### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11535769

Catalog #: 05018ET3E326JM-W22

Frame : 324/6JM Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

Altitude · 1000 m a s l Approx. weight3 · 612 lh

Altitude		: 1000 m.a.	S.I.	Approx	Approx. weight : 612 lb				
Protection degre	е	: IP55		Momer	nt of inertia (J)	: 9	.16 sq.ft.lb		
Design		: B							
Output [HP]		50	40	40	40	50	50	50	
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]		118/59.2	58.7	57.1	56.4	71.6	68.4	66.3	
L. R. Amperes [A]		734/367	376	400	417	372	397	411	
LRC [A]		6.2x(Code	6.4x(Code	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code	
		G)	G)					G)	
No load current [A	]	47.0/23.5	23.0	24.0	25.0	23.0	24.0	25.0	
Rated speed [RPM]		1775	1470	1475	1478	1460	1465	1470	
Slip [%]	Slip [%]		2.00	1.67	1.47	2.67	2.33	2.00	
Rated torque [ft.lb]	Rated torque [ft.lb]		143	142	142	180	179	179	
Locked rotor torqu	e [%]	229	229	250	260	180	200	210	
Breakdown torque	[%]	270	260	300	330	210	240	260	
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		27s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	
		15s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	
Noise level <sup>2</sup>		66.0 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%								
Efficiency (%)	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4	
Liliciency (70)	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0	
100%		94.5	93.6	93.6	93.6	92.4	93.0	93.5	
25% 50%									
		0.66	0.64	0.60	0.57	0.72	0.68	0.65	
FOWEI FACIOI	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76	
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83	

Drive end Non drive end Foundation loads

Bearing type 6312 C3 6212 C3 Max. traction : 1476 lb V'Ring V'Ring : 2088 lb Sealing Max. compression

20000 h

Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 131A SF 1.15 SFA 151A

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



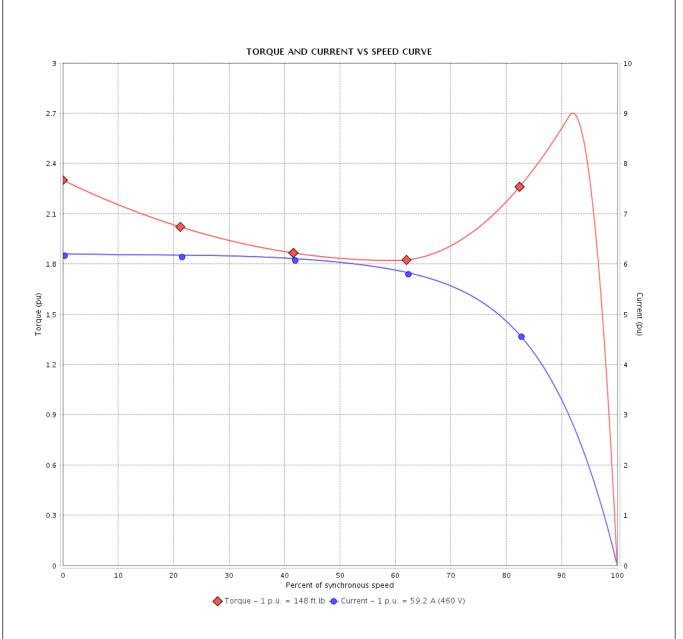
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326JM-W22

11535769



Performance : 230/460 V 60 Hz 4P Rated current : 118/59.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 148 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11535769 Catalog #: 05018ET3E326JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 143 ft.lb ◆ Current - 1 p.u. = 58.7 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Performed Checked Date Rev. **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



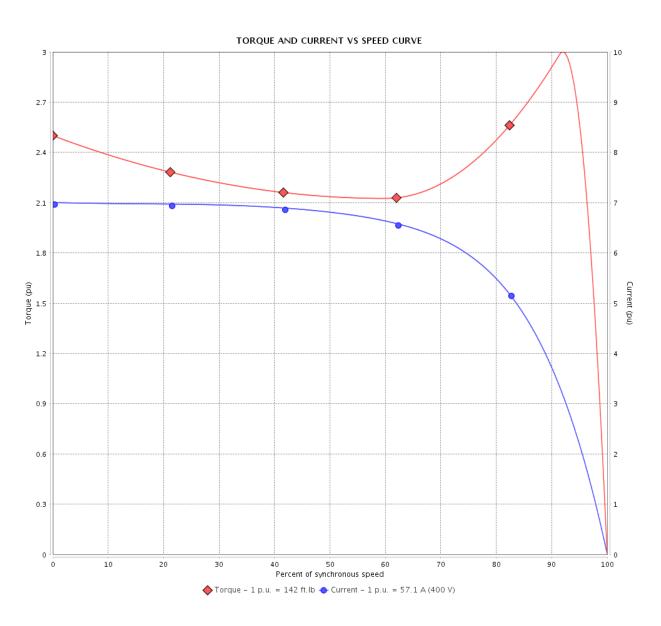
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535769

Catalog #: 05018ET3E326JM-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 57.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11535769 Catalog #: 05018ET3E326JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 142 ft.lb ◆ Current - 1 p.u. = 56.4 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 56.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 142 ft.lb Insulation class Rated torque : F : 260 % Locked rotor torque Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1478 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



