## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14356602

Catalog #: 40012XT3G586/7

Frame : 586/7T Cooling method : IC411 - TEFC

Insulation class 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 : 4984 lb

Protection degree		: IP55	Moment of ine		sq.ft.lb
Output [HP]		400	350	350	350
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		479	505	480	468
L. R. Amperes [A]		2876	2677	2880	3042
LRC [A]		6.0x(Code G)	5.3x(Code F)	6.0x(Code G)	6.5x(Code G)
No load current [A]		145	145	153	161
Rated speed [RPM]	]	1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
Rated torque [ft.lb]		1770	1860	1860 1860	
Locked rotor torque [%]		200	180	200	220
Breakdown torque	Breakdown torque [%]		190	210	229
Service factor		1.15	1.00		
Temperature rise		80 K	80 K	80 K 80 K	
Locked rotor time		127s (cold) 71s (hot)	63s (cold) 35s (hot)	63s (cold) 35s (hot)	63s (cold) 35s (hot)
Noise level <sup>2</sup>		77.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
	25%	92.7	92.7	92.0	92.4
Efficiency (%)	50%	93.6	93.6	93.0	93.0
Liliciency (70)	75%	95.0	94.5	94.5	95.0
100%		95.8	95.4	95.4	95.4
25%		0.48	0.50	0.47	0.44
Power Factor	50%	0.70	0.72	0.69	0.66
1 OWELL ACIOL	75%	0.78	0.79	0.77	0.76
	100%	0.82	0.82	0.82	0.81

Non drive end Foundation loads Drive end

Bearing type 6322 C3 6319 C3 Max. traction : 6417 lb Sealing Viton Viton Seal Max. compression : 11401 lb

Oil Seal

11094 h Lubrication interval 9212 h Lubricant amount 45 g 60 g Mobil Polyrex EM Lubricant type

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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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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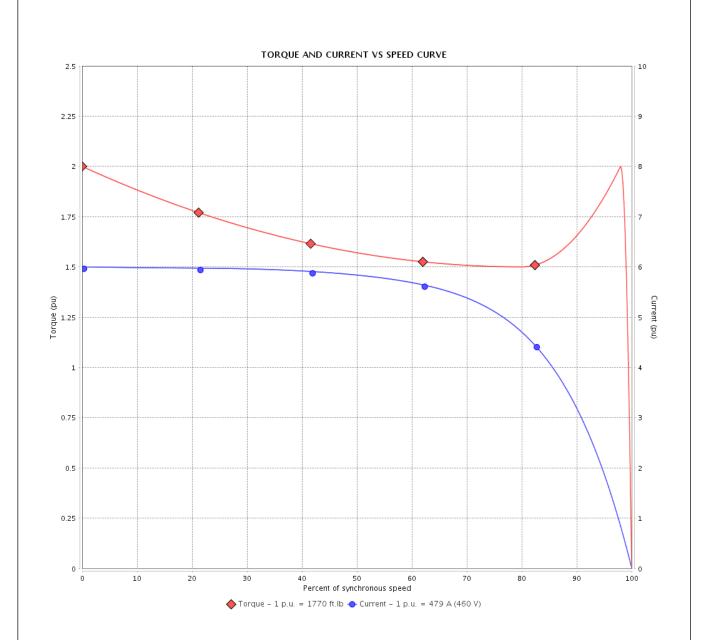
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 40012XT3G586/7

14356602



Performance : 460 V 60 Hz 6P Rated current : 479 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F : 1770 ft.lb Insulation class Rated torque : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1190 rpm

Locked rotor time : 127s (cold) 71s (hot)

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### Three Phase Induction Motor - Squirrel Cage



