DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22

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

Insulation class : F Mounting : W-6

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 : 942 lb

Protection degree : IP55 Moment of inertia (J) : 23.3 sq ft lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 2	: 23.3 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 (9/)	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
Efficiency (%)	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
rower ractor	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

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6314 C3 Max. traction : 1715 lb Sealing : WSeal WSeal Max. compression : 2657 lb

6000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

6000 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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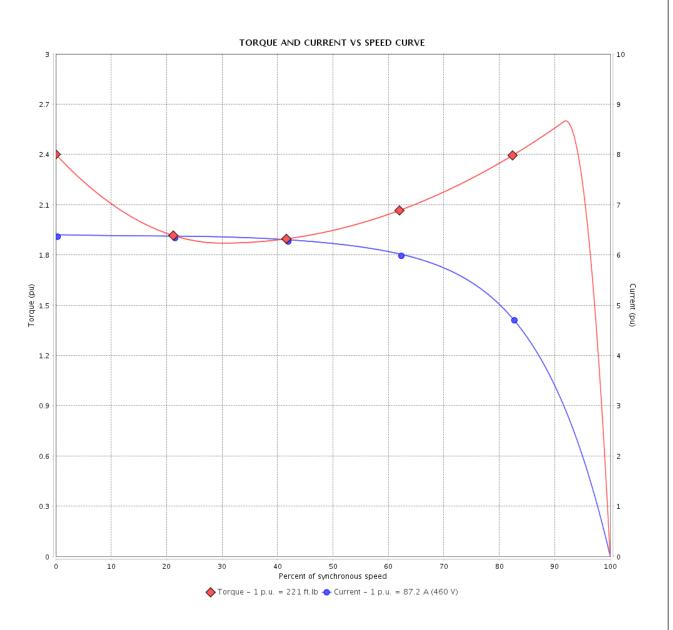
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13472769

Catalog #: 07518ET3ER365TC-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: 13472769 Catalog #: 07518ET3ER365TC-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



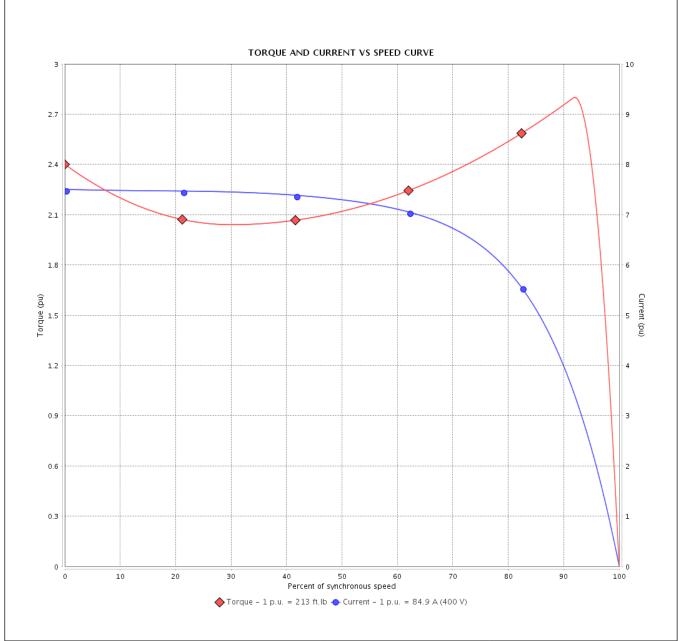
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3ER365TC-W22

13472769



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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13472769 Catalog #: 07518ET3ER365TC-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**

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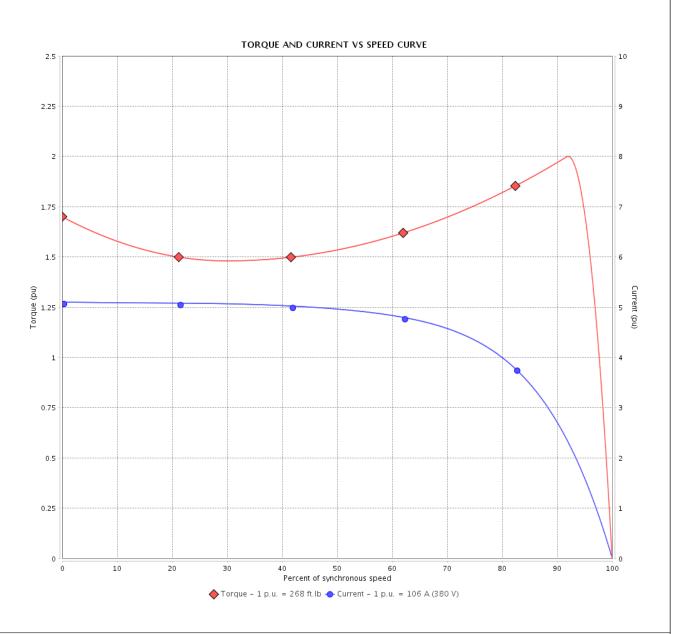


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-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 Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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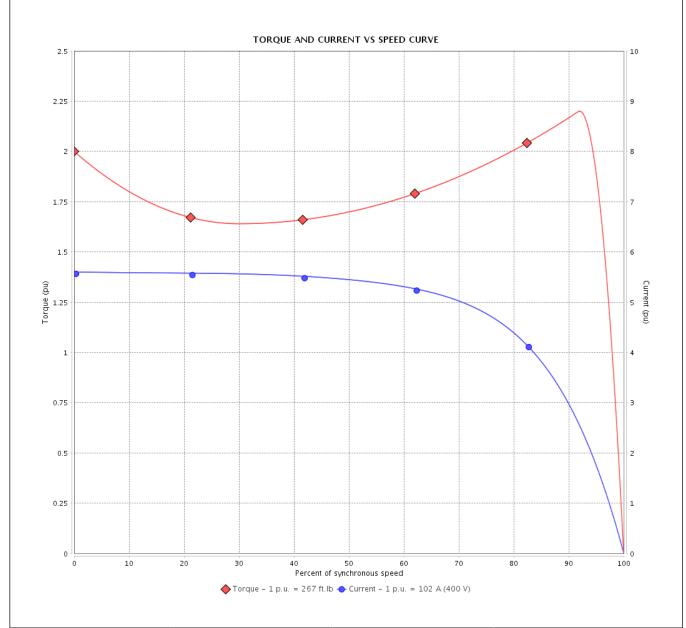
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13472769

