DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22

Frame : 284/6JM Cooling method : IC411 - TEFC

Insulation class : F 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 : 479 lb

Protection degree	е	: IP55 : B		Momer	nt of inertia (J)) : 5	.85 sq.ft.lb	
Output [HP]		30	25	25	25	30	30	30
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]		70.2/35.1	35.7	34.3	33.9	43.1	41.1	39.7
L. R. Amperes [A]		428/214	214	230	237	216	230	238
LRC [A]		6.1x(Code	6.0x(Code	6.7x(Code H)	7.0x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code
		G)	Ġ)					G)
No load current [A]		26.0/13.0	12.9	13.8	14.5	12.9	13.8	14.5
Rated speed [RPM	1]	1765	1460	1465	1470	1445	1455	1460
Slip [%]		1.94	2.67	2.33	2.00	3.67	3.00	2.67
Rated torque [ft.lb]		89.3	89.9	89.6	89.3	109	108	108
Locked rotor torqu	e [%]	240	200	229	260	170	190	220
Breakdown torque	[%]	240	229	260	280	190	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		36s (cold) 20s (hot)	27s (cold) 15s (hot)					
Noise level ²		63.0 dB(A)	61.0 dB(A)					
	25%	92.3	91.8	92.0	91.3	89.7	90.2	91.0
Efficiency (0/)	50%	93.0	92.1	92.1	91.6	90.0	90.5	91.2
Efficiency (%)	75%	93.0	92.5	92.8	92.5	90.2	91.0	91.7
	100%	93.6	92.6	92.7	92.6	90.2	91.0	91.7
	25%	0.46	0.46	0.43	0.40	0.52	0.49	0.46
Power Factor	50%	0.70	0.70	0.67	0.64	0.76	0.73	0.70
rower ractor	75%	0.80	0.81	0.79	0.76	0.83	0.82	0.80
	100%	0.84	0.85	0.84	0.82	0.86	0.85	0.84

Drive end Non drive end Foundation loads

Bearing type : 6311 C3 6211 C3 Max. traction : 890 lb Sealing : V'Ring V'Ring Max. compression : 1369 lb

20000 h

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 77.6A SF 1.15 SFA 89.3A

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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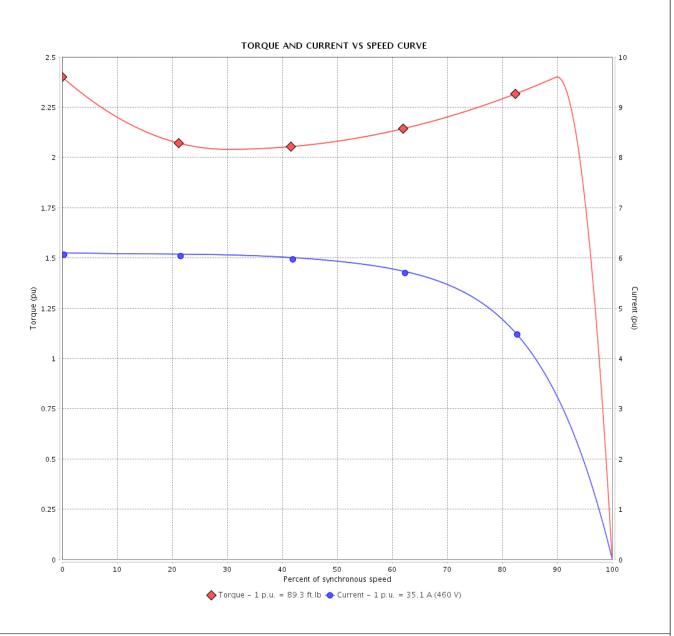
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11715659

Catalog #: 03018ET3E286JM-W22



Performance : 230/460 V 60 Hz 4P Rated current : 70.2/35.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.3 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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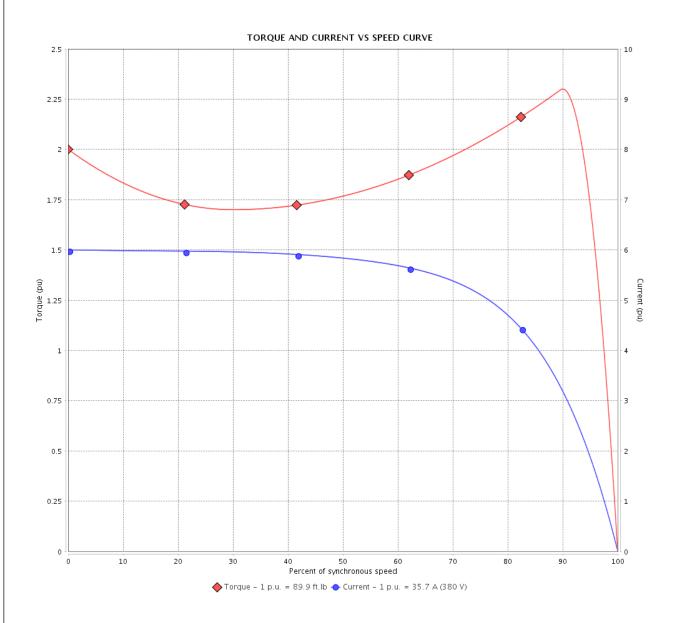


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11715659

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Catalog #: 03018ET3E286JM-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 89.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 1460 rpm Design

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

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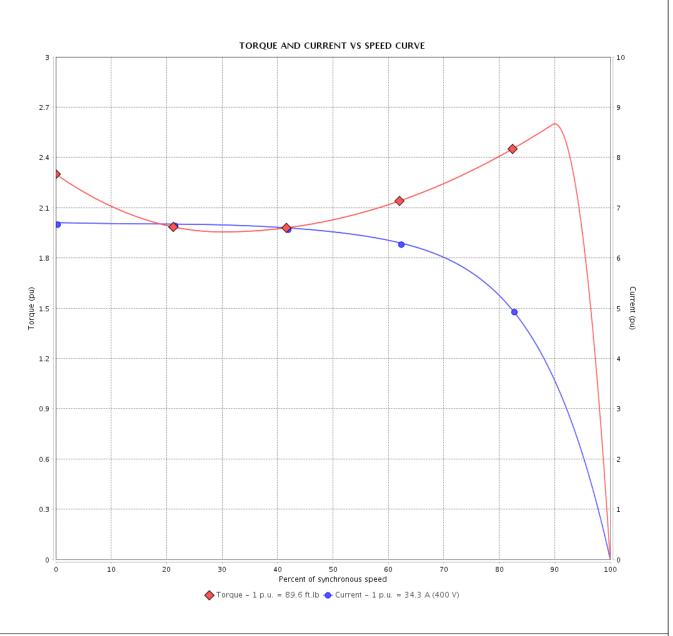
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11715659