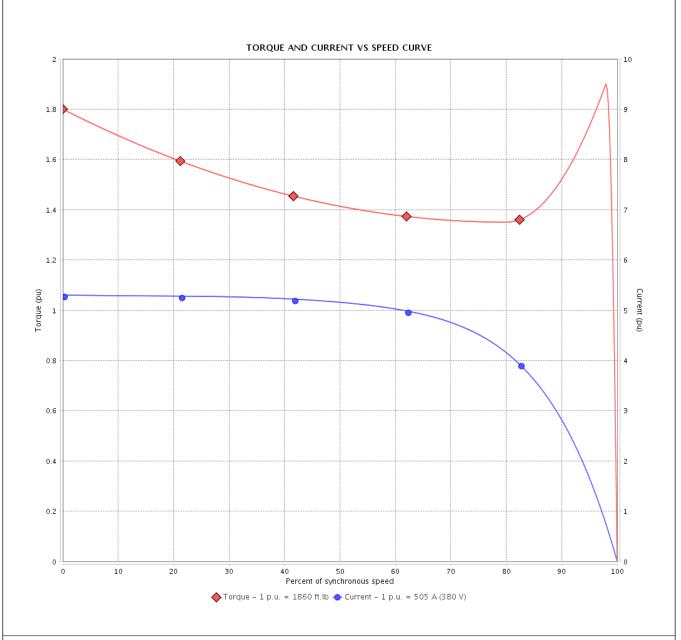
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 380 V 50 Hz 6P IE2

Rated current : 505 A
LRC : 5.3
Rated torque : 1860 ft.lb
Locked rotor torque : 180 %
Breakdown torque : 190 %

Rated speed

Moment of inertia (J) : 368 sq.ft.lb

Duty cycle : Cont.(S1)
Insulation class : F

Service factor : 1.00
Temperature rise : 80 K

Locked rotor time : 63s (cold) 35s (hot)

: 990 rpm

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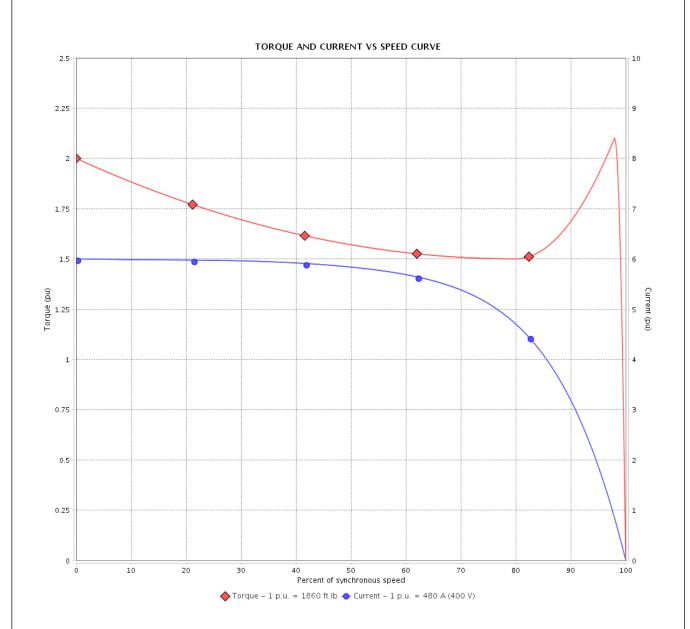


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14356602

Phase

Catalog #: 40012XT3G586/7



: 400 V 50 Hz 6P IE2 Performance Rated current : 480 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1860 ft.lb Insulation class : F Rated torque : 200 % Service factor : 1.00 Locked rotor torque : 210 % Breakdown torque Temperature rise : 80 K Rated speed : 990 rpm

Locked rotor time : 63s (cold) 35s (hot)

