### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40

Frame : 254/6TC Cooling method : IC01 - ODP

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 252 lb

Protection degree : IP23 Moment of inertia (J) : 0.9592 sq.ft.lb

Design	5	: B	Women of the	. 0.93	az 34.it.ib
Output [HP]		25 25 25		25	
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		59.4/29.7	35.5	34.3	33.8
L. R. Amperes [A]		362/181	202	213	226
LRC [A]		6.1x(Code G)	5.7x(Code F)	6.2x(Code G)	6.7x(Code G)
No load current [A]	]	18.0/9.00	9.00	10.0	11.0
Rated speed [RPN	1]	3530	2890	2900	2915
Slip [%]		1.94	3.67	3.33	2.83
	Rated torque [ft.lb]		45.4	45.3	45.0
Locked rotor torqu	e [%]	190	130	140	150
Breakdown torque	[%]	260	200	210	229
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time		27s (cold) 15s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	12s (cold) 7s (hot)
Noise level <sup>2</sup>					
	25%	89.2	87.8	88.2	88.1
Efficiency (%)	50%	89.5	88.4	88.5	88.5
Linciency (70)	75%	91.0	88.5	89.4	89.5
100%		91.0	88.9	89.4	89.6
	25%	0.50	0.57	0.51	0.46
Power Factor	50%	0.72	0.79	0.73	0.68
I OWELL ACIOI	75%	0.82	0.86	0.83	0.79
	100%	0.86	0.89	0.87	0.85

<u>Drive end</u> <u>Non drive end</u> Foundation loads 6309 Z C3 6209 Z C3 Max traction

Bearing type : 6309 Z C3 6209 Z C3 Max. traction
Sealing : Without Without Max. compression

Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h

Lubricant amount : 13 g 9 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 65.7A SF 1.00 SFA 65.7A

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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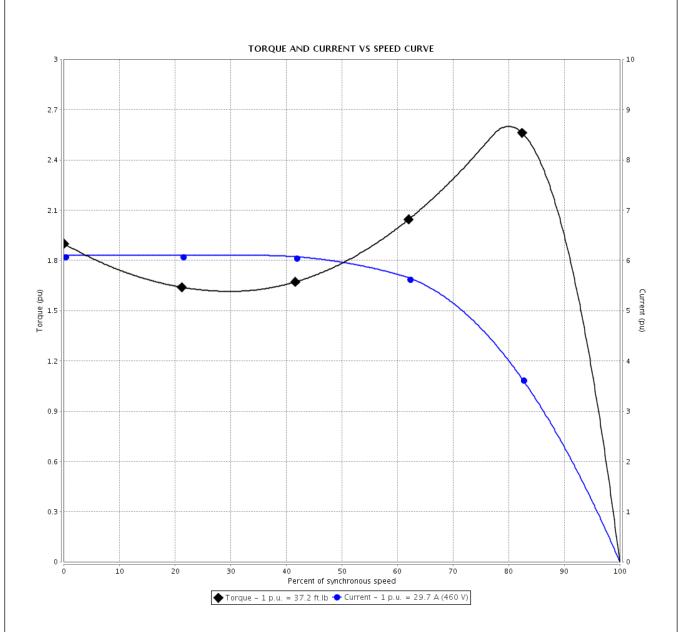


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance : 230/460 V 60 Hz 2P Rated current : 59.4/29.7 A Moment of inertia (J) : 0.9592 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 37.2 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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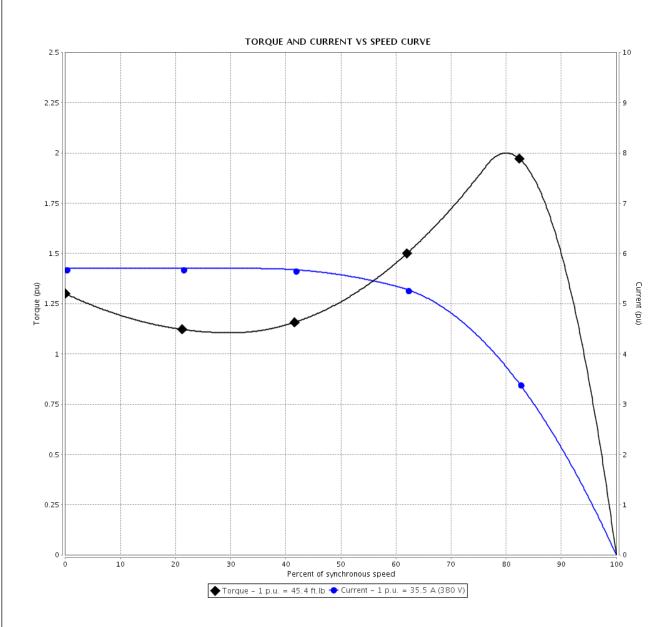


