DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13469729

00336ET3E145JM-W22 Catalog #:

Frame : 143/5JM 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 : 56.6 lb

Protection degree	е	: IP55		Momer	nt of inertia (J)) : C	0.0605 sq.ft.lb	
Design		: B						
Output [HP]		3	2	2	2	3	3	3
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13
L. R. Amperes [A]		60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3
LRC [A]		8.1x(Code J)	8.6x(Code L)	9.2x(Code	9.5x(Code	6.1x(Code	6.7x(Code H)	7.1x(Code H)
				M)	M)	G)		
No load current [A]]	2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55
Rated speed [RPN	1]	3460	2890	2905	2910	2820	2840	2850
Slip [%]		3.89	3.67	3.17	3.00	6.00	5.33	5.00
Rated torque [ft.lb]		4.55	3.63	3.62	3.61	5.59	5.55	5.53
Locked rotor torqu	e [%]	330	400	459	490	260	300	320
Breakdown torque	[%]	360	400	459	509	260	300	330
Service factor		1.25	1.25	1.00	1.00	1.25	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		25s (cold)	25s (cold)	23s (cold)	23s (cold)	25s (cold)	23s (cold)	23s (cold)
		14s (hot)	14s (hot)	13s (hot)	13s (hot)	14s (hot)	13s (hot)	13s (hot)
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	85.2	80.8	80.9	80.9	83.9	84.0	84.4
Efficiency (%)	50%	85.5	81.9	82.0	82.2	84.0	84.5	85.0
Linciency (70)	75%	86.5	84.0	84.4	84.8	85.0	85.5	86.0
	100%	86.5	84.8	85.3	85.9	84.6	85.6	86.2
	25%	0.47	0.41	0.37	0.34	0.54	0.49	0.45
Power Factor	50%	0.70	0.63	0.58	0.55	0.76	0.72	0.69
FUWEI FACIOI	75%	0.81	0.76	0.72	0.69	0.85	0.82	0.80
	100%	0.86	0.83	0.80	0.77	0.89	0.87	0.86

Drive end Non drive end Foundation loads

6206 ZZ Bearing type 6204 ZZ Max. traction : 130 lb Sealing V'Ring V'Ring Max. compression : 187 lb

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



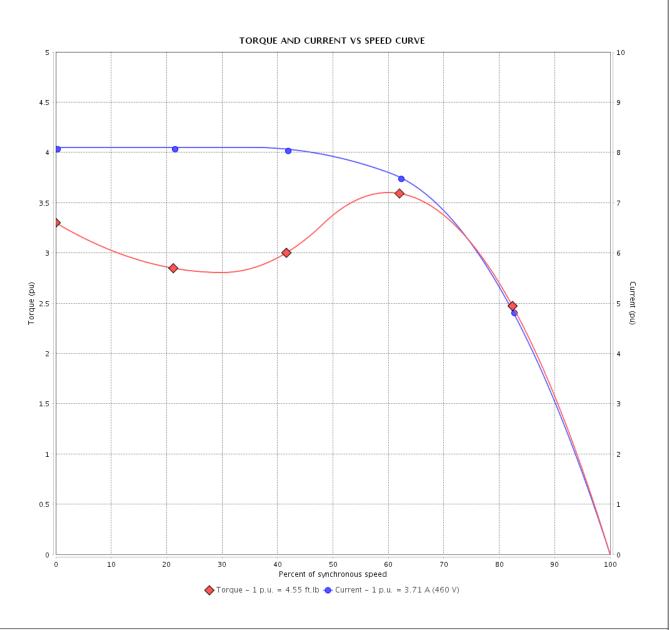
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 13469729

Catalog #: 00336ET3E145JM-W22



Performance : 230/460 V 60 Hz 2P Rated current : 7.42/3.71 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 4.55 ft.lb Service factor Locked rotor torque : 330 % : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 3460 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/36	



Revision

Page

3/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13469729 Catalog #: 00336ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.63 ft.lb ◆ Current - 1 p.u. = 3.24 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 3.24 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 400 % Locked rotor torque Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

Performed by Checked by

Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage

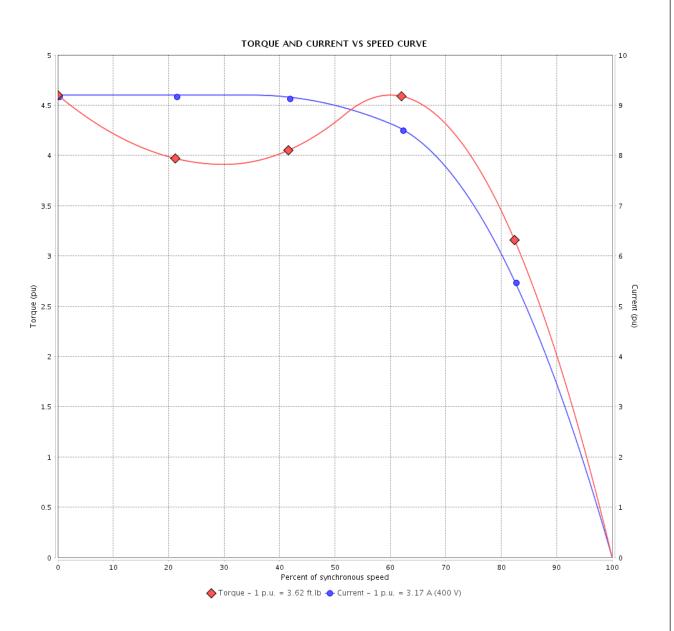


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 13469729

Catalog #: 00336ET3E145JM-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 3.17 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.62 ft.lb Service factor Locked rotor torque : 459 % : 1.00 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	



Revision

Page

5/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13469729 Catalog #: 00336ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE Current Torque (pu) 40 50 60 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.61 ft.lb ◆ Current - 1 p.u. = 3.15 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 3.15 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.61 ft.lb : 490 % Locked rotor torque Service factor : 1.00 Breakdown torque : 509 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Locked rotor time : 23s (cold) 13s (hot) Date Rev. Performed Checked **Changes Summary**

