DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11758954

Catalog #: 07518ET3E365JP-W22

Frame : 364/5JP Cooling method : IC411 - TEFC

Insulation class 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 : 948 lb

Protection degree	е	: IP55		Momer	nt of inertia (J)	: 2	3.3 sq.ft.lb	
Design		: B						
Output [HP]		75	60	60	60	75	75	75
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]		174/87.2	88.5	84.9	82.7	106	102	98.7
L. R. Amperes [A]		1116/558	620	637	662	541	571	602
LRC [A]		6.4x(Code	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code
		G)						G)
No load current [A]]	66.0/33.0	33.0	35.0	38.0	33.0	35.0	38.0
Rated speed [RPN	1]	1780	1480	1480	1485	1470	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	2.00	1.67	1.33
Rated torque [ft.lb]		221	213	213	212	268	267	266
Locked rotor torqu	e [%]	240	210	240	260	170	200	210
Breakdown torque	[%]	260	250	280	310	200	220	240
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		25s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
		14s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	94.0	93.6	93.3	93.0	94.8	94.7	94.0
Efficiency (%)	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
Linciency (70)	75%	95.0	94.2	94.2	94.2	94.1	94.5	94.5
	100%	95.4	94.2	94.4	94.6	93.6	94.1	94.5
	25%	0.44	0.44	0.40	0.37	0.51	0.46	0.43
Power Factor	50%	0.68	0.68	0.64	0.61	0.75	0.70	0.67
1 OWEL FACIOI	75%	0.78	0.78	0.75	0.73	0.82	0.80	0.78
	100%	0.83	0.82	0.81	0.80	0.84	0.83	0.82

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1712 lb Sealing Lip Seal Lip Seal : 2660 lb Max. compression

12000 h 27 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

12000 h

Notes

Lubrication interval

USABLE @208V 186A SF 1.10 SFA 205A

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



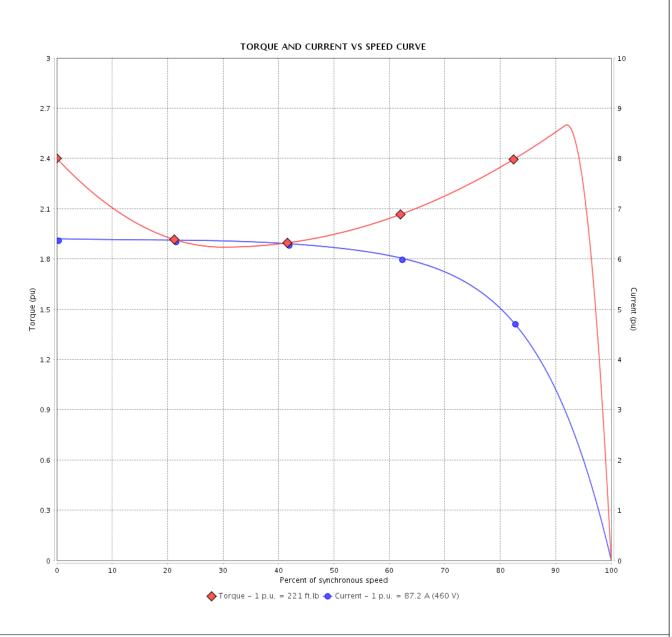
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11758954

Catalog #: 07518ET3E365JP-W22



Performance : 230/460 V 60 Hz 4P Rated current : 174/87.2 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 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 : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11758954 Catalog #: 07518ET3E365JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 213 ft.lb ◆ Current - 1 p.u. = 88.5 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 88.5 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Performed Checked Date Rev. **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



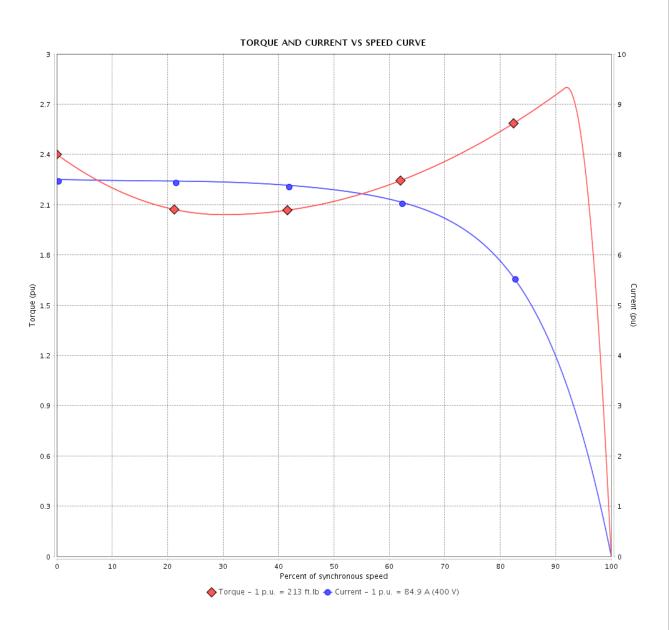
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11758954

Catalog #: 07518ET3E365JP-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 84.9 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11758954 Catalog #: 07518ET3E365JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 212 ft.lb ◆ Current - 1 p.u. = 82.7 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 82.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 212 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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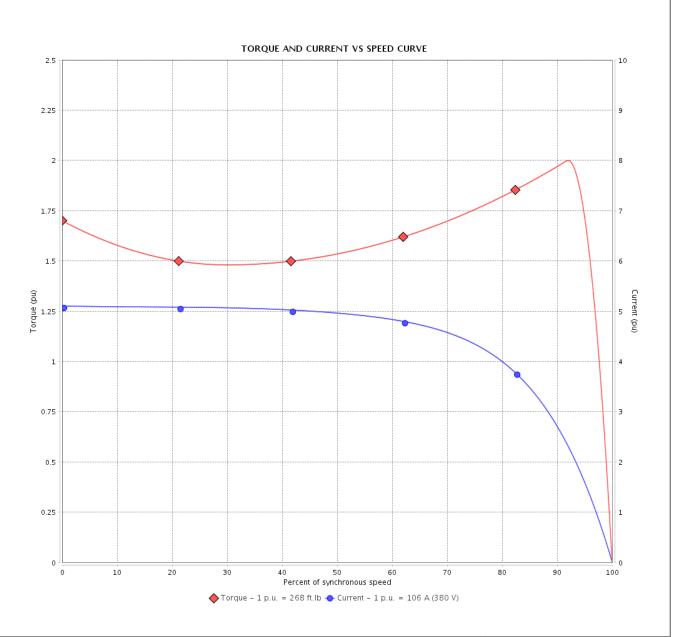