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 380 V 50 Hz 2P		
Rated current	: 35.5 A	Moment of inertia (J)	: 0.9592 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 45.4 ft.lb	Insulation class	:F
Locked rotor torque	: 130 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2890 rpm	Design	: B
Locked rotor time	: 14s (cold) 8s (hot)		

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

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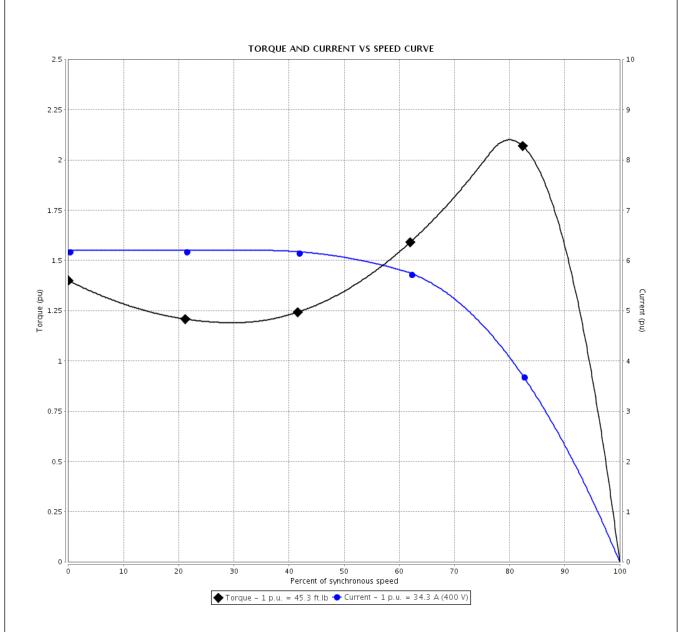


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 400 V 50 Hz 2P IE1		
Rated current LRC Rated torque Locked toror torque Breakdown torque	: 34.3 A : 6.2 : 45.3 ft.lb : 140 % : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.9592 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K
Rated speed	: 2900 rpm	Design	: B

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

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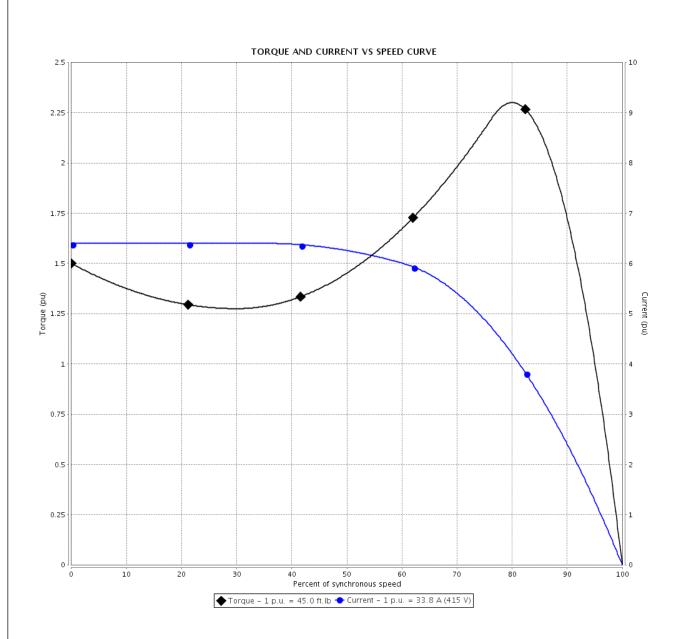