Performed by Checked by

Date

13/04/2022

Three Phase Induction Motor - Squirrel Cage



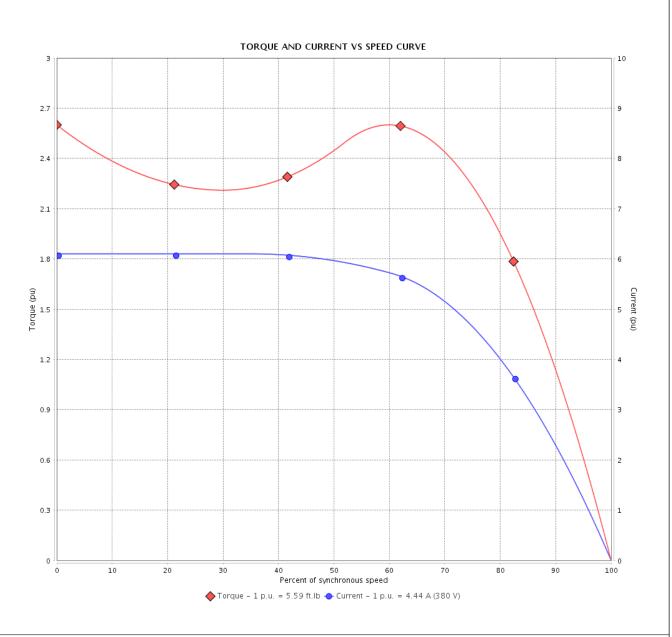
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13469729

Catalog #: 00336ET3E145JM-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.44 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.59 ft.lb : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2820 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13469729 Catalog #: 00336ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.1 Torque (pu) 1.2

Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 4.26 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 5.55 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2840 rpm	Design	: B

40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 5.55 ft.lb ♦ Current – 1 p.u. = 4.26 A (400 V)

Locked rotor time : 23s (cold) 13s (hot)

0.6

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage

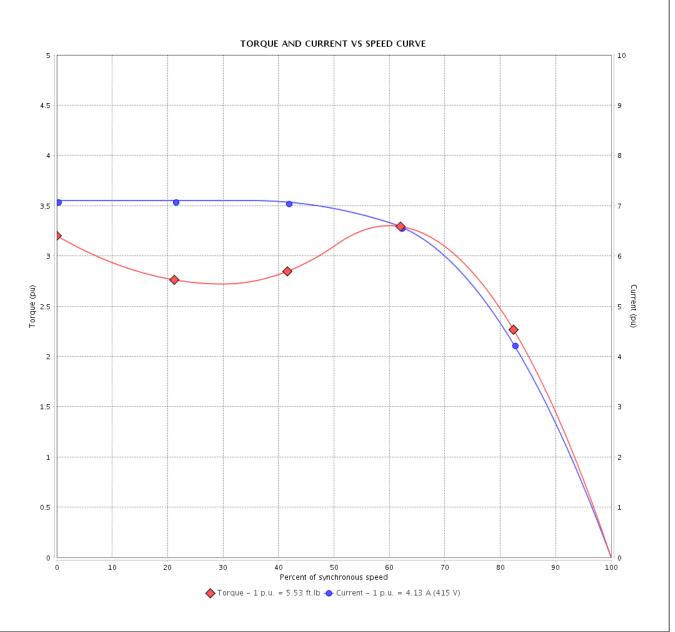


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.13 A : 7.1 : 5.53 ft.lb : 320 % : 330 % : 2850 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Locked rotor time	: 23s (cold) 13s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage

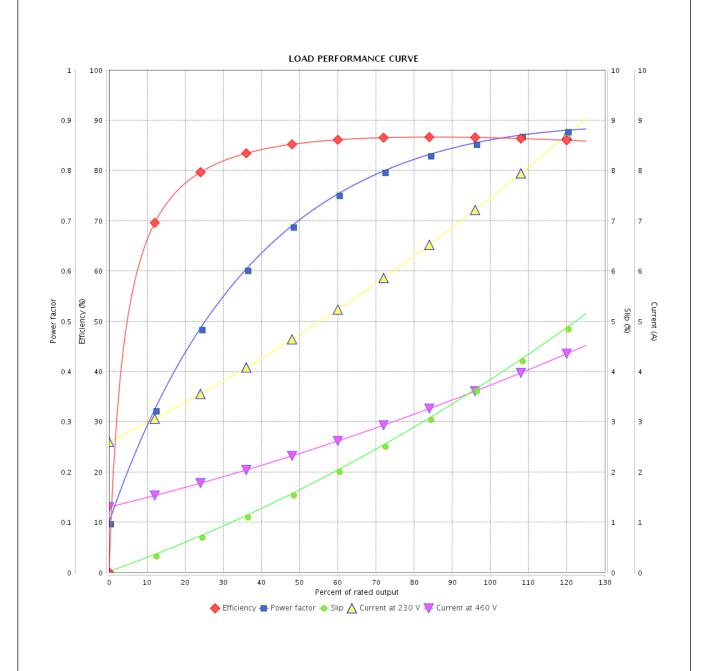


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22



Performance		230/460 V 60 Hz 2P				
Rated current	: 7	7.42/3.71 A	Moment o	f inertia (J)	: 0.0605 sq.ft	.lb
LRC	: 8	3.1	Duty cycle)	: Cont.(S1)	
Rated torque	-	4.55 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 3	330 %	Service fa	ctor	: 1.25	
Breakdown torqu	ue : C	360 %	Temperati	ıre rise	: 80 K	
Rated speed	::	3460 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 36	

