DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40

Frame : 444/5T Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

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 : 1393 lb
Protection degree : IP23 Moment of inertia (J) : 42.1 sq.ft.lb

Protection degree : IP23 Moment of inertia (J)
Design : B

Design		: B			•
Output [HP]		150	125	125	125
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		170	169	162	158
L. R. Amperes [A]		1105	1183	1199	1138
LRC [A]		6.5x(Code G)	7.0x(Code G)	7.4x(Code H)	7.2x(Code H)
No load current [A]	58.0	57.7	62.5	66.5
Rated speed [RPI	/ 1]	1784	1485	1485	1485
Slip [%]		0.89	1.00	1.00	1.00
Rated torque [ft.lb]		442	442	442	442
Locked rotor torque [%]		200	190	220	240
Breakdown torque	[%]	240	240	270	290
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	37s (cold) 21s (hot)	36s (cold) 20s (hot)	39s (cold) 22s (hot)
Noise level ²		78.0 dB(A)			
	25%	95.3	94.8	94.8	95.0
Locked rotor time	50%	95.4	94.9	94.9	95.1
Lilicierity (70)	75%	95.8	95.3	95.3	95.3
	100%	95.8	95.3	95.3	95.3
	25%	0.49	0.49	0.45	0.42
Power Factor	50%	0.74	0.74	0.70	0.68
	75%	0.82	0.82	0.80	0.78
	100%	0.85	0.85	0.84	0.83

Bearing type

Drive end Nu-319 C3 Nu-319 Nu-319

Bearing type : NU-319 C3 6314 C3 | Max. traction : 2721 lb Sealing : Without Without | Max. compression : 4113 lb

Bearing Seal Bearing Seal

Lubrication interval: 18825 h 20000 h

Lubricant amount : 45 g 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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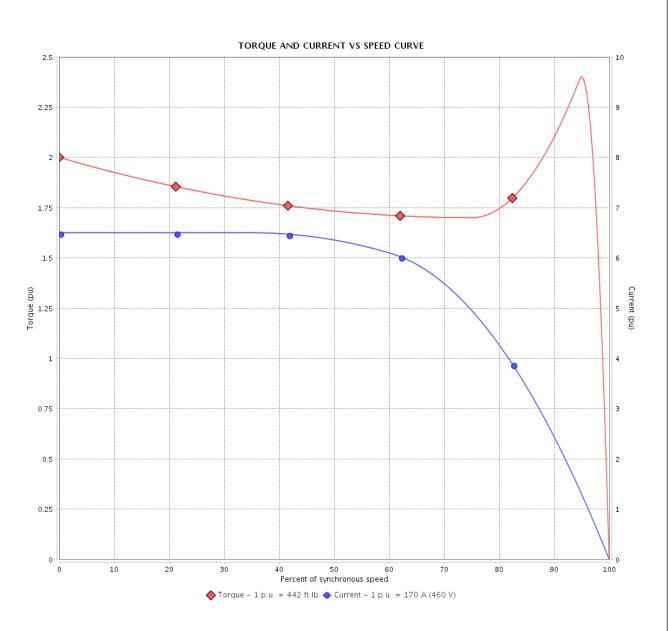


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40



Performance	: 460 V 60 Hz 4P		
Rated current	: 170 A	Moment of inertia (J)	: 42.1 sq.ft.lb
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 442 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1784 rpm	Design	: B
Locked rotor time	: 39s (cold) 22s (hot)	1	

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

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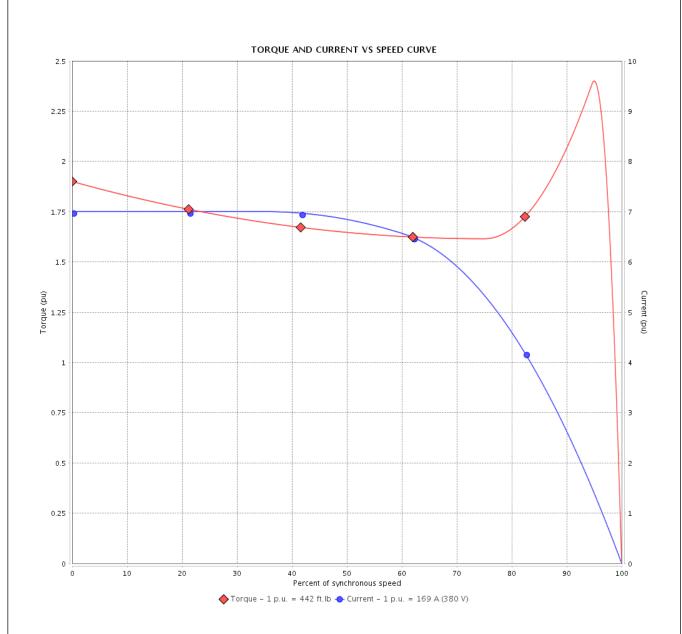