Catalog #: 03018ET3E286JM-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

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

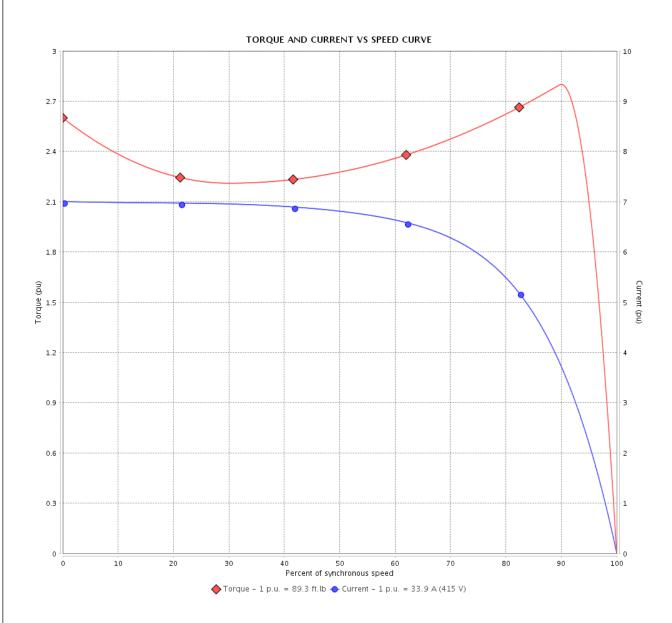
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Customer Product line : NEMA Premium Efficiency Three-Product code: 11715659

> Catalog #: 03018ET3E286JM-W22



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 33.9 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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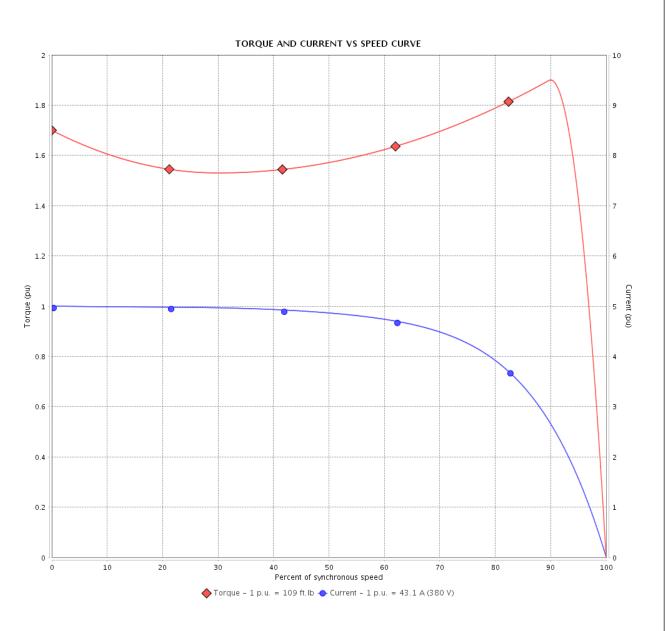


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 380 V 50 Hz 4P IE1			
Rated current	: 43.1 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC	: 5.0	Duty cycle	: Cont.(S1)	
Rated torque	: 109 ft.lb	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 1445 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (bot)			

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

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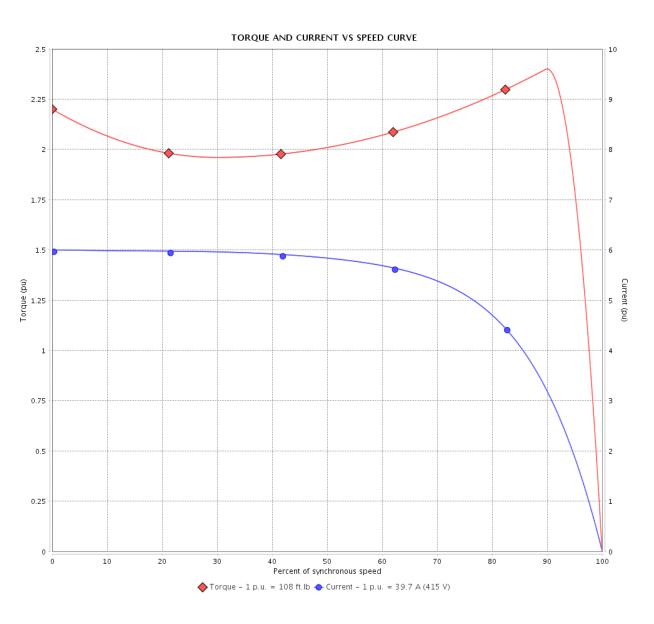


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 39.7 A	Moment of inertia (J)	: 5.85 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 108 ft.lb	Insulation class	:F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1460 rpm	Design	: B
	·		

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

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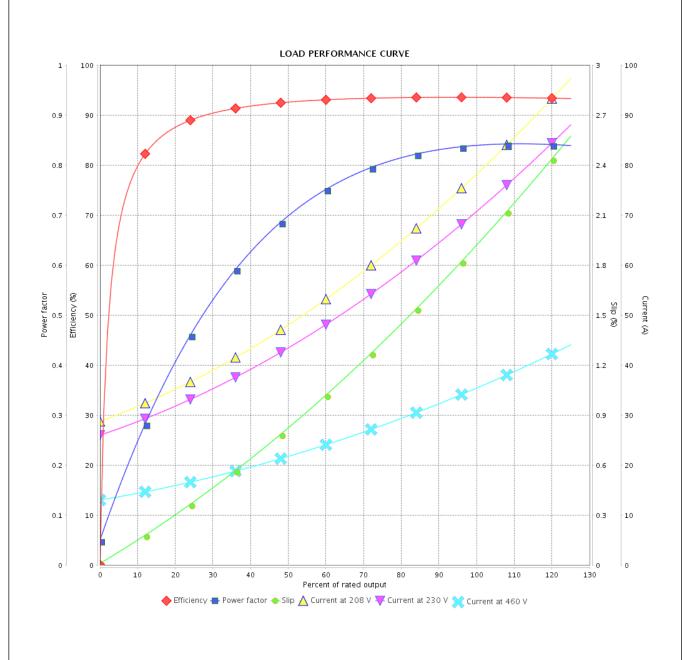