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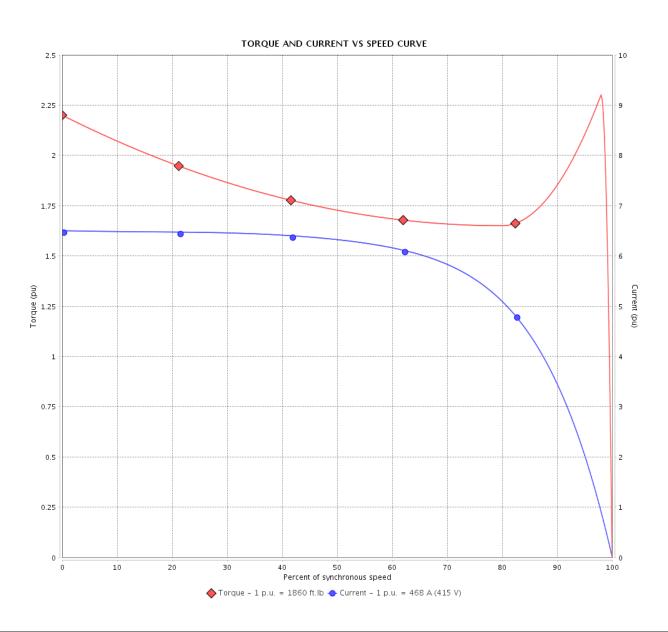
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 415 V 50 Hz 6P IE2

Rated current : 468 A
LRC : 6.5
Rated torque : 1860 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %

Locked rotor time

Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00

: 368 sq.ft.lb

: 80 K

Moment of inertia (J)

Temperature rise

Rated speed : 990 rpm

: 63s (cold) 35s (hot)

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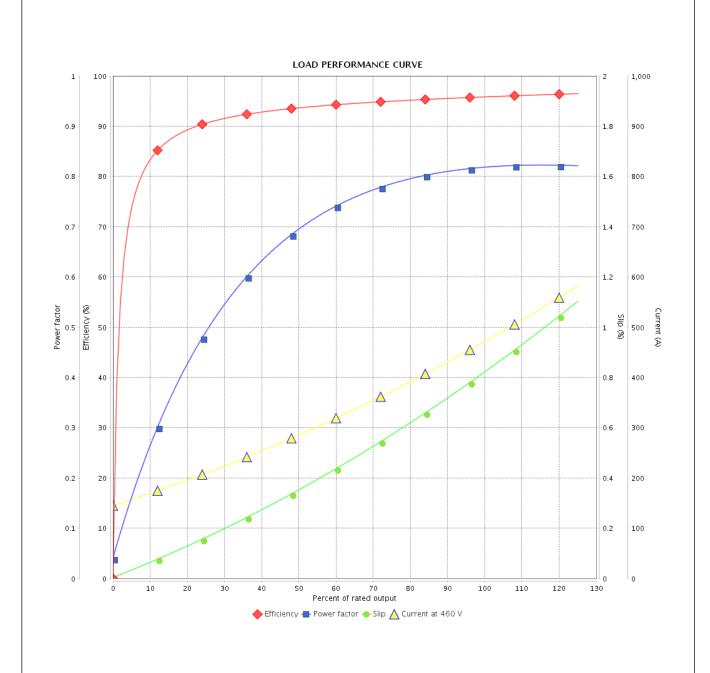
Customer

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 460 V 60 Hz 6P Rated current : 479 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1770 ft.lb Rated torque Insulation class : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1190 rpm

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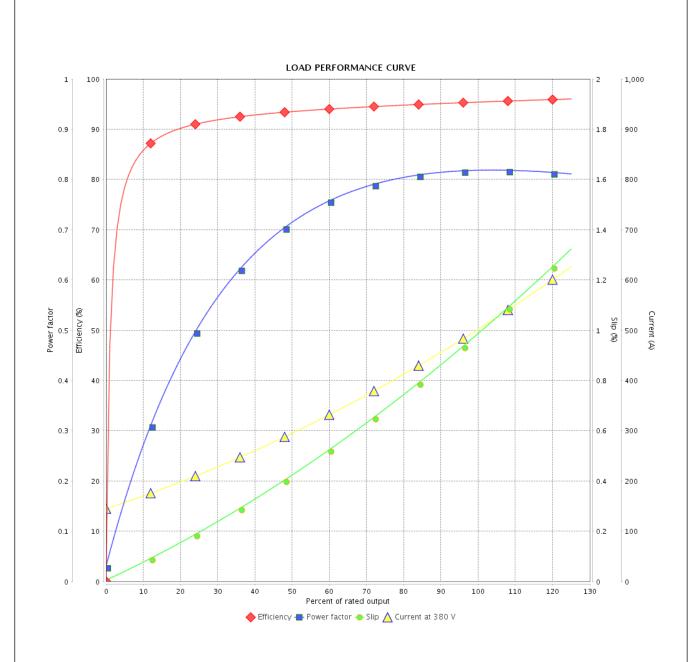