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 169 A Moment of inertia (J) : 42.1 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Rated torque : 442 ft.lb Insulation class : F : 190 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 240 % Temperature rise : B Rated speed : 1485 rpm Design

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

LOCKCU TOLOT LITT		73 (cold) 213 (flot)			
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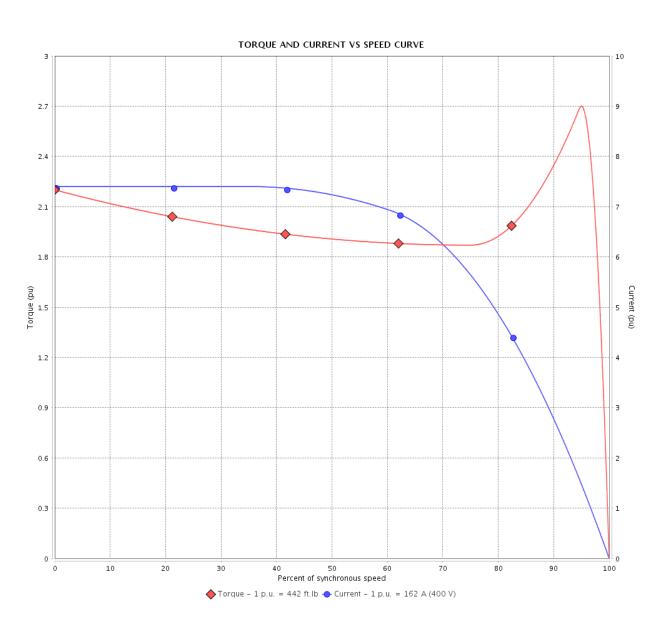


Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 162 A	Moment of inertia (J)	: 42.1 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 442 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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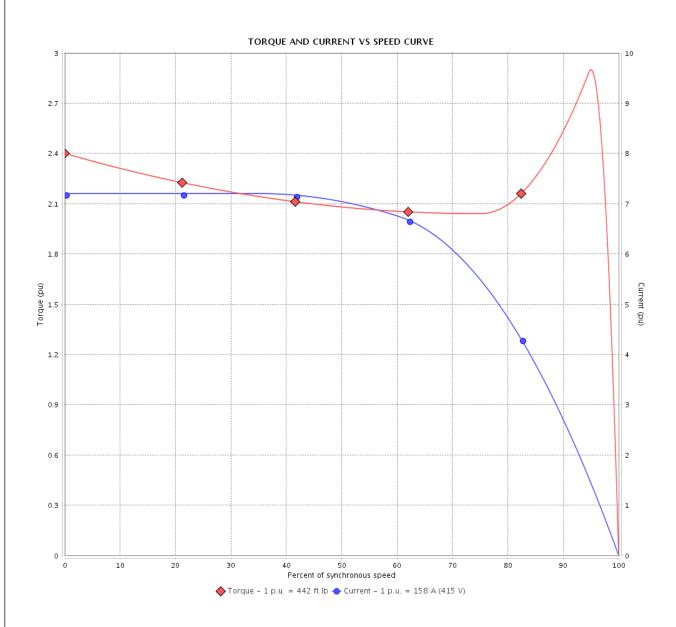


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Product line : W40 NEMA Premium Efficiency Product code : 14272540

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Catalog #: 15018OT3GRB444T-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 158 A	Moment of inertia (J)	: 42.1 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 442 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	