Customer

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 33.8 A	Moment of inertia (J)	: 0.9592 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 45.0 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2915 rpm	Design	: B
Locked rotor time	· 12s (cold) 7s (hot)		

Locked rotor time : 12s (cold) 7s (hot)

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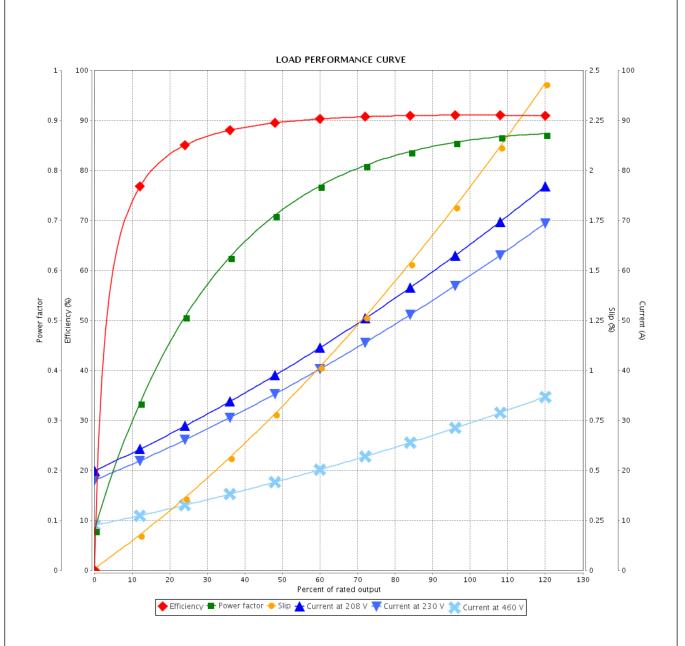
Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40

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Performance	: 230/460 V 60 Hz 2P				
Rated current	: 59.4/29.7 A	Moment o	f inertia (J)	: 0.9592 sq.ft.	lb
LRC	: 6.1	Duty cycle	}	: Cont.(S1)	
Rated torque	: 37.2 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service factor		: 1.15	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 3530 rpm	Design		: B	
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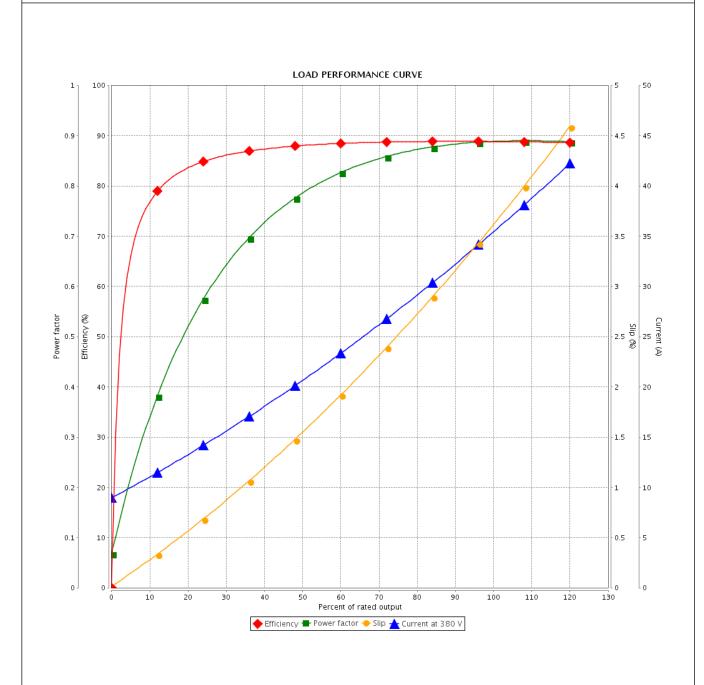


Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 38	80 V 50 Hz 2P				
Rated current	: 38	5.5 A	Moment of	of inertia (J)	: 0.9592 sq.ft.	.lb
LRC	: 5.	.7	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	5.4 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 13	30 %	Service fa	actor	: 1.00	
Breakdown torqu	ie : 20	00 %	Temperat	ure rise	: 105 K	
Rated speed	: 28	890 rpm	Design		: B	
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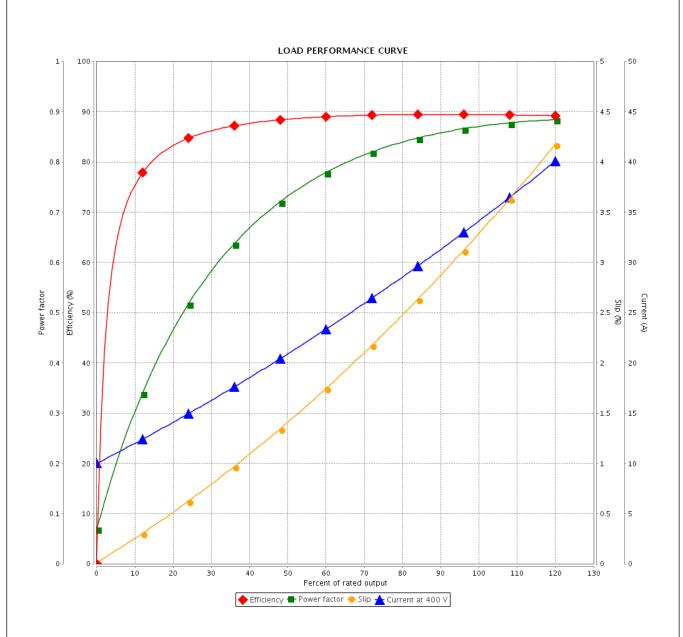
Customer :

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 6.2 : 45.3 ft.lb : 140 % : 210 % : 2900 rpm	Moment of Duty cycle Insulation Service fa Temperature Design	class ctor	: 0.9592 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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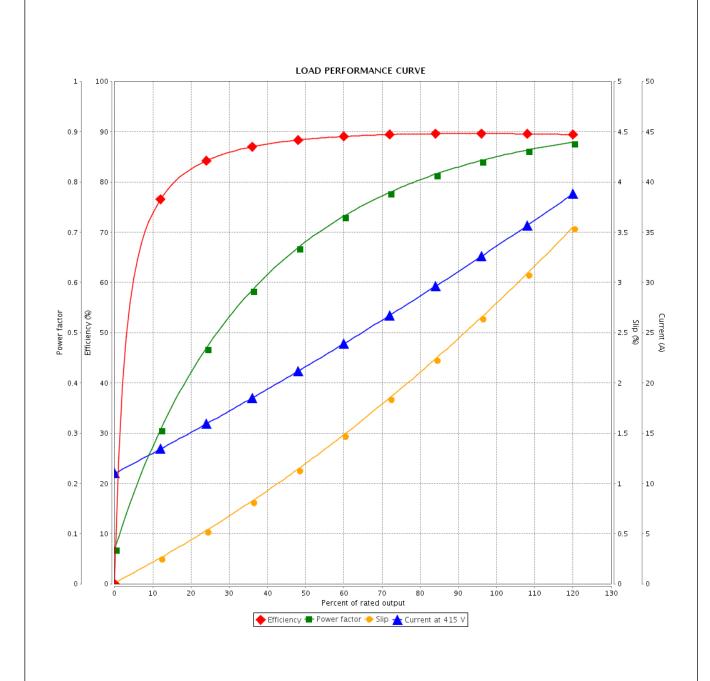


