DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency

Product code:

14284972

: IC01 - ODP

Three-Phase

Catalog #: 12518OT3G405TS-W40

Frame : 404/5TS

Cooling method Mounting

Insulation class Duty cycle

: F-1 Rotation¹ : Both (CW and CCW)

Ambient temperature Altitude

: Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.

Starting method : Direct On Line

: IP23 Protection degree

Approx. weight³ : 1010 lb Moment of inertia (J) : 25.5 sq.ft.lb

		· ·· = ·						
Design		: B						
Output [HP]		125	100	100	100			
Poles		4	4	4	4			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		460	380	400	415			
Rated current [A]		138	138	133	129			
L. R. Amperes [A]		952	994	1024	1032			
LRC [A]		6.9x(Code G)	7.2x(Code H)	7.7x(Code H)	8.0x(Code J)			
No load current [A]	47.0	46.3	50.2	53.7			
Rated speed [RPN	/ []	1780	1480	1480	1480			
Slip [%]		1.11	1.33	1.33	1.33			
Rated torque [ft.lb]		369	355	355 355				
Locked rotor torque [%]		270	240	270	290			
Breakdown torque	[%]	260	260	260 300				
Service factor		1.25	1.00 1.00		1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)			
Noise level ²		69.0 dB(A)						
	25%	94.9	94.5	94.5	94.8			
Efficiency (%)	50%	95.0	94.6	94.6	94.9			
Emclericy (70)	75%	95.4	95.0	95.0	95.0			
1009		95.4	95.0	95.0	95.0			
	25%	0.50	0.50	0.46	0.43			
Power Factor	50%	0.75	0.76	0.72	0.69			
I OWEI Facioi	75%	0.83	0.84	0.82	0.80			
	100%	0.86	0.87	0.86	0.85			

Drive end

Non drive end

Foundation loads

Bearing type Sealing

6314 C3 Without

6212 Z C3 Without

Max. traction : 2900 lb Max. compression : 3910 lb

Bearing Seal Lubrication interval

Bearing Seal 20000 h

20000 h 13 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 21	

Three Phase Induction Motor - Squirrel Cage



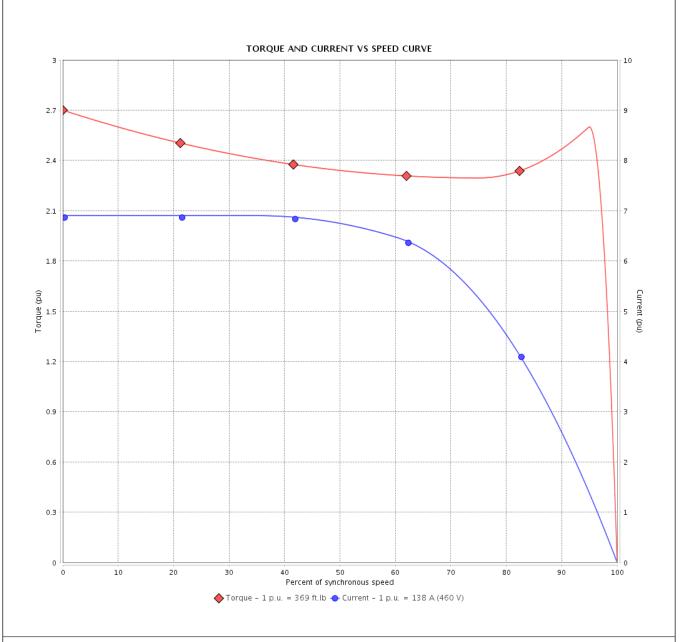
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance : 460 V 60 Hz 4P Rated current : 138 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 369 ft.lb : F Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K