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

LOCKCU TOLOT LITT		93 (COId) 223 (NOI)			
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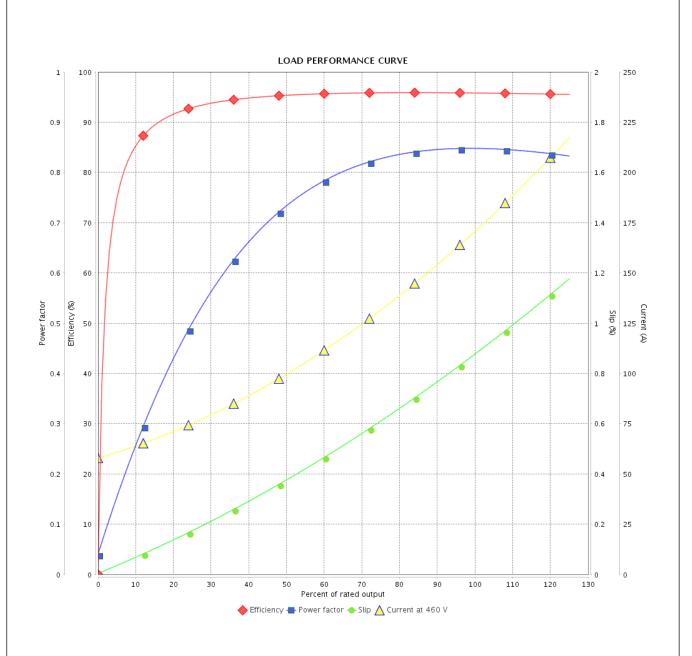
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Three-Phase

Product code: 14272540

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Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170 A : 6.5 : 442 ft.lb : 200 % : 240 % : 1784 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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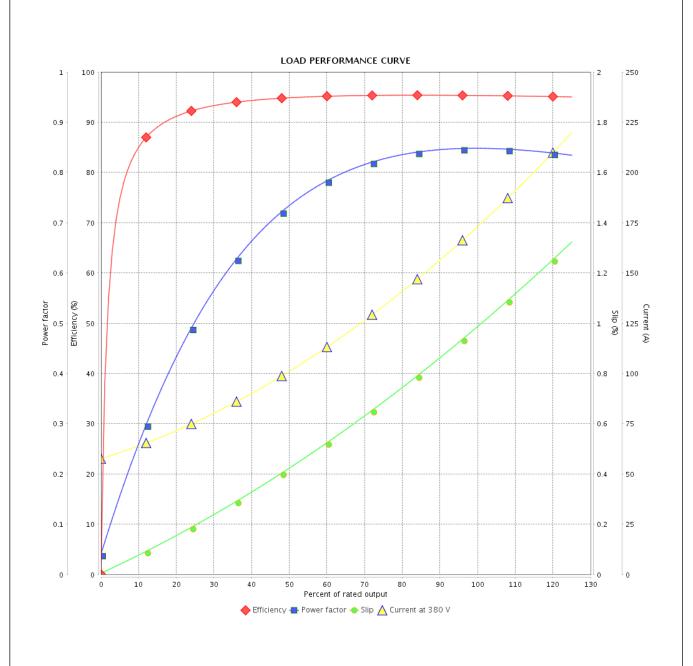


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Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40