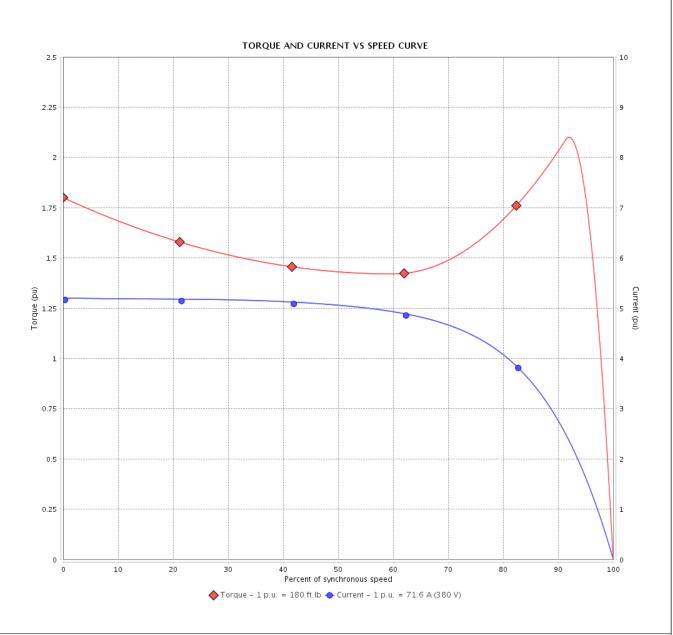
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535769

Catalog #: 05018ET3E326JM-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 71.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 180 ft.lb : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11535769 Catalog #: 05018ET3E326JM-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. = 179 ft.lb ◆ Current - 1 p.u. = 68.4 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 68.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 179 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 : 105 K Breakdown torque : 240 % Temperature rise Rated speed : 1465 rpm Design : B Locked rotor time : 19s (cold) 11s (hot) Rev. **Changes Summary** Performed Checked Date

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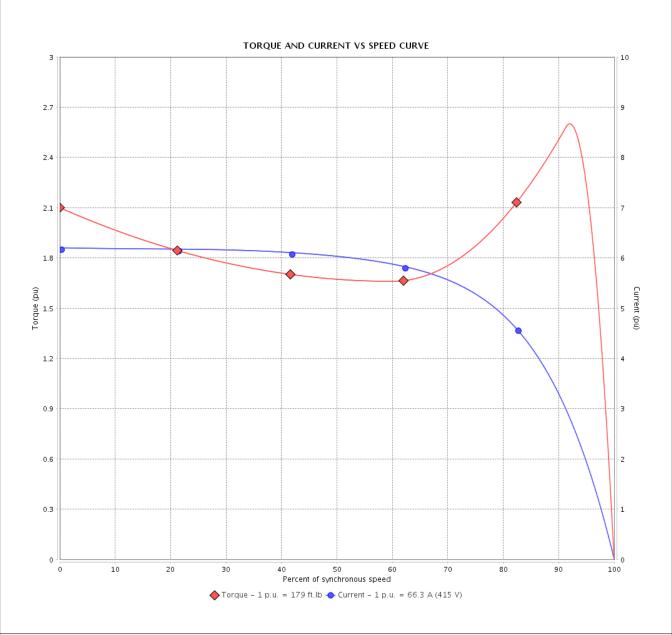
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535769

Catalog #: 05018ET3E326JM-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

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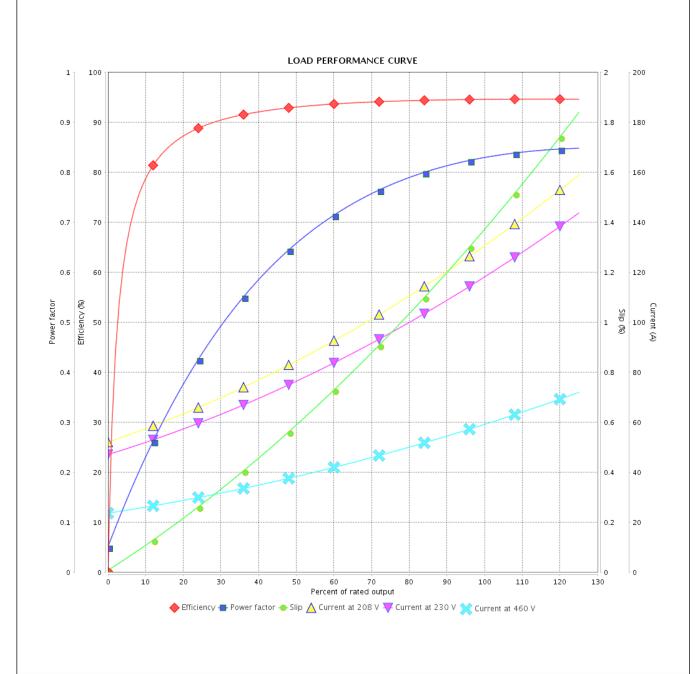


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535769

Phase

Catalog #: 05018ET3E326JM-W22



Performance	: 23	30/460 V 60 Hz 4P	460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque		18/59.2 A 2 48 ft.lb 29 % 70 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K			
Rated speed		775 rpm	Design					
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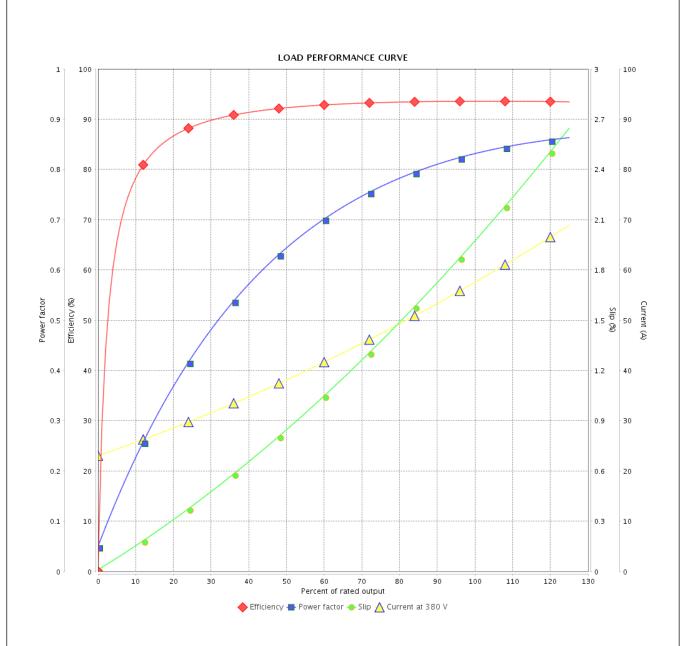
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326JM-W22