Rated speed : 1780 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage



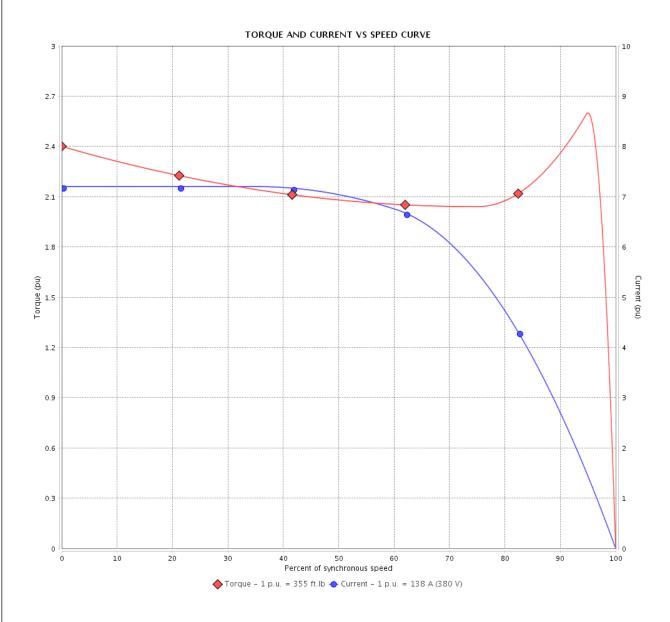
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance : 380 V 50 Hz 4P IE3 Rated current : 138 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



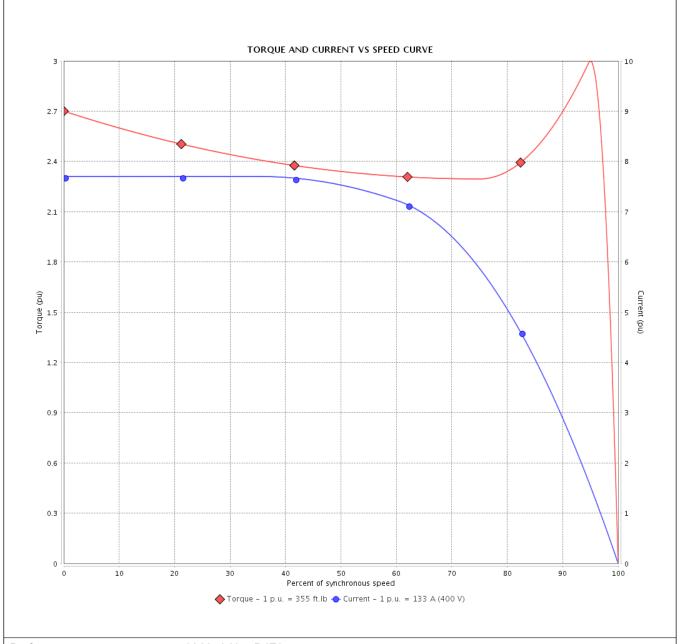
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 133 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K

Rated speed : 1480 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 21	

Three Phase Induction Motor - Squirrel Cage



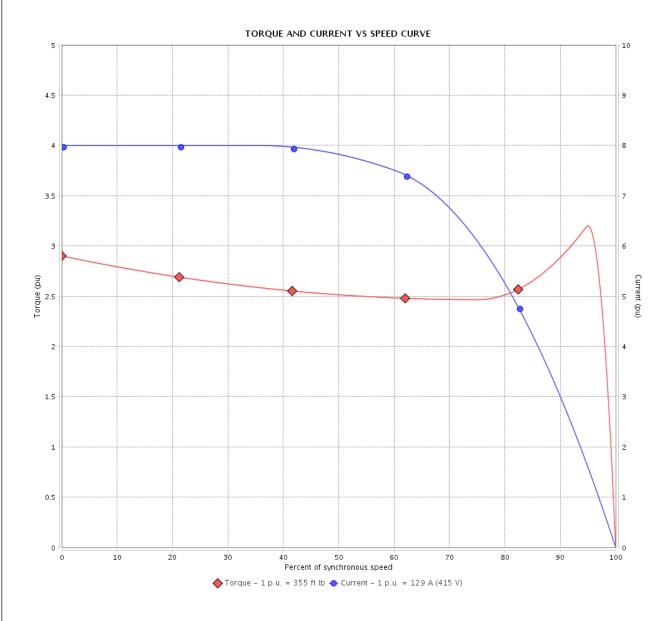
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance : 415 V 50 Hz 4P IE3 Rated current : 129 A Moment of inertia (J) : 25.5 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 355 ft.lb : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 14s (cold) 8s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 21	

