DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11904012

Catalog #: 10018ET3E405JP-W22

Frame : 404/5JP Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 1178 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 29.9 sq.ft.lb

Design		: B						
Output [HP]		100	75	75	75	100	100	100
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		226/113	102	98.3	95.9	138	131	127
L. R. Amperes [A]		1650/825	785	826	854	814	852	902
LRC [A]		7.3x(Code H)	7.7x(Code H)	8.4x(Code J)	8.9x(Code K)	5.9x(Code F)	6.5x(Code	7.1x(Code H)
							G)	
No load current [A]	76.0/38.0	37.6	40.1	42.0	37.6	40.1	42.0
Rated speed [RPN	1]	1780	1485	1485	1485	1470	1475	1475
Slip [%]	Slip [%]		1.00	1.00	1.00	2.00	1.67	1.67
Rated torque [ft.lb]		295	265	265	265	357	356	356
Locked rotor torque [%]		240	260	280	290	190	210	220
Breakdown torque	Breakdown torque [%]		280	310	330	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		23s (cold)	16s (cold)	16s (cold)				
		13s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)
Noise level ²		68.0 dB(A)	64.0 dB(A)	64.0 dB(A)				
	25%	94.6	93.4	93.3	93.0	94.8	94.7	94.4
Efficiency (%)	50%	95.0	94.0	93.9	93.6	94.5	94.5	94.5
Efficiency (%)	75%	95.0	94.4	94.5	94.5	94.1	94.5	94.5
	100%	95.4	95.0	95.0	95.0	93.6	94.1	94.5
	25%	0.51	0.47	0.44	0.41	0.57	0.53	0.51
Power Factor	50%		0.72	0.69	0.66	0.82	0.79	0.77
FUWEI FACIOI	75%	0.84	0.83	0.81	0.79	0.86	0.85	0.84
	100%	0.87	0.86	0.85	0.84	0.88	0.88	0.87

Non drive end Drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 2083 lb Sealing Lip Seal Lip Seal : 3260 lb Max. compression 12000 h Lubrication interval 12000 h

Lubricant amount 27 g 27 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 245A SF 1.10 SFA 270A

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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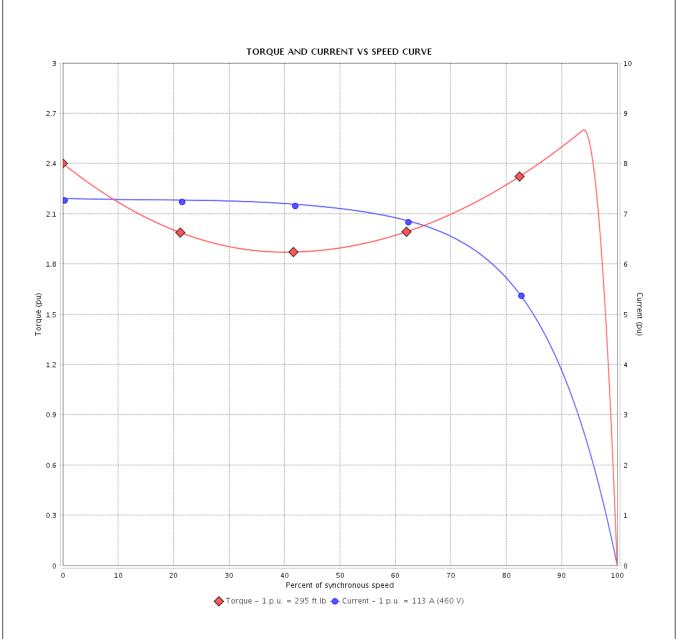
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11904012

Catalog #: 10018ET3E405JP-W22



Performance : 230/460 V 60 Hz 4P Rated current : 226/113 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Locked rotor time

: 23s (cold) 13s (hot)

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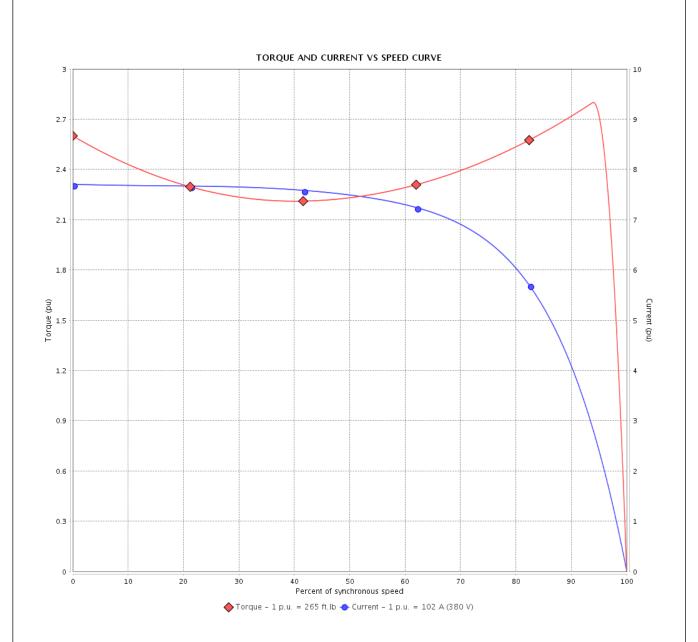
Three Phase Induction Motor - Squirrel Cage



10018ET3E405JP-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 11904012

Catalog #:



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 102 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.7	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			