11535769

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 143 ft.lb : 229 % : 260 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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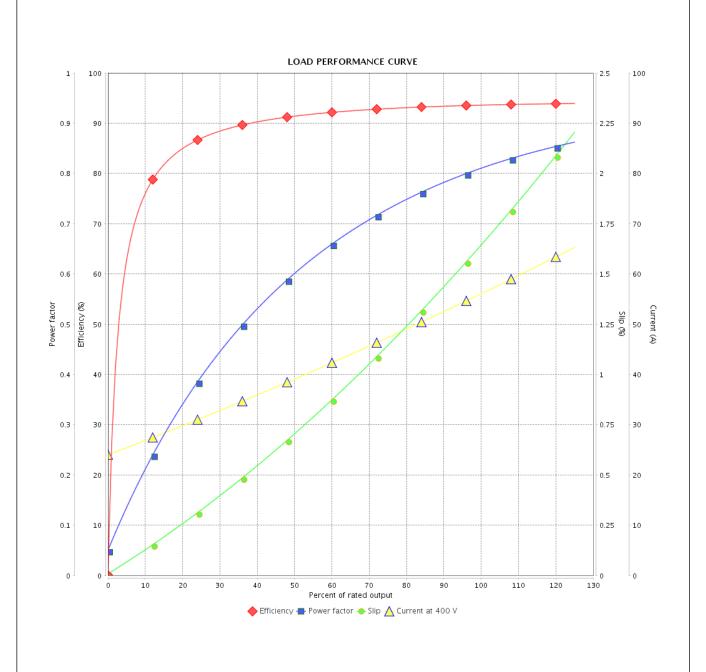


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535769

Phase

Catalog #: 05018ET3E326JM-W22



Performance : 400 V 50 Hz 4P IE3						
Rated current :		7.1 A	Moment o	Moment of inertia (J)		
LRC :		0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 14	12 ft.lb	Insulation	class	: F	
Locked rotor torque		50 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 30	Temperature rise Design		ıre rise	: 80 K	
Rated speed	: 14				: B	
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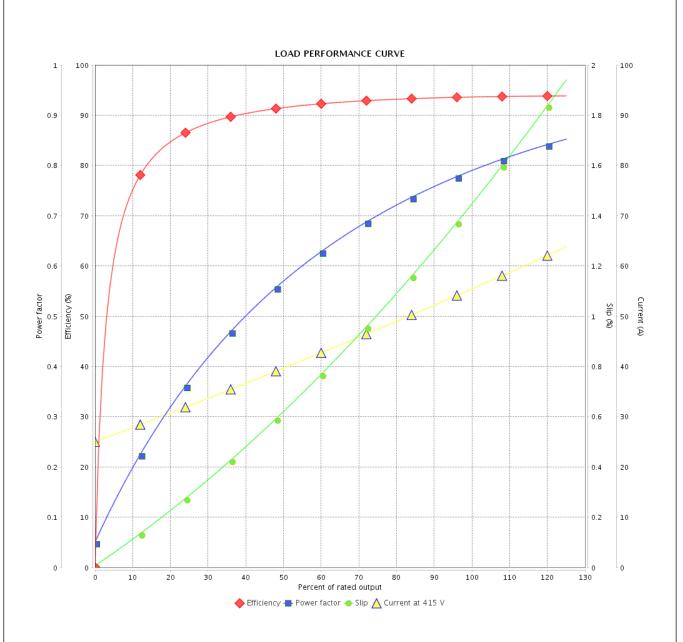
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11535769

Catalog #: 05018ET3E326JM-W22



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 7.4 : 142 ft.lb : 260 % : 330 % : 1478 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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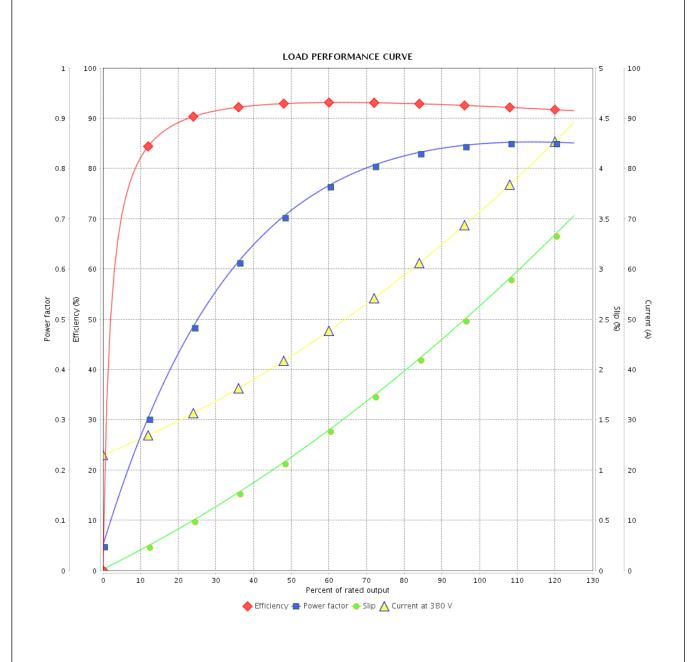