Three Phase Induction Motor - Squirrel Cage



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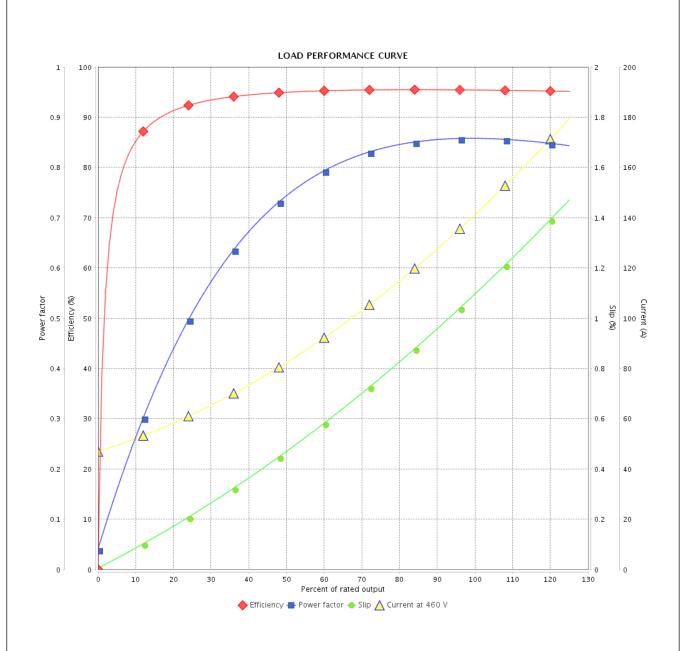
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40

6/21



Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 6.9 : 369 ft.lb : 270 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



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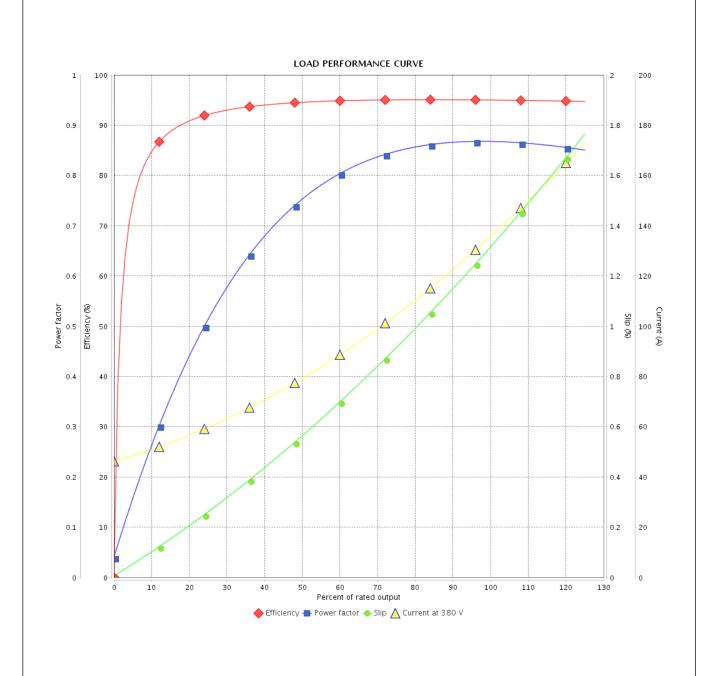
Product line : W40 NEMA Premium Efficiency Product code :