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14356602

Phase

Catalog #: 40012XT3G586/7



Performance : 380 V 50 Hz 6P IE2 : 505 A Rated current Moment of inertia (J) : 368 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 1860 ft.lb Rated torque Insulation class : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 990 rpm

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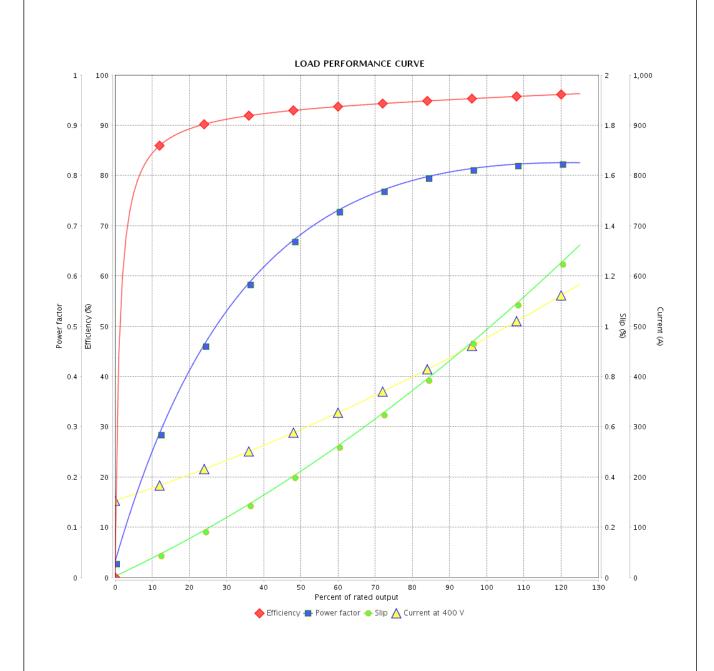
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 400 V 50 Hz 6P IE2 Rated current : 480 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1860 ft.lb Rated torque Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 990 rpm

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### Three Phase Induction Motor - Squirrel Cage



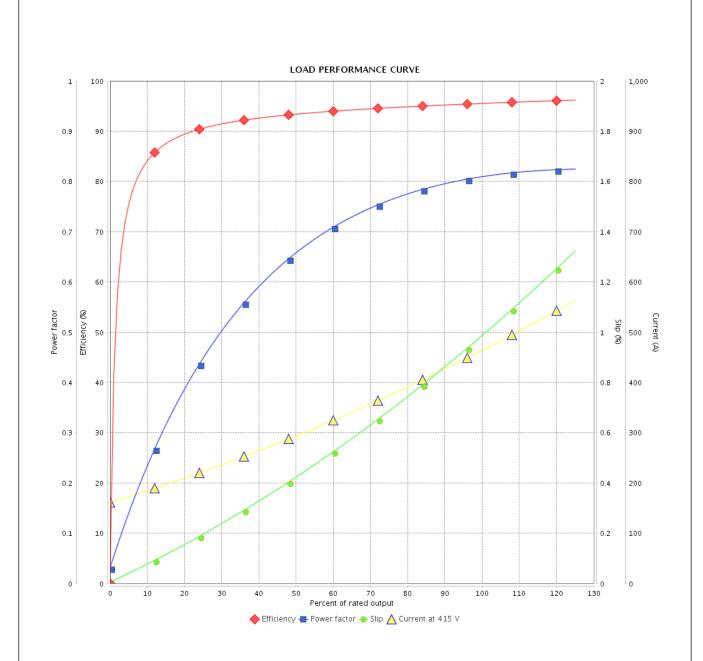
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 40012XT3G586/7