Three Phase Induction Motor - Squirrel Cage



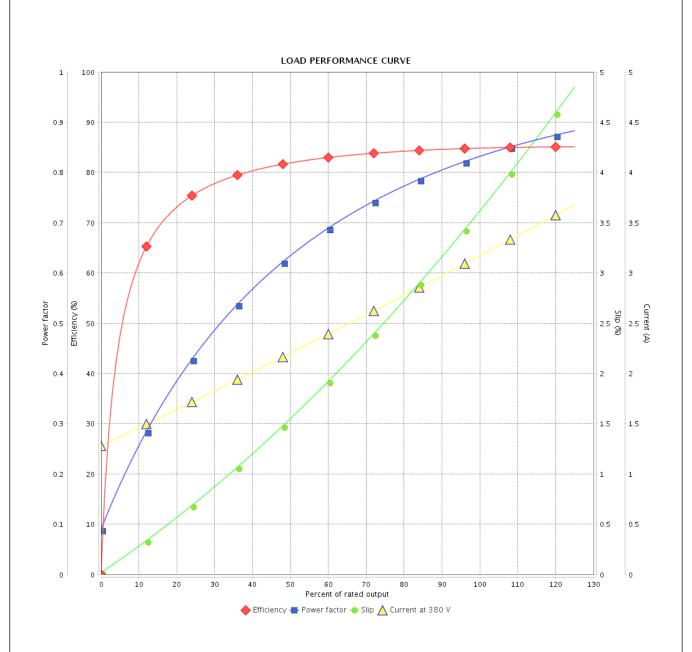
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22

10/36



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.24 A : 8.6 : 3.63 ft.lb : 400 % : 400 % : 2890 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature I Design	SS .	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



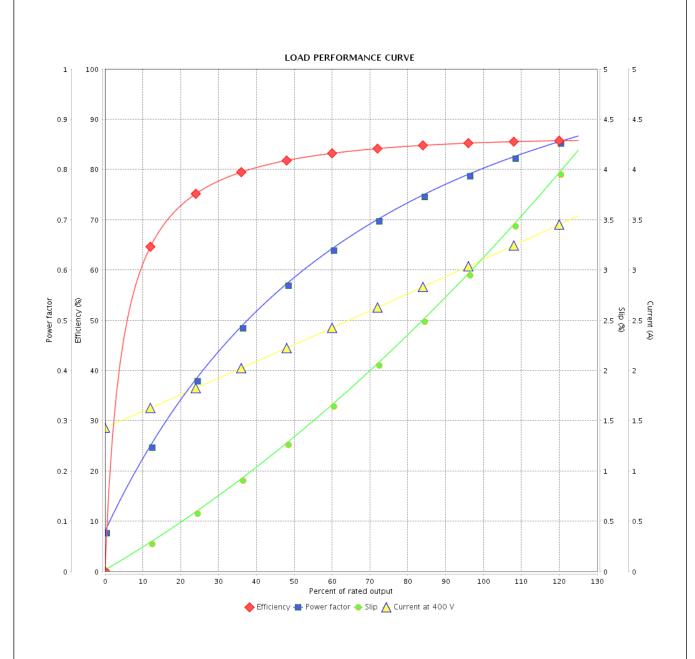
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22

11/36



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.17 A : 9.2 : 3.62 ft.lb : 459 % : 459 %	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.00 : 80 K	lb
Rated speed	: 2905 rpm	Design	100	: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer :

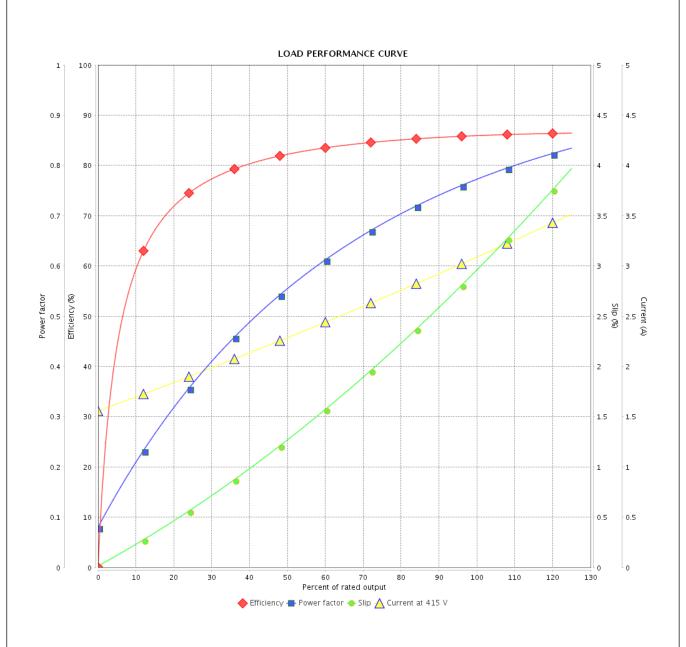
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13469729

Catalog #: 00336ET3E145JM-W22

12/36



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15 A : 9.5 : 3.61 ft.lb : 490 % : 509 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Rev.	Changes Summary	Performed	d Checked	Date
Performed by				
Checked by			Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 13469729

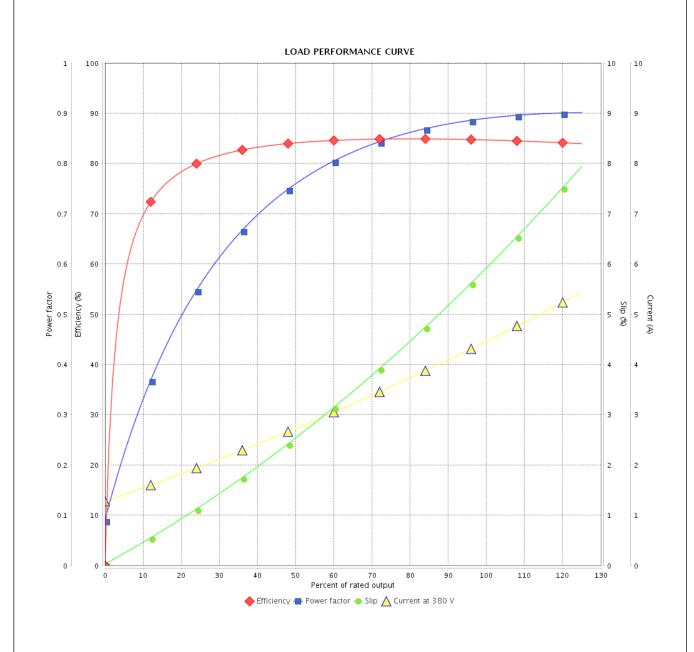
Phase

Catalog #: 00336ET3E145JM-W22

Page

13 / 36

Revision



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 4.44 A : 6.1 : 5.59 ft.lb : 260 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed Rev.	: 2820 rpm Changes Summary	Design	Performed	: B Checked	Date
Performed by	Changes Cummary		renomied	Offected	Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