Three-Phase

Product code : 14284972

Catalog #: 12518OT3G405TS-W40

7/21



Performance	: 380 V 50 Hz 4P IE3				
Rated current			` '	: 25.5 sq.ft.lb	
LRC	: 7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 355 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



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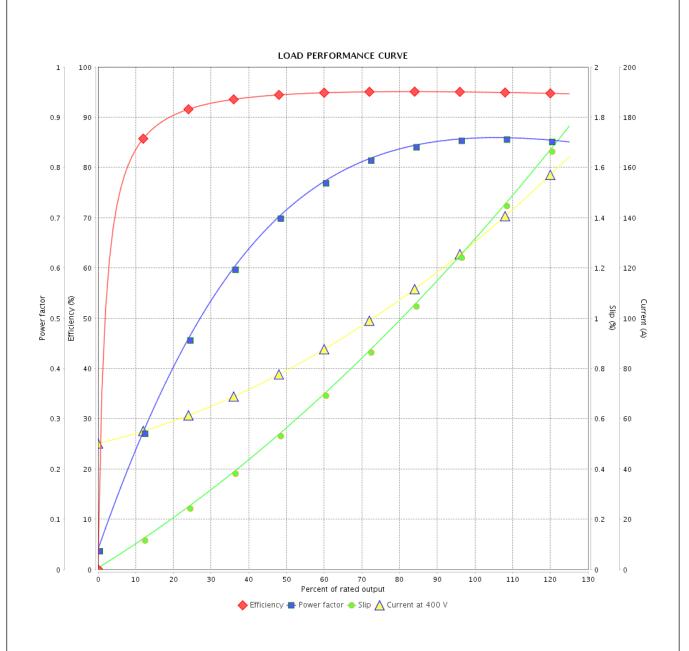
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40

8 / 21



Performance	: 4	00 V 50 Hz 4P IE3	3			
Rated current LRC	: 1 : 7	33 A 7.7	Moment of inertia (J) Duty cycle		: 25.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		355 ft.lb 270 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed	e : 3	800 % 480 rpm	Temperati Design	Temperature rise Design		
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage

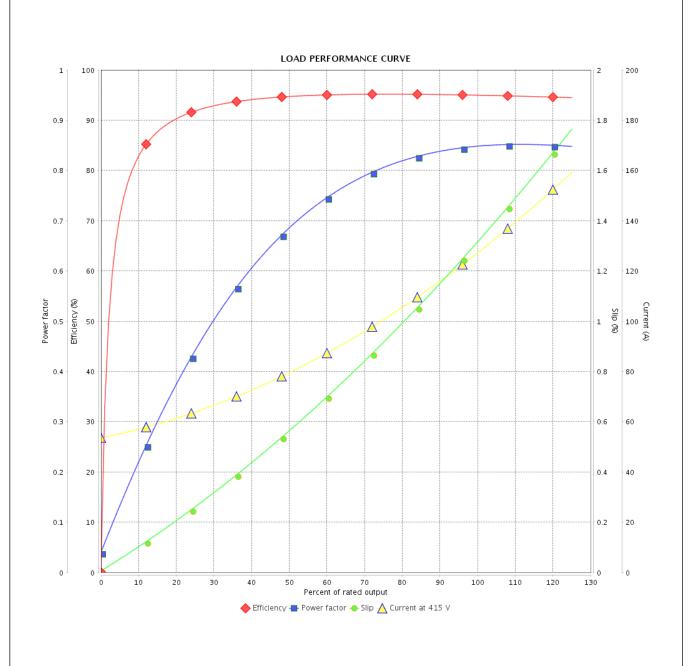


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14284972

Three-Phase

Catalog #: 12518OT3G405TS-W40



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 1	129 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 8	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	355 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	290 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	320 %	7 % Temperature rise		: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9/21	