14356602



Performance : 415 V 50 Hz 6P IE2 : 468 A Moment of inertia (J) : 368 sq.ft.lb Rated current **LRC** : 6.5 Duty cycle : Cont.(S1) : 1860 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 990 rpm

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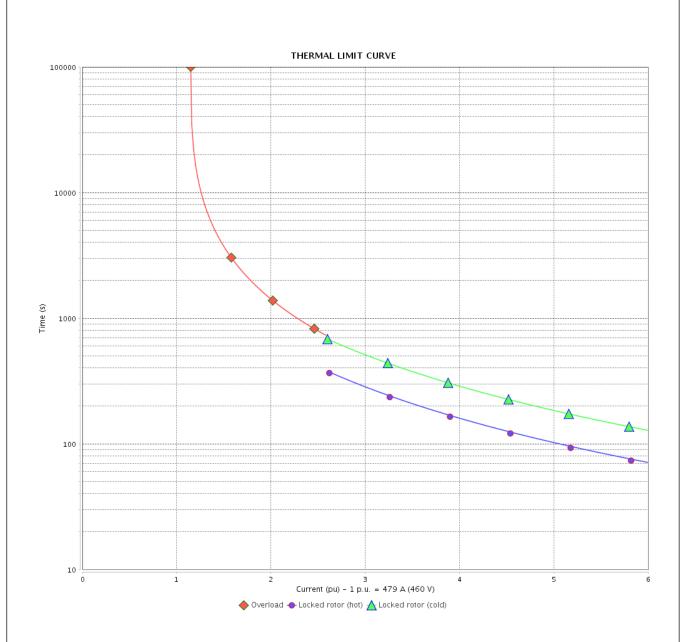


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14356602	
	۲	nase		Catalog # :	40012XT3G	586/7
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 4 : 6 : 1 jue : 2	60 V 60 Hz 6P 79 A .0 770 ft.lb 00 % 00 % 190 rpm	Moment of Duty cycle Insulation Service fa Temperat	class actor	: 368 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Heating constant						
Cooling constant		Ohanna Orres		Dout	Ohl !	D. :
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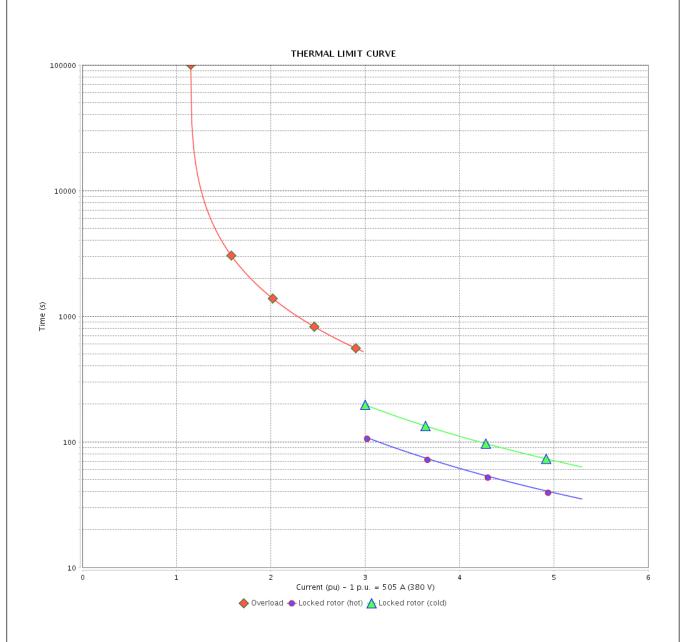