Performance	: 3	880 V 50 Hz 4P IE3				
Rated current	: 1	69 A	Moment o	f inertia (J)	: 42.1 sq.ft.lb	
LRC	: 7	' .0	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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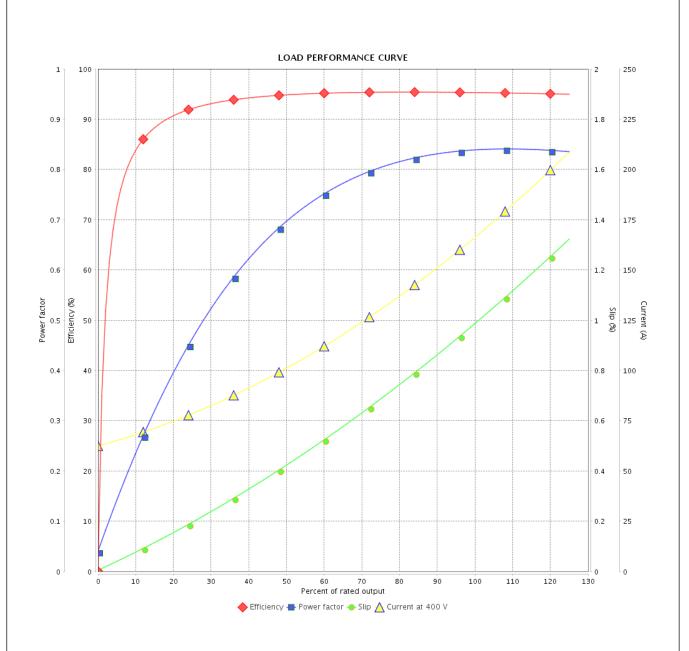
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Three-Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 162 A : 7.4 : 442 ft.lb : 220 % : 270 % : 1485 rpm	Moment of in Duty cycle Insulation classervice factor Temperature Design	ass or	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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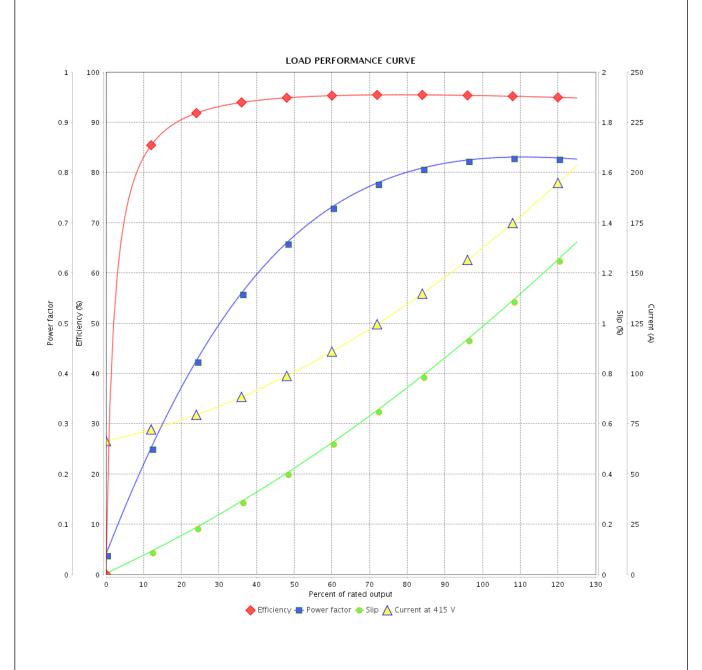


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Product line : W40 NEMA Premium Efficiency Product code : 14272540

Three-Phase

Catalog #: 15018OT3GRB444T-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current		158 A	Moment o	f inertia (J)	: 42.1 sq.ft.lb	
LRC	:	7.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	442 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.00	
Breakdown torque	:	290 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1485 rpm	Design		: B	
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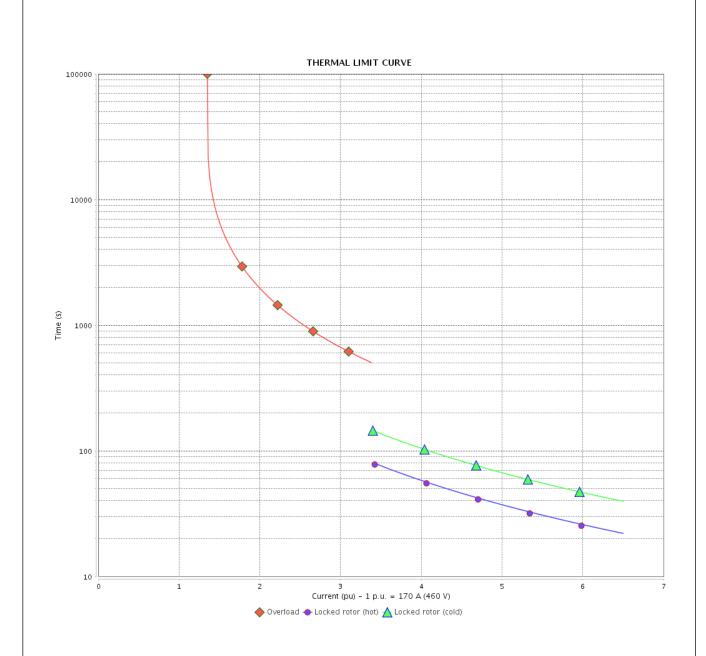