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

Catalog #: 07518ET3E365JP-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 106 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 268 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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

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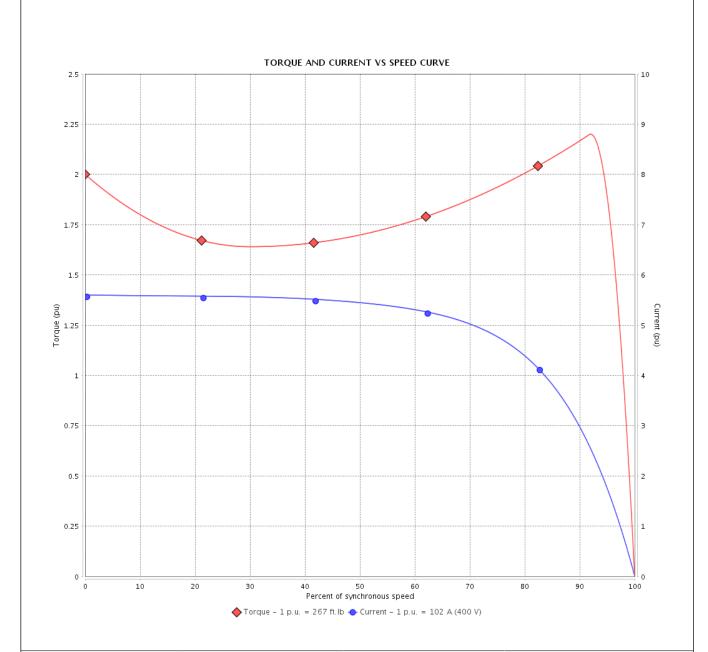


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Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Catalog #:



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 102 A	Moment of inertia (J)	: 23.3 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 267 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B
Locked rotor time	: 18s (cold) 10s (hot)		

Three Phase Induction Motor - Squirrel Cage



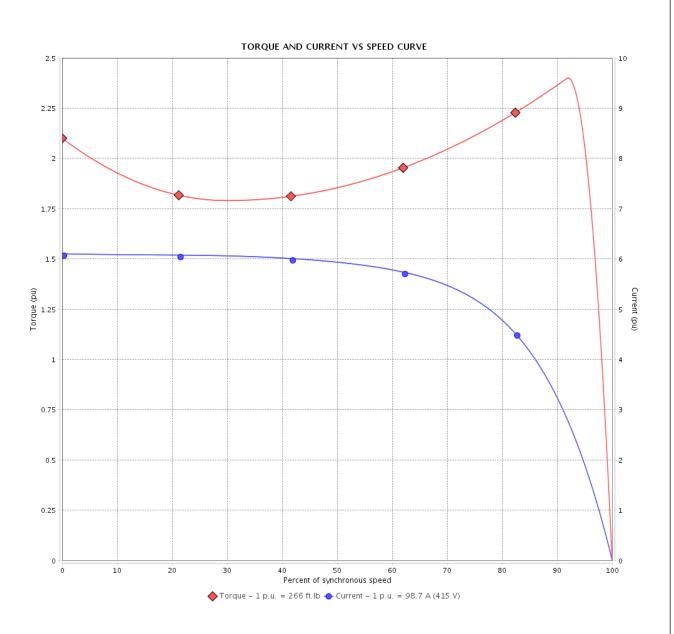
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365JP-W22

11758954



Performance	: 415 V 50 Hz 4P IE2		
Rated current LRC	: 98.7 A : 6.1	Moment of inertia (J)	: 23.3 sq.ft.lb
Rated torque	: 266 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	· 18s (cold) 10s (hot)		

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

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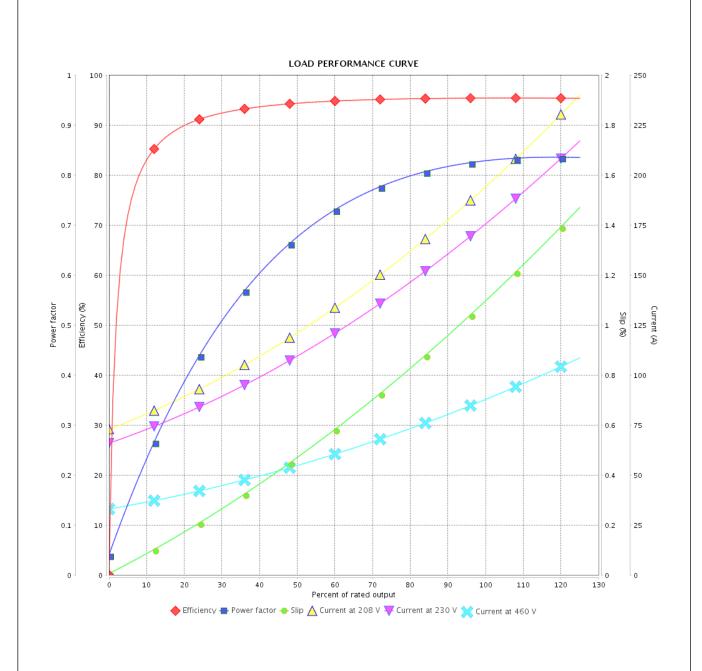