Three Phase Induction Motor - Squirrel Cage

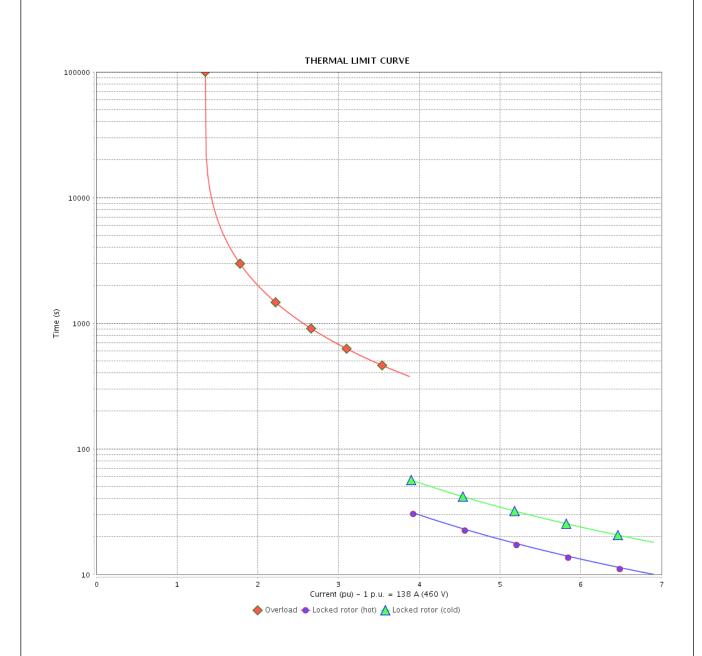


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Product line		: W40 NEMA Premium Efficient Three-Phase	ency	Product code :	14284972	
				Catalog # :	12518OT3G4	05TS-W40
Performance		: 460 V 60 Hz 4P				
Rated current		: 138 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb	
LRC Rated torque		: 6.9 : 369 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 270 %	Service fa	ictor	: 1.25	
Breakdown torqu	ue :	: 260 %	Temperat	ure rise	: 80 K	
Rated speed		: 1780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	t 	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022	_			10 / 21	

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

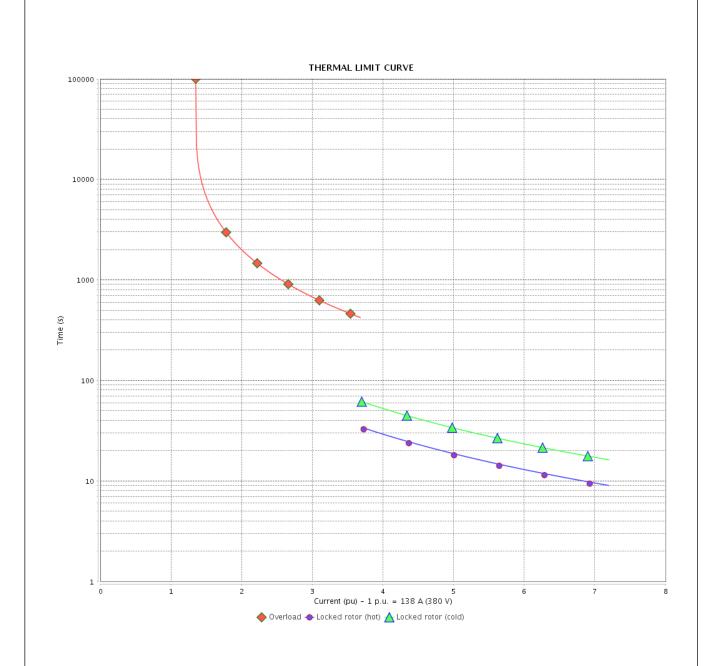


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Product line	: \ TI	W40 NEMA Premium Efficie hree-Phase		Product code :	14284972	
			(Catalog # :	12518OT3G4	05TS-W40
Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 38 ue : 24 e : 26	38 A .2 55 ft.lb 40 % 60 % 480 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•	<u> </u>			
Heating constant Cooling constant						
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Data	13/04/2022	1			12 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