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535769

Phase

Catalog #: 05018ET3E326JM-W22



Performance	erformance : 380 V 50 Hz 4P IE1					
Rated current	: 7	71.6 A	1.6 A Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC		5.2	Duty cycle	;	: Cont.(S1)	
Rated torque		180 ft.lb	Insulation	class	:F	
Locked rotor torqu	e :1	180 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	210 %	Temperature rise		: 105 K	
Rated speed	: 1	1460 rpm Design			: B	
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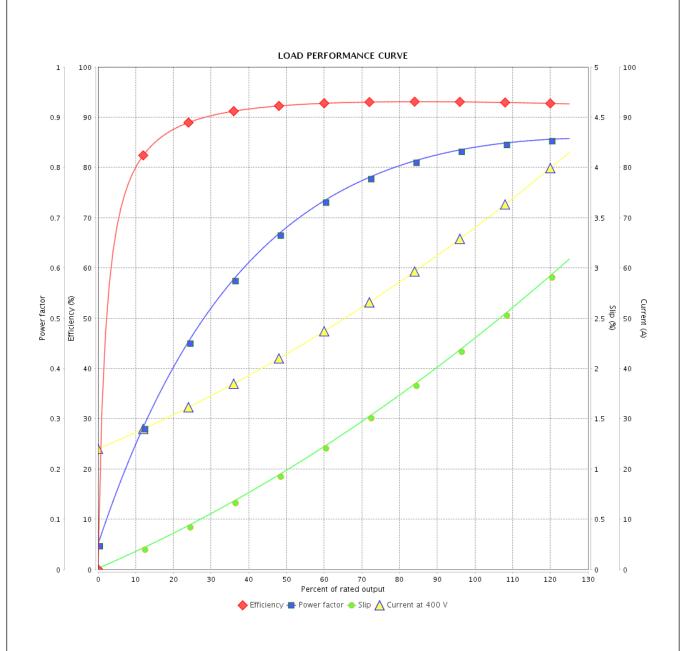
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Phase

Product code: 11535769

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	<del>,</del>				
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque	: 68.4 A : 5.8 : 179 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 9.16 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	200 % : 240 % : 1465 rpm	: 240 % Temperature rise		: 1.00 : 105 K : B	
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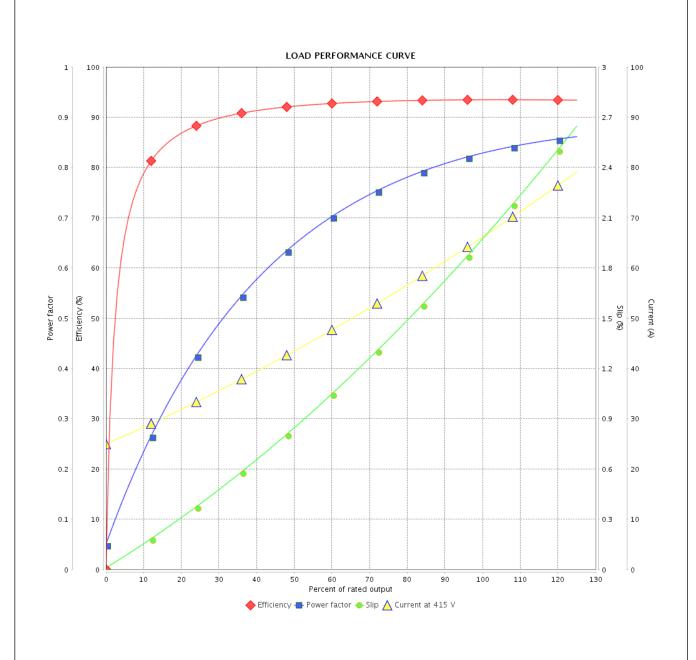
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11535769

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.3 A : 6.2 : 179 ft.lb : 210 % : 260 % : 1470 rpm			: 1.00 : 105 K	
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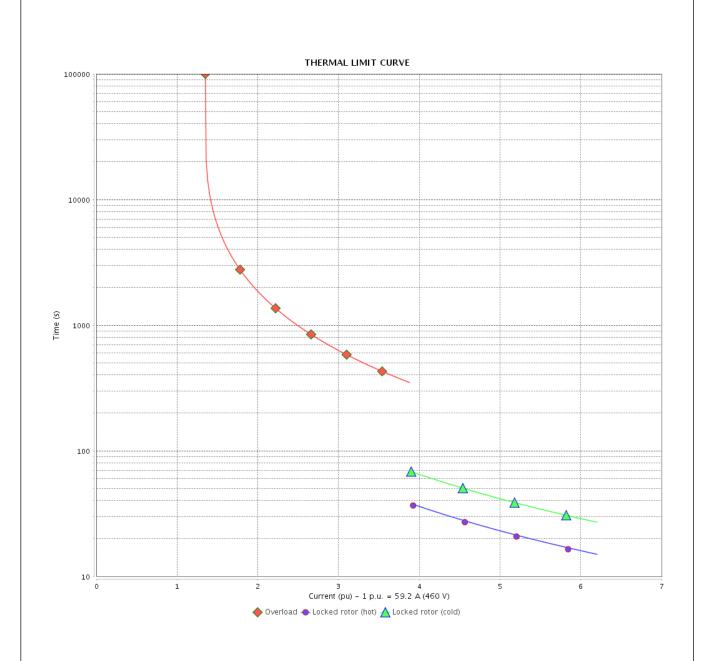