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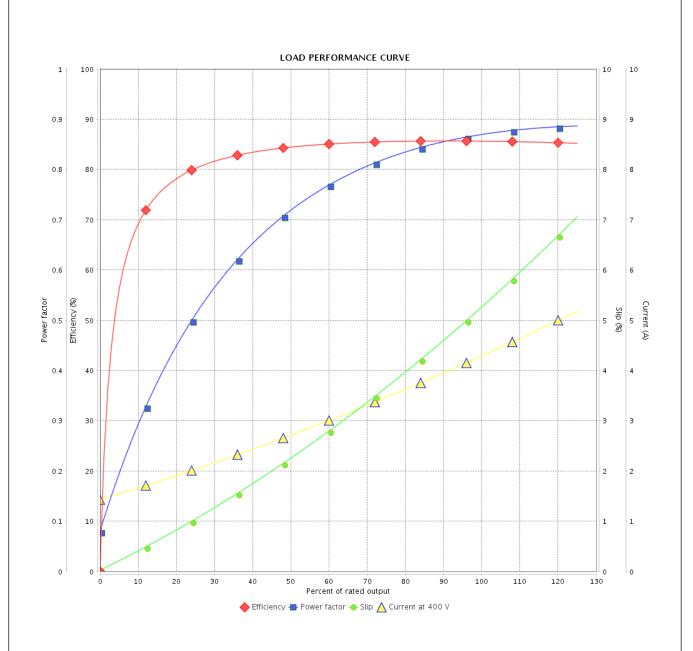
Catalog #: 00336ET3E145JM-W22

13469729

Page

14/36

Revision



Performance	: 40	00 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 5. que : 30 ie : 30	: 4.26 A : 6.7 : 5.55 ft.lb : 300 % : 300 % : 2840 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							

Three Phase Induction Motor - Squirrel Cage

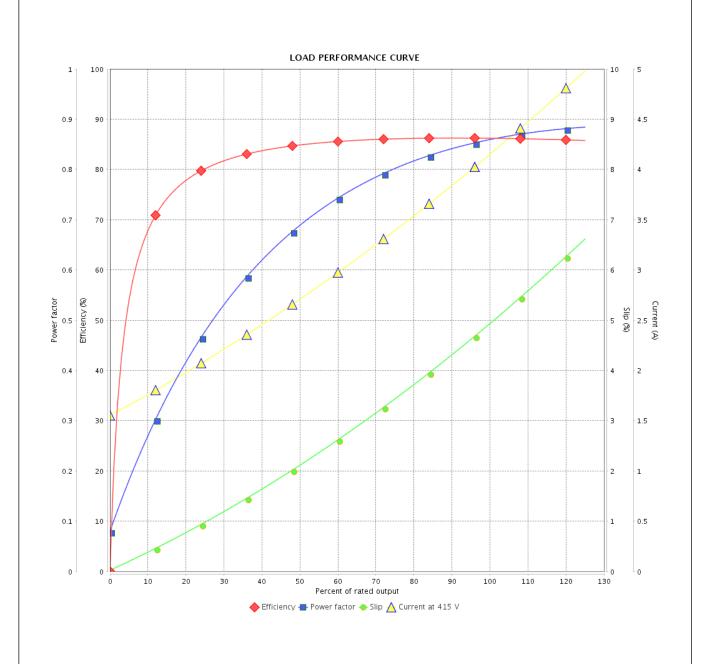


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22



							
Performance	: 4	15 V 50 Hz 2P IE3					
Rated current	: 4	.13 A	Moment o	f inertia (J)	: 0.0605 sq.ft	.lb	
LRC	: 7	.1	Duty cycle	;	: Cont.(S1)		
Rated torque	: 5	.53 ft.lb	Insulation	class	: F		
Locked rotor torqu	ue : 3	20 %	Service fa	ctor	: 1.00		
Breakdown torque		30 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 2	850 rpm	Design		: B		
Rev.		Changes Summary	/	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/04/2022	1			15 / 36		

Three Phase Induction Motor - Squirrel Cage

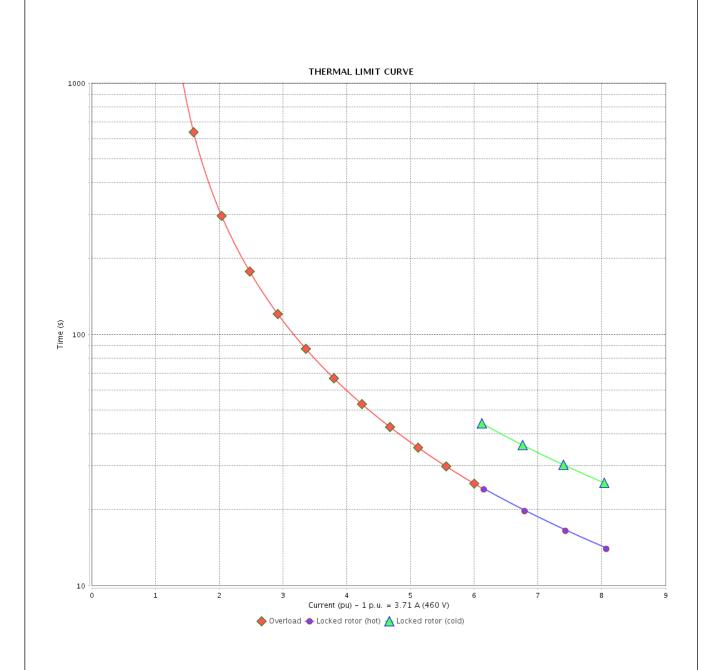


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		230/460 V 60 Hz 2P				
Rated current LRC Rated torque	:	7.42/3.71 A 8.1 4.55 ft.lb	Moment of Duty cycle Insulation		: 0.0605 sq.ft.ll : Cont.(S1) : F	0
Locked rotor tord	que :	330 %	Service fa	ictor	: 1.25	
Breakdown torqu Rated speed	ie :	360 % 3460 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				16 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