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

Catalog #: 07518ET3E365JP-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 1	74/87.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	221 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K	
Rated speed	: 1	1780 rpm	Design		: B	
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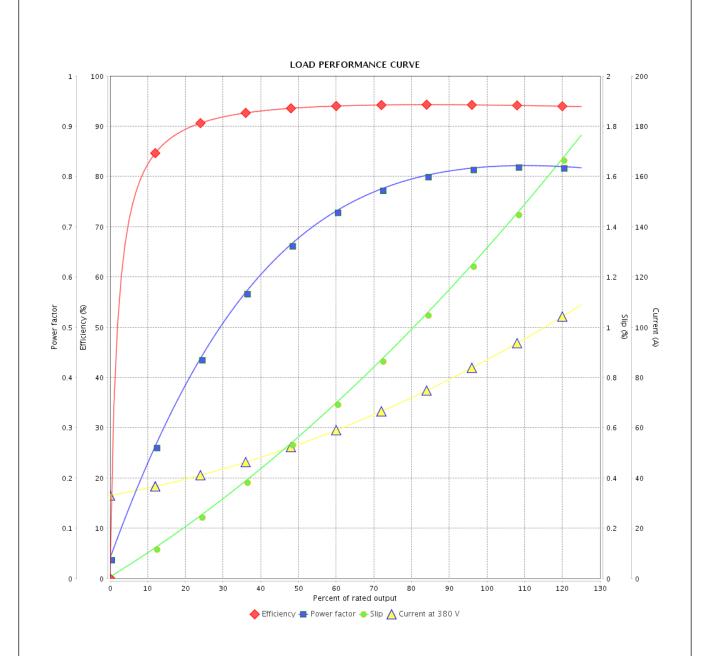


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

Catalog #: 07518ET3E365JP-W22



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 88.5 A : 7.0 : 213 ft.lb : 210 % : 250 % : 1480 rpm	Moment of inertia (Duty cycle Insulation class Service factor Temperature rise Design	J)	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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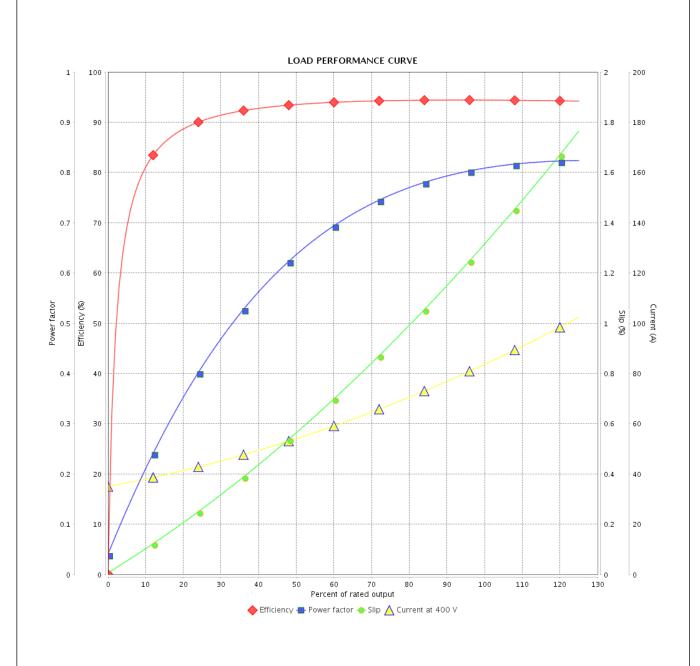


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Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

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Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	: 8	34.9 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	213 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torque		280 %	Temperature rise		: 80 K	
Rated speed	: 1	1480 rpm	Design		: B	
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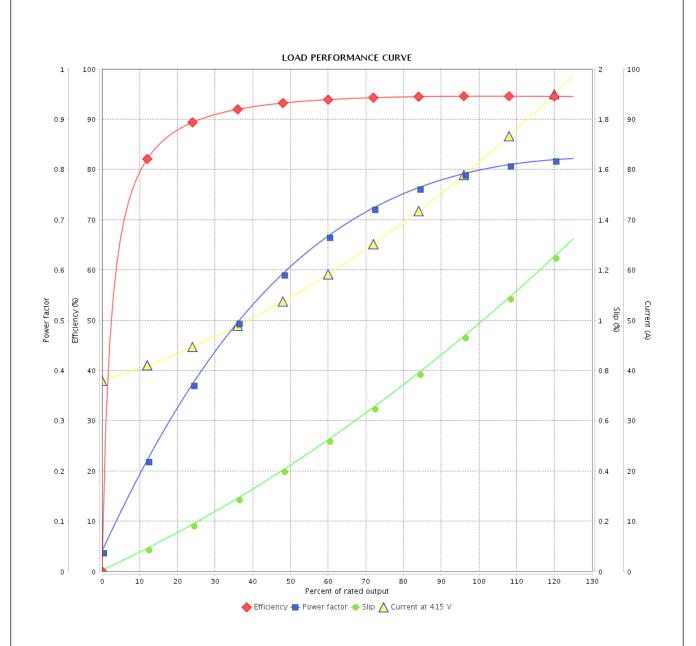


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

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Performance	:	415 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	; que ;	82.7 A 8.0 212 ft.lb 260 % 310 % 1485 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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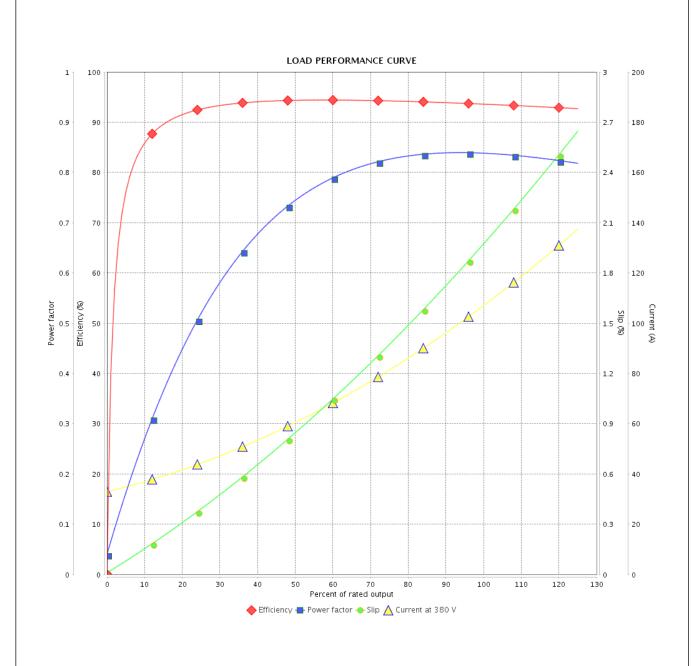
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Phase