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 7	70.2/35.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: (6.1	Duty cycle	:	: Cont.(S1)	
Rated torque	: 8	89.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperatu	ıre rise	: 80 K	
Rated speed	: '	1765 rpm	Design		: B	
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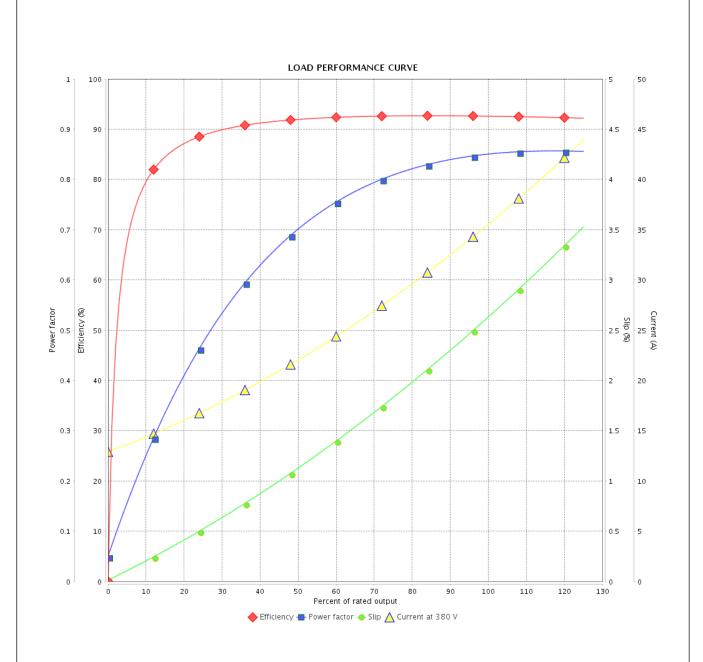
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286JM-W22

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Performance	: 3	80 V 50 Hz 4P IE3					
Rated current	: 3	5.7 A	Moment of	f inertia (J)	: 5.85 sq.ft.lb		
LRC	: 6	5.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: 8	9.9 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 2	00 %	Service fa	ctor	: 1.00		
Breakdown torque	Breakdown torque : 229 %		Temperat	Temperature rise		: 80 K	
Rated speed	: 1	460 rpm	Design		: B		
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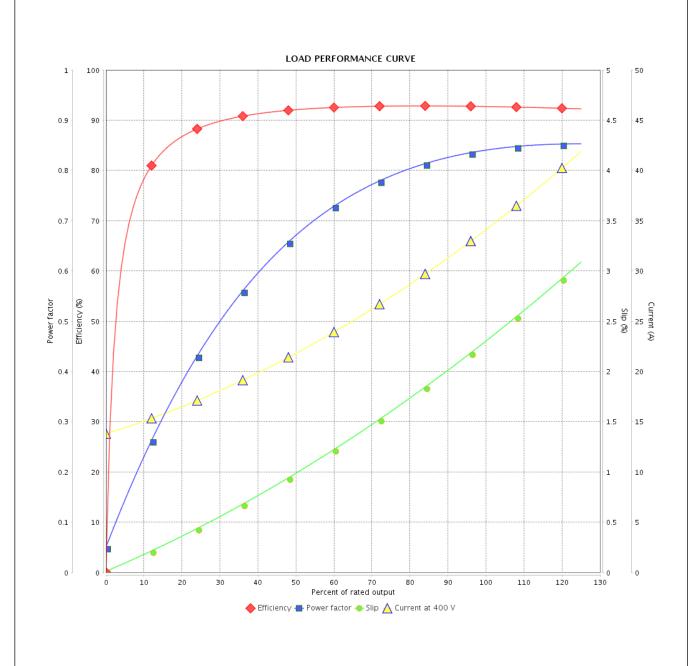
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11715659

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Performance	: 4	400 V 50 Hz 4P IE3					
Rated current	: 3	34.3 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb		
LRC	: 6	6.7	Duty cycle	;	: Cont.(S1)		
Rated torque :		39.6 ft.lb	Insulation	class	: F		
Locked rotor torque		229 %	Service fa	ctor	: 1.00	: 1.00	
Breakdown torque	: 2	260 %	Temperati	Temperature rise : 80 K			
Rated speed	: 1	1465 rpm	Design		: B		
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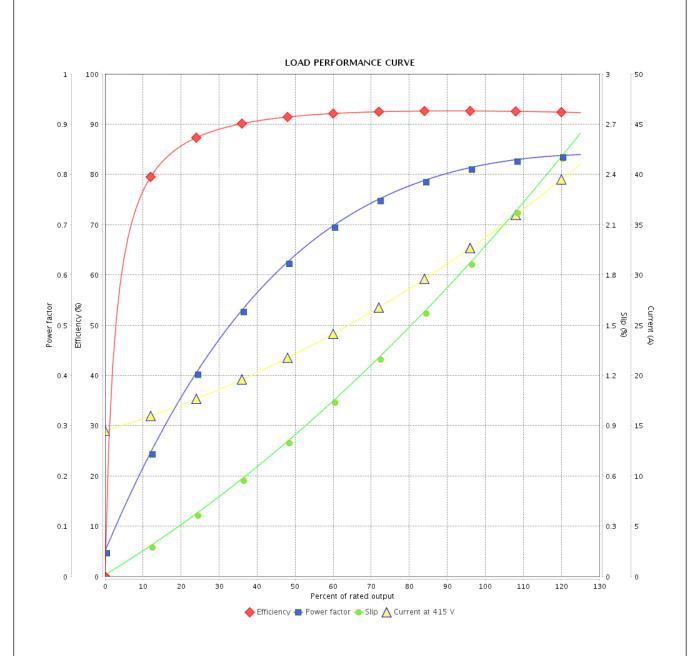
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Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.9 A : 7.0 : 89.3 ft.lb : 260 % : 280 % : 1470 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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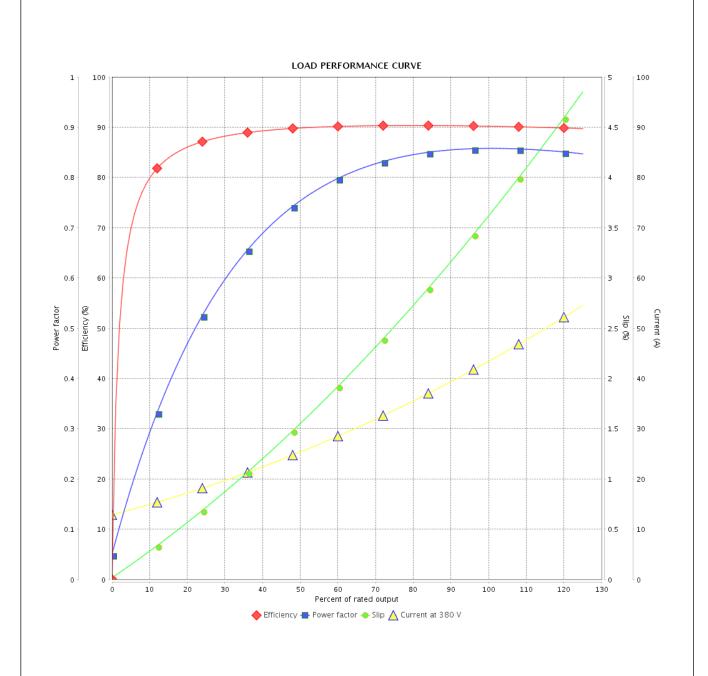