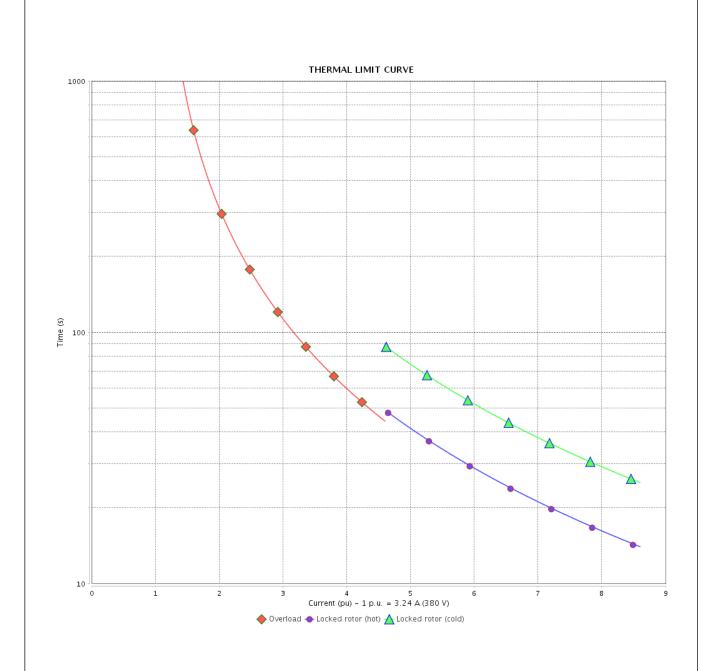


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 3.24 A : 8.6 : 3.63 ft.lb	Duty cycle Insulation	class	: 0.0605 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue	: 400 % : 400 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2890 rpm	Design		: B	
Heating constan Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				18 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

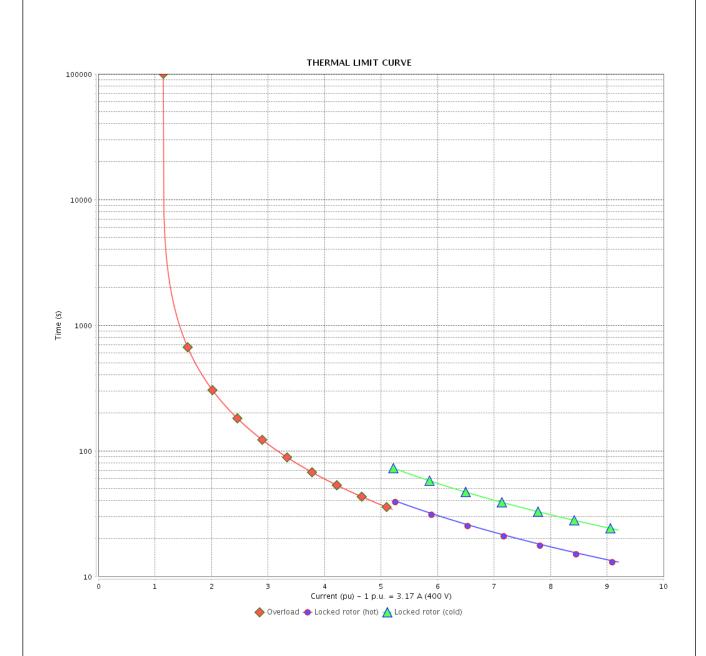


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current		: 3.17 A	Moment of	of inertia (J)	: 0.0605 sq.ft.ll	b
LRC Rated torque		: 9.2 : 3.62 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Rated forque Locked rotor tord		: 459 %	Service fa		: 1.00	
Breakdown torqu Rated speed	ue	: 459 % : 2905 rpm	Temperat Design		: 80 K : B	
Heating constan	t					
Cooling constan	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				20 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

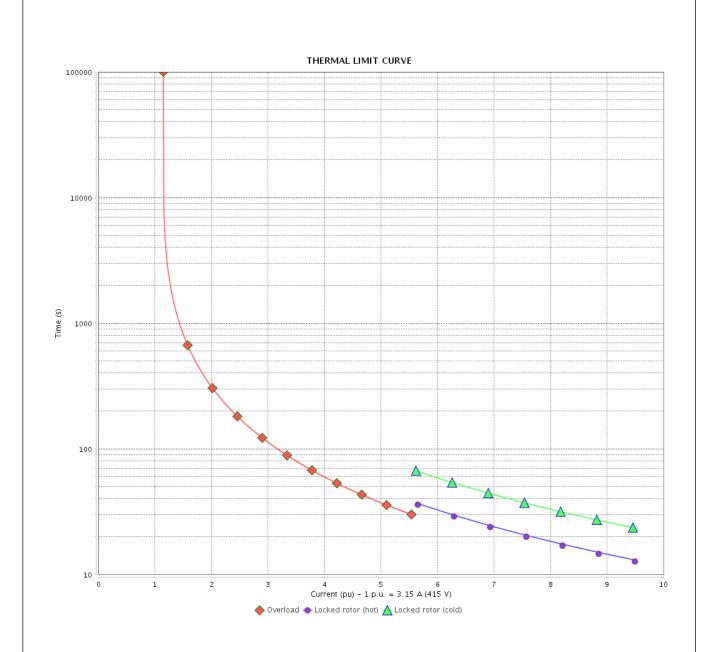


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 3.15 A : 9.5 : 3.61 ft.lb	Duty cycle Insulation	class	: 0.0605 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue	: 490 % : 509 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				22 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