Catalog #: 07518ET3E365JP-W22

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Performance	: 3	: 380 V 50 Hz 4P IE2				
Rated current	ed current : 106 A		Moment o	Moment of inertia (J)		
LRC	: 5	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	68 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	70 %	Service factor		: 1.00	
Breakdown torque : 200 %		00 %	Temperati	Temperature rise		
Rated speed	: 1	470 rpm	Design		: B	
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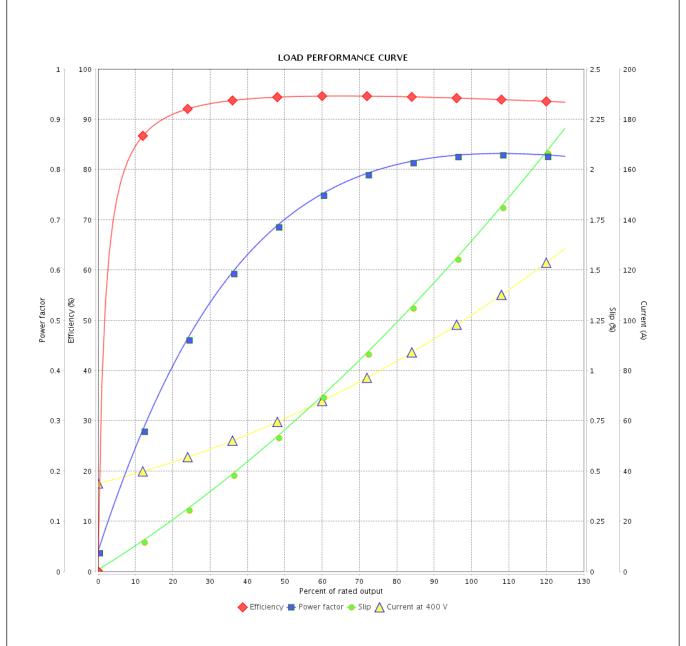
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Performance : 400 V 50 Hz 4P IE2 : 102 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 267 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



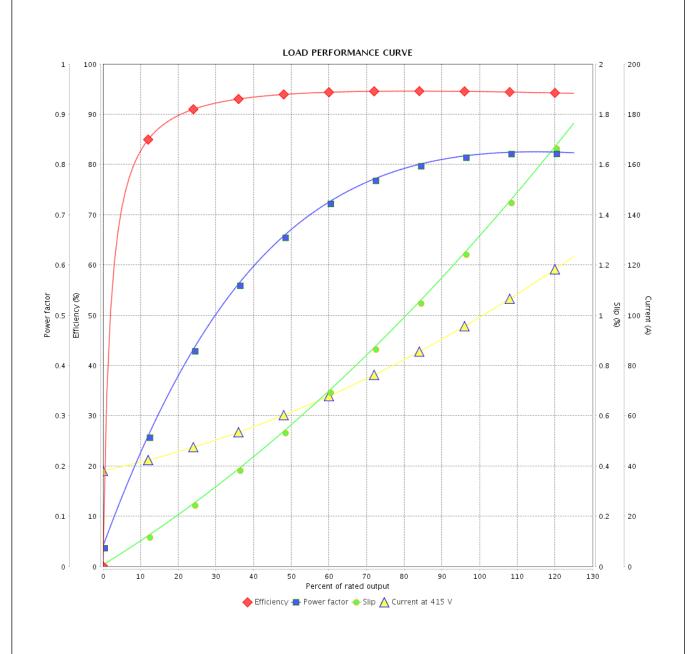
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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.7 A : 6.1 : 266 ft.lb : 210 % : 240 % : 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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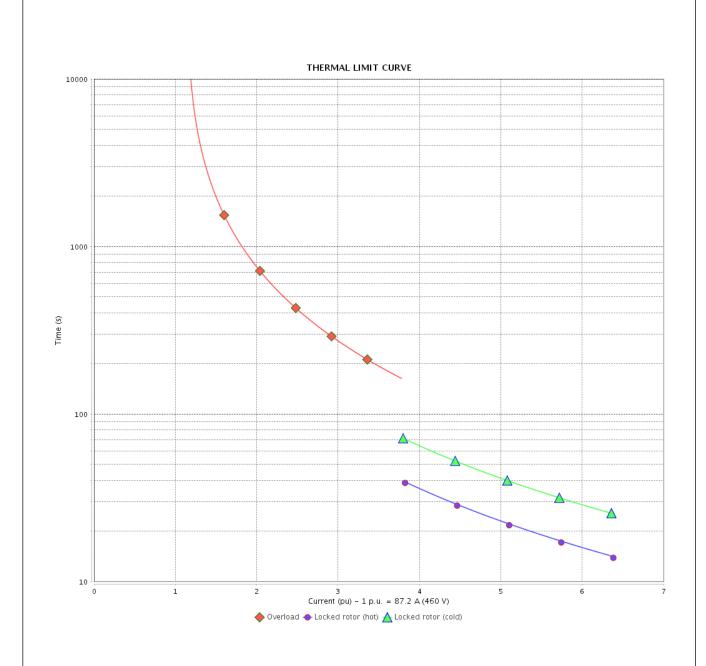