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Product line	: I P	NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	14356602 40012XT3G	586/7
				catalog π .	100 12/(100)	
Performance		80 V 50 Hz 6P IE2		<b>6</b>	000 ""	
Rated current LRC	: 50 : 5.	05 A 3	Moment of Duty cycle	of inertia (J)	: 368 sq.ft.lb : Cont.(S1)	
Rated torque	: 18	860 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		80 % 90 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		90 % 90 rpm	romperati	ui C 113G	. 00 K	
Heating constan						
Cooling constan						
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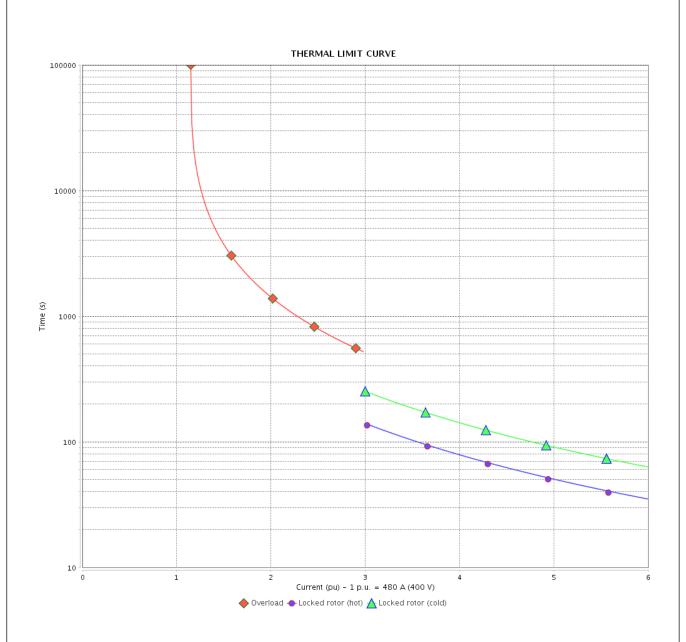


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Product line		NEMA Premium Efficiency in the contract of the	Three-	Product code : Catalog # :	14356602 40012XT3G5	86/7
Performance	: 40	00 V 50 Hz 6P IE2				
Rated current		80 A	Moment of	of inertia (J)	: 368 sq.ft.lb	
LRC	: 6.		Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		860 ft.lb 00 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		10 %	Temperat		: 80 K	
Rated speed		90 rpm	•			
Heating constan	 t					
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

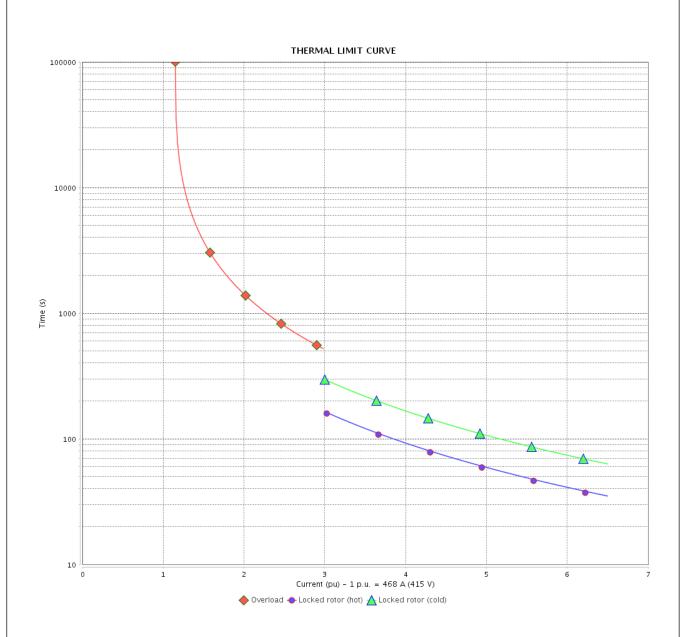


Customer	:					
Product line		NEMA Premium Efficiency in the hase	Three-	Product code : Catalog # :	14356602 40012XT3G5	86/7
Performance	· 4·	15 V 50 Hz 6P IE2				
Rated current		68 A	Moment of	of inertia (J)	: 368 sq.ft.lb	
LRC	: 6.	5	Duty cycle	е	: Cont.(S1)	
Rated torque		860 ft.lb	Insulation		: F	
Locked rotor tord Breakdown tord		20 % 29 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		90 rpm	Tomporat	0.0.100	. 55 11	
Heating constan						
Cooling constant						
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## Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage