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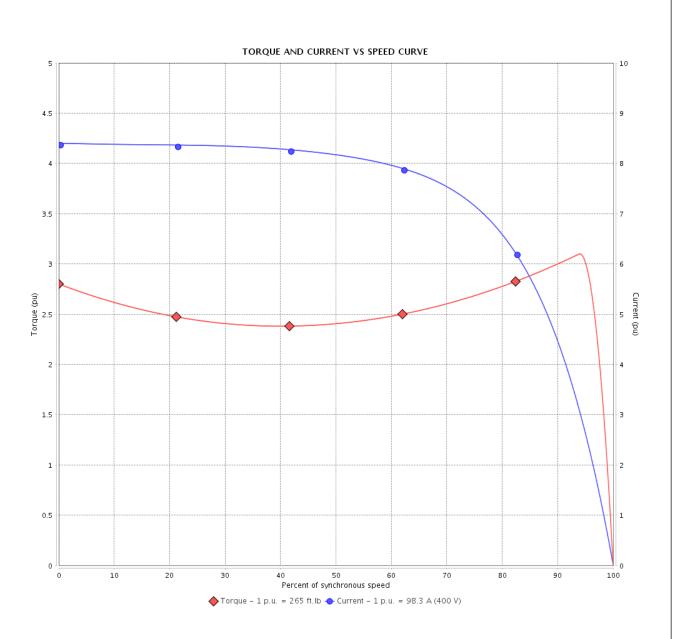


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11904012

Phase

Catalog #: 10018ET3E405JP-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11904012 Catalog #: 10018ET3E405JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 95.9 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 95.9 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Locked rotor torque : 290 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 16s (cold) 9s (hot) Rev. **Changes Summary** Performed Checked Date

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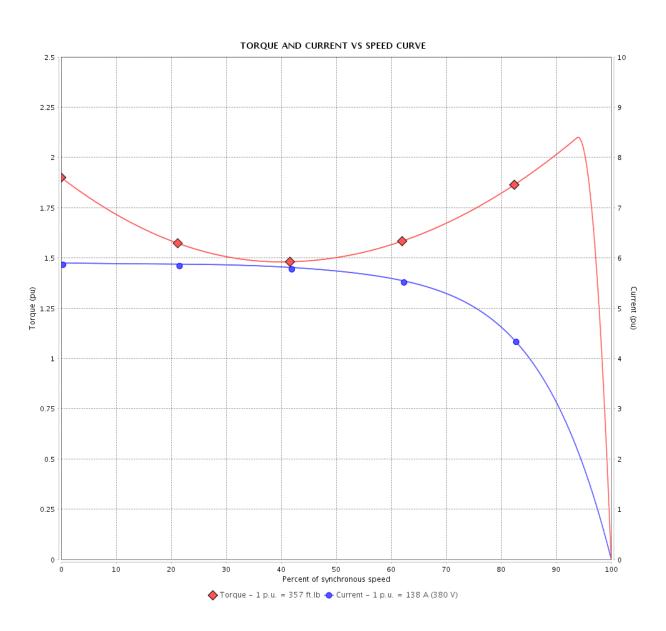
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3E405JP-W22

11904012



Performance : 380 V 50 Hz 4P IE1 Rated current : 138 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 357 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11904012 Catalog #: 10018ET3E405JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 356 ft.lb ◆ Current - 1 p.u. = 131 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 131 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 356 ft.lb Insulation class Rated torque : F : 210 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 229 % Temperature rise Rated speed : 1475 rpm Design : B Locked rotor time : 16s (cold) 9s (hot) Rev. **Changes Summary** Performed Checked Date

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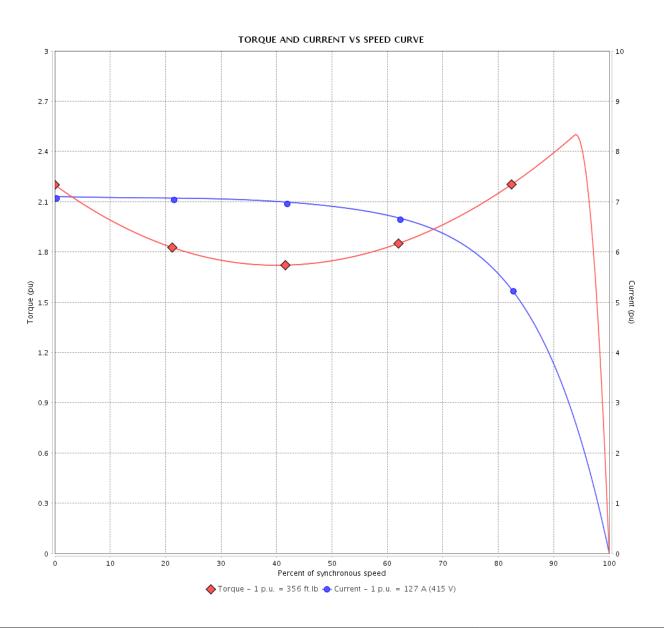
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11904012

Catalog #: 10018ET3E405JP-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 127 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

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

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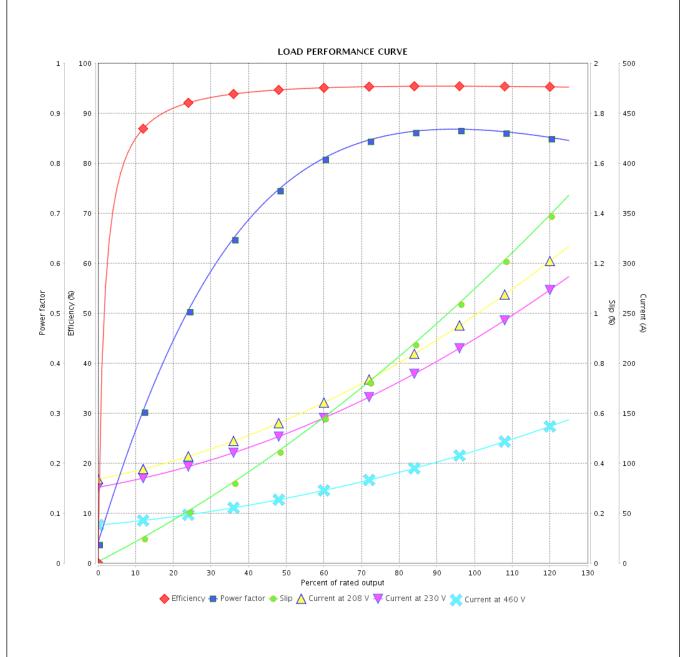