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11758954 07518ET3E3	35.IP-W22
Performance Rated current LRC Rated torque	:	230/460 V 60 Hz 4P 174/87.2 A 6.4 221 ft.lb	Moment of Duty cycle Insulation		: 23.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor toro Breakdown torqu Rated speed	jue : ie :	240 % 260 % 1780 rpm	Service fa Temperati Design	ctor	: 1.25 : 80 K : B	
Heating constant						
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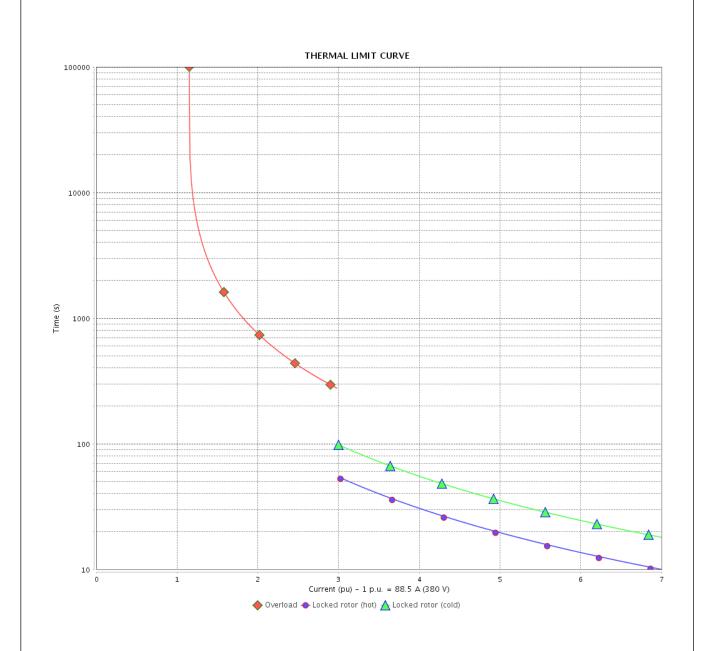


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11758954 07518ET3E36	SE ID W/22
					07010210200	7001 1122
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 88.5 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC		: 7.0	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 213 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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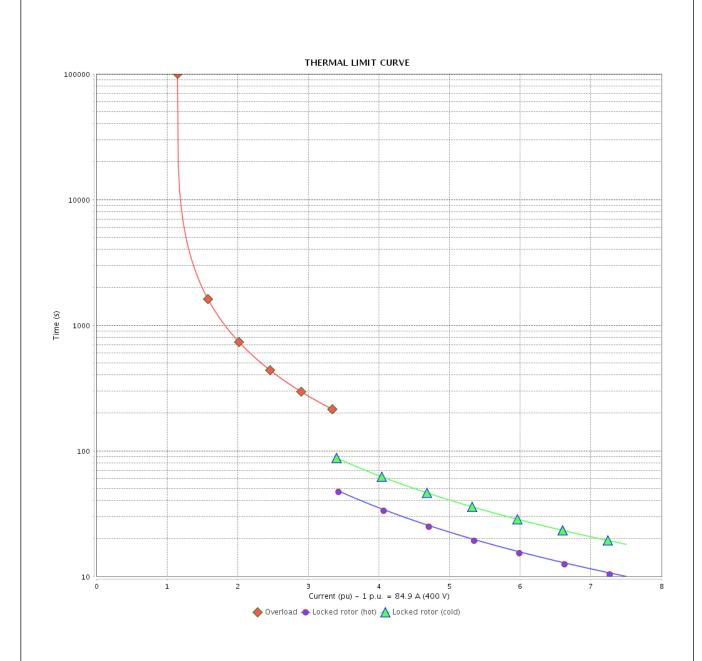


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Product line		NEMA Premium Efficiency hase		Product code :	11758954 07518ET3E36	65JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 84 : 7. : 2 ² : 28	00 V 50 Hz 4P IE3 4.9 A .5 13 ft.lb 40 % 80 % 480 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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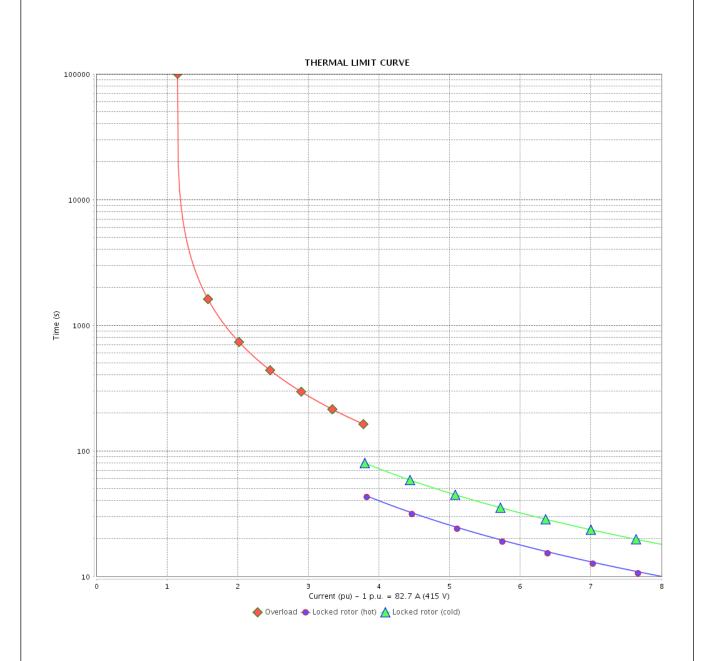