Catalog #: 07518ET3ER365TC-W22



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	

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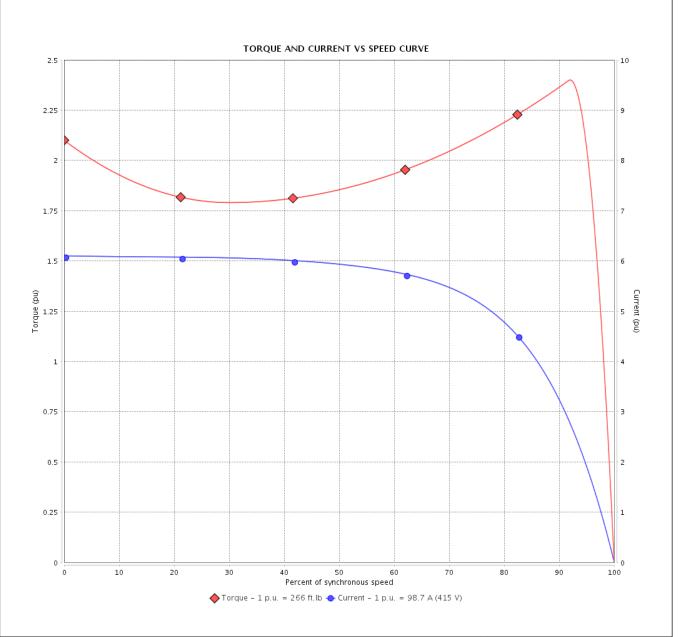


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22



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 of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Locked reter time	: 18s (sold) 10s (hot)		

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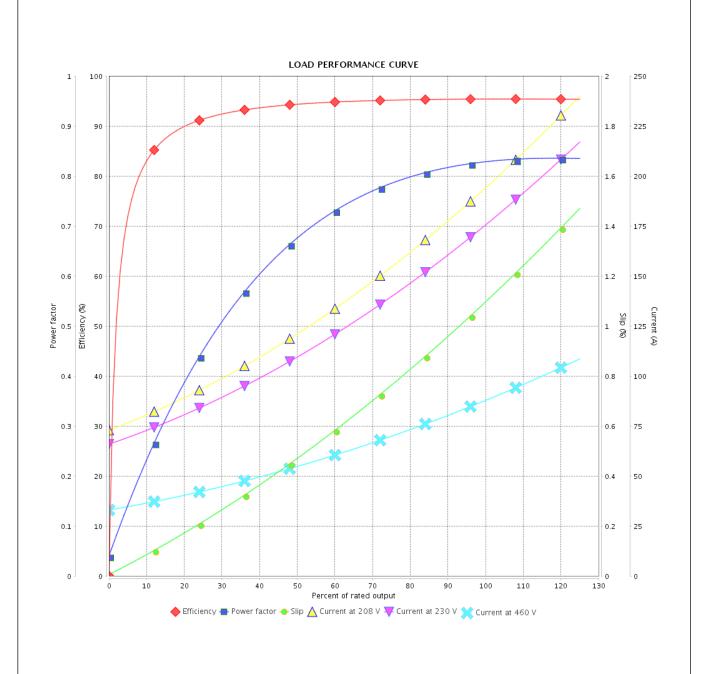


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	: 174/87.2 A M		f inertia (J)	: 23.3 sq.ft.lb	
LRC	:	6.4	Duty cycle)	: Cont.(S1)	
Rated torque	:	221 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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Phase

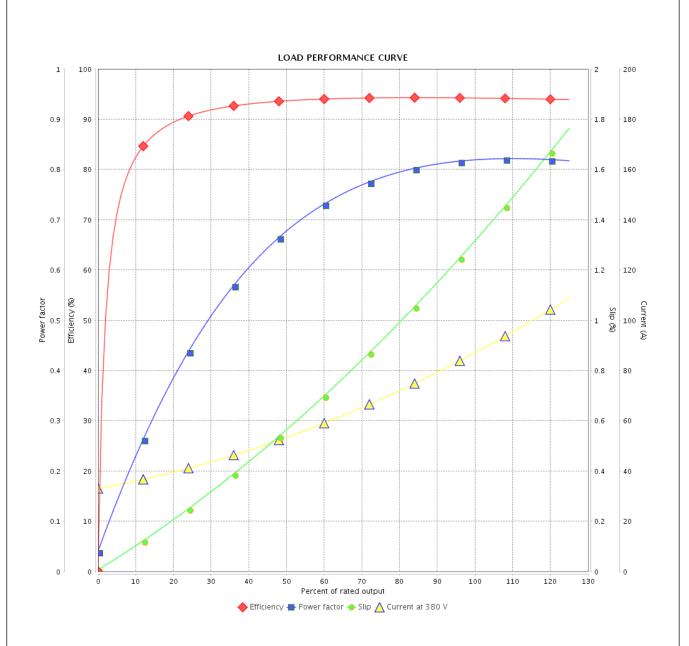
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Performance :		: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 2 que : 2	88.5 A 7.0 213 ft.lb 210 % 250 % 1480 rpm	Moment of inertia (J) : 23.3 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		: F : 1.00 : 80 K			
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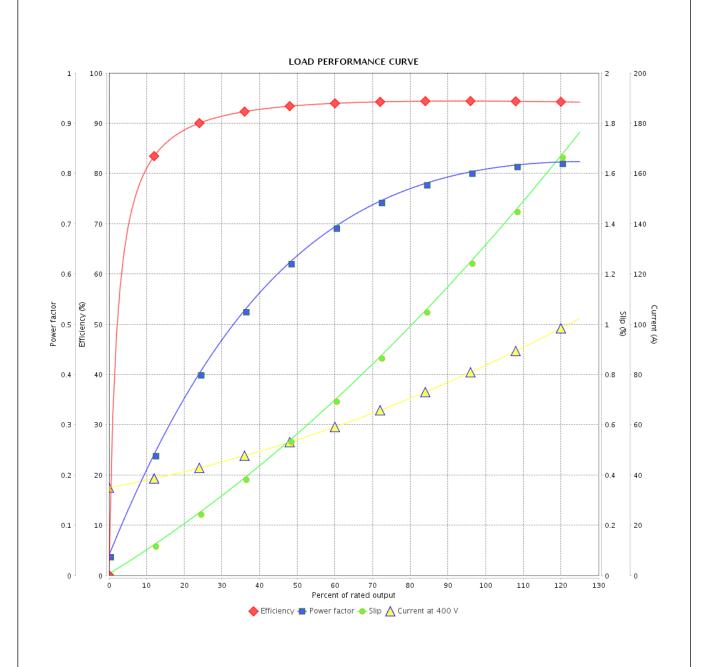