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11535769	
	P	hase		Catalog # :	05018ET3E32	26JM-W22
Performance	. 00	30/460 V 60 Hz 4P				
Rated current		18/59.2 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.	2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque		48 ft.lb 29 %	Insulation Service fa	class	: F : 1.25	
Locked rotor torque Breakdown torque		29 % 70 %	Temperatu		: 1.25 : 80 K	
Rated speed		775 rpm	Design		: B	
Heating constant						
Cooling constant						
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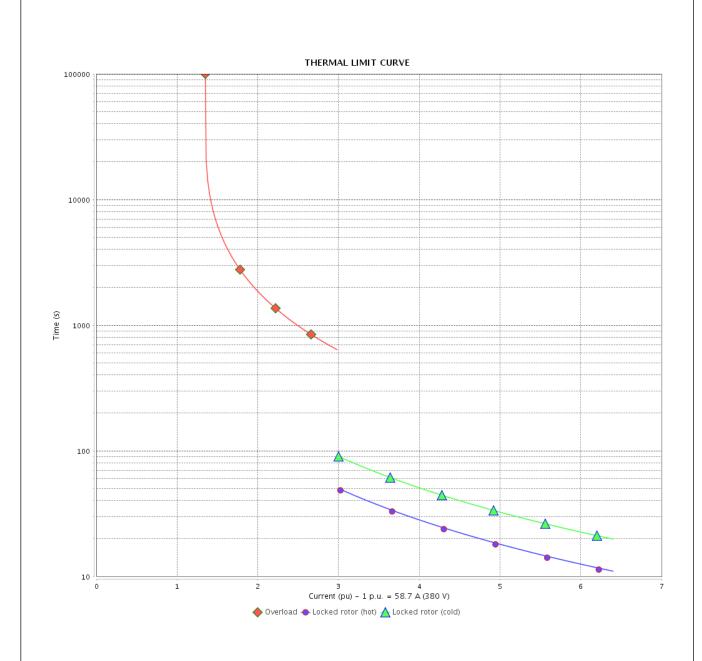


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11535769 05018ET3E32	26.IM-W22
					00010210202	
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 58.7 A : 6.4	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
Rated torque		: 143 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 229 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 260 % : 1470 rpm	Temperat Design	uic lise	: 80 K : B	
Heating constan	t					
Cooling constant	t			T .		
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### Three Phase Induction Motor - Squirrel Cage



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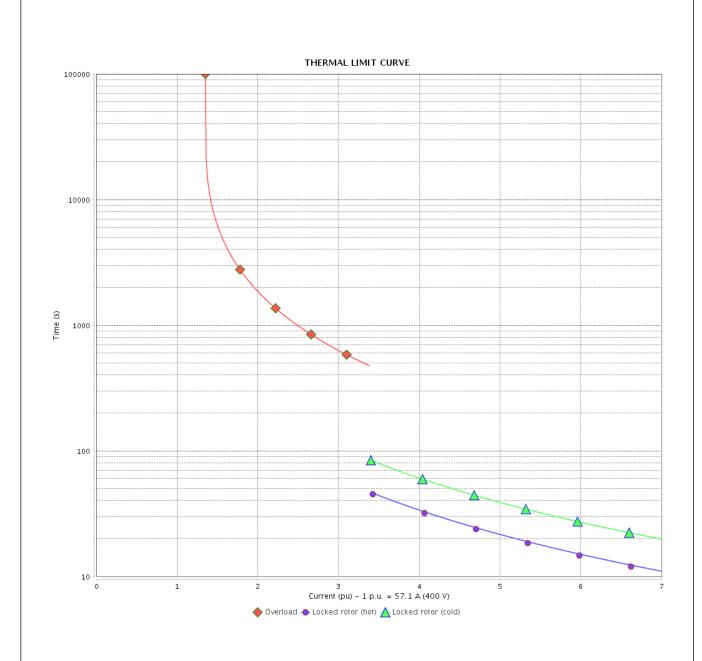


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11535769 05018ET3E32	26JM-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 57.1 A : 7.0	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 142 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 300 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1475 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Cumment		Dorform	Charles	Doto
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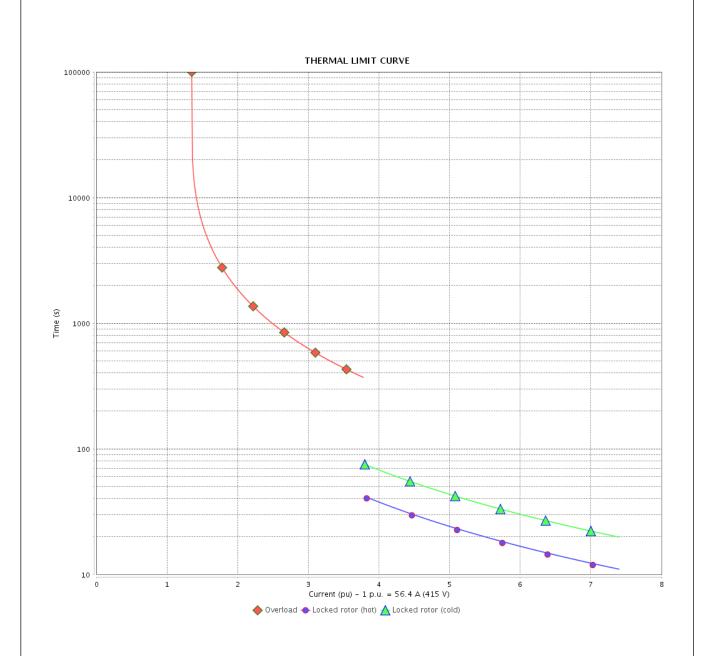