Customer

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 4	15 V 50 Hz 2P IE1				
Rated current	: 3	: 33.8 A		f inertia (J)	: 0.9592 sq.ft.	.lb
LRC	: 6	.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 4	5.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1:	50 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	29 %	Temperature rise		: 105 K	
Rated speed	: 2	915 rpm	Design		: B	
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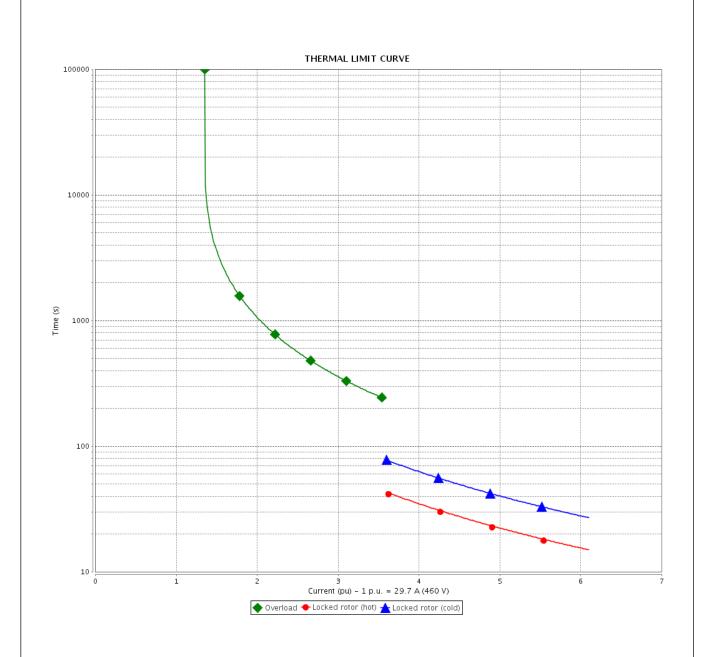


Customer	:					
Product line	: \	N40 High Efficiency	Three-Phase	Product code : Catalog # :	14491557 025360P3EF W40	FP256TC-
Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC	: 59 : 6.	9.4/29.7 A	Momei Duty c	nt of inertia (J)	: 0.9592 sq.ft.l : Cont.(S1)	b
Rated torque	: 37	7.2 ft.lb	Insulat	ion class	: F	
Locked rotor torque Breakdown torque		90 % 60 %		e factor rature rise	: 1.15 : 80 K	
Rated speed		530 rpm	Design		: B	
Heating constant						
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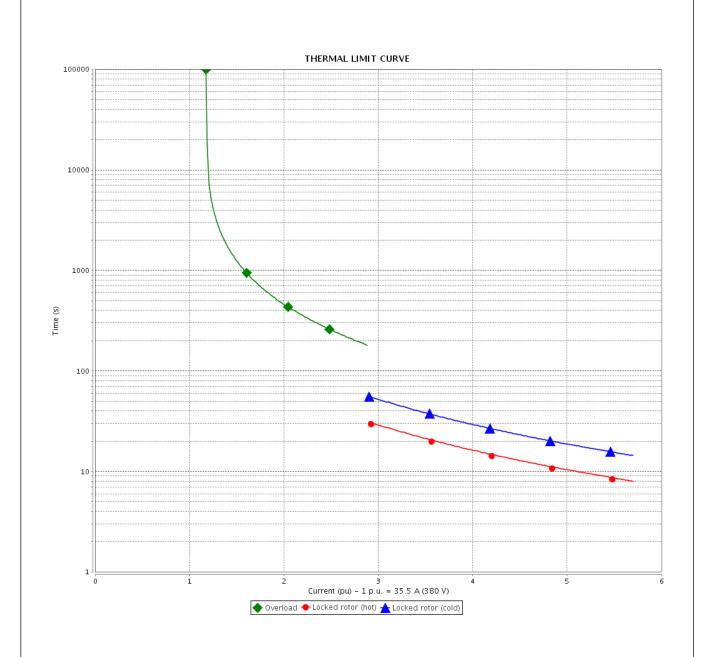