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22



Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current	: 8	: 84.9 A Mor		f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7	⁷ .5	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	% Temperature rise		: 80 K	
Rated speed : 1480 rpm		480 rpm	Design		: B	
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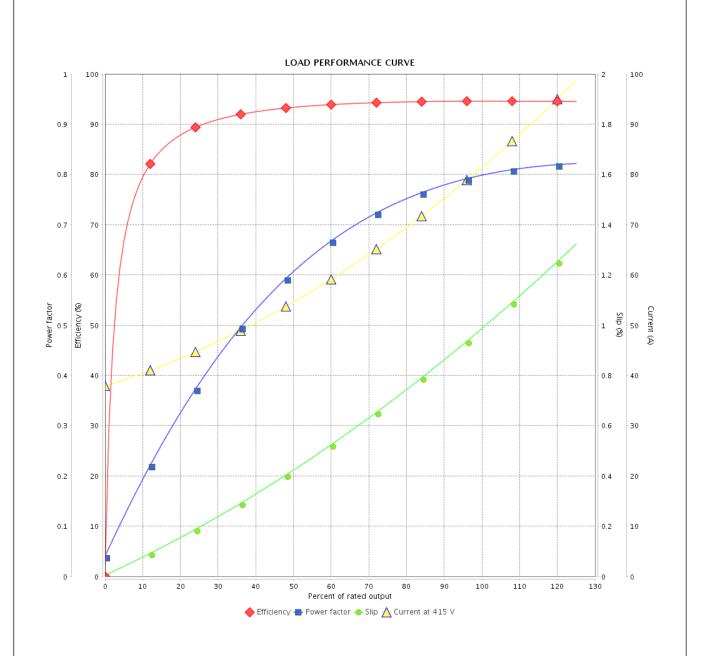
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Product line : NEMA Premium Efficiency Three- Product code : 13472769

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.7 A : 8.0 : 212 ft.lb : 260 % : 310 % : 1485 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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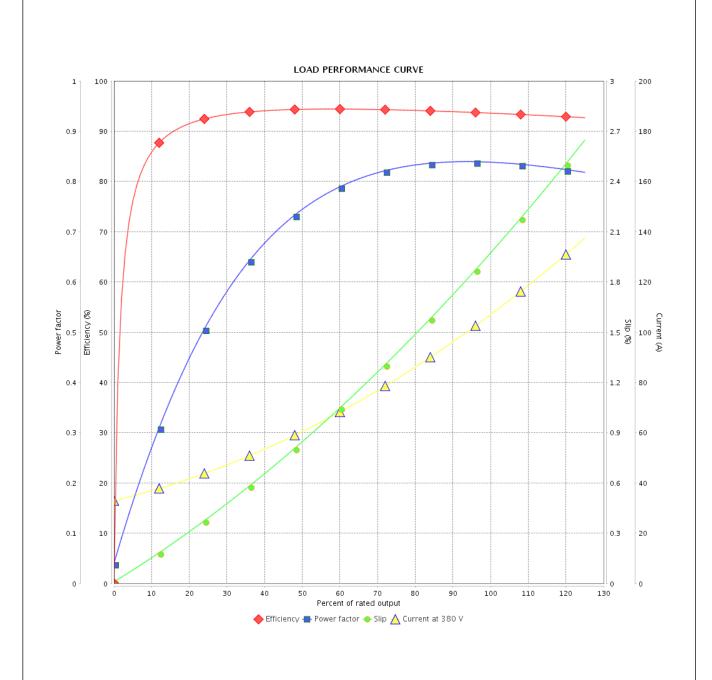


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22



Performance	: 38	: 380 V 50 Hz 4P IE2				
Rated current	ated current : 106 A		Moment of	Moment of inertia (J)		
LRC	: 5	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 20	68 ft.lb	Insulation	class	: F	
Locked rotor torqu	or torque : 170 % Service factor		ctor	: 1.00		
Breakdown torque		00 %	Temperat	Temperature rise		
Rated speed	: 14	470 rpm	Design		: B	
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Phase