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11904012

Phase

Catalog #: 10018ET3E405JP-W22



Performance		230/460 V 60 Hz 4P				
					00.0 (1.11.	
Rated current	: 2	226/113 A	1	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	:	: Cont.(S1)	
Rated torque	: 2	295 ft.lb	Insulation	class	: F	
Locked rotor torque	e : :	240 %	Service fa	ctor	: 1.25	
Breakdown torque		260 %	Temperature rise		: 80 K	
Rated speed	: '	1780 rpm	Design		: B	
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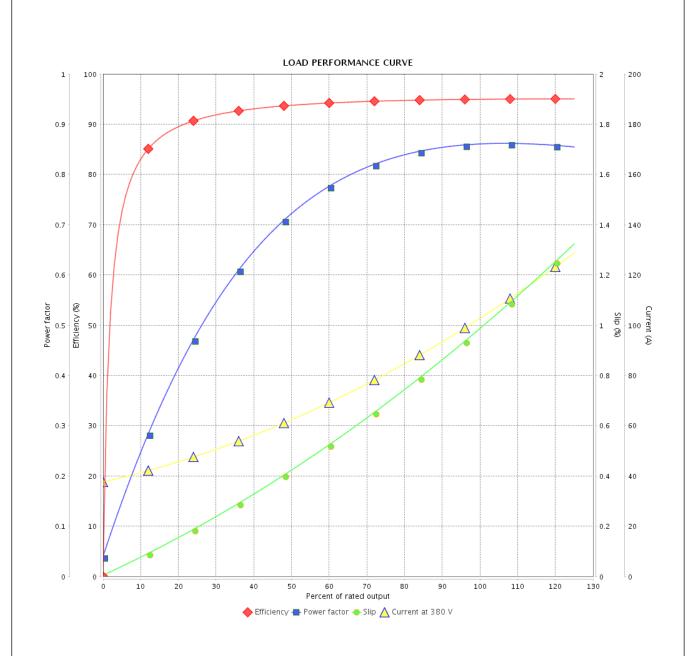
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3E405JP-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.7 : 265 ft.lb : 260 % : 280 % : 1485 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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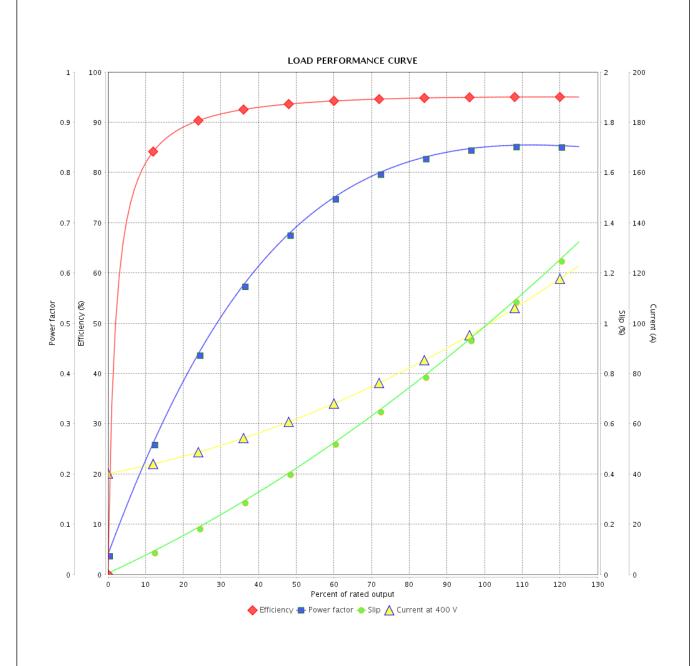


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Product line : NEMA Premium Efficiency Three- Product code : 11904012

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Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	Rated current : 98.3 A		Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	3.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	265 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	280 %	Service fa	ctor	: 1.00	
Breakdown torque		310 %	Temperature rise		: 80 K	
Rated speed	: 1	1485 rpm	Design		: B	
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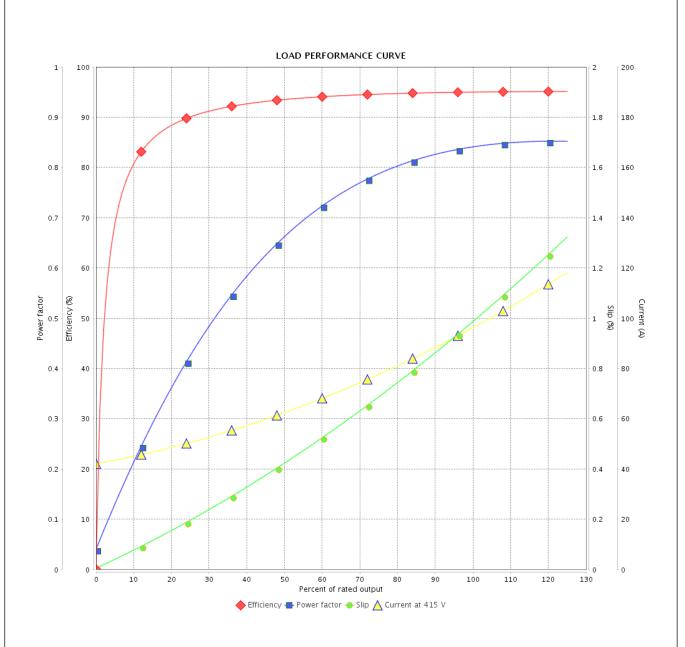
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Product code: 11904012