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	11758954	
			(Catalog # :	07518ET3E3	65JP-W22
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 2 ^c : 3	2.7 A 0 12 ft.lb 60 % 10 % 485 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		•				
Heating constant Cooling constant						
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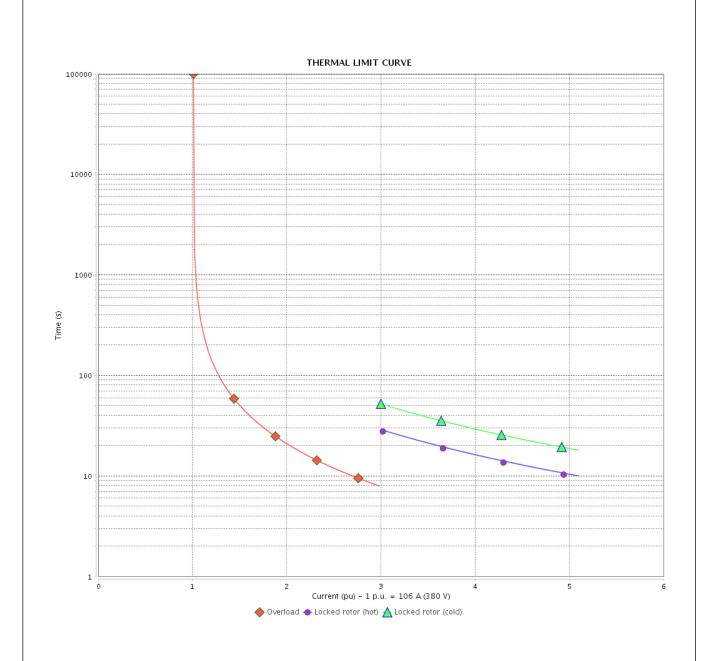


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11758954 07518ET3E36	65JP-W22
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 106 A : 5.1	Moment of Duty cycle	of inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 268 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 200 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1470 rpm	Design	ui C 113C	: B	
Heating constan						
Cooling constant	t	01 0				
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Three Phase Induction Motor - Squirrel Cage

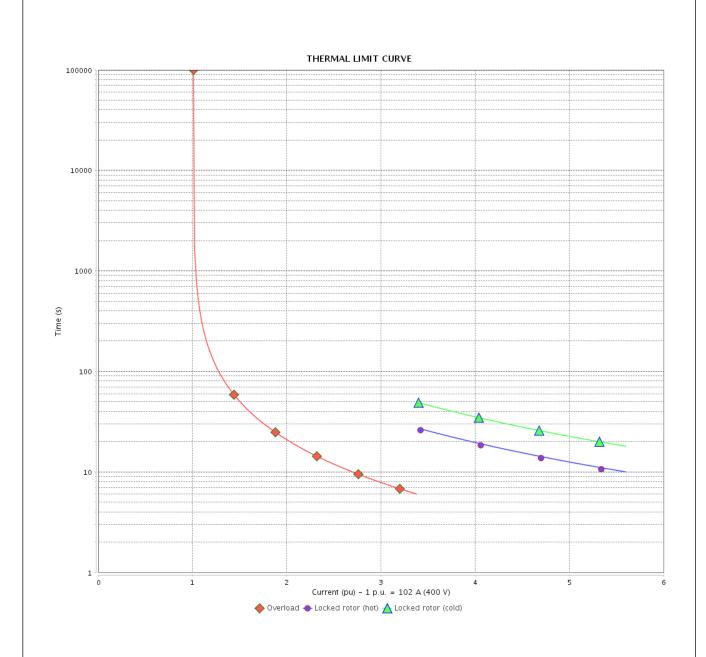


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11758954 07518ET3E36	65.JP-W22
					01010210200	7001 1122
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 102 A : 5.6	Moment of Duty cycle	of inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque		: 267 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 220 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1475 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t					
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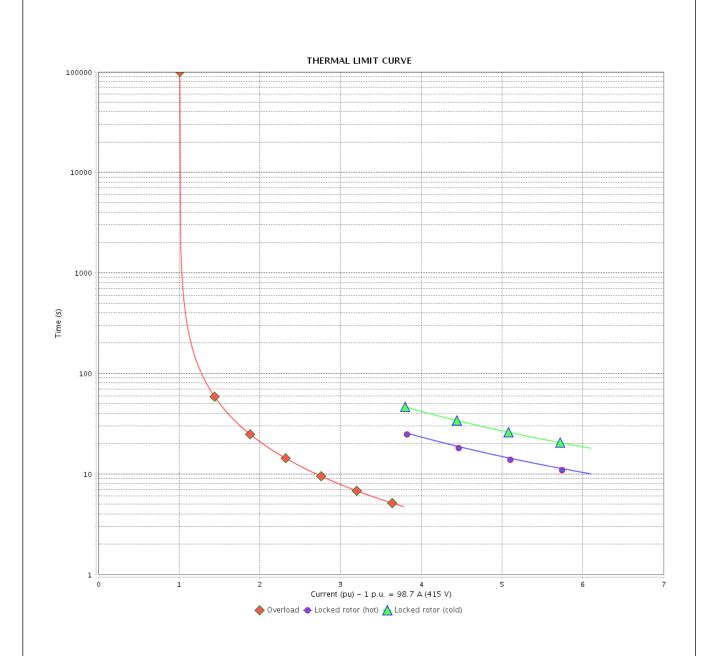


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11758954 07518ET3E3	65JP-W22
	445.445.445.445.450				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 4P IE2 : 98.7 A : 6.1 : 266 ft.lb : 210 % : 240 % : 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 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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Date

13/04/2022

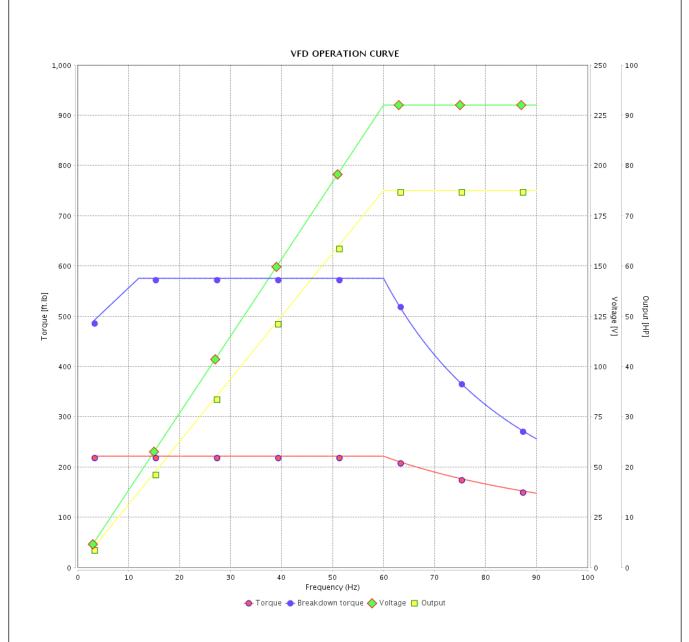
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11758954