Customer	:					
Product line	: NE Pha	EMA Premium Efficiency <sup>-</sup> ase	Three- I	Product code :	11535769	
	1 110		(	Catalog # :	05018ET3E32	6JM-W22
Performance	· 415	V 50 Hz 4P IE3				
Rated current	: 56.4		Moment of	finertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.4		Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 142 ue : 260		Insulation Service fac		: F : 1.00	
Breakdown torque	e : 330	%	Temperatu		: 80 K	
Rated speed		8 rpm	Design		: B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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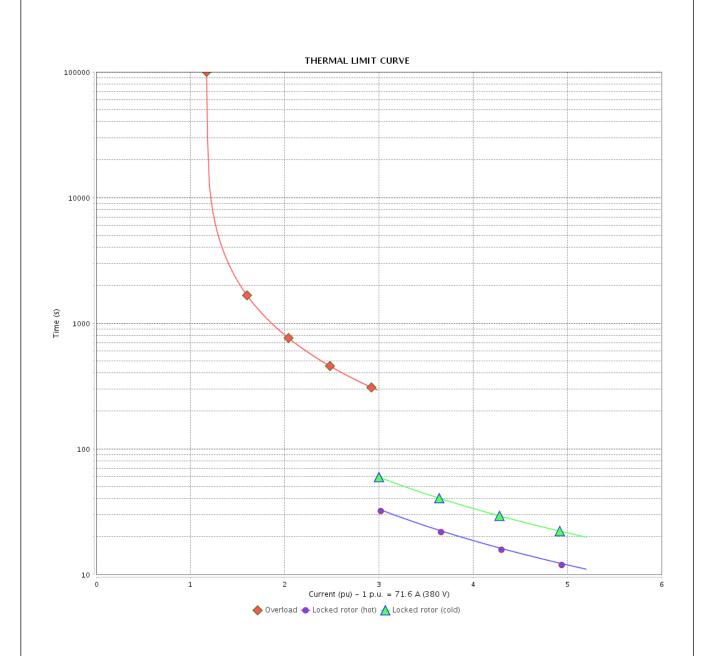


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11535769	
		Catalog #:	05018ET3E326	JM-W22
Performance	: 380 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.6 A : 5.2 : 180 ft.lb : 180 % : 210 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant Cooling constant				
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

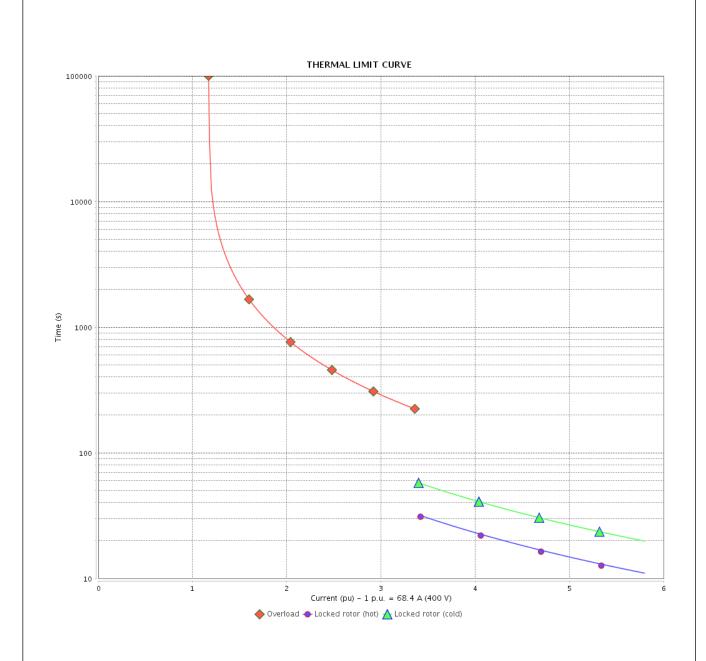


Product line	: NEMA Premium Efficiency Thase	Γhree- Product code : Catalog # :	11535769 05018ET3E326	JM-W22
Product line				JM-W22
		Catalog # :	05018ET3E326	JM-W22
	: 400 V 50 Hz 4P IE2			
LRC Rated torque Locked rotor torque Breakdown torque	: 68.4 A : 5.8 : 179 ft.lb : 200 % : 240 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant				
Cooling constant	Changas Summani	Darfarmad	Chooked	Doto
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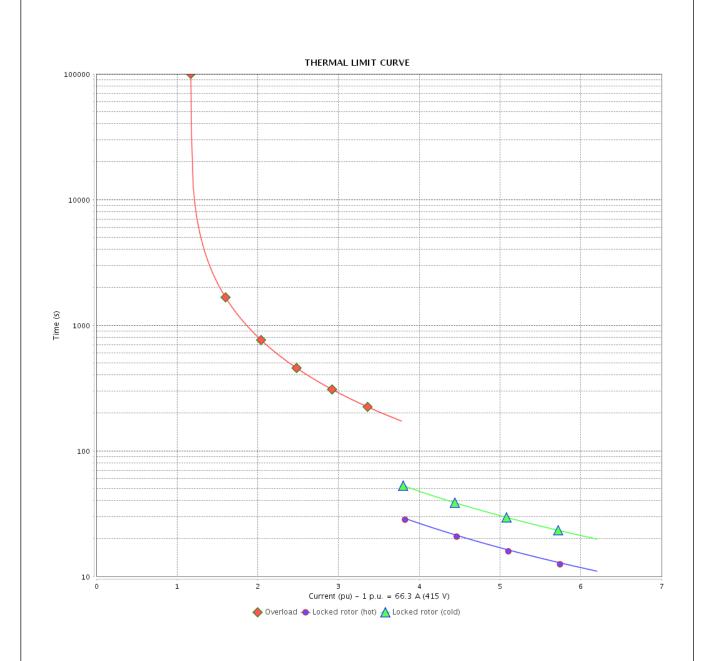


Customer	:			·	
Product line	: NEMA Premium Efficie	ency Three-	Product code :	11535769	
	Phase		Catalog # :	05018ET3E3	26JM-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 66.3 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6.2 : 179 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed	: 260 % : 1470 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constant					
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