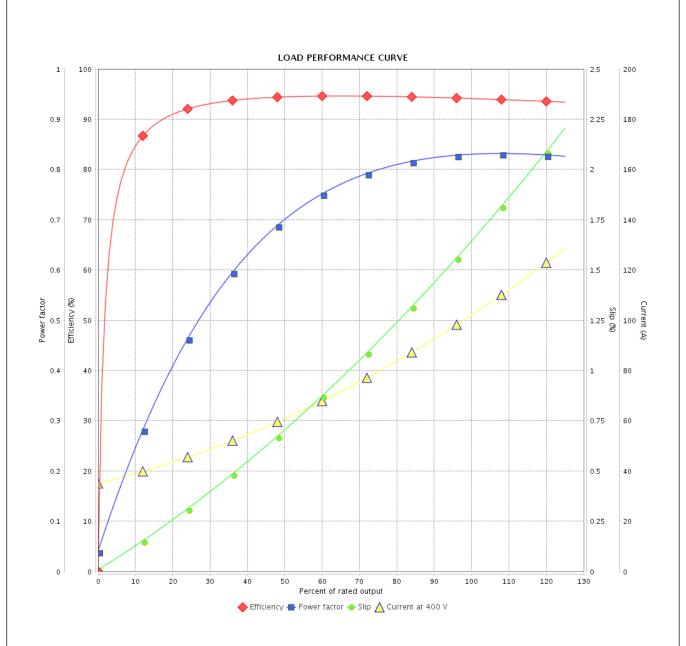
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Performance : 400 V 50 Hz 4P IE2 : 102 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 267 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

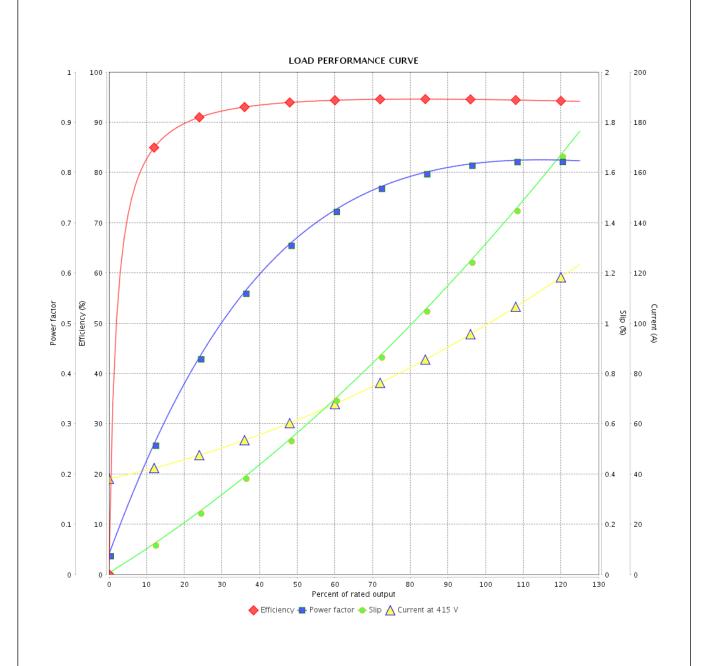


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13472769

Phase

Catalog #: 07518ET3ER365TC-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ated current : 98.7 A		Moment o	Moment of inertia (J)		
LRC	: 6.1 Duty o		Duty cycle)	: Cont.(S1)	
Rated torque	: 2	.66 ft.lb	Insulation	class	: F	
Locked rotor torque : 2		10 %	Service fa	ctor	: 1.00	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 1	480 rpm Design		: B		
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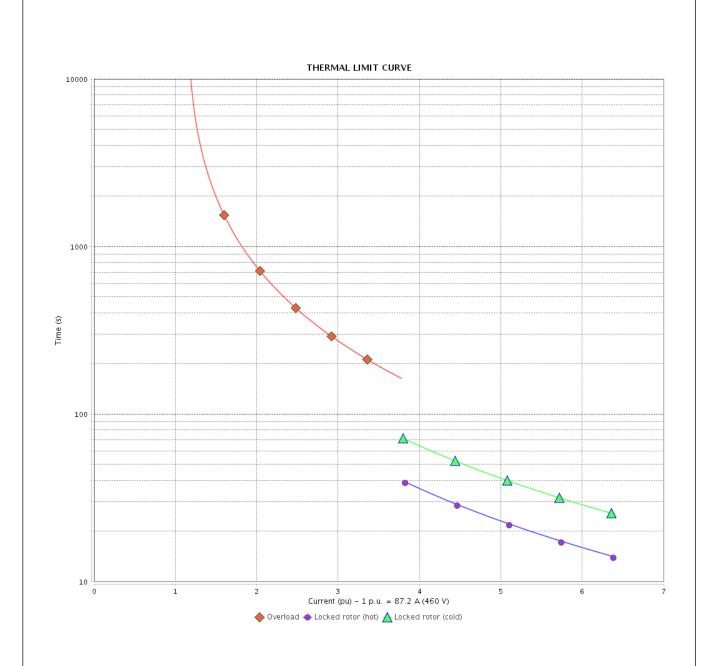