Catalog #: 07518ET3E365JP-W22

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Performance : 230/460 V 60 Hz 4P : 174/87.2 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 221 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

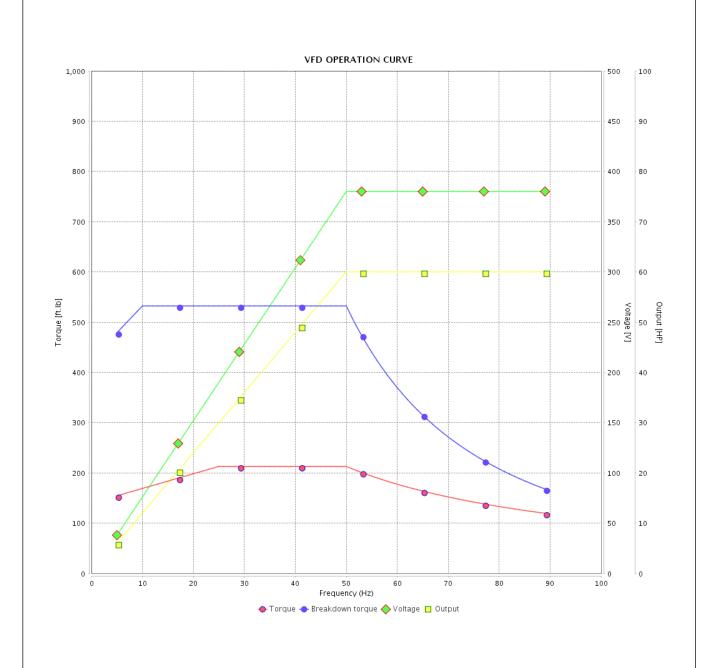
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11758954

Catalog #: 07518ET3E365JP-W22



Performance	: 3	380 V 50 Hz 4P IE3				
Rated current	: 8	: 88.5 A Mome		f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	ıe : 2	50 %	Temperature rise		: 80 K	
Rated speed : 1480		480 rpm	Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Three Phase Induction Motor - Squirrel Cage



Customer :

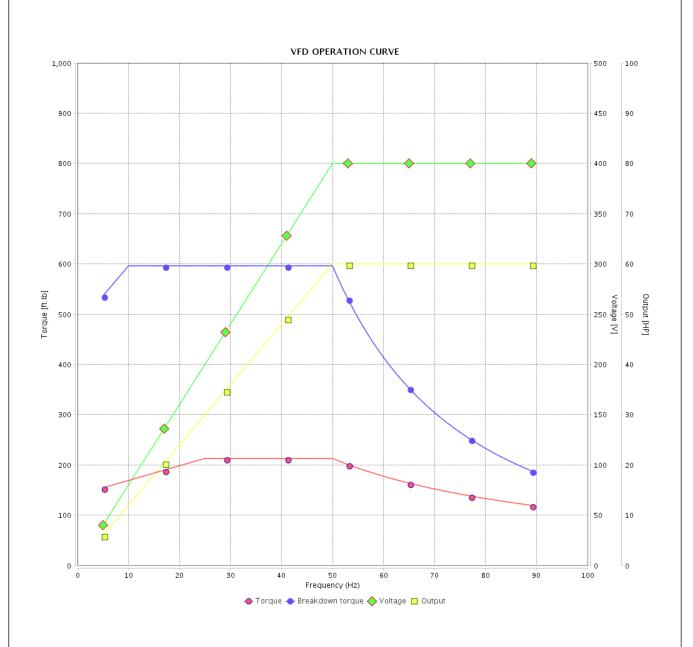
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11758954

Catalog #: 07518ET3E365JP-W22

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Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 84.9 A	Moment of inertia (J)		: 23.3 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation cl	lass	: F	
Locked rotor torque	: 240 %	Service factor		: 1.00	
Breakdown torque	: 280 %	: 280 % Temperature rise		: 80 K	
Rated speed	: 1480 rpm Design			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

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Date

Three Phase Induction Motor - Squirrel Cage

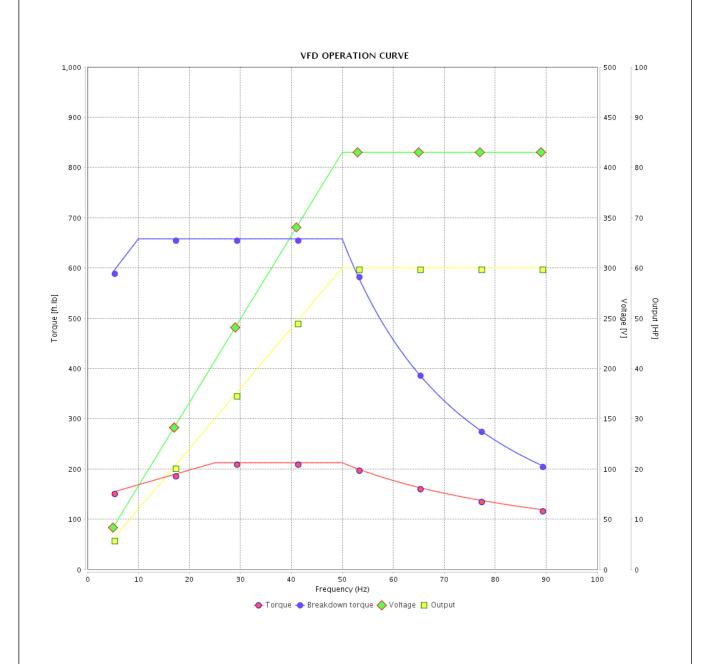


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

Catalog #: 07518ET3E365JP-W22



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 8	: 82.7 A Mo		f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 8	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	212 ft.lb	Insulation	class	:F	
Locked rotor torque	e : 2	260 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	: 310 % Temperature rise		ıre rise	: 80 K	
Rated speed		1485 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