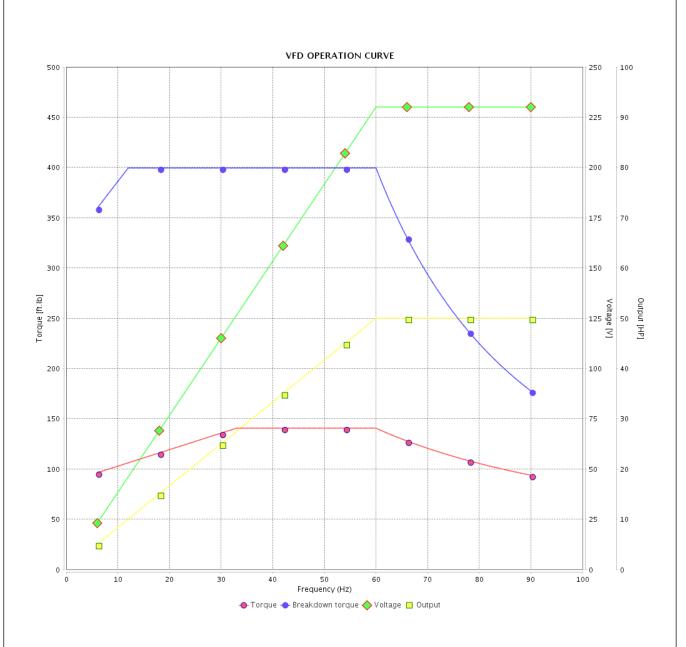
Product code: 11535769

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Performance : 230/460 V 60 Hz 4P : 118/59.2 A Rated current Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

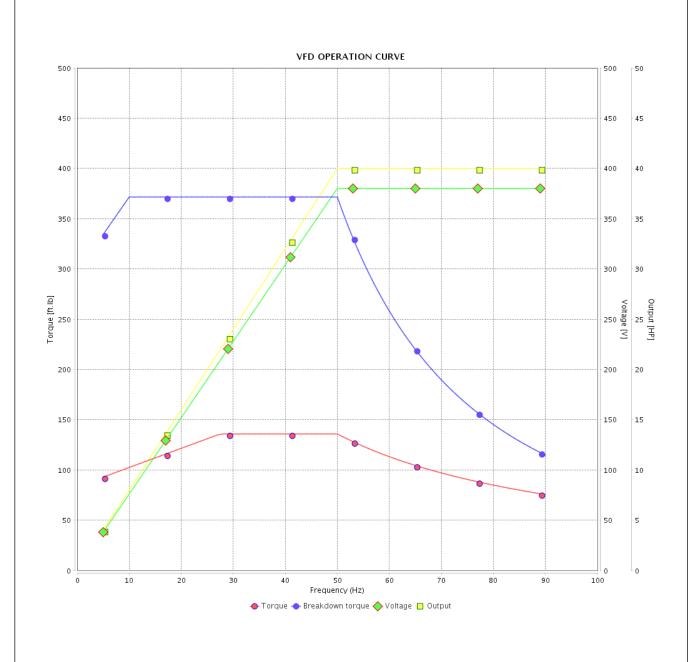


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535769

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Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 58	3.7 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.	4	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 14	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 26	60 %	Temperati	Temperature rise		
Rated speed	: 14	170 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

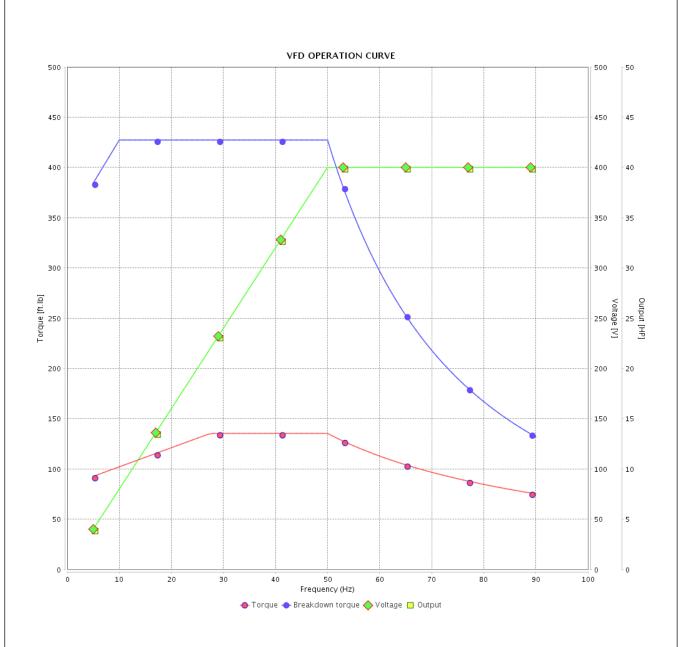
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Performance	: 4	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 que : 2 ue : 3	7.1 A .0 42 ft.lb 50 % 00 % 475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