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Performance	: 415 V 50 Hz 4P IE3	·		1	
renormance	. 413 V 30112 4F 1E3				
Rated current : 95.9 A		Moment of i	nertia (J)	: 29.9 sq.ft.lb	
LRC	: 8.9	Duty cycle		: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation cl	lass	: F	
Locked rotor torque	: 290 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 330 %			: 80 K	
Rated speed	: 1485 rpm	Design		: B	
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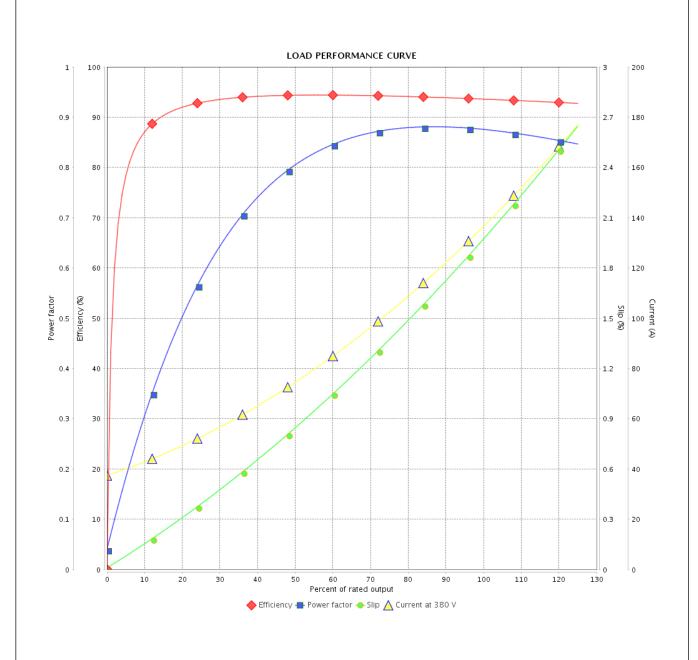
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11904012

Phase

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 5.9 : 357 ft.lb : 190 % : 210 % : 1470 rpm	Moment of iner Duty cycle Insulation class Service factor Temperature ris Design	8	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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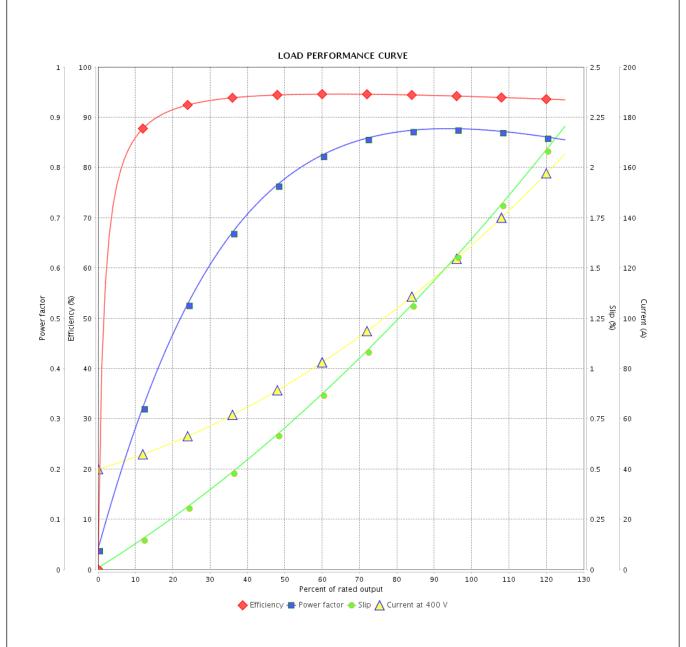
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Performance : 400 V 50 Hz 4P IE2 : 131 A Rated current Moment of inertia (J) : 29.9 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

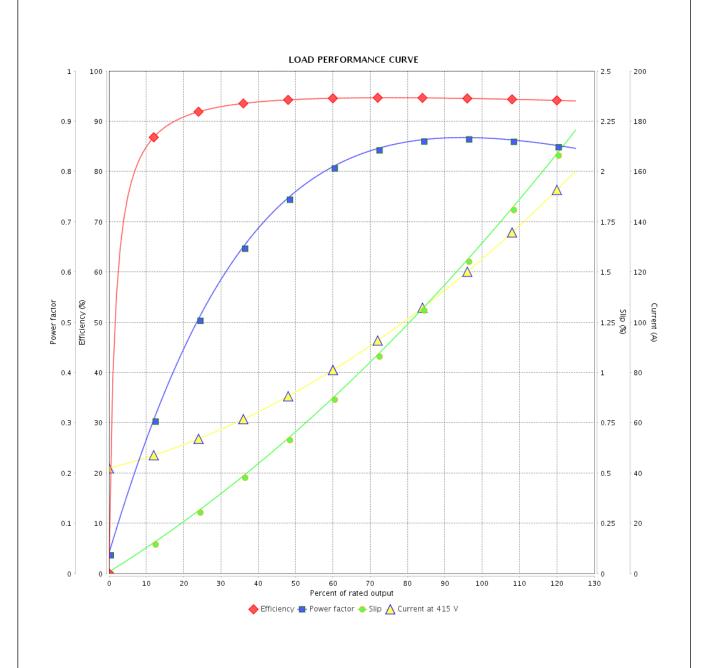
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11904012

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Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 12	27 A	Moment of	of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.	1	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 3	56 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 22	20 %	6 Service factor		: 1.00	
Breakdown torqu	ie : 25	50 %	Temperat	ure rise	: 105 K	
Rated speed	: 14	475 rpm	Design		: B	
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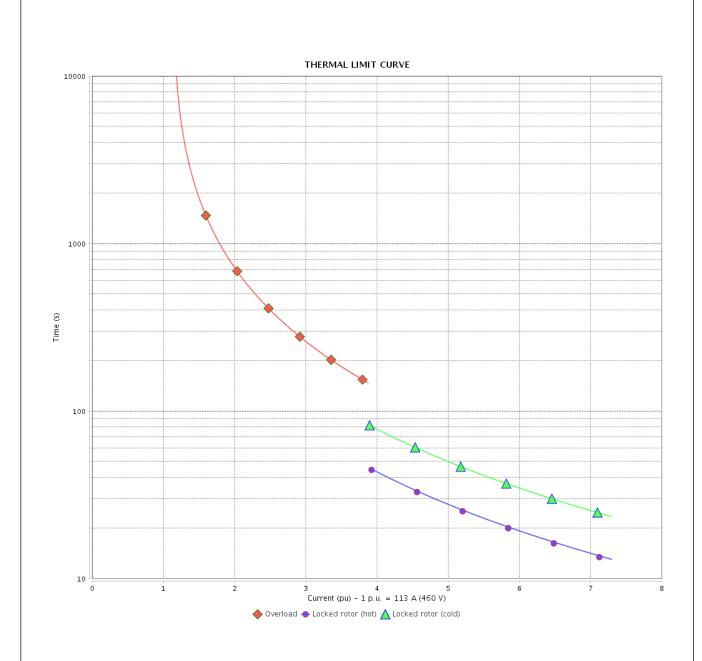