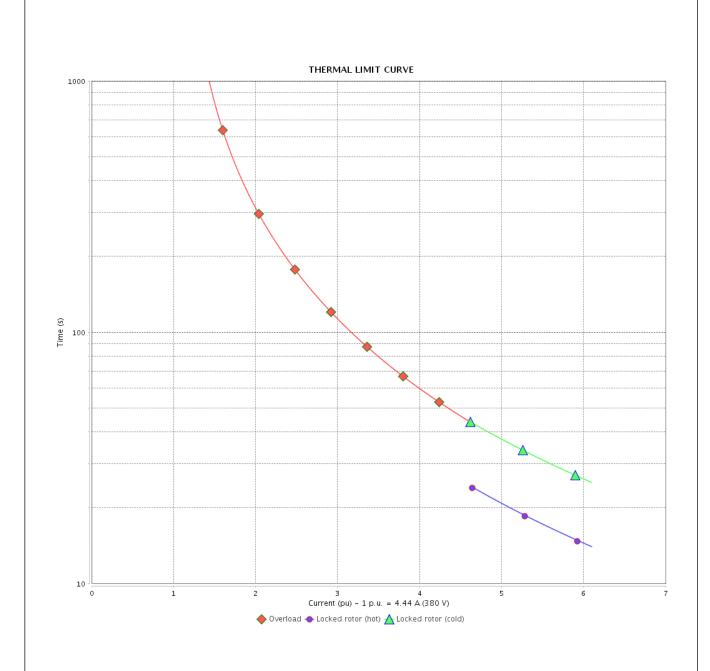


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque	:	: 4.44 A : 6.1 : 5.59 ft.lb	Duty cycle Insulation	class	: 0.0605 sq.ft.I : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ie :	: 260 % : 260 % : 2820 rpm	Service fa Temperat Design		: 1.25 : 80 K : B	
Heating constan	t					
Cooling constant	t	Changes Summany		Performed	Checked	Date
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Performed by					_	_
Checked by	13/04/2022				Page 24 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

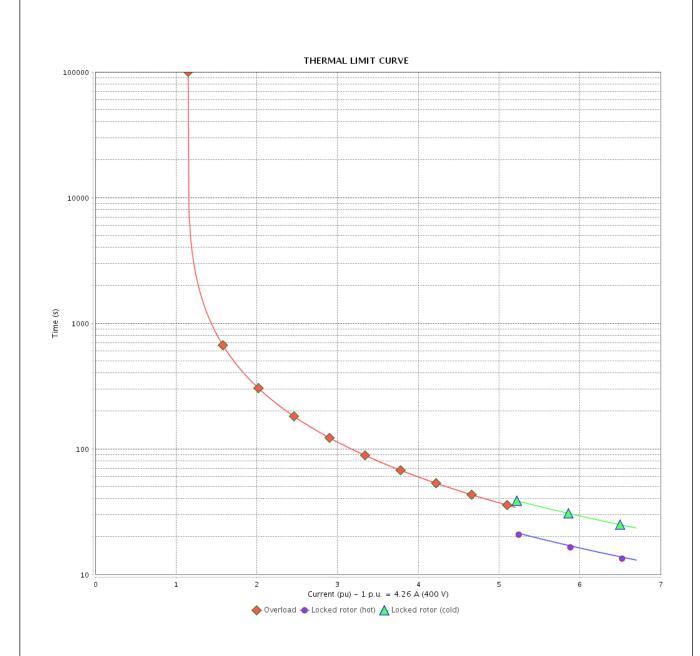


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC	:	: 4.26 A : 6.7	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.55 ft.lb : 300 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	: 300 % : 2840 rpm	Temperat Design		: 80 K : B	
Heating constan	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	13/04/2022				Page 26 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

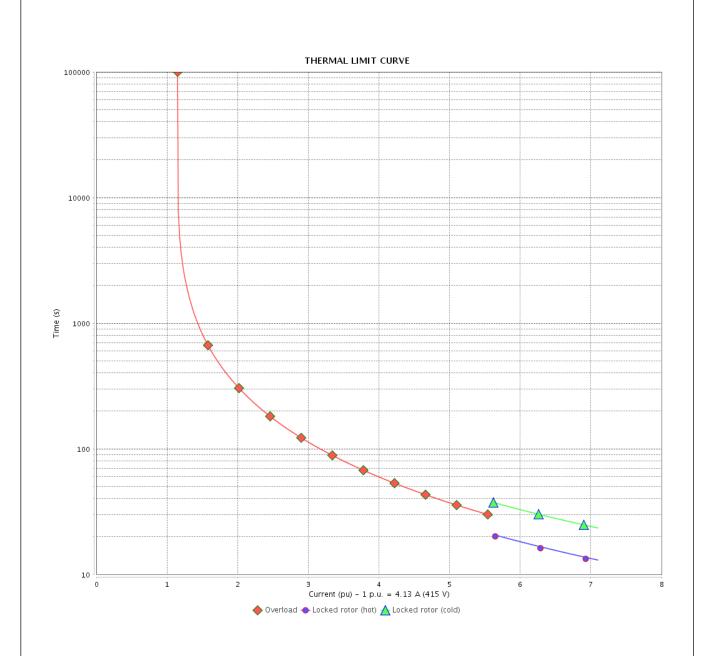


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13469729 00336ET3E1	45JM-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 4.13 A : 7.1 : 5.53 ft.lb	Moment of Duty cycle Insulation		: 0.0605 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord	que	: 320 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 330 % : 2850 rpm	Temperat Design	ure risė	: 80 K : B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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Performed by					<u>'</u>	
Checked by	13/04/2022				Page 28 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	13/04/2022			29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

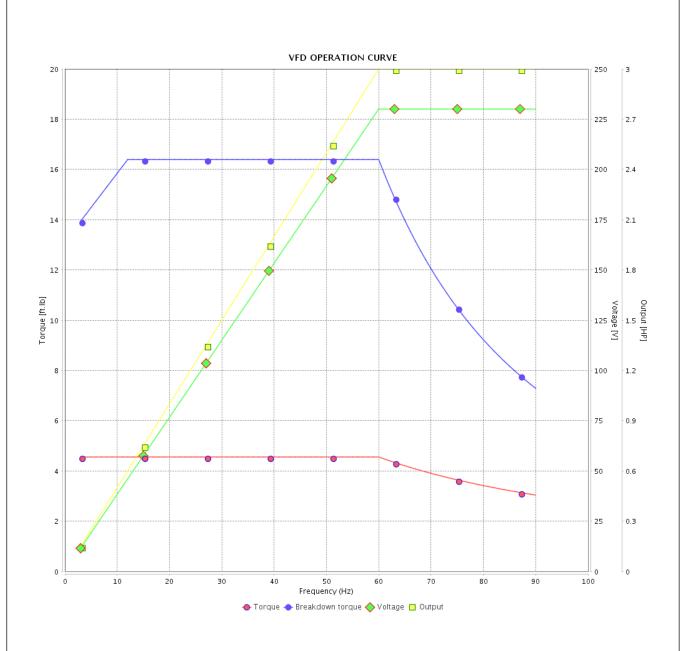
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13469729