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Product line		: W40 NEMA Premium Effici Three-Phase	ency	Product code :	14272540	
		THICC THACC		Catalog # :	15018OT3GR	B444T-W40
			,			
Performance		: 460 V 60 Hz 4P		.	40.4 6.11	
Rated current LRC		: 170 A : 6.5	Moment o	of inertia (J)	: 42.1 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 442 ft.lb	Insulation	class	: F	
Locked rotor tord		: 200 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 240 % : 1784 rpm	Temperati Design	uie IISE	: 80 K : B	
Heating constan		•				
Cooling constant						
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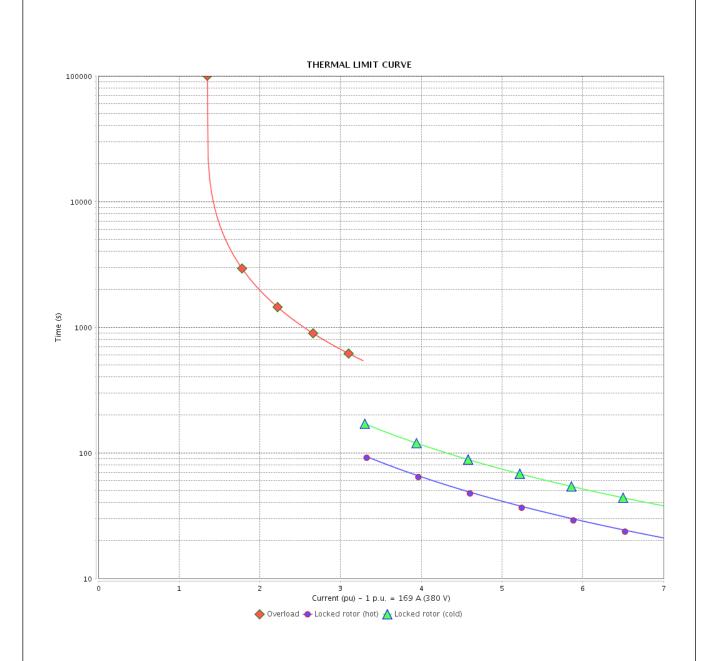


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			(Catalog # :	15018OT3GR	B444T-W40
Performance		30 V 50 Hz 4P IE3	N 4	************	40.4	
Rated current LRC	: 16 : 7.	69 A 0	Moment of Duty cycle	f inertia (J)	: 42.1 sq.ft.lb : Cont.(S1)	
Rated torque		12 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 40 %	Service far Temperatu		: 1.00 : 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant		01 0				
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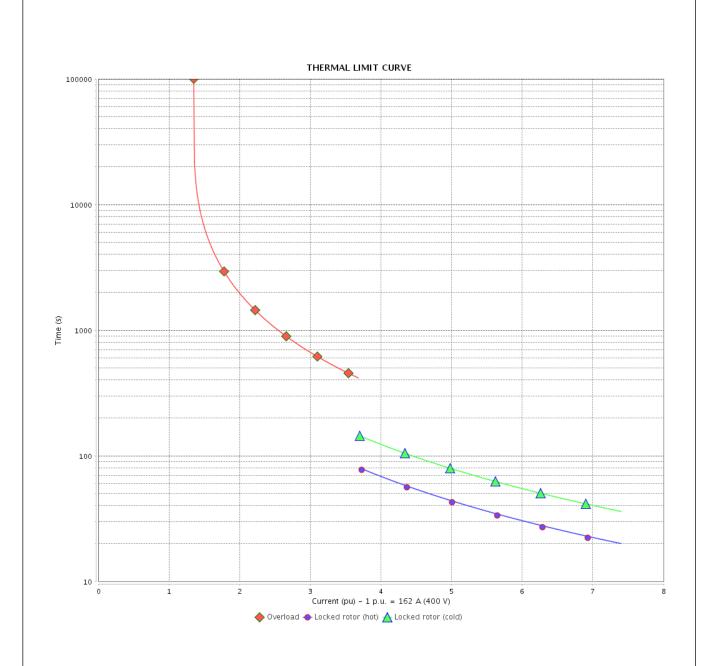