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11904012 10018ET3E40	05JP-W22
Performance		30/460 V 60 Hz 4P	T			
Rated current LRC	: 7.		Duty cycle	f inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		95 ft.lb 40 %	Insulation		: F : 1.25	
Locked rotor torq Breakdown torqu		40 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant Cooling constant						
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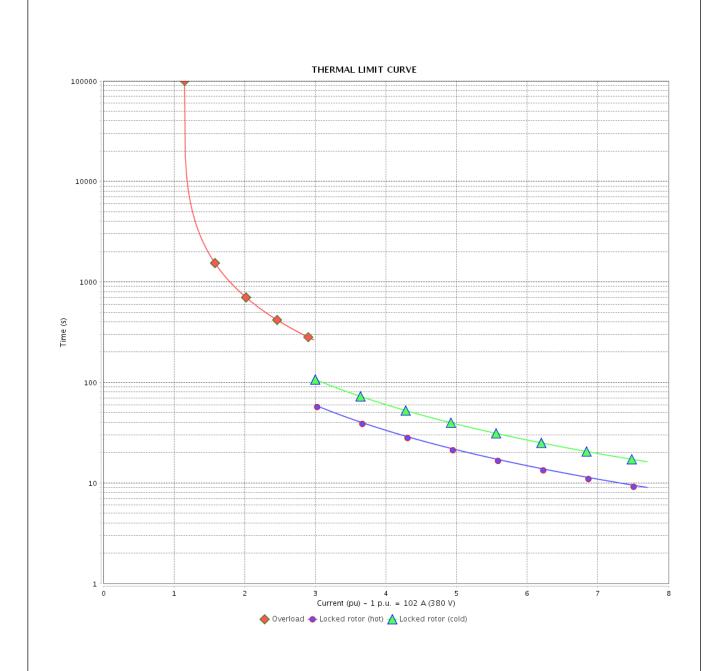


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11904012 10018ET3E40)5 IP-W/22
					10010110140	
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 102 A : 7.7	Moment of Duty cycle	of inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 265 ft.lb	Insulation	class	: F	
Locked rotor tord		: 260 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 280 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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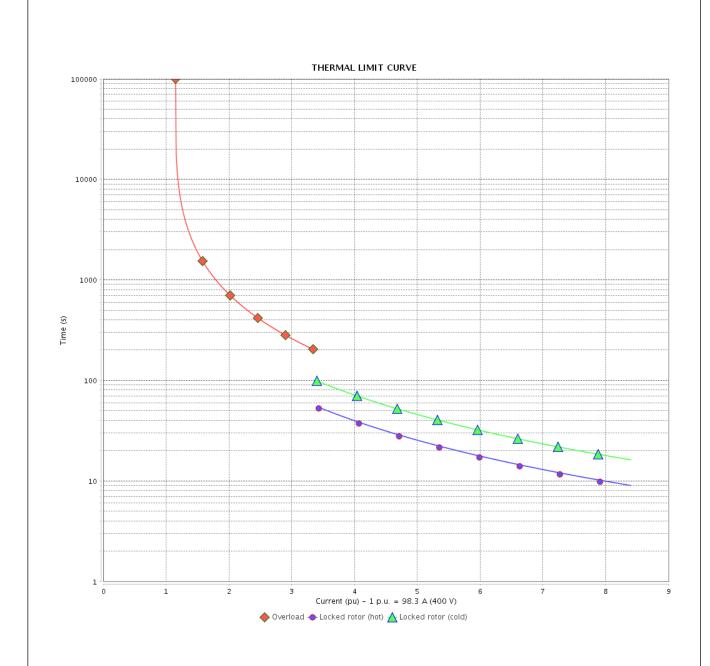


Customer	:				
Product line	: NEMA Pre Phase	mium Efficiency Three-	Product code : Catalog # :	11904012 10018ET3E4	05JP-W22
Performance	: 400 V 50 Hz	z 4P IE3			
Rated current LRC	: 98.3 A : 8.4	Momen Duty cy	t of inertia (J) cle	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation	on class	: F	
Locked rotor torque Breakdown torque	: 280 % : 310 %	Service Temper	tactor ature rise	: 1.00 : 80 K	
Rated speed	: 1485 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes	Summary	Performed	Checked	Date
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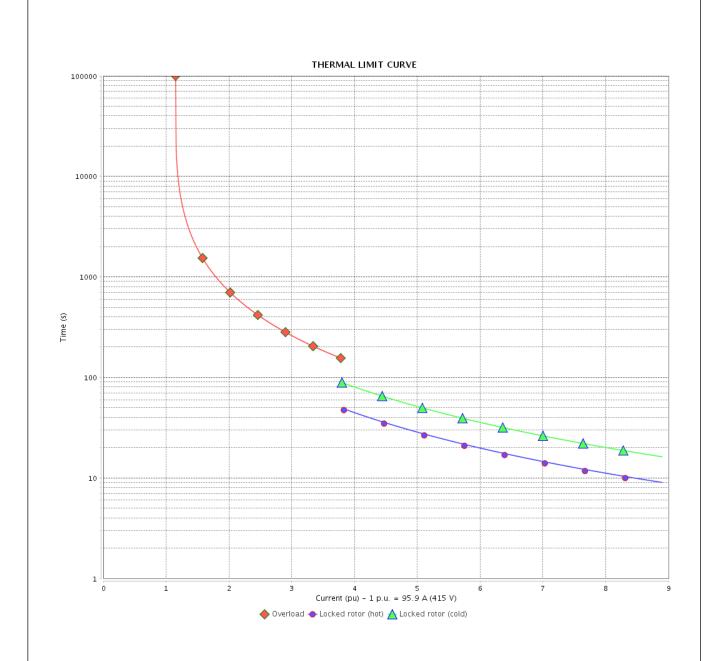