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 3	: 380 V 50 Hz 4P IE1				
Rated current	ent : 43.1 A Momen		Moment of	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 5	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	09 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ie : 1	70 %	Service fa	Service factor		
Breakdown torque	: 1	90 %	7 Temperature rise		: 105 K	
Rated speed : 1445 rpm		445 rpm	Design		: B	
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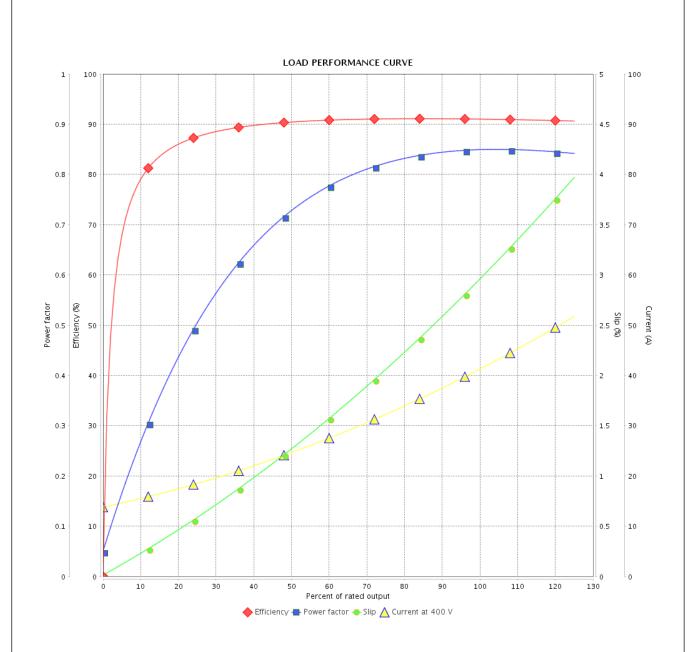
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22

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Performance	: 400 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 5.6 : 108 ft.lb : 190 % : 220 % : 1455 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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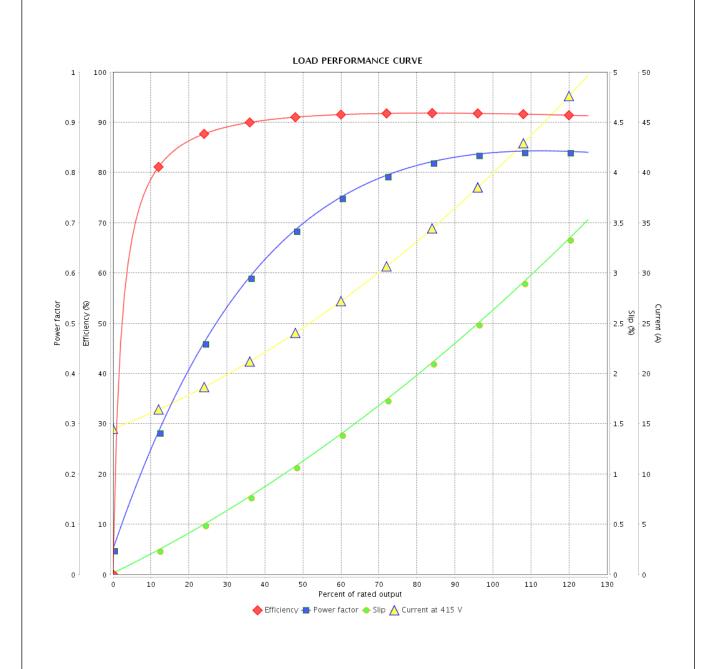


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 4	415 V 50 Hz 4P IE2				
Rated current	::	39.7 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: (6.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	108 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	Temperature rise : 105 K		
Rated speed	: '	1460 rpm	Design		: B	
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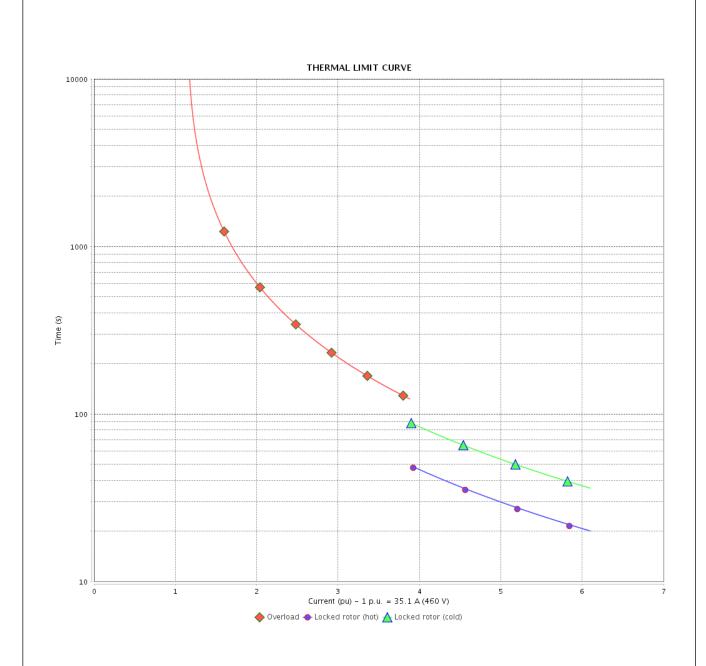


