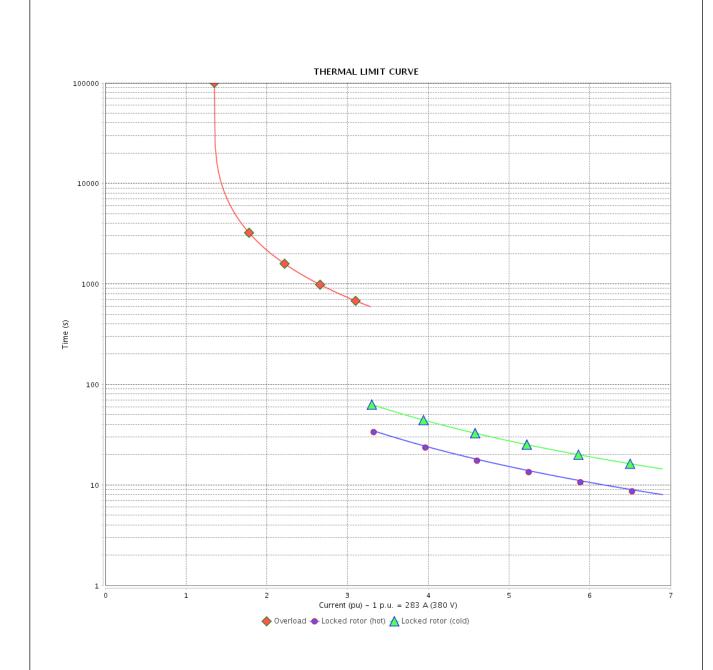


Customer		:				
Product line		: W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14272427	
				Catalog # :	25018OT3G4	45TC-W40
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 283 A	Moment o	f inertia (J)	: 50.9 sq.ft.lb	
LRC	:	: 6.9	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor tord		: 710 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 220 %	Temperatu		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
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Cooling constant Rev.	t	Changes Summers		Performed	Checked	Date
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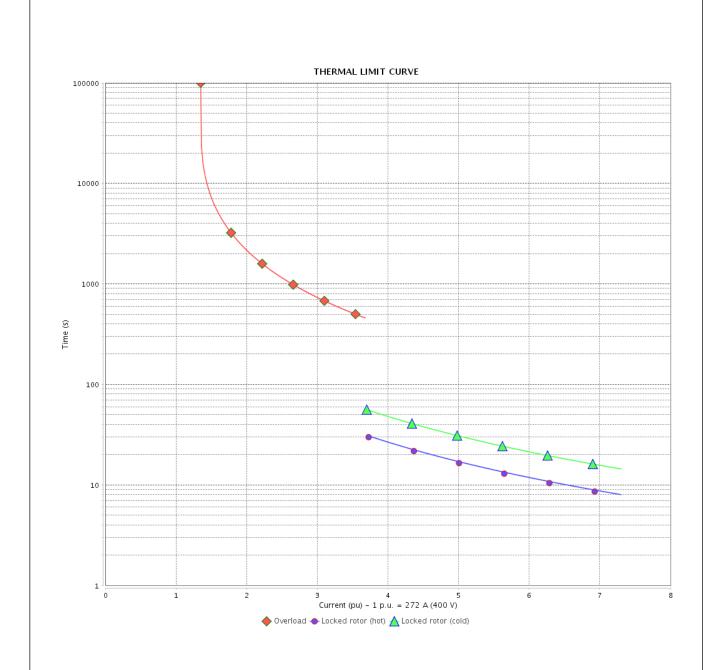