Catalog #: 00336ET3E145JM-W22

30 / 36



Performance		: 230/460 V 60 Hz 2P)			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 7.42/3.71 A : 8.1 : 4.55 ft.lb : 330 % : 360 % : 3460 rpm	Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by Checked by					Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage

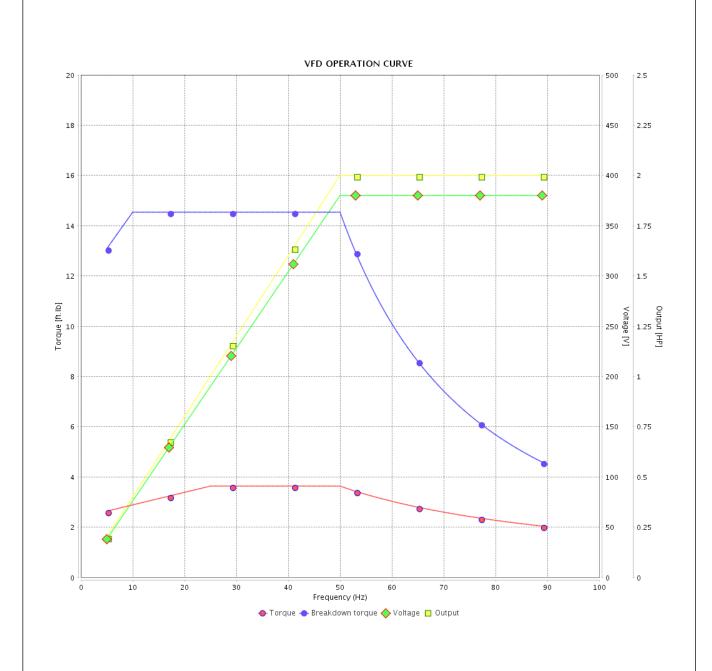


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 3	24 A Moment of inertia (J)		f inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 8	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 3	.63 ft.lb	Insulation	class	: F	
Locked rotor torque	e :4	00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 4	00 %	6 Temperature rise		: 80 K	
Rated speed	: 2	890 rpm	Design		: B	
Rev.		Changes Summary	<u>'</u>	Performed	Checked	Date
Performed by						
-					_	5
Checked by					Page	Revision
Date	13/04/2022				31 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

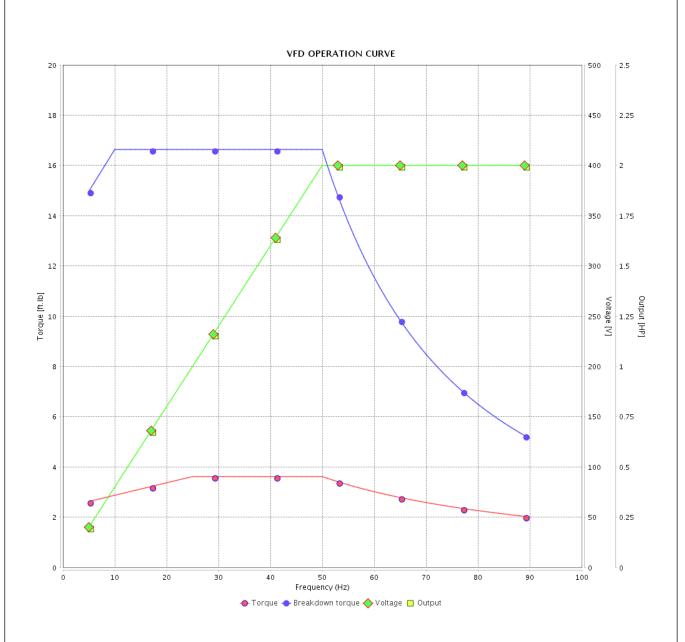
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 13469729

Catalog #: 00336ET3E145JM-W22

32 / 36



				,	
Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.17 A : 9.2 : 3.62 ft.lb : 459 % : 459 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		erformed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



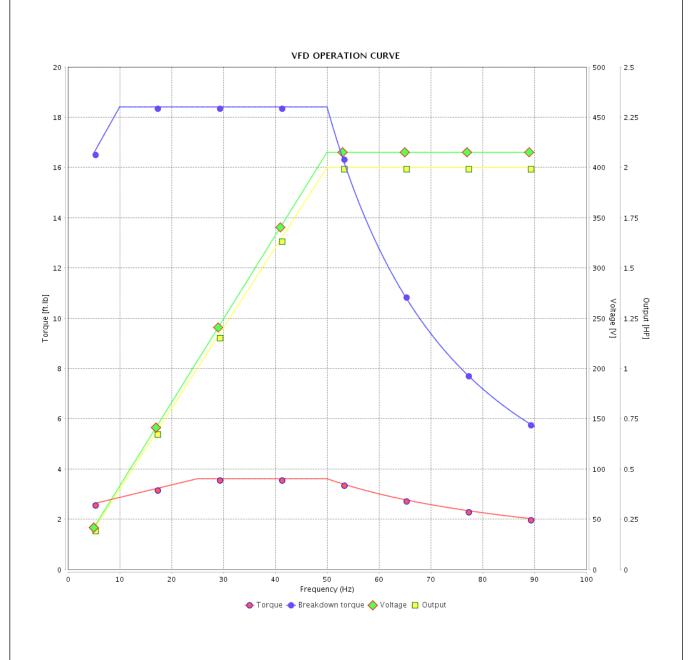
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22

33 / 36



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.15 A : 9.5 : 3.61 ft.lb : 490 % : 509 % : 2910 rpm	• • • • • • • • • • • • • • • • • • • •		: 1.00 : 80 K	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