Rated current : 70.2/35.1 A Moment of inertia (J) : 5.85 sq.ft.lb	Customer		:				
Performance : 230/460 V 60 Hz 4P Rated current : 70.2/35.1 A	Product line		: NEMA Premium Efficiency	Three-	Product code :	11715659	
Performance : 230/460 V 60 Hz 4P Rated current : 70.2795.1 A Moment of inertia (J) : 5.85 sq.ft.lb LRC : 6.1 Duty cycle : Cont.(S1) Rated torque : 89.9 ft.lb Insulation class : F Locked rotor torque : 240 % Service factor : 12.5 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Design : 8 Design : 8							00 104 10400
Rated current : 70.2/35.1 A					Catalog # :	03018E13E2	86JM-W22
Rated current : 70.2/35.1 A							
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Rated current : 70.2/35.1 A							
LRC : 6.1 Duty cycle : Cont.(S1) Rated torque : 89.3 ft.lb Insulation class : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	Performance	:	230/460 V 60 Hz 4P				
LRC : 6.1 Duty cycle : Cont.(S1) Rated torque : 89.3 ft.lb Insulation class : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	Rated current			Moment o	of inertia (J)	: 5.85 sq.ft.lb	
Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	LRC			Duty cycle	Э	: Cont.(S1)	
Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by							
Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by	Breakdown torqu	e :	240 %	Temperati		: 80 K	
Cooling constant Rev. Changes Summary Performed Checked Date Performed by	Rated speed	:	1765 rpm	Design		: B	
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Customer



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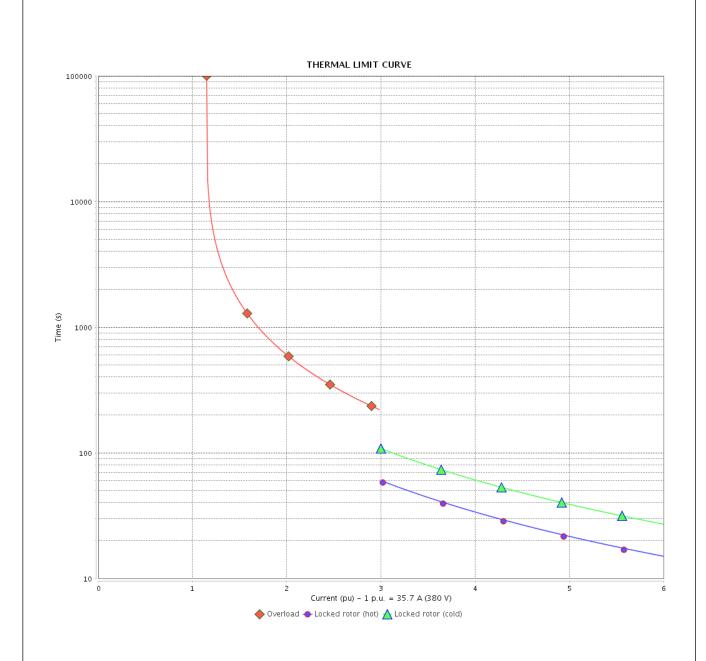


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	11715659	
	P	hase	1	Catalog # :	03018ET3E28	86JM-W22
Performance Rated current		30 V 50 Hz 4P IE3 5.7 A	Momento	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6.	0	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		9.9 ft.lb 90 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 22	29 %	Temperatu		: 80 K	
Rated speed	: 14	460 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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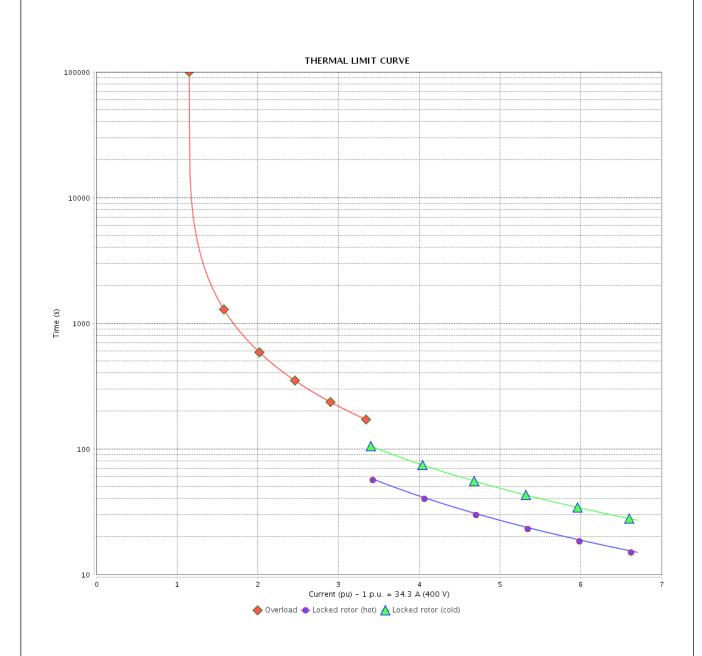


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11715659 03018ET3E28	36JM-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 34.3 A : 6.7	Moment of Duty cycle	of inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 229 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1465 rpm	Design	are rise	: B	
Heating constan						
Cooling constan	t	01 0				
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Three Phase Induction Motor - Squirrel Cage



Customer



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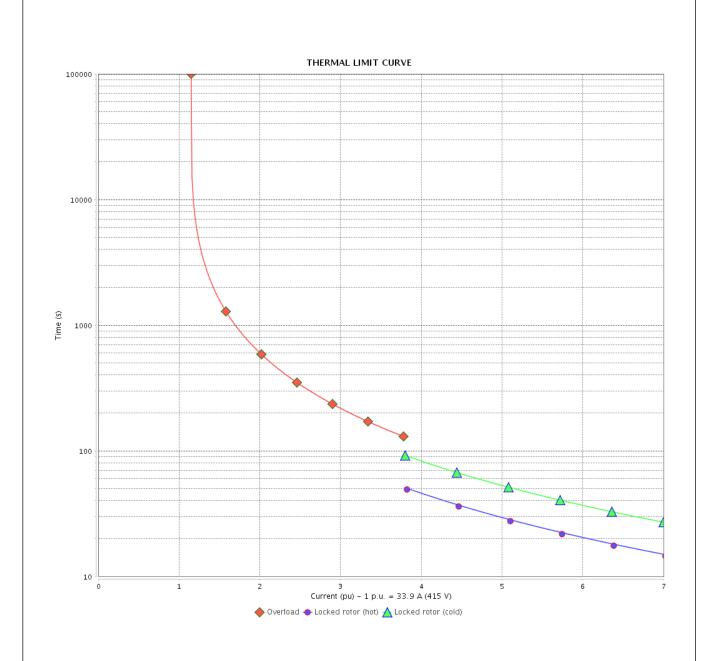