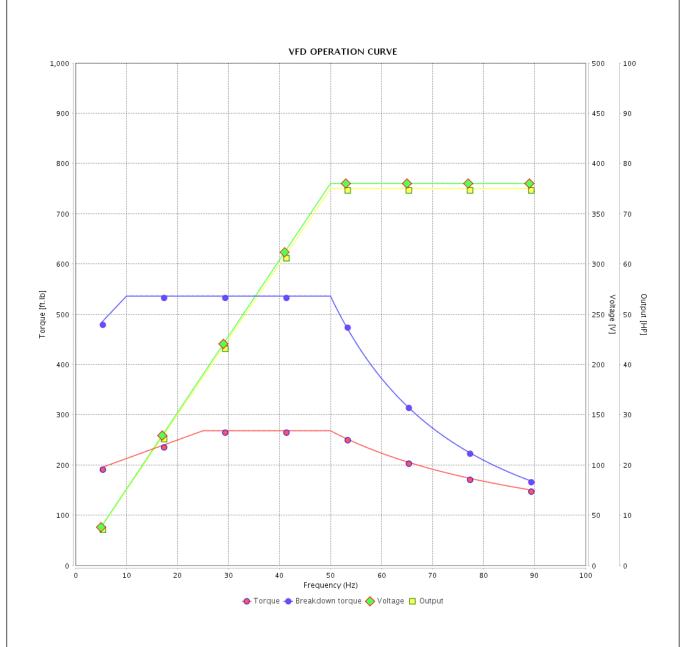
Product code: 11758954

Catalog #: 07518ET3E365JP-W22

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Revision



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 106 A : 5.1 : 268 ft.lb : 170 % : 200 % : 1470 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class actor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	1	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

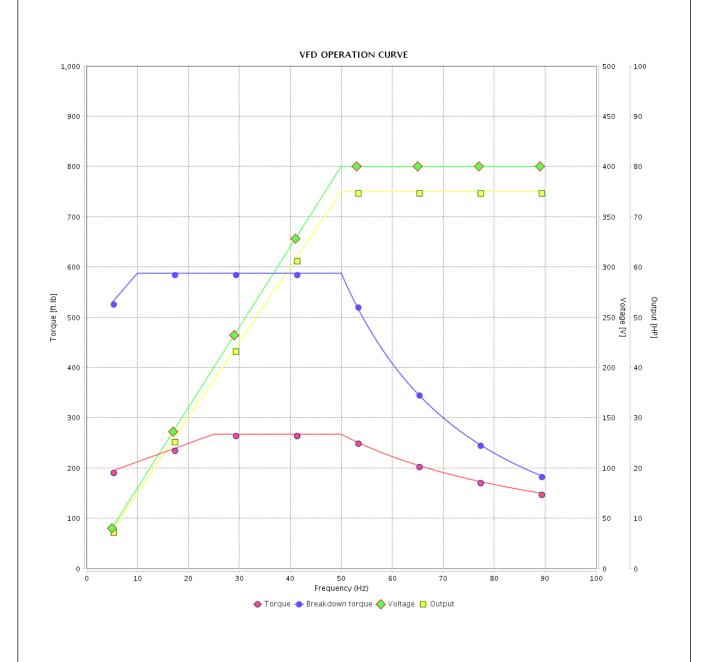


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11758954

Phase

Catalog #: 07518ET3E365JP-W22



Performance	: 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque	: 5. : 20	: 102 A Moment of inertia (J) : 5.6 Duty cycle : 267 ft.lb Insulation class		e class	: 23.3 sq.ft.lb : Cont.(S1) : F	
Breakdown torque Rated speed	•			: 1.00 : 105 K : B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Produ

Phase

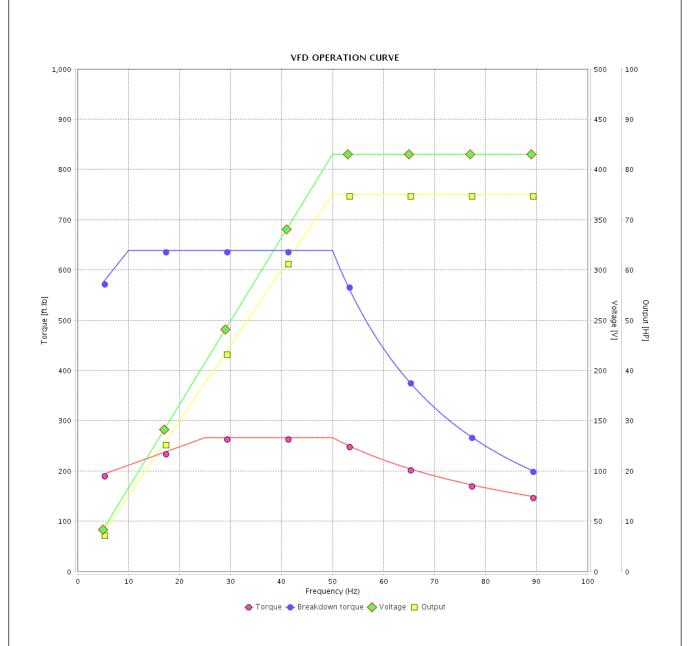
Product code: 11758954

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Revision



Performance : 415 V 50 Hz 4P IE2 Rated current : 98.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