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472769 07518ET3ER	365TC-W22
Performance		: 230/460 V 60 Hz 4P				
Rated current		: 174/87.2 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque		: 6.4 : 221 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 240 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 260 % : 1780 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant						
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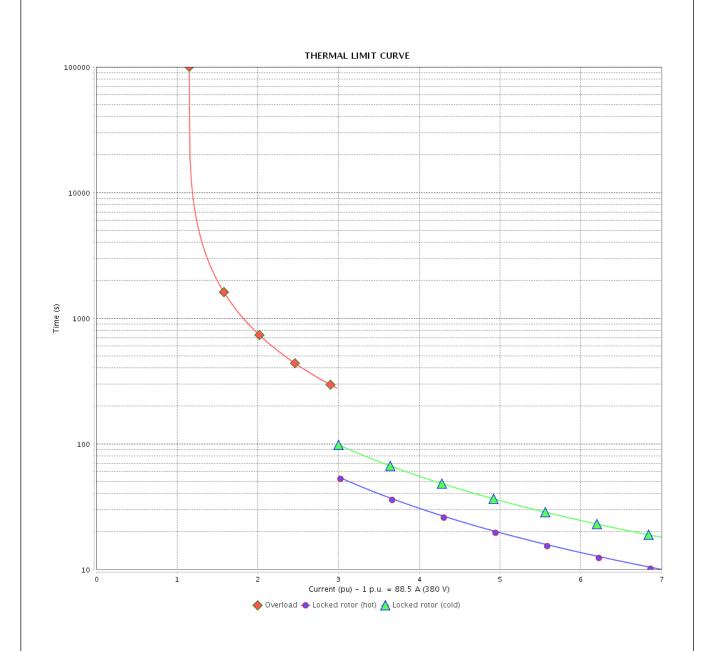


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472769 07518ET3ER	365TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 88.5 A	Moment o	of inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque		: 7.0 : 213 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 210 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 250 % : 1480 rpm	Temperat Design	uic iise	: 80 K : B	
Heating constan						
Cooling constan	t				-	
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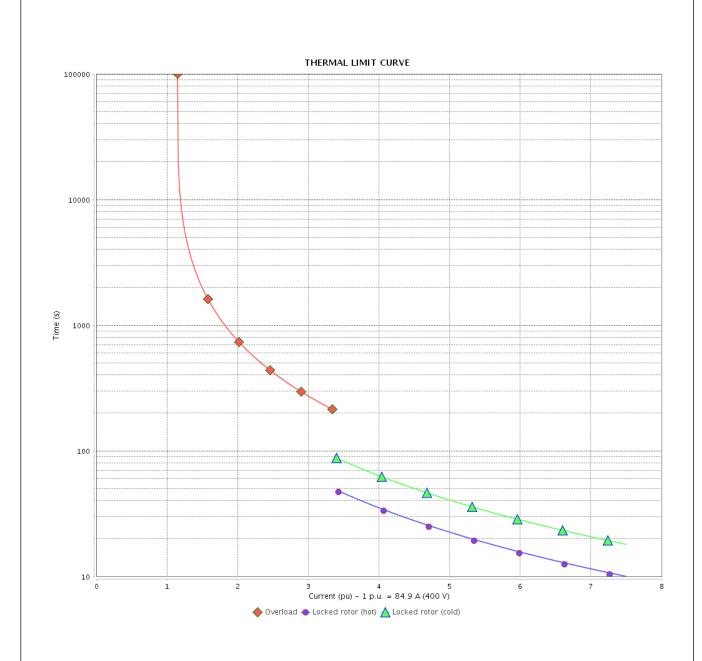


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	13472769 07518ET3ER	365TC-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 84.9 A : 7.5 : 213 ft.lb : 240 % : 280 % : 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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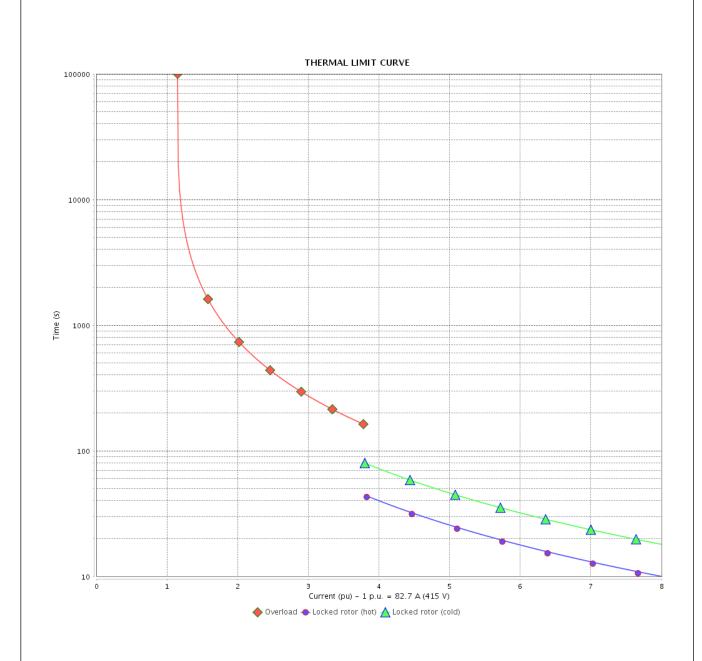


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	13472769	
		- Hadd		Catalog # :	07518ET3ER	365TC-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 82.7 A : 8.0	Moment of Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque		. 6.0 : 212 ft.lb	Insulation		: F	
Locked rotor torq		: 260 %	Service fa		: 1.00	
Breakdown torque Rated speed		: 310 % : 1485 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant		•	<u> </u>			
Cooling constant						
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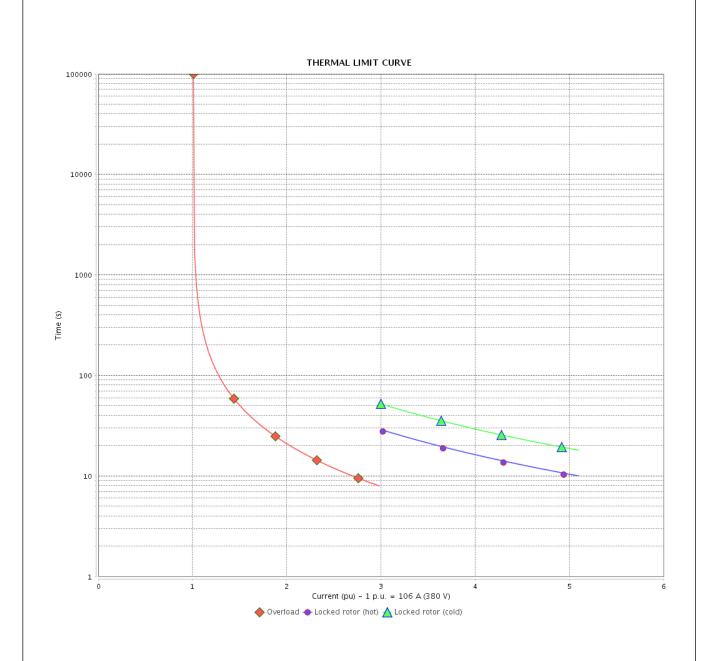