Customer	·				
	•				
Product line	: NEMA Premium Efficiency	Three- F	Product code :	11715659	
	Phase	(Catalog # :	03018ET3E28	86JM-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 33.9 A	Moment of	inertia (J)	: 5.85 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 89.3 ft.lb : 260 %	Insulation of Service fac		: F : 1.00	
Breakdown torque	: 280 %	Temperatu		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant					
Cooling constant	Ohanna On		Dout	Ohl !	D-4-
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Three Phase Induction Motor - Squirrel Cage



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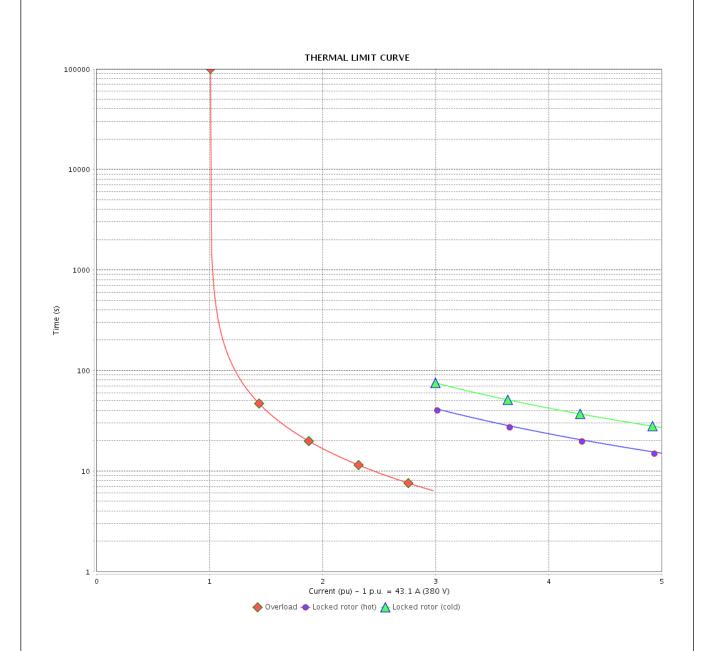


Customer	:					
Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	11715659	
		hase		Catalog # :	03018ET3E28	86 IM-W/22
				Catalog # .	03010E13E20	003101-0022
Performance		80 V 50 Hz 4P IE1	1			
Rated current LRC	: 43 : 5.	3.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	09 ft.lb	Insulation	class	: F	
Locked rotor torque		70 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed		90 % 445 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant						
Cooling constant						
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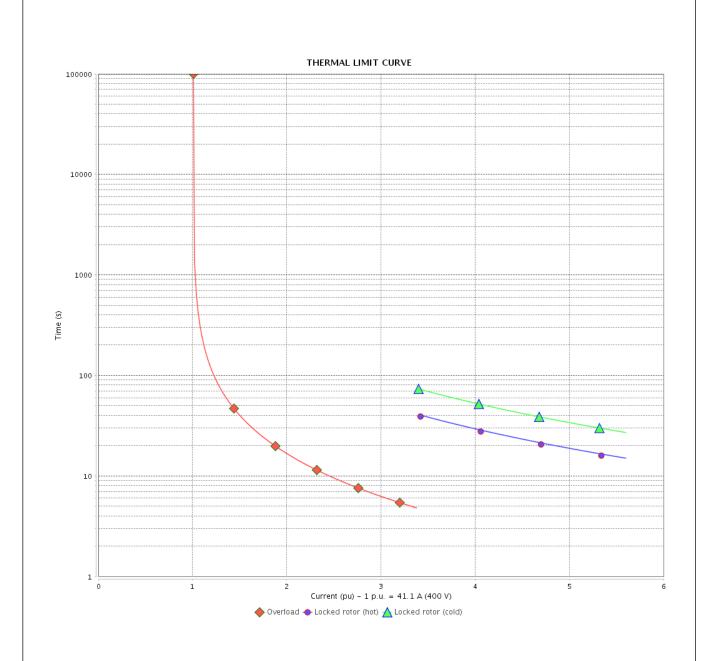


Product line : NEMA Premium Efficiency Three- Product code : 1171565 Phase	
Phase	
	59
Catalog #: 03018E	Г3E286JM-W22
Derformance 400 V 50 Hz 4D I54	
	ft Ib
Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.1 LRC : 5.6 Duty cycle : Cont.(S1	ft.lb
Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.1 LRC : 5.6 Duty cycle : Cont.(S1 Rated torque : 108 ft.lb Insulation class : F	ft.lb
Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.1 LRC : 5.6 Duty cycle : Cont.(S1 Rated torque : 108 ft.lb Insulation class : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K	ft.lb
Rated current : 41.1 A	ft.lb
Rated current : 41.1 A	ft.lb
Rated current : 41.1 A	1)
Rated current : 41.1 A	ft.lb
Rated current : 41.1 A	1)

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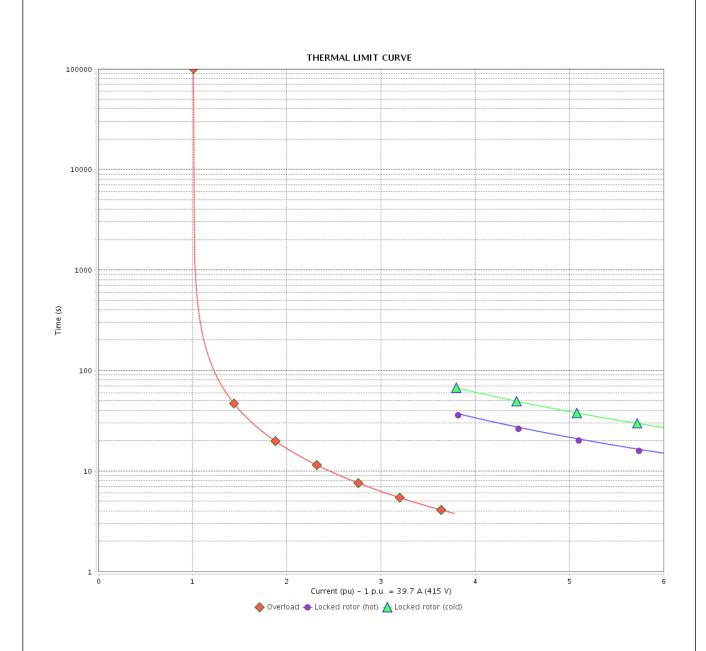