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Product line		: W40 High Efficiency Three	-Phase	Product code : Catalog # :	14491557 02536OP3EI W40	FP256TC-
Performance		380 V 50 Hz 2P				
Rated current	:	35.5 A	Moment o	of inertia (J)	: 0.9592 sq.ft.l	lb
LRC Rated torque		5.7 45.4 ft.lb	Duty cycle	Э	: Cont.(S1) : F	
Locked rotor tord		130 %	Service fa		. r : 1.00	
Breakdown torqu	ie :	200 %	Temperat		: 105 K	
Rated speed		2890 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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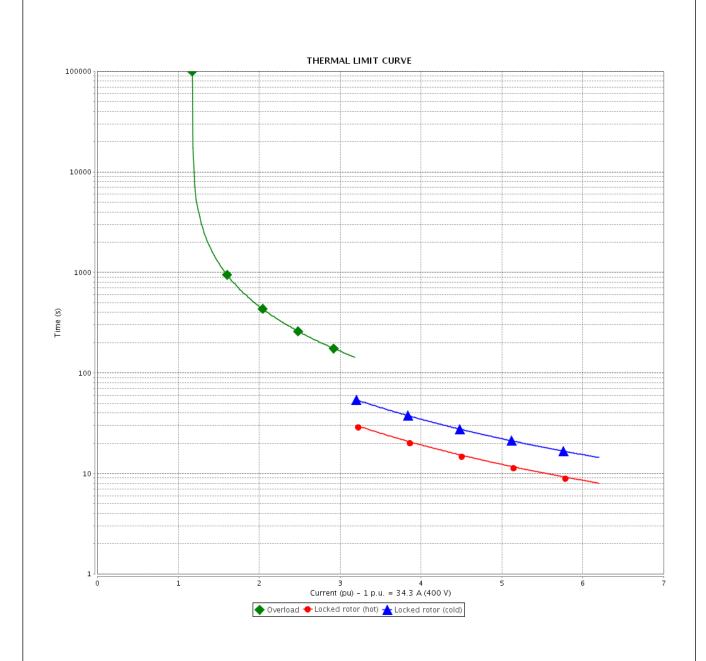


Customer	:					
Product line	: W40	) High Efficiency	Three-Phase	Product code : Catalog # :	14491557 025360P3EI W40	FP256TC-
Performance	: 400 V	/ 50 Hz 2P IE1				
Rated current	: 34.3 /		Moment	of inertia (J)	: 0.9592 sq.ft.l	b
LRC Rated torque	: 6.2 : 45.3 f	ft.lb	Duty cycl Insulation	le n class	: Cont.(S1) : F	
Locked rotor torque	: 140 %		Service f	actor	: 1.00	
Breakdown torque Rated speed	: 210 % : 2900		Tempera Design	lure rise	: 105 K : B	
Heating constant						
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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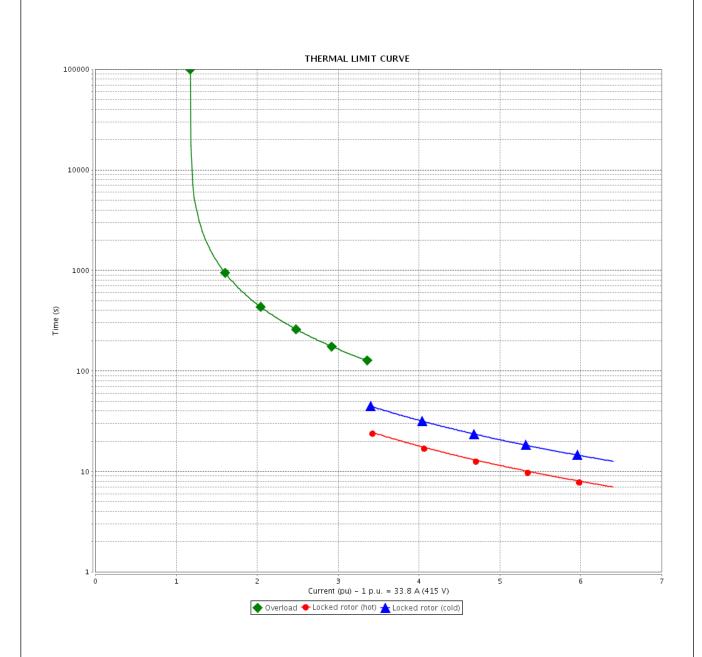