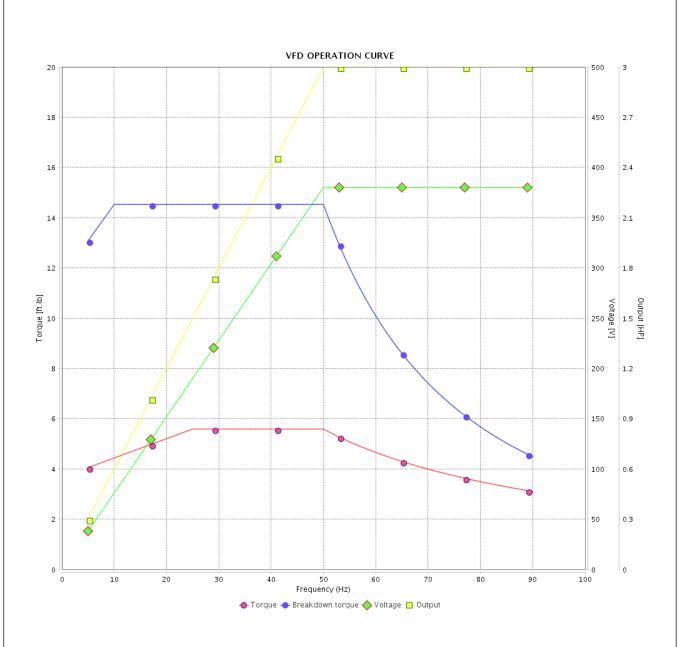
Product code: 13469729

Catalog #: 00336ET3E145JM-W22

Page

34 / 36

Revision



Performance	: 3	880 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 5 jue : 2	1.44 A 5.1 5.59 ft.lb 260 % 260 % 2820 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 0.0605 sq.ft.I : Cont.(S1) : F : 1.25 : 80 K : B	b
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

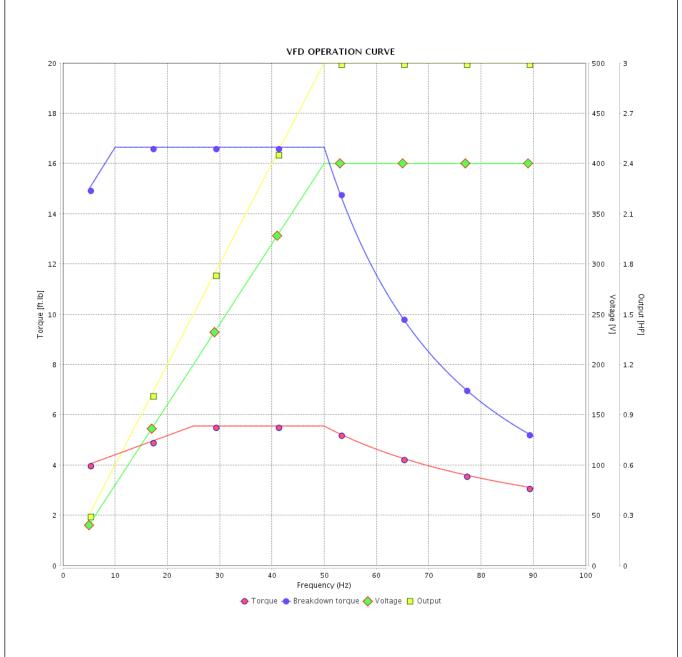


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Product line : NEMA Premium Efficiency Three- Product code : 13469729

Phase

Catalog #: 00336ET3E145JM-W22



Performance	:	400 V 50 Hz 2P IE2					
Rated current	rent : 4.26 A Mome		Moment o	f inertia (J)	: 0.0605 sq.ft.	lb	
LRC	:	6.7	Duty cycle	;	: Cont.(S1)		
Rated torque	:	5.55 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	300 %	Service fa	ctor	: 1.00		
Breakdown torque	:	300 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	2840 rpm	Design		: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/04/2022				35 / 36		

Three Phase Induction Motor - Squirrel Cage



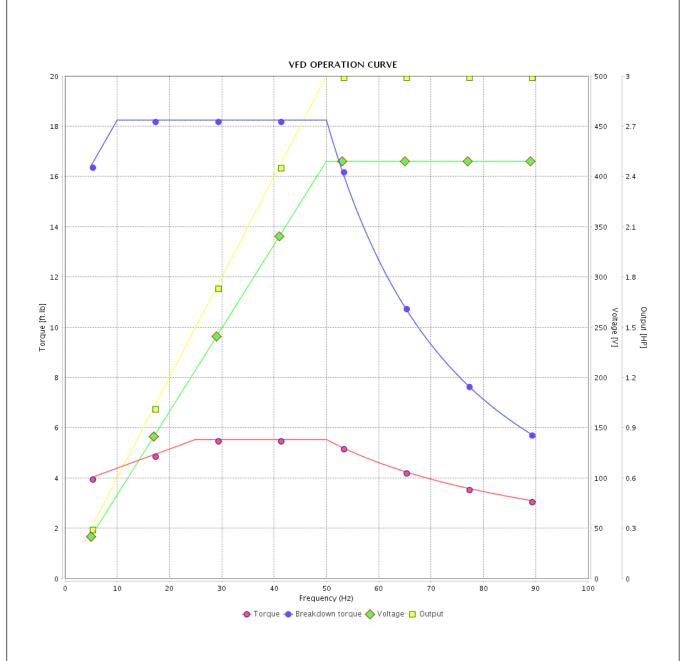
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336ET3E145JM-W22

13469729



Performance		: 415 V 50 Hz 2P IE3					
Rated current	:-	: 4.13 A Mo		of inertia (J)	: 0.0605 sq.ft.lb		
LRC	:	.1 Duty cycle		: Cont.(S1)			
Rated torque	:	5.53 ft.lb	53 ft.lb Insulation class		: F		
Locked rotor tord	que :	320 %	Service factor		: 1.00		
Breakdown torqu	ie :	330 %	Temperat	Temperature rise		: 80 K	
Rated speed	:	2850 rpm	Design		: B		
Rev. Change		Changes Summary	nges Summary		Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	13/04/2022				36 / 36		