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11715659	
		Catalog #:	03018ET3E286	JM-W22
Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.7 A : 6.0 : 108 ft.lb : 220 % : 240 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.85 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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Product line : NEMA Premium Efficiency Three-

Phase

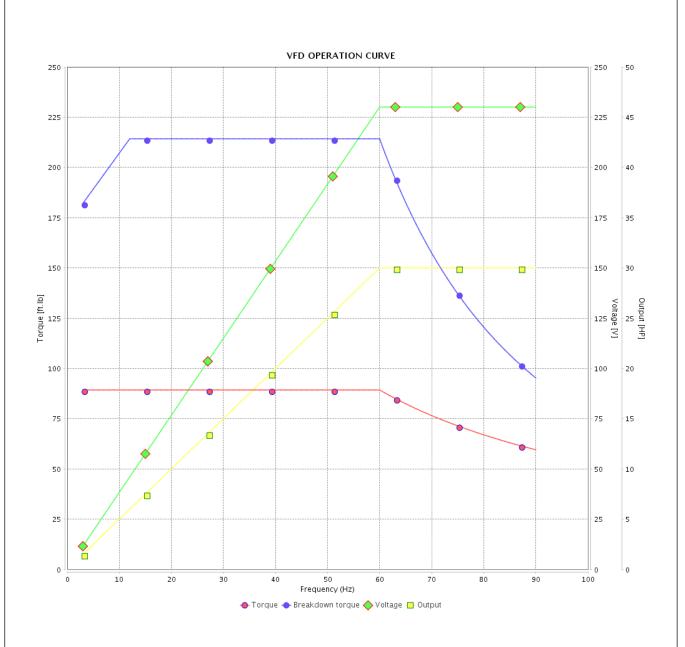
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Performance		: 230/460 V 60 Hz 4	.P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue e	: 70.2/35.1 A : 6.1 : 89.3 ft.lb : 240 % : 240 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summ	ary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

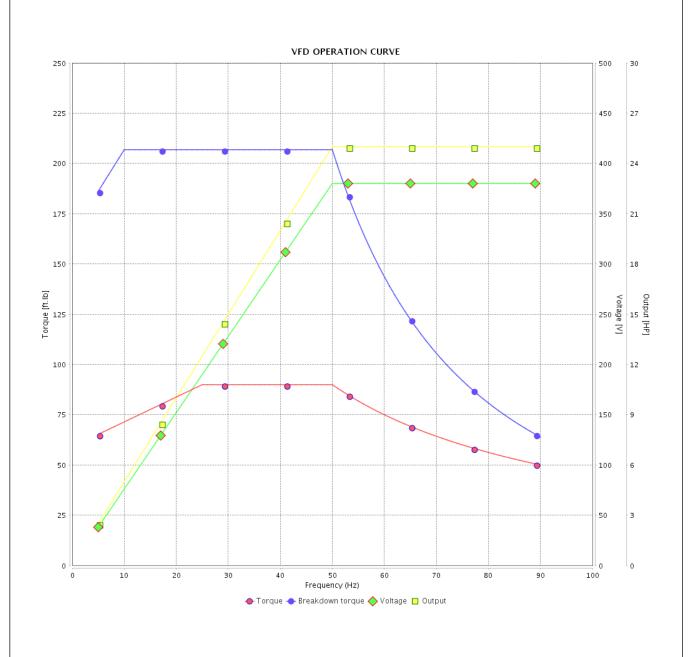


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

Catalog #: 03018ET3E286JM-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 3	5.7 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	9.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	.00 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	29 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	460 rpm	Design		: B	
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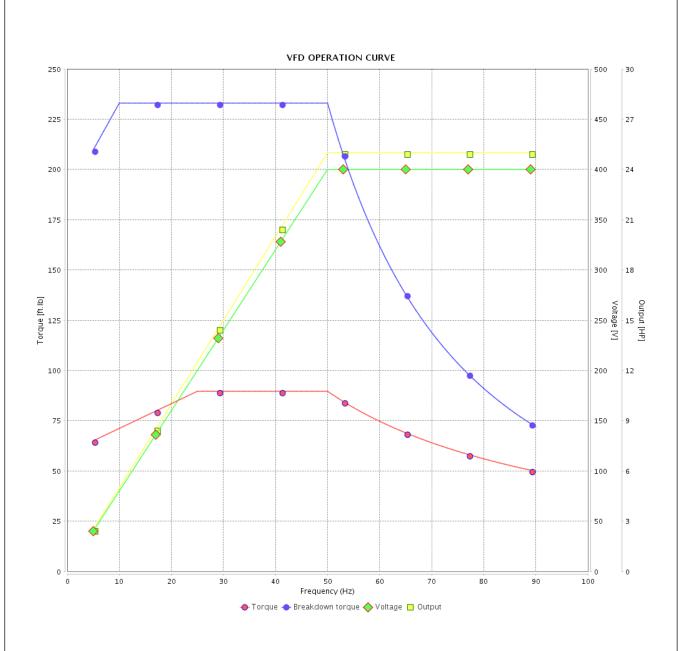
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11715659

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Performance : 400 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : 89.6 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