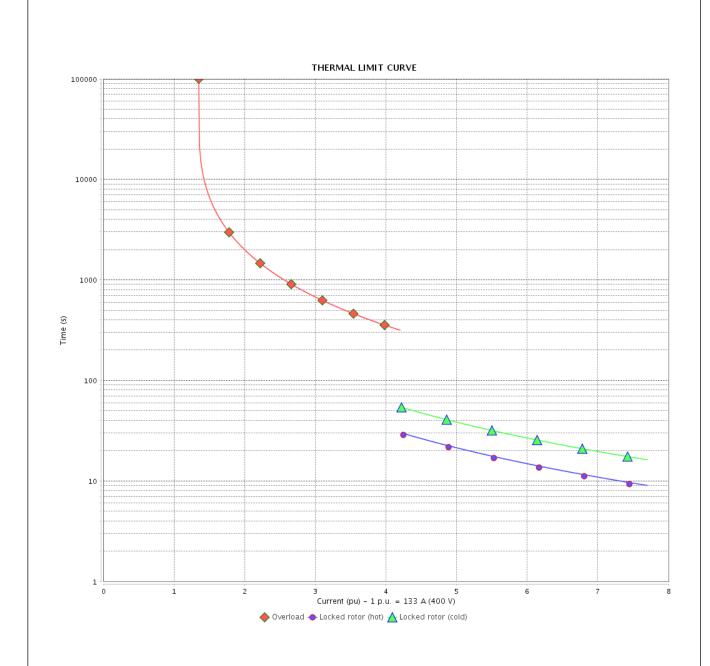


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Product line	: W40 NEMA Premium Efficion Three-Phase	ency Product code : Catalog # :	14284972 12518OT3G4	05TS W40
		Catalog # .	12516013G4	0515-7740
Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 133 A	Moment of inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 355 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 270 % : 300 %	Service factor Temperature rise	: 1.00 : 80 K	
Rated speed	: 1480 rpm	Design	: B	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
	<u> </u>			
Performed by				
Checked by			Page	Revision
Data 13/04/20	222		14/21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

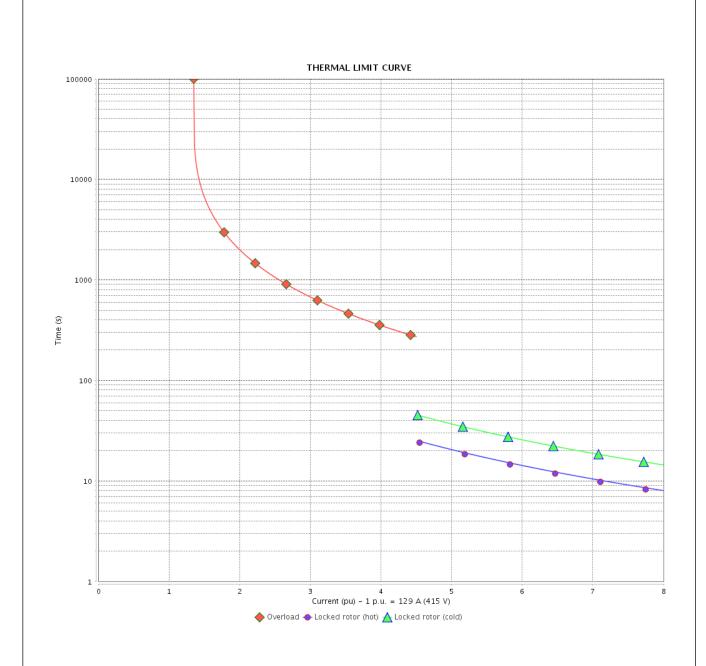


Customer		:					
Product line		: W40 NEMA Premium Effici	ency	Product code :	14284972		
Froduct line		Three-Phase					
				Catalog # :	12518OT3G4	05TS-W40	
Performance		: 415 V 50 Hz 4P IE3					
Rated current		: 129 A	Moment o	of inertia (J)	: 25.5 sq.ft.lb		
LRC		: 8.0	Duty cycle	9	: Cont.(S1)		
Rated torque		: 355 ft.lb	Insulation		: F		
Locked rotor tord Breakdown torqu		: 290 % : 320 %	Service fa Temperati		: 1.00 : 80 K		
Rated speed		: 1480 rpm	Design	uro 1100	: B		
Heating constan	nt .						
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
Performed by					_		
Checked by	10/04/225				Page	Revision	
Date	13/04/2022				16 / 21		