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472769 07518ET3ER3	365TC-W22
Performance		380 V 50 Hz 4P IE2		5.		
Rated current LRC		106 A 5.1	Moment o Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	:	268 ft.lb	Insulation	class	: F	
Locked rotor tord		170 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		200 % 1470 rpm	Temperatu Design	are rise	: 105 K : B	
Heating constant						
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

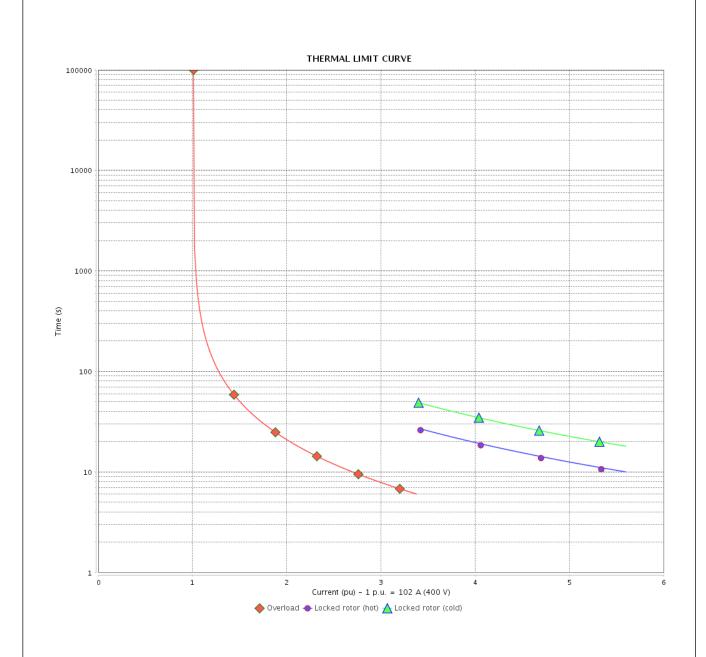


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13472769 07518ET3ER3	365TC-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC	:	102 A 5.6	Duty cycle		: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		267 ft.lb 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	220 %	Temperati		: 105 K	
Rated speed		1475 rpm	Design		: B	
Heating constant Cooling constant						
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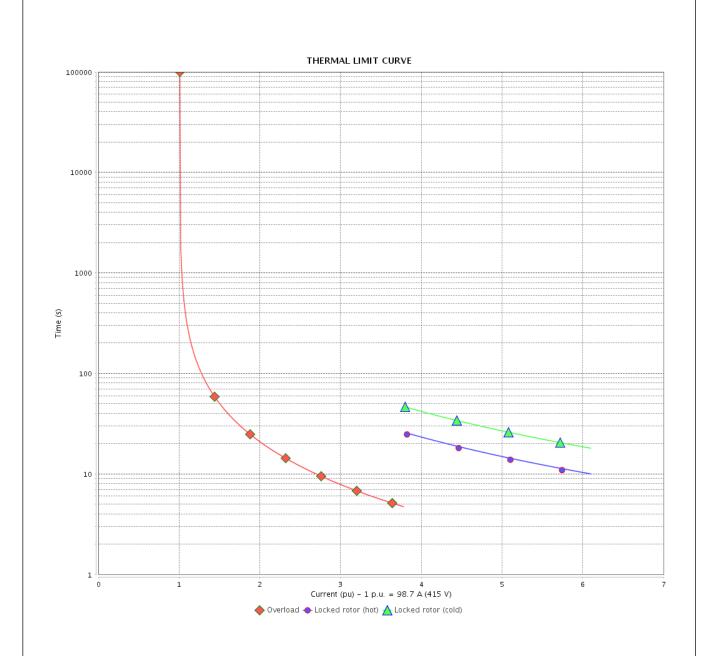


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	13472769 07518ET3ER3	365TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue : ie	98.7 A 6.1 266 ft.lb 210 % 240 % 1480 rpm	Moment or Duty cycle Insulation Service far Temperatu 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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Customer



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Customer :

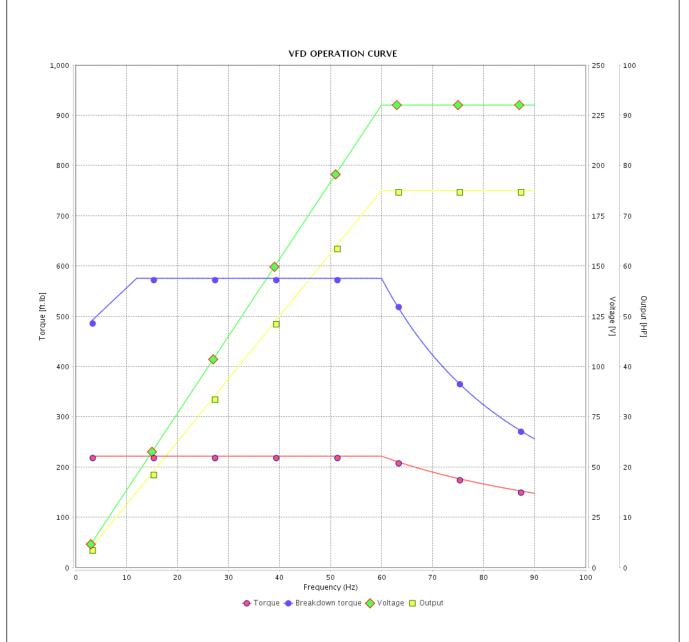
Product line : NEMA Premium Efficiency Three-