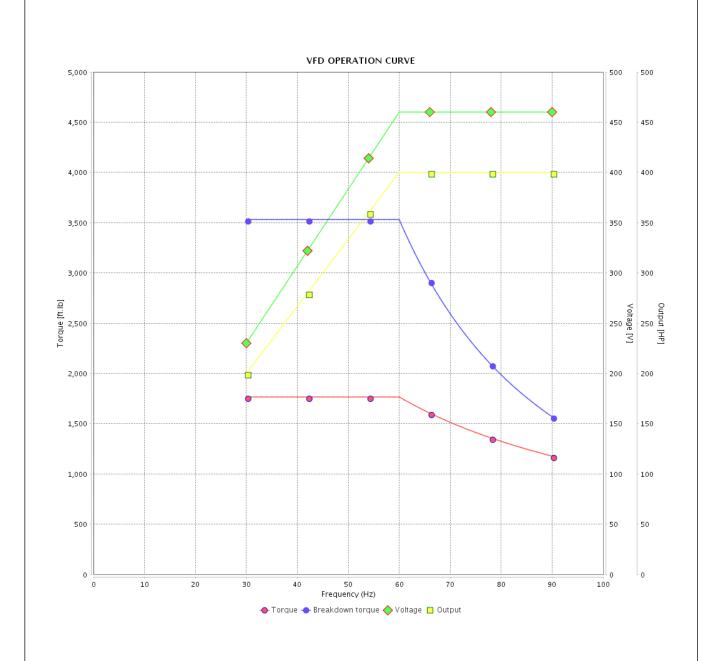
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 460 V 60 Hz 6P Rated current : 479 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1770 ft.lb Rated torque Insulation class : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 1190 rpm

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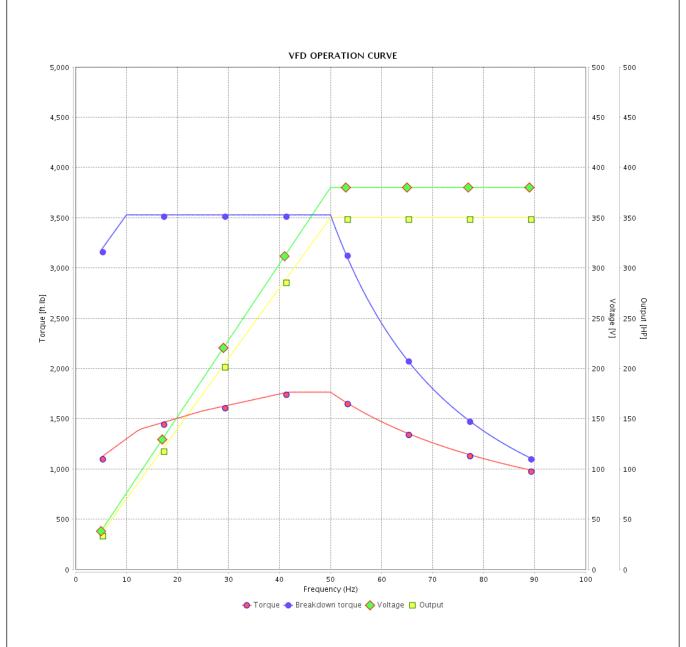
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Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 380 V 50 Hz 6P IE2

Rated current : 505 A Moment of inertia (J) : 368 sq.ft.lb LRC : 5.3 Duty cycle : Cont.(S1)