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



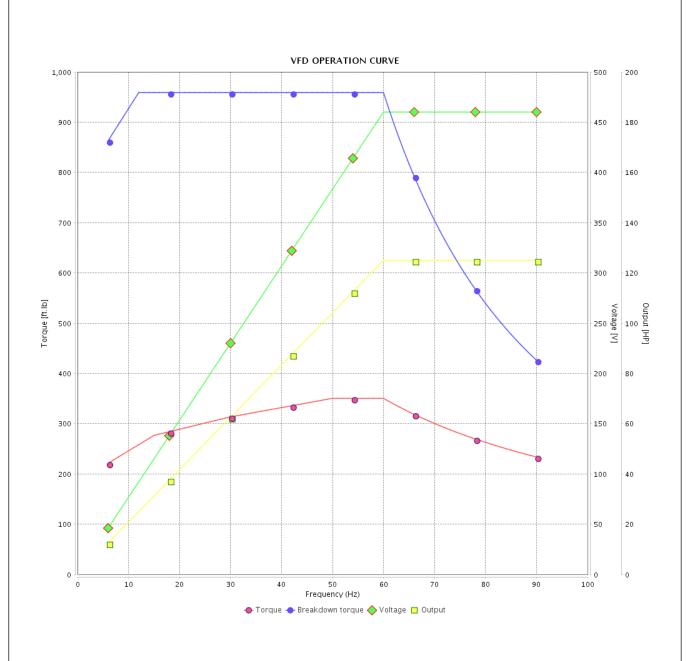
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance	:	460 V 60 Hz 4P				
Rated current	ated current : 138 A Moment		Moment of	Moment of inertia (J)		
LRC	:	6.9	Duty cycle	•	: Cont.(S1)	
Rated torque	:	369 ft.lb	Insulation	class	: F	
Locked rotor torq	jue :	270 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	260 %	Temperat	ure rise	: 80 K	
Rated speed	•			: B		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				18 / 21	

Three Phase Induction Motor - Squirrel Cage



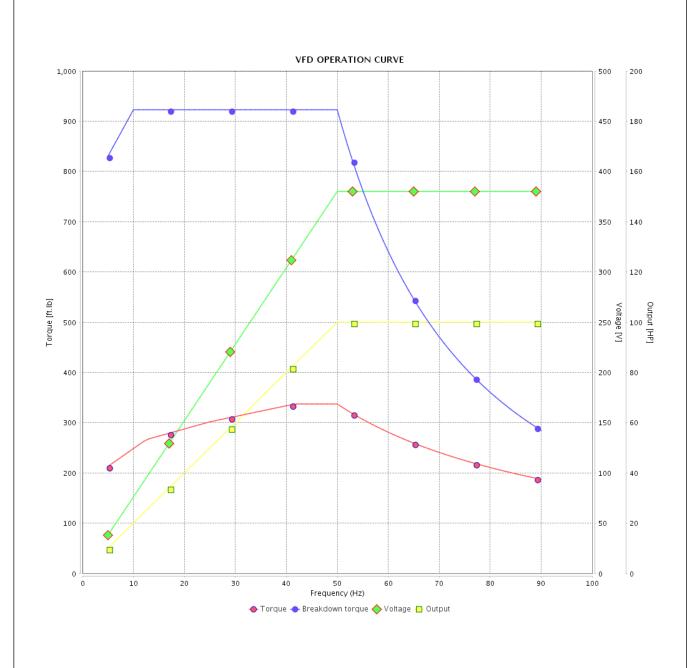
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	nt : 138 A Mome		Moment o	f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 7	7.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	555 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	.60 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
Rev. C		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