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11904012 10018ET3E40	15 IP-1W22
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Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 95.9 A	Moment o	of inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque		: 8.9 : 265 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 290 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 330 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constan	t					
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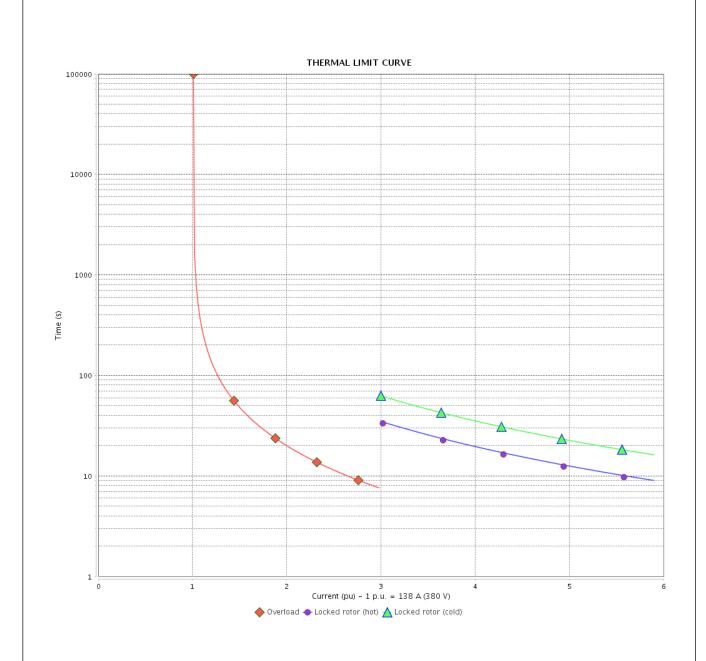


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11904012 10018ET3E40	05JP-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current		: 138 A : 5.9	Moment o	of inertia (J)	: 29.9 sq.ft.lb	
LRC Rated torque		: 357 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 190 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 210 % : 1470 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant	t					
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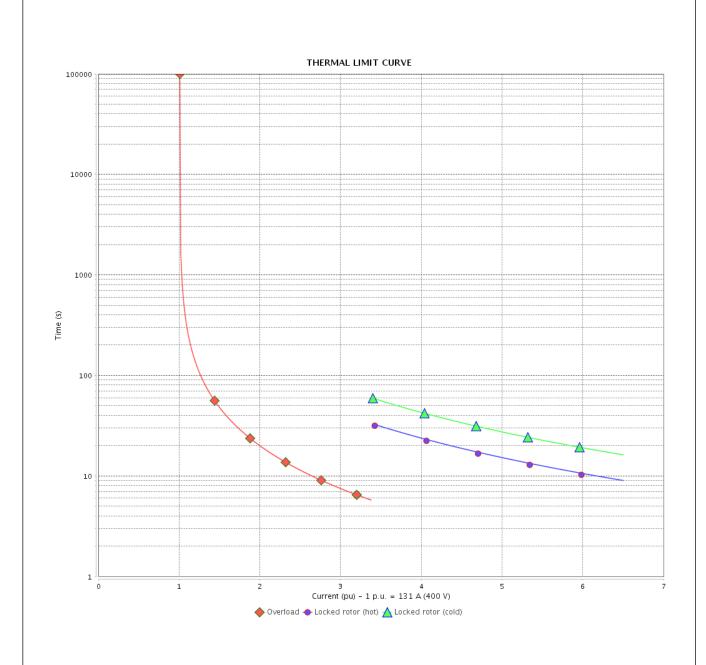


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Product line		NEMA Premium Efficiency hase		Product code :	11904012 10018ET3E40)5JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13 : 6. : 38 : 2' : 22	00 V 50 Hz 4P IE2 31 A 5 66 ft.lb 10 % 29 % 475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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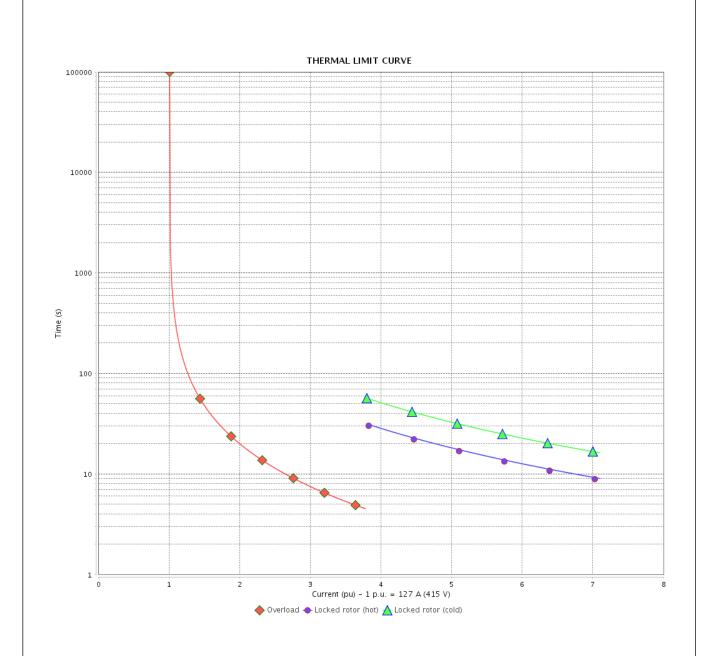


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code :	11904012	
			Catalog # :	10018ET3E4	05JP-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 127 A : 7.1 : 356 ft.lb : 220 % : 250 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Customer :