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Customer	:					
Product line	:	W40 High Efficiency Three-	-Phase	Product code : Catalog # :	14491557 02536OP3EF W40	FP256TC-
Performance	: 4	15 V 50 Hz 2P IE1				
Rated current		3.8 A		f inertia (J)	: 0.9592 sq.ft.l	b
LRC Rated torque	: 6 : 4	.7 5.0 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor tord	que : 1	50 %	Service fa	ctor	: 1.00	
Breakdown torqu		29 % 015 rpm	Temperatu	ıre rise	: 105 K	
Rated speed		915 rpm	Design		: B	
Heating constan						
Cooling constan	t I	Ohanna Orres		Dorf	Ohl !	D-1
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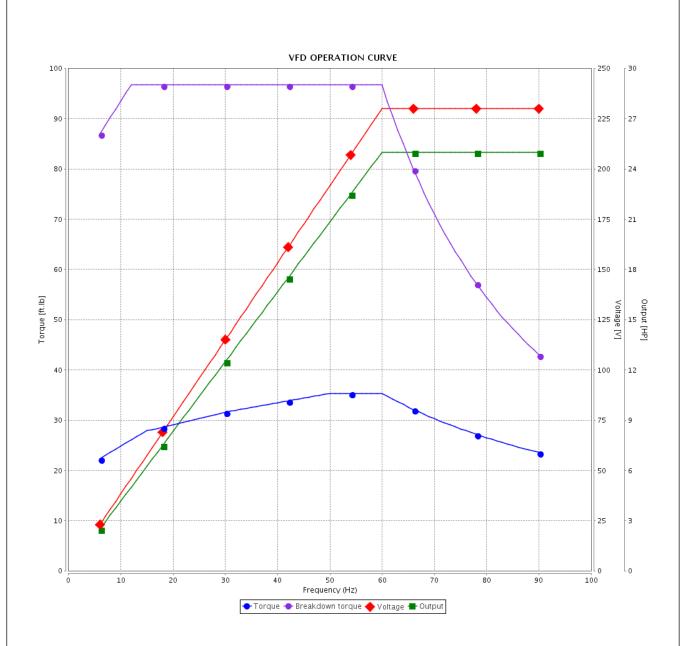
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Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 025360P3EFP256TC-

W40

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Performance : 230/460 V 60 Hz 2P Rated current : 59.4/29.7 A Moment of inertia (J) : 0.9592 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 37.2 ft.lb : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage

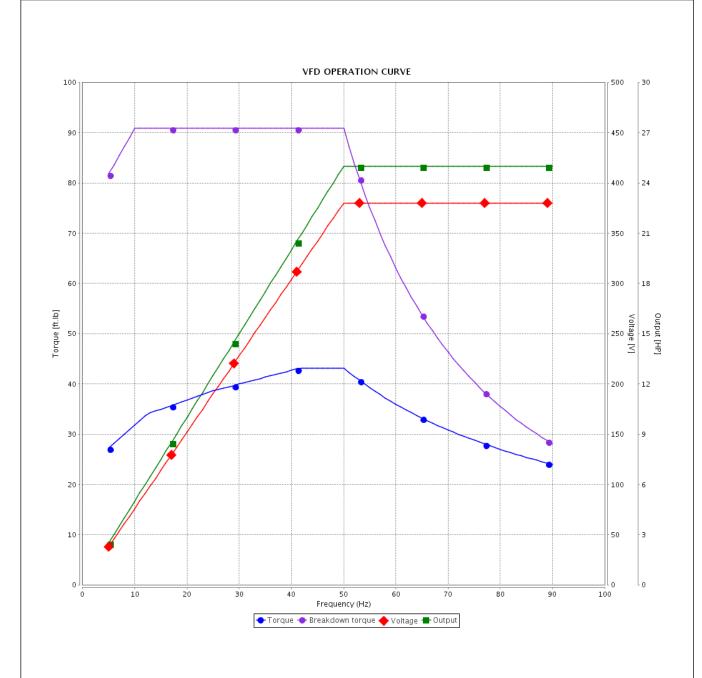


Customer

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	: 38	30 V 50 Hz 2P				
Rated current LRC	: 35 : 5.	5.5 A Moment of ii				
Rated torque		5.4 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torq		30 %	Service fa		: 1.00	
Breakdown torqu	e : 20	00 %	6 Temperature rise		: 105 K	
Rated speed	: 28	390 rpm	Design		: B	
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Product line : W40 High Efficiency Three-Phase Product code : 14491557