Phase

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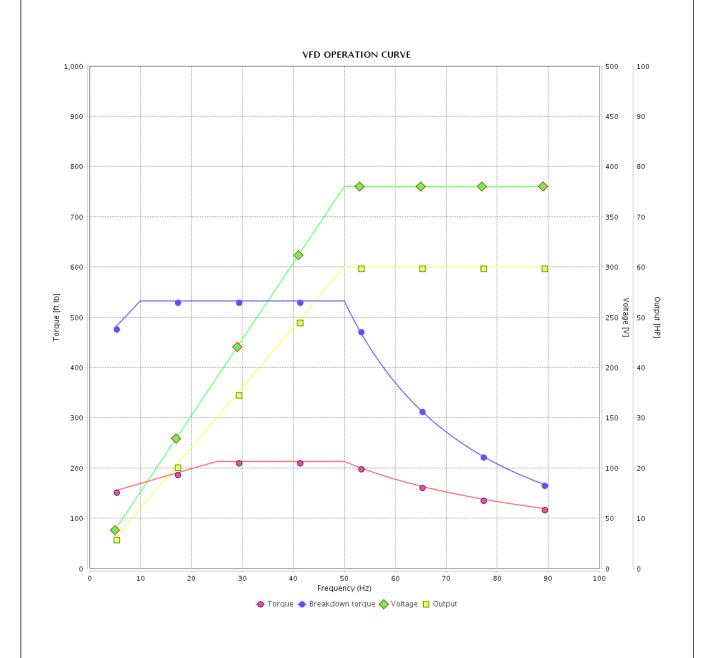
Customer

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: 380 V 50 Hz 4P IE3				
: 88.5 A : 7.0 : 213 ft.lb : 210 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Changes Summary		Performed	Checked	Date
	: 88.5 A : 7.0 : 213 ft.lb : 210 % : 250 % : 1480 rpm	: 88.5 A Moment of Duty cycle : 7.0 Duty cycle : 213 ft.lb Insulation c : 210 % Service fact : 250 % Temperatur : 1480 rpm Design	: 88.5 A Moment of inertia (J) : 7.0 Duty cycle : 213 ft.lb Insulation class : 210 % Service factor : 250 % Temperature rise : 1480 rpm Design	: 88.5 A Moment of inertia (J) : 23.3 sq.ft.lb : 7.0 Duty cycle : Cont.(S1) : 213 ft.lb Insulation class : F : 210 % Service factor : 1.00 : 250 % Temperature rise : 80 K : 1480 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage



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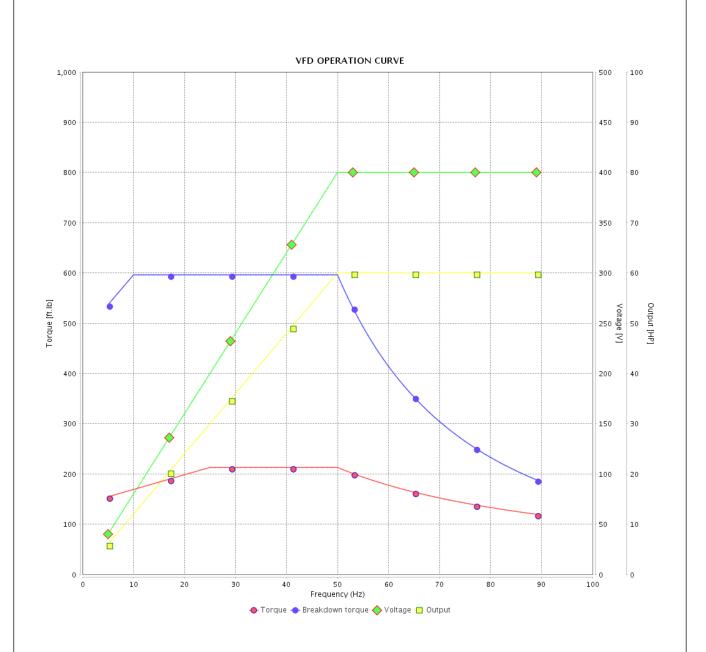
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 4	400 V 50 Hz 4P IE3	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		84.9 A 7.5 213 ft.lb 240 % 280 % 1480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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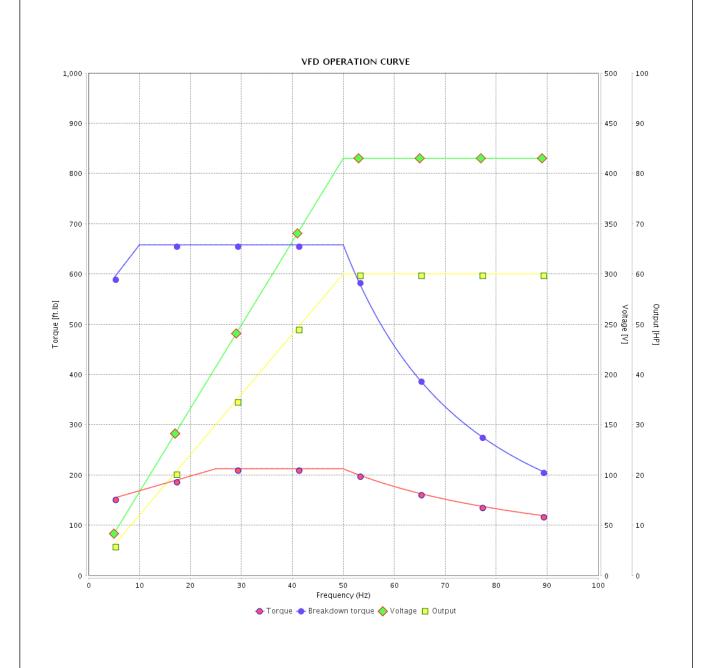