Rated torque : 1860 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.00
Breakdown torque : 190 % Temperature rise : 80 K

Rated speed : 990 rpm

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### Three Phase Induction Motor - Squirrel Cage



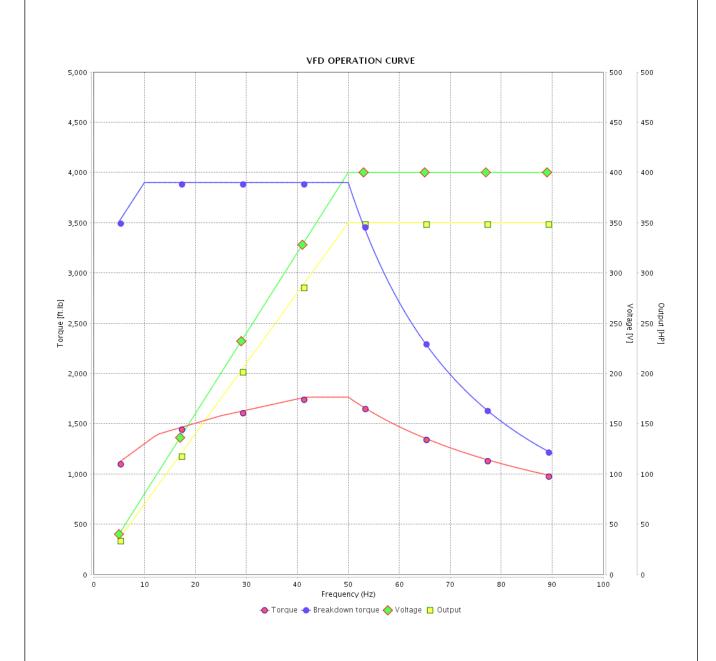
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14356602

Catalog # : 40012XT3G586/7



Performance : 400 V 50 Hz 6P IE2 Rated current : 480 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 1860 ft.lb : F Rated torque Insulation class Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 990 rpm

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### Three Phase Induction Motor - Squirrel Cage



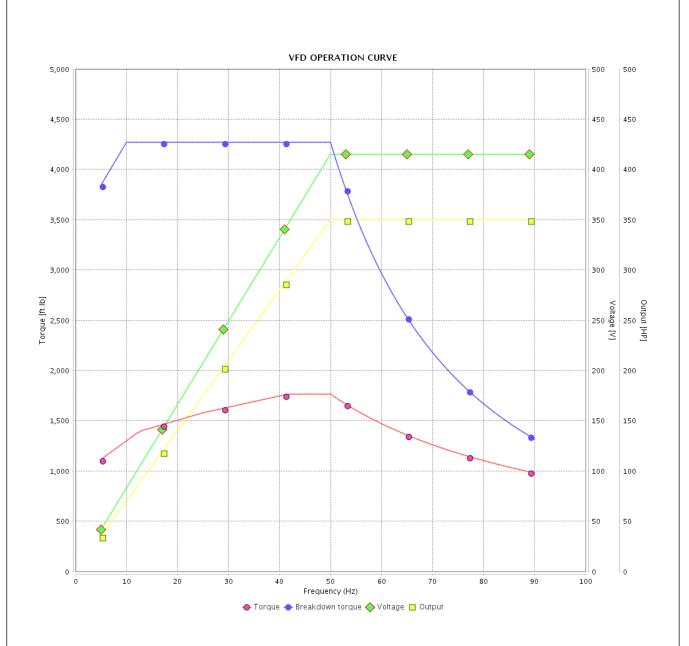
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Product code: 14356602

Catalog #: 40012XT3G586/7



Performance : 415 V 50 Hz 6P IE2

Rated current : 468 A Moment of inertia (J) : 368 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 1860 ft.lb Rated torque Insulation class : F Locked rotor torque : 220 % Service factor : 1.00

Breakdown torque : 229 % Temperature rise : 80 K

Rated speed : 990 rpm

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