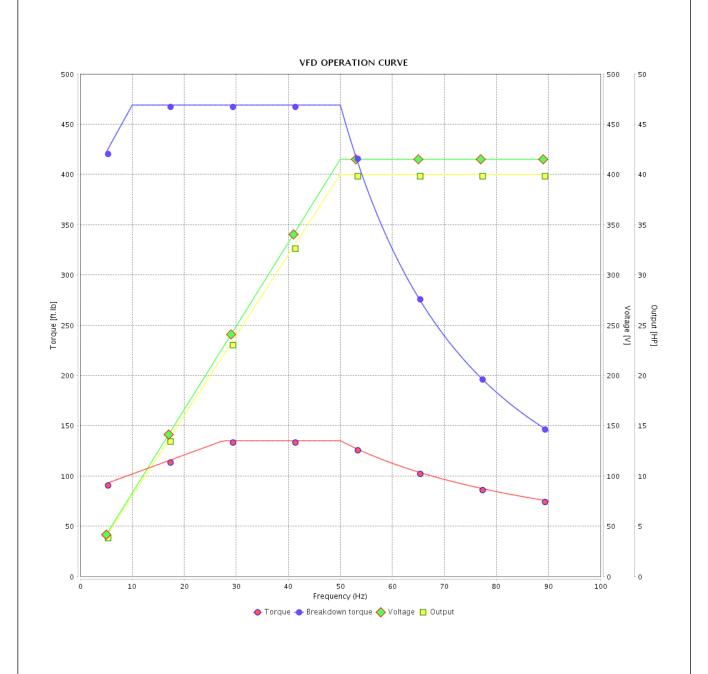


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535769

Phase

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Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current	ated current : 56.4 A		Moment of	Moment of inertia (J)		
LRC	: 7	.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
•		60 %	Service fa	ctor	: 1.00	
		30 %	Temperati	Temperature rise		
Rated speed	: 1	478 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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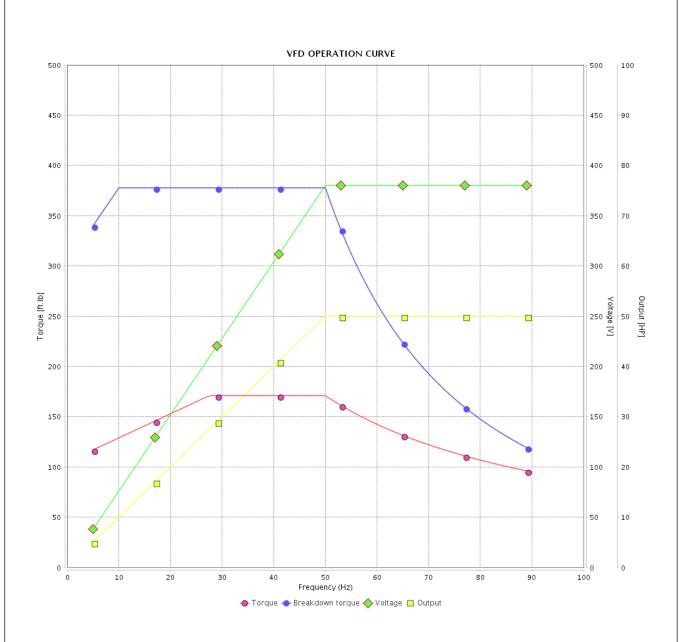
Product line : NEMA Premium Efficiency Three-

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Performance	erformance : 380 V 50 Hz 4P IE1				
Rated current	: 71.6 A	Moment of ir	nertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 180 ft.lb	Insulation class		: F	
Locked rotor torque	: 180 %	Service factor Temperature rise Design		: 1.00	
Breakdown torque	: 210 %			: 105 K	
Rated speed	: 1460 rpm			: B	
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### Three Phase Induction Motor - Squirrel Cage

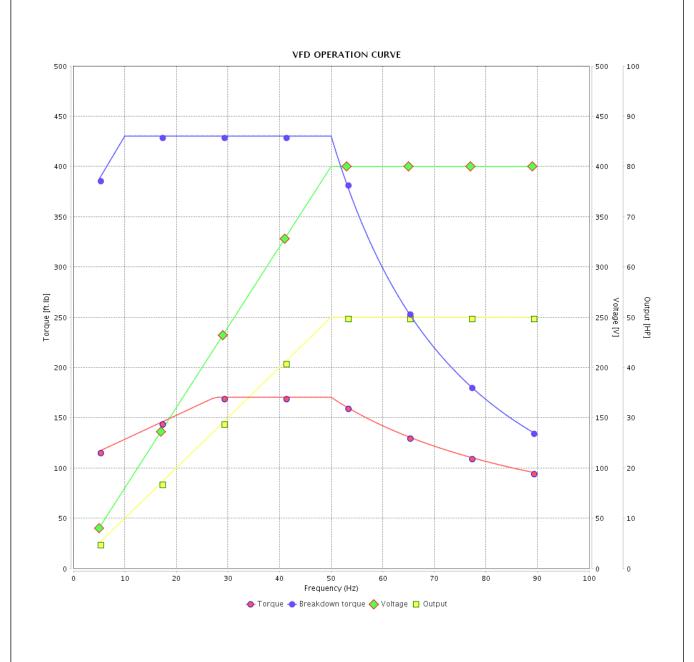


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Performance	: 400 V 50 Hz 4P IE2					
Rated current	: 6	88.4 A	8.4 A Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 1	179 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	200 %	Service factor		: 1.00	
Breakdown torque	: 2	240 %	Temperati	Temperature rise		
Rated speed	: 1	: 1465 rpm		Design		
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### Three Phase Induction Motor - Squirrel Cage



Customer :

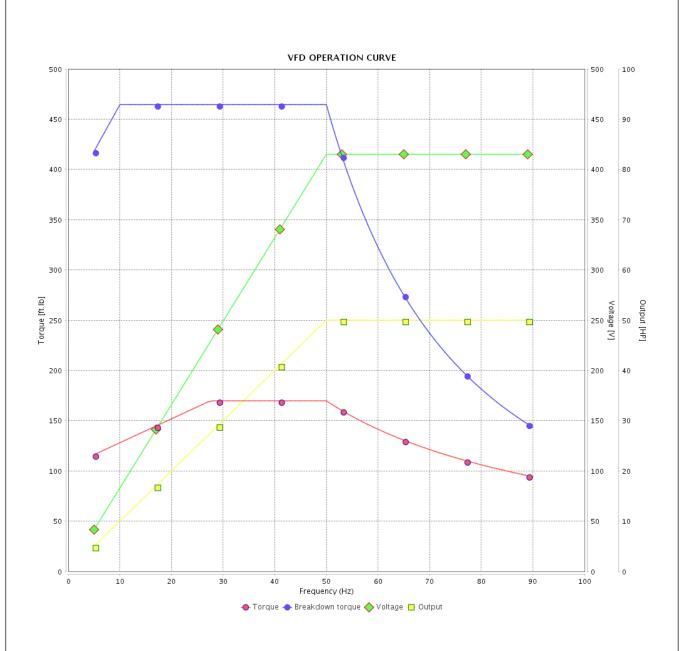
Product line : NEMA Premium Efficiency Three-

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Performance	: 415 V 50 Hz 4P IE2	: 415 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.3 A : 6.2 : 179 ft.lb : 210 % : 260 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B				
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