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Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 82	2.7 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 8	.0	Duty cycle	;	: Cont.(S1)	
Rated torque		12 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 20	60 %	Service factor		: 1.00	
Breakdown torque		10 %	Temperati	Temperature rise		
Rated speed	: 1	485 rpm	Design		: B	
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Phase

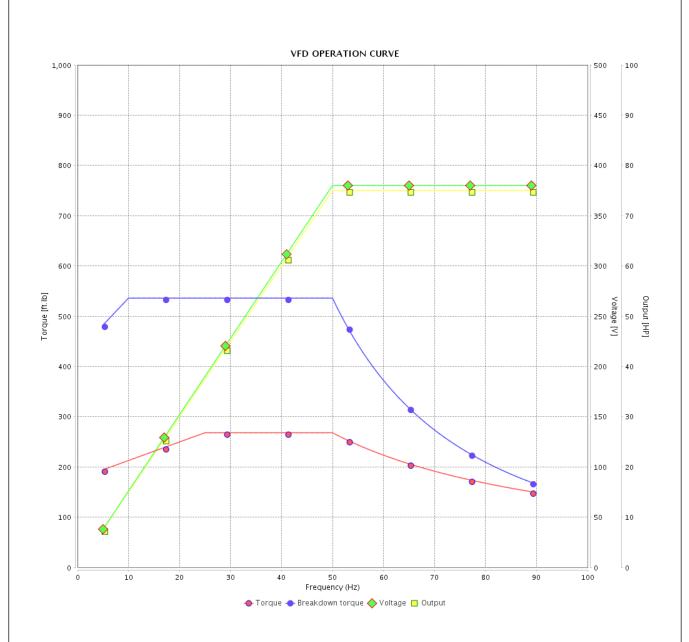
Product code: 13472769

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

Three Phase Induction Motor - Squirrel Cage

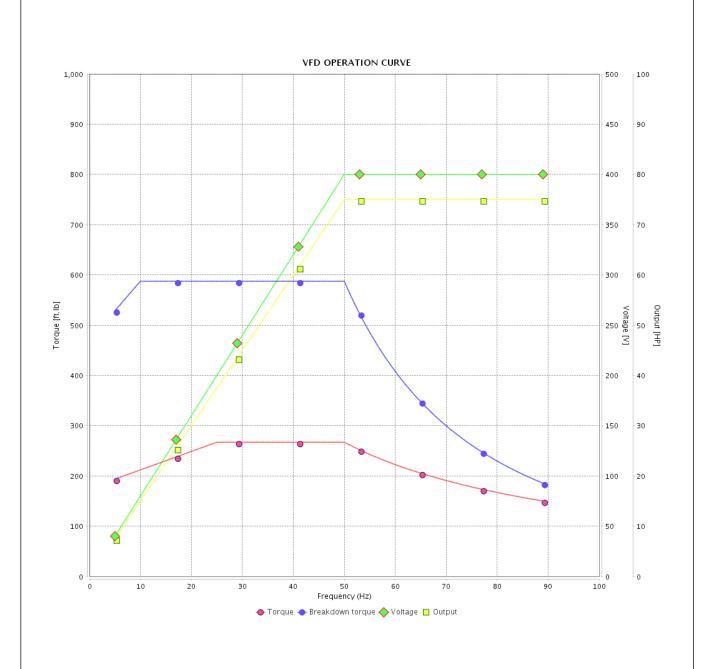


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D . (4.	201/5011 40150			-	
Performance	: 41	00 V 50 Hz 4P IE2				
Rated current	: 10	02 A	Moment of	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5	6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 20	67 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 20	00 %	6 Service factor		: 1.00	
Breakdown torque	Breakdown torque : 220 %		Temperati	Temperature rise		
Rated speed	: 14	475 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code : 13472769

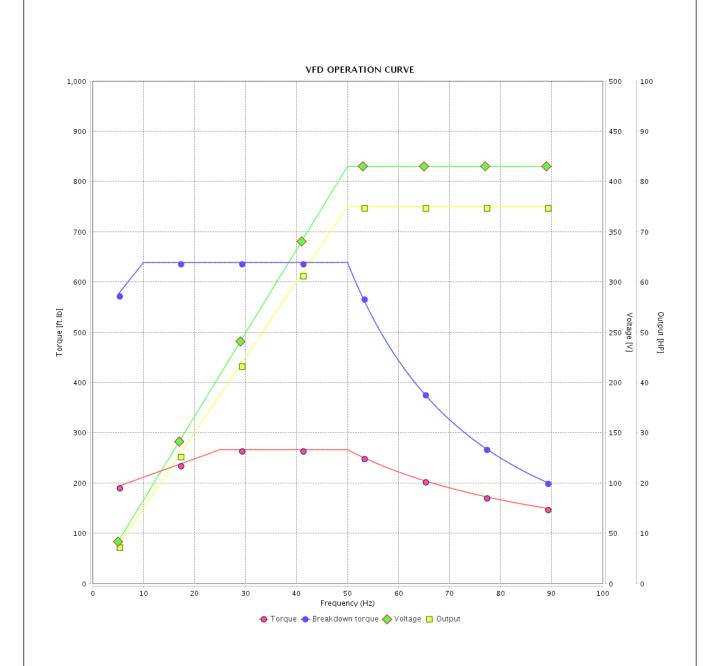
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Performance : 415 V 50 Hz 4P IE2 Rated current : 98.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240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