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Product line		N40 NEMA Premium Efficiente-Phase		Product code :	14272427	
			(Catalog # :	25018OT3G4	45TC-W40
Performance	: 40	00 V 50 Hz 4P IE3				
Rated current		72 A	Moment of	f inertia (J)	: 50.9 sq.ft.lb	
LRC Rated torque	: 7. : 7	3 10 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq		29 %	Service fac		: 1.00	
Breakdown torqu Rated speed		40 % 480 rpm	Temperatu Design	115C	: 80 K : B	
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Cooling constant						_
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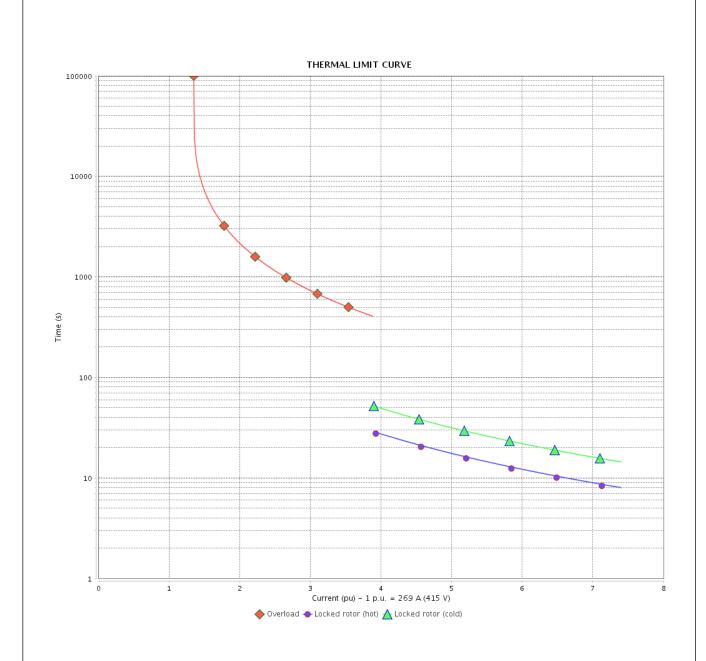


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Product line		N40 NEMA Premium Effici nree-Phase	ency I	Product code :	14272427	
	11	ilee-i ilase	(Catalog # :	25018OT3G4	45TC-W40
Performance		15 V 50 Hz 4P IE3			50.0 6.11	
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 50.9 sq.ft.lb : Cont.(S1)	
Rated torque		07 ft.lb 50 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque		70 %	Temperatu		: 80 K	
Rated speed		485 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Date
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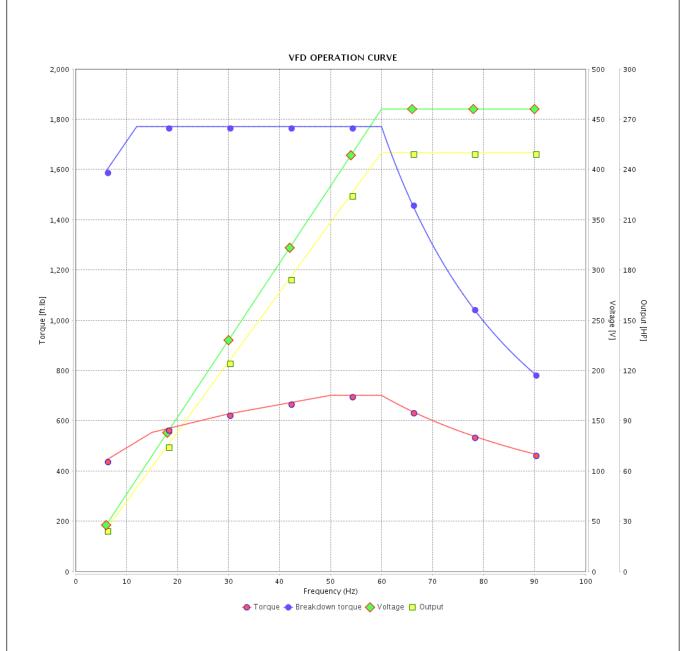
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance : 460 V 60 Hz 4P : 289 A Rated current Moment of inertia (J) : 50.9 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 738 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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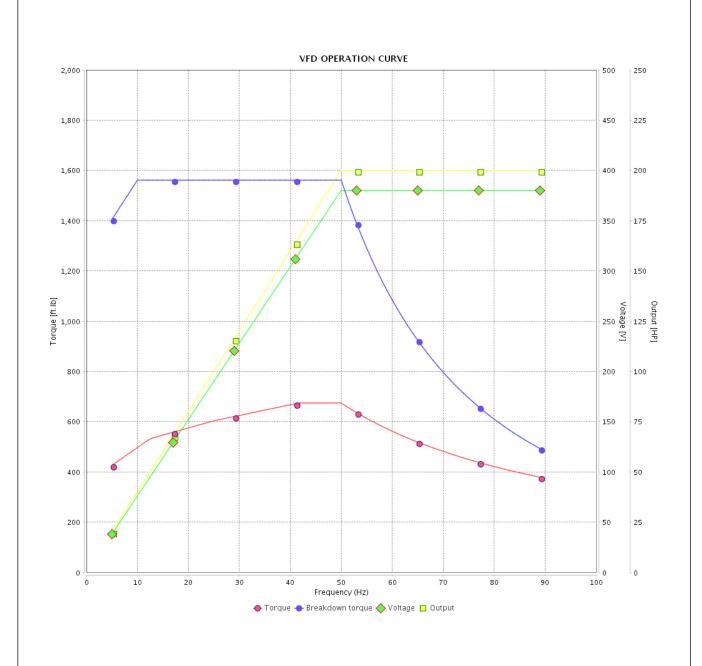
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 28		83 A	Moment o	Moment of inertia (J)		
LRC : 6.5		.9	Duty cycle	9	: Cont.(S1)	
Rated torque : 7		10 ft.lb	Insulation	class	: F	
Locked rotor torque :		00 %	Service fa	Service factor		
Breakdown torque		20 %	Temperati	Temperature rise		
Rated speed	: 14	P80 rpm Design		: B		
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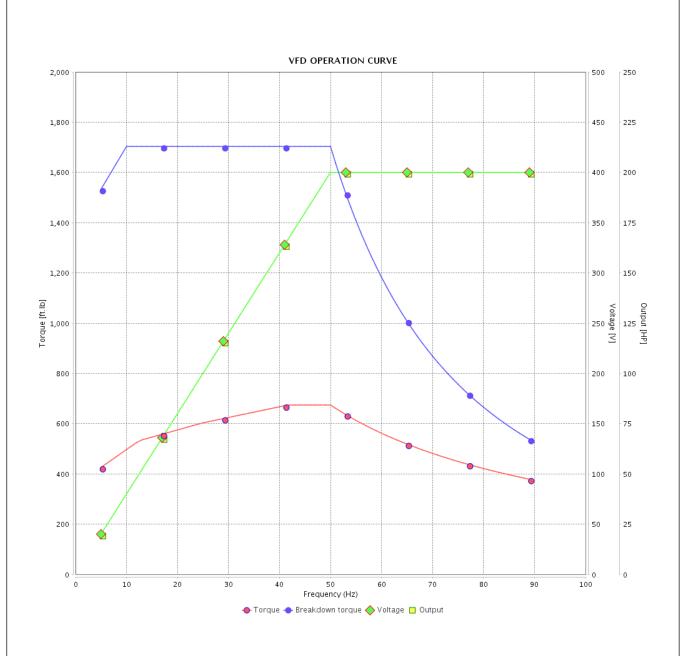
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40