Customer	:				
Product line	: W40 NEMA Premium Efl Three-Phase		Product code : Catalog # :	14272540 15018OT3GI	RB444T-W40
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 162 A	Moment o	of inertia (J)	: 42.1 sq.ft.lb	
LRC Rated torque	: 7.4 : 442 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 220 % : 270 %	Service fa		: 1.00 : 80 K	
Breakdown torque Rated speed	: 270 % : 1485 rpm	Temperati Design	uic 115C	: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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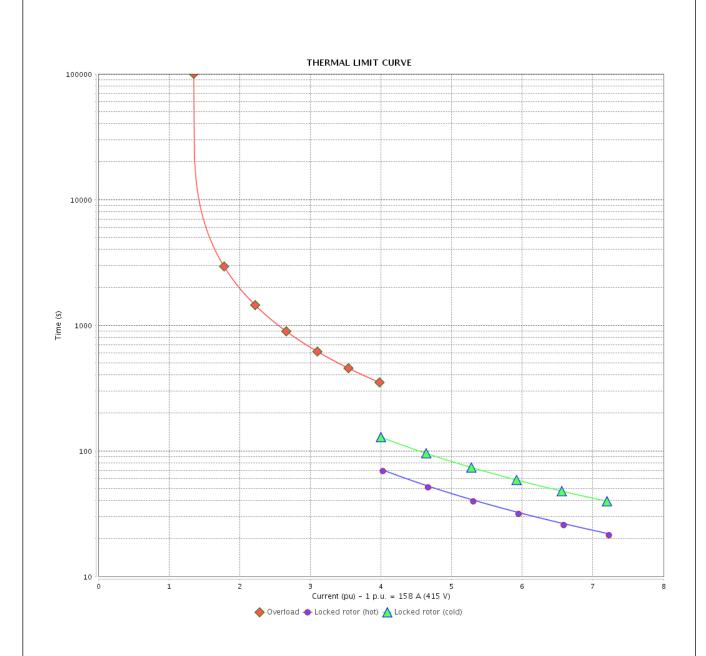


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i ioduct iiile	<u>:</u>	Three-Phase	•		14272340	
				Catalog # :	15018OT3GF	RB444T-W40
Performance	: 4	415 V 50 Hz 4P IE3				
Rated current		158 A	Moment o	f inertia (J)	: 42.1 sq.ft.lb	
LRC Rated torque		7.2 442 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		240 %	Service fa		. r : 1.00	
Breakdown torqu	ie : 2	290 %	Temperatu		: 80 K	
Rated speed	: '	1485 rpm	Design		: B	
Heating constant						
Cooling constant		01 0	П	· · ·	<u> </u>	
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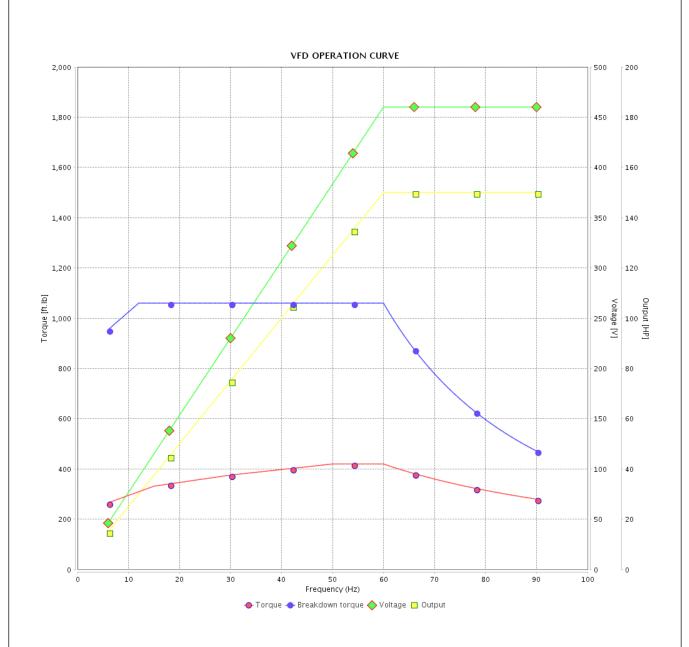
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Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272540

Catalog #: 15018OT3GRB444T-W40



Performance : 460 V 60 Hz 4P : 170 A Moment of inertia (J) : 42.1 sq.ft.lb Rated current **LRC** : 6.5 Duty cycle : Cont.(S1) : 442 ft.lb Insulation class : F Rated torque : 200 % Locked rotor torque Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1784 rpm Design : B