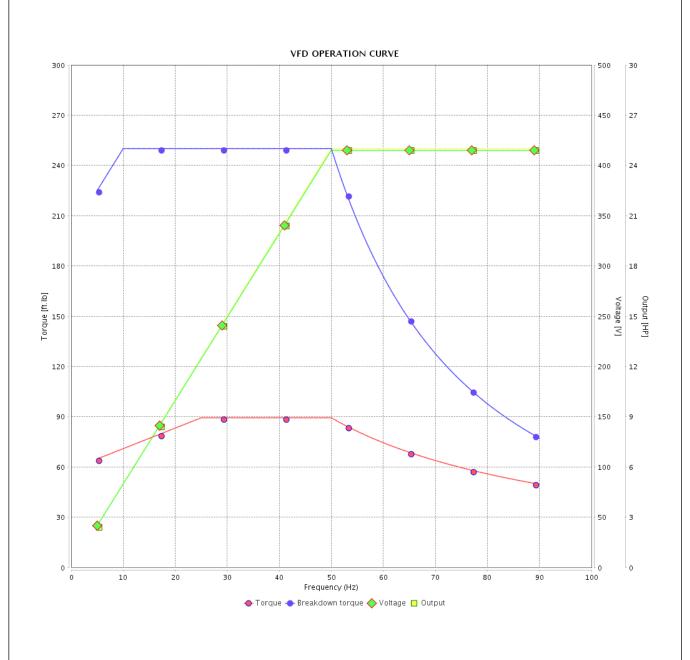
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286JM-W22

11715659



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 3	33.9 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	39.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	260 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	280 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1470 rpm	Design		: B	
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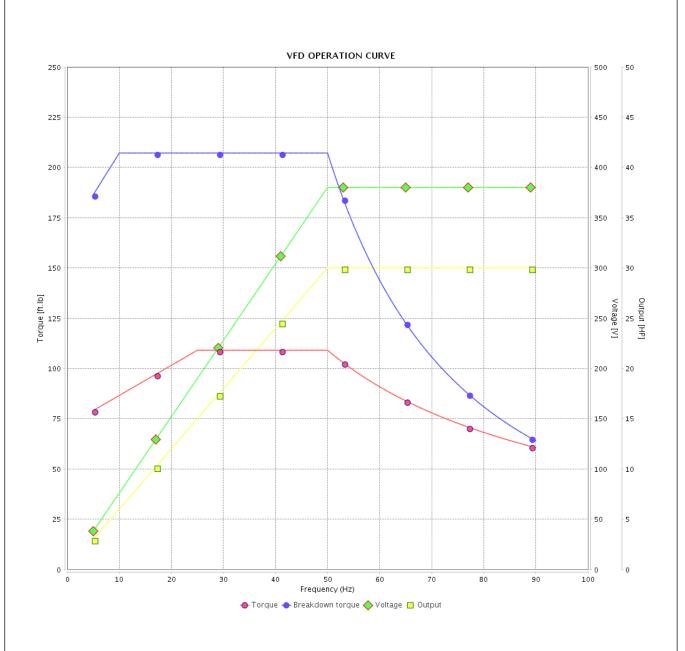
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11715659

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.0 : 109 ft.lb : 170 % : 190 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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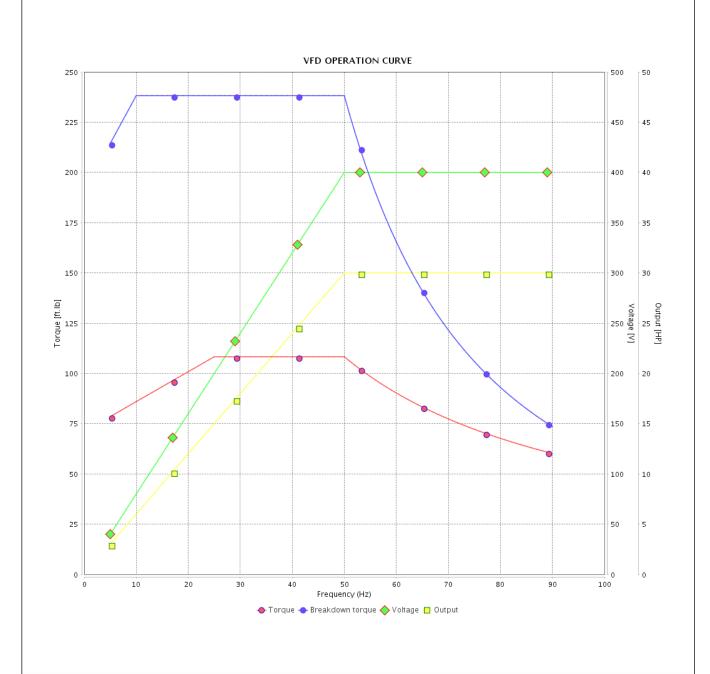


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Product line : NEMA Premium Efficiency Three- Product code : 11715659

Phase

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Performance		: 400 V 50 Hz 4P IE1				
Rated current		1.1 A Moment of inertia (J)		: 5.85 sq.ft.lb		
LRC	:	5.6	Duty cycle		: Cont.(S1)	
Rated torque	:	108 ft.lb	ft.lb Insulation class		:F	
Locked rotor torqu	ue :	190 %	Service factor		: 1.00	
Breakdown torque	e :	220 %	Temperati	Temperature rise		
Rated speed	:	1455 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Pr

Phase

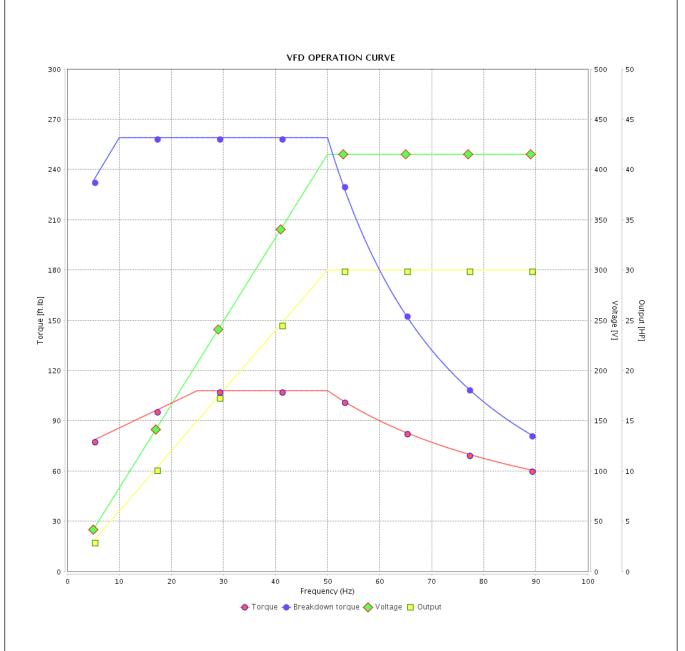
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Performance : 415 V 50 Hz 4P IE2 Rated current : 39.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class : 108 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