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Performance	:	: 400 V 50 Hz 4P IE3							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : : : : : :	272 A 7.3 710 ft.lb 229 % 240 % 1480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise					
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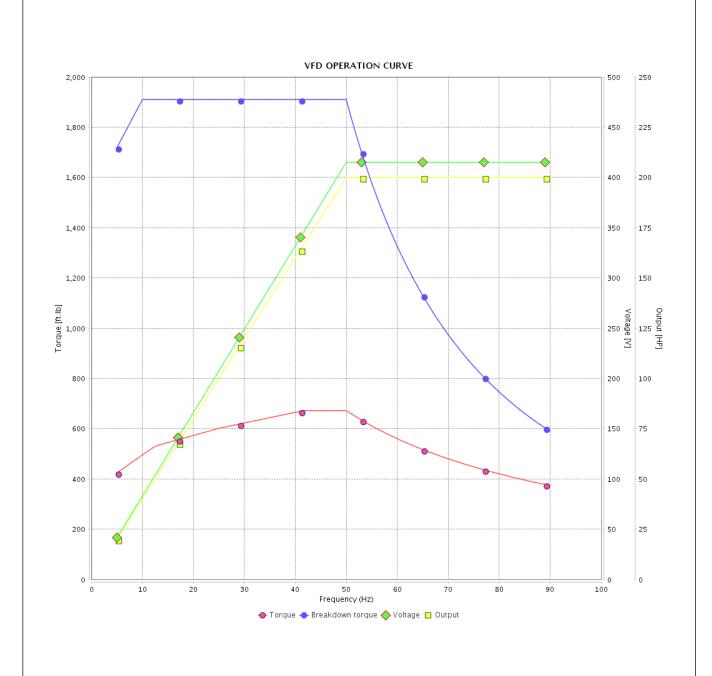
Customer

Product line : W40 NEMA Premium Efficiency Pro

Three-Phase

Product code: 14272427

Catalog #: 25018OT3G445TC-W40



Performance	ance : 415 V 50 Hz 4P IE3						
Rated current : 269		69 A	Moment o	Moment of inertia (J)			
LRC	: 7.	4	Duty cycle	•	: Cont.(S1)		
Rated torque	: 70	07 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	50 %	Service fa	ctor	: 1.00		
Breakdown torque		70 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 14	185 rpm	Design		: B		
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