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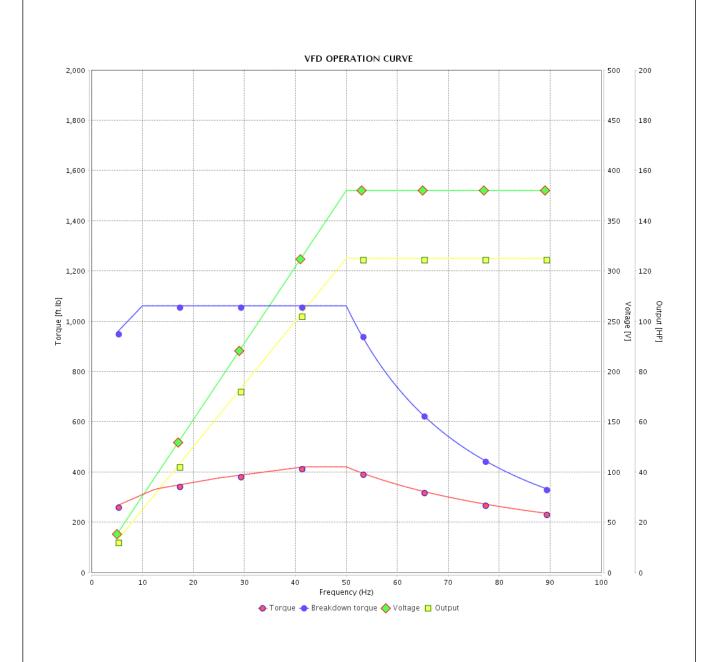
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Three-Phase

Product code : 14272540

Catalog # : 15018OT3GRB444T-W40

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 169 A : 7.0 : 442 ft.lb : 190 % : 240 % : 1485 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design	` ,	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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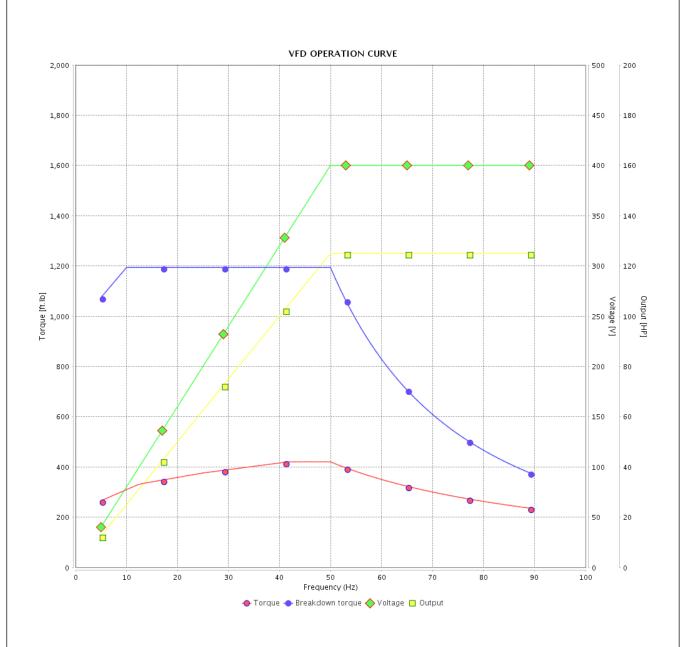
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14272540

Catalog #: 15018OT3GRB444T-W40

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 162 A : 7.4 : 442 ft.lb : 220 % : 270 % : 1485 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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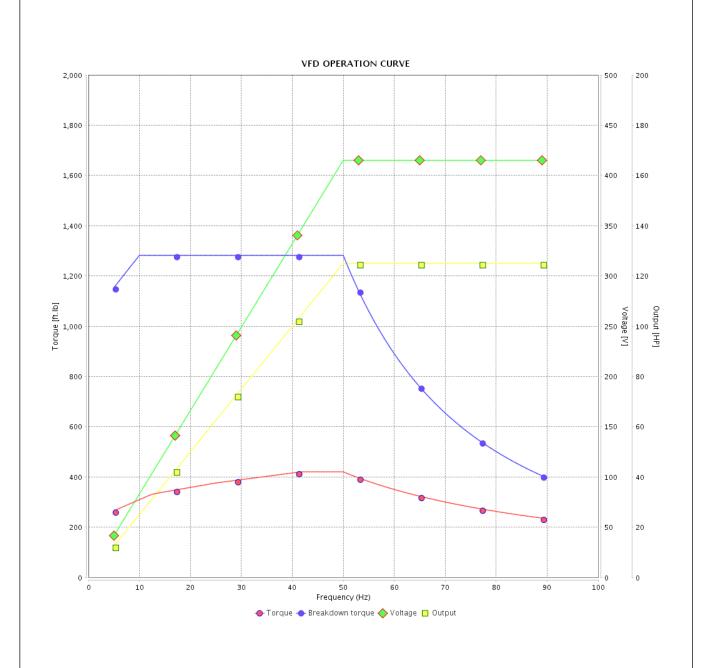
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 158 A : 7.2 : 442 ft.lb : 240 % : 290 % : 1485 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ri Design	s	: 42.1 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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