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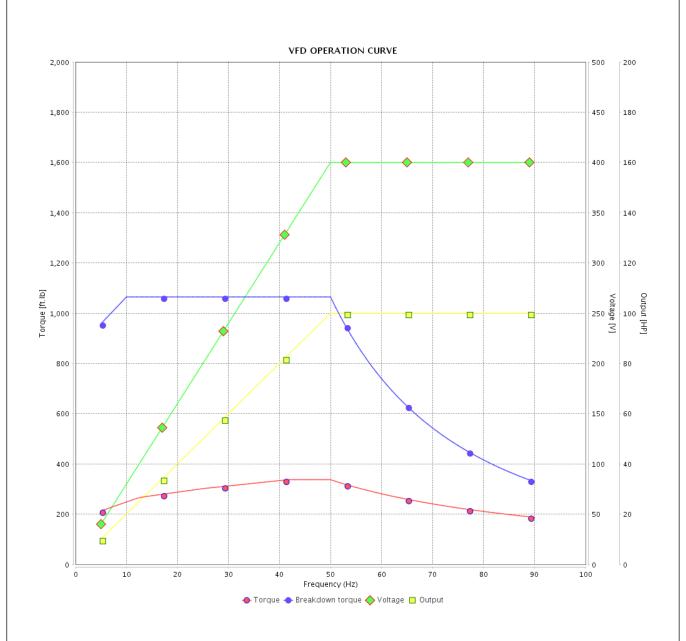
Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40

20 / 21



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 133 A : 7.7 : 355 ft.lb : 270 % : 300 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Rev.	: 1480 rpm Changes Summary	Design	Performed	: B Checked	Date
Performed by Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



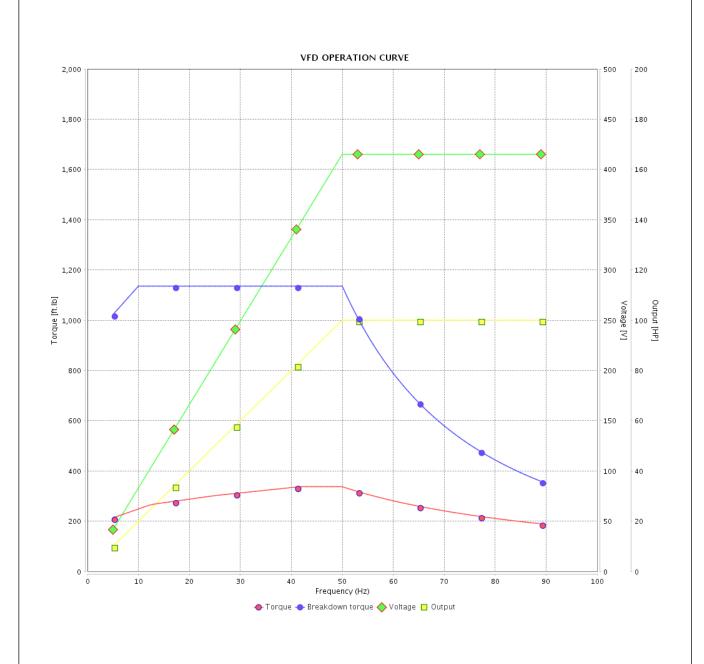
Customer

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14284972

Catalog #: 12518OT3G405TS-W40



Performance	. /	115 V 50 Hz 4P IE3				
Rated current	: 1	129 A	Moment of	f inertia (J)	: 25.5 sq.ft.lb	
LRC	: 8	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	355 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	290 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	320 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by		T				
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Checked by					Page	Revision
Date	13/04/2022				21 / 21	