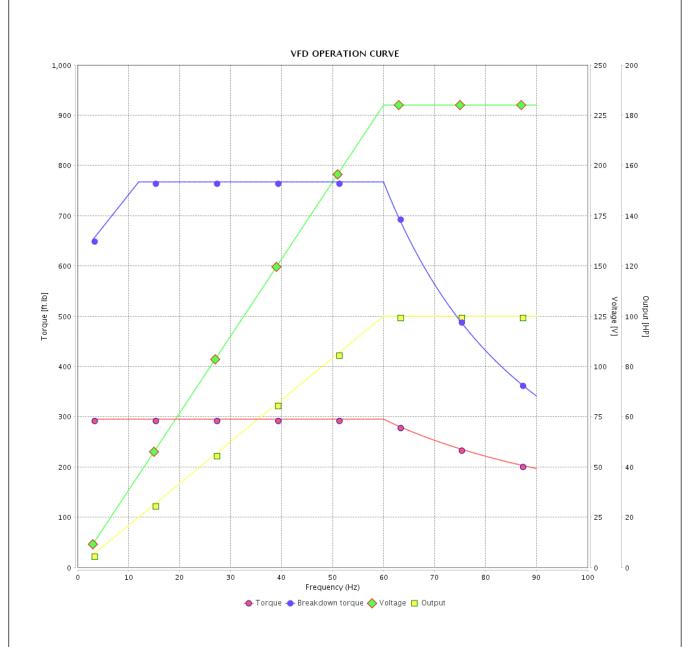
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11904012

Catalog #: 10018ET3E405JP-W22

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 226/113 A : 7.3 : 295 ft.lb : 240 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by				Page	Revision

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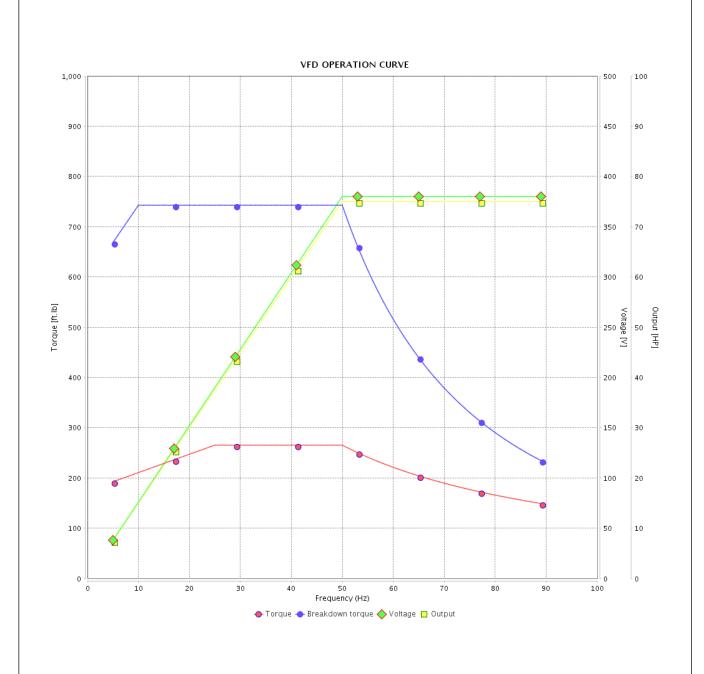
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	ed current : 102 A		Moment o	Moment of inertia (J)		
LRC	: 7	' .7	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	265 ft.lb	Insulation	class	: F	
Locked rotor torque	rotor torque : 260 % Service factor		ctor	: 1.00		
Breakdown torque	: 2	280 %	Temperature rise		: 80 K	
Rated speed	: 1485 rpm		Design	Design		
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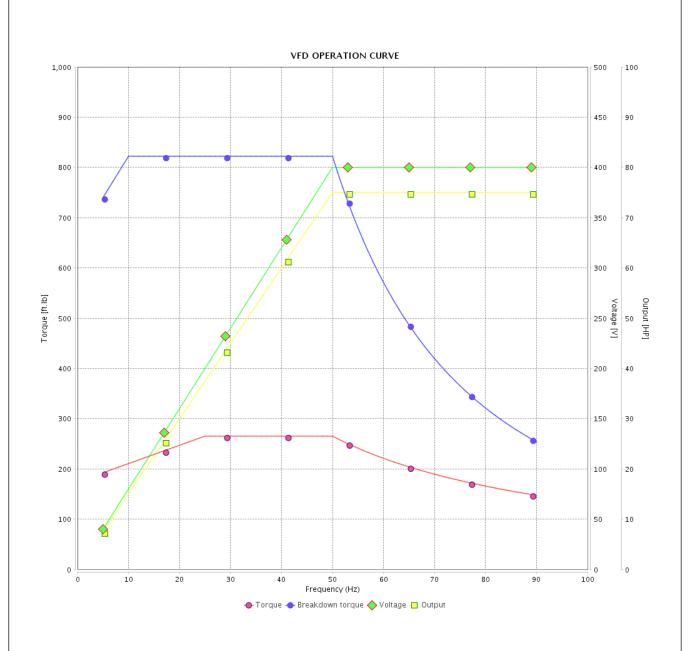
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11904012

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Performance : 400 V 50 Hz 4P IE3 Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



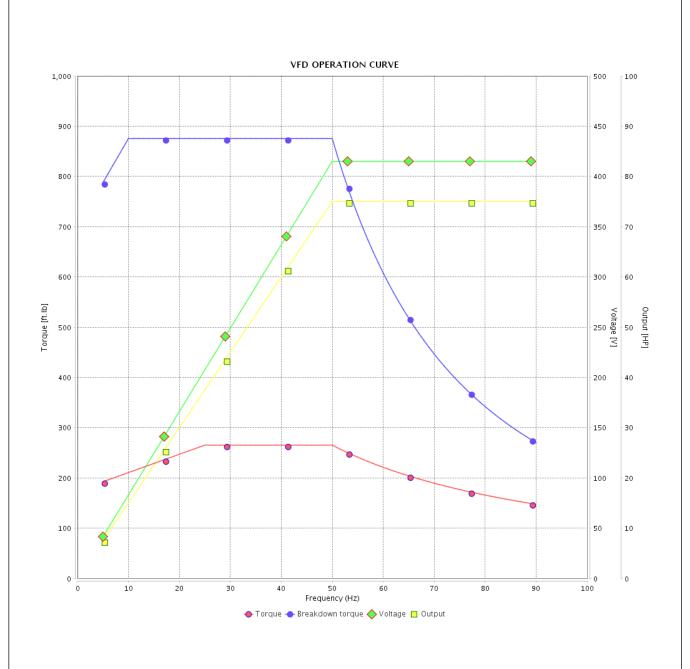
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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11904012



Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	: 9	: 95.9 A Moment of		f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	" "		: F	
Locked rotor torque	e :2	90 %	0 % Service factor		: 1.00	
Breakdown torque	: 3	330 % Temperatur		ıre rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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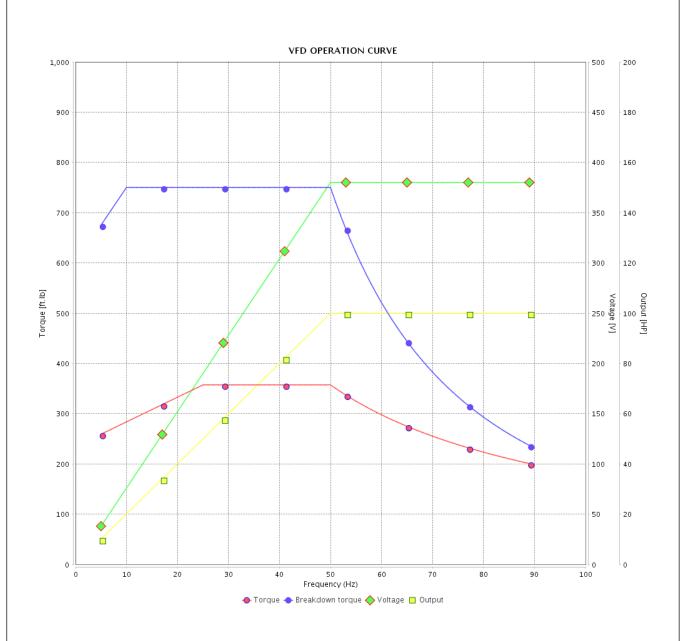
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11904012

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Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 138 A	Moment of inerti	a (J)	: 29.9 sq.ft.lb	
LRC	: 5.9	Duty cycle		: Cont.(S1)	
Rated torque	: 357 ft.lb	Insulation class		: F	
Locked rotor torque	: 190 %	Service factor Temperature rise Design		: 1.00	
Breakdown torque	: 210 %			: 105 K	
Rated speed	: 1470 rpm			: B	
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Three Phase Induction Motor - Squirrel Cage



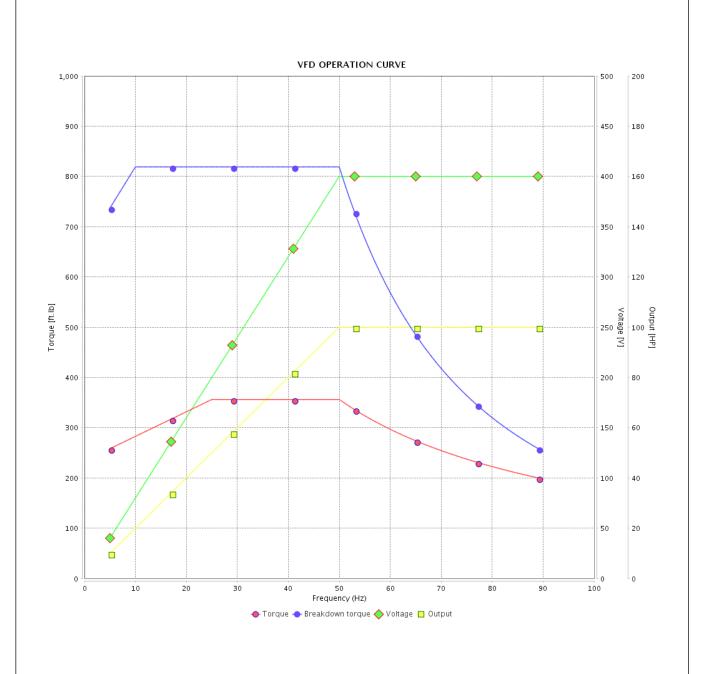
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	:	: 400 V 50 Hz 4P IE2				
Rated current	: 131 A Moment		Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	:	6.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	356 ft.lb	' '		: F	
Locked rotor torque	e :	210 %	210 % Service factor		: 1.00	
Breakdown torque		: 229 % Temperature ri		ure rise : 105 K		
Rated speed	: 1475 rpm		Design	Design		
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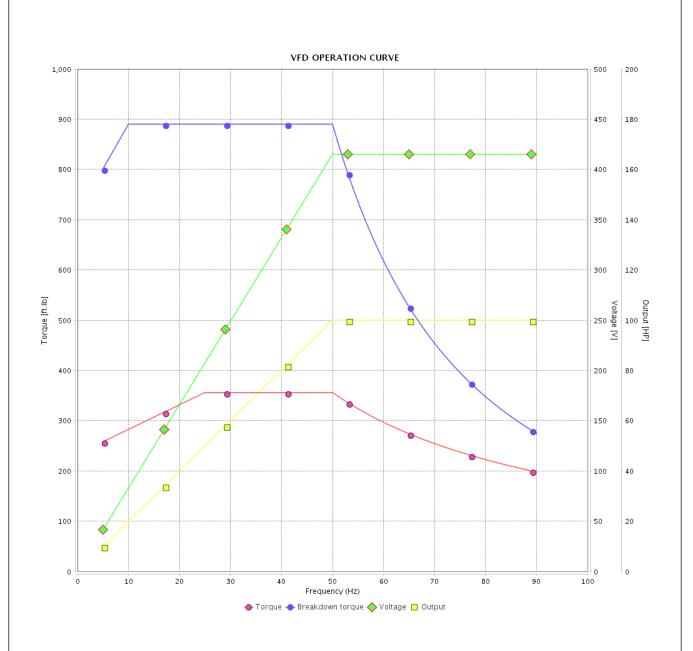
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Performance	: 4′	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		27 A .1 56 ft.lb 20 % 50 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