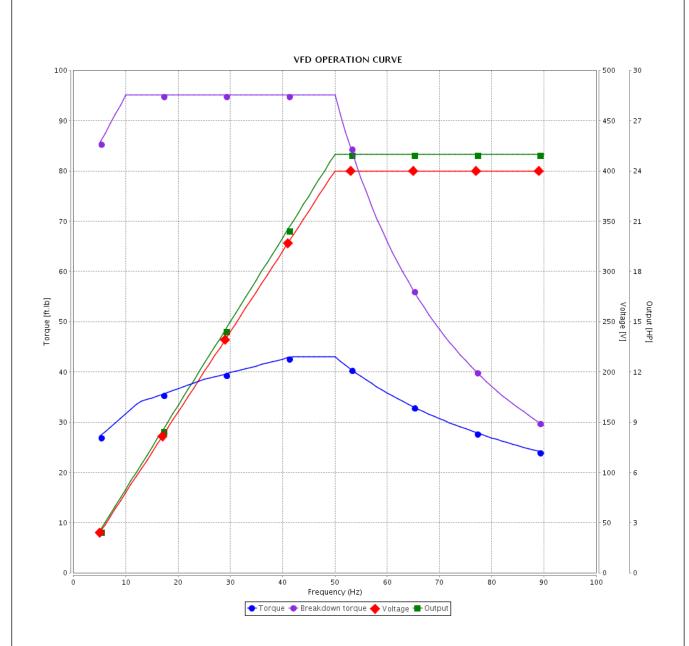
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Performance	:	400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	34.3 A 6.2 45.3 ft.lb 140 % 210 % 2900 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.9592 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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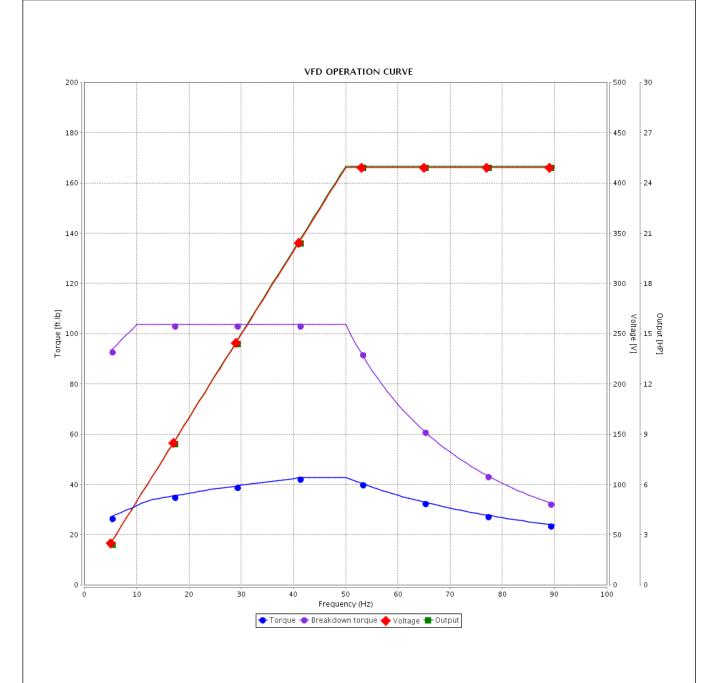


Customer

Product line : W40 High Efficiency Three-Phase Product code : 14491557

Catalog #: 02536OP3EFP256TC-

W40



Performance	:	415 V 50 Hz 2P IE1				
Rated current	:	33.8 A	Moment o	of inertia (J)	: 0.9592 sq.ft	.lb
LRC	:	6.7	Duty cycle	, ,	: Cont.(S1)	
Rated torque	:	45.0 ft.lb	Insulation		: F ` ´	
Locked rotor torqu	ue :	150 %	Service fa	ictor	: 1.00	
Breakdown torque	e ::	229 %	Temperat	Temperature rise		
Rated speed	:	2915 rpm	Design		: B	
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