DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11524270

Phase

Catalog #: 00218ET3E145JM-W22

Frame : 143/5JM Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)

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

Altitude : 1000 m a s I Approx weight³ : 54 1 lb

Altitude		: 1000 m.a.	S.I.	Approx	k. weight ^a	: 5	4.1 lb	
Protection degre	е	: IP55		Momer	nt of inertia (J) : ().1561 sq.ft.lb	
Design		: B						
Output [HP]		2	1.5	1.5	1.5	2	2	2
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]		5.52/2.76	2.57	2.57	2.56	3.33	3.22	3.14
L. R. Amperes [A]		45.8/22.9	21.1	22.4	21.5	20.0	21.3	22.9
LRC [A]		8.3x(Code L)	8.2x(Code L)	8.7x(Code	8.4x(Code	6.0x(Code H)	6.6x(Code J)	7.3x(Code K)
				M)	M)			
No load current [A		3.26/1.63	1.61	1.80	1.97	1.61	1.80	1.97
Rated speed [RPN	/ []	1750	1460	1465	1465	1435	1440	1450
Slip [%]		2.78	2.67	2.33	2.33	4.33	4.00	3.33
Rated torque [ft.lb]		6.00	5.40	5.38	5.38	7.32	7.29	7.24
Locked rotor torqu	e [%]	270	290	320	350	220	229	250
Breakdown torque	[%]	320	330	380	409	240	260	290
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		23s (cold)	32s (cold)	28s (cold)	27s (cold)	23s (cold)	21s (cold)	21s (cold)
		13s (hot)	18s (hot)	16s (hot)	15s (hot)	13s (hot)	12s (hot)	12s (hot)
Noise level ²		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	83.5	80.9	80.3	86.7	83.7	83.8
Efficiency (0/)	50%	85.5	84.0	82.0	81.4	85.5	84.0	84.0
Efficiency (%)	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0
	25%	0.32	0.31	0.27	0.25	0.39	0.35	0.32
Dawer Fast	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60
Power Factor	75%	0.70	0.69	0.64	0.61	0.78	0.74	0.72
	100%	0.79	0.77	0.73	0.71	0.83	0.80	0.79

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

Bearing type : 6206 ZZ 6204 ZZ Max. traction : 156 lb Sealing : V'Ring V'Ring Max. compression : 210 lb

Lubricant amount : -Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 5.85A SF 1.15 SFA 6.73A

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



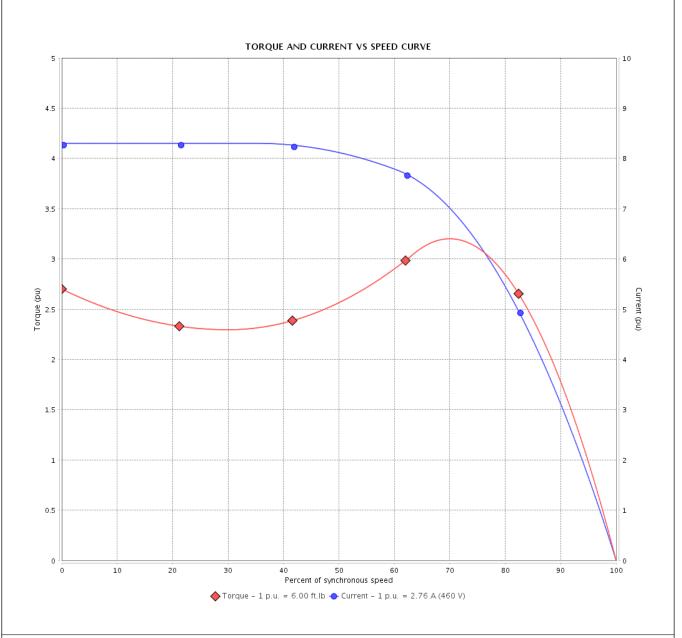
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11524270

Catalog #: 00218ET3E145JM-W22



Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11524270 Catalog #: 00218ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.40 ft.lb ◆ Current - 1 p.u. = 2.57 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.40 ft.lb : 290 % Locked rotor torque Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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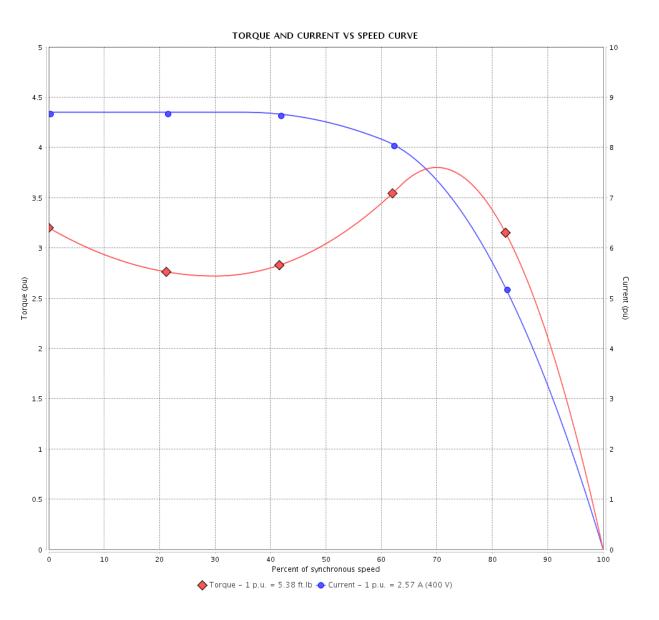
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11524270

Catalog #: 00218ET3E145JM-W22



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 2.57 A	Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8.7	Duty cycle	: Cont.(S1)	
Rated torque	: 5.38 ft.lb	Insulation class	: F	
Locked rotor torque	: 320 %	Service factor	: 1.25	
Breakdown torque	: 380 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11524270 Catalog #: 00218ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE

4									
3.5								\	
3									
2.5								\	\
2								<u> </u>	1
									$\setminus \setminus $
1.5									
1									
0.5									
0 0	10	20	30	40 Percent o	50 f synchronous spe	60 Ped	70	80	90 100

Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 2.56 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 5.38 ft.lb	Insulation class	:F ^
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 409 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

LOCKED TOLOT LITTLE	. 275 (60)	iu) 158 (110t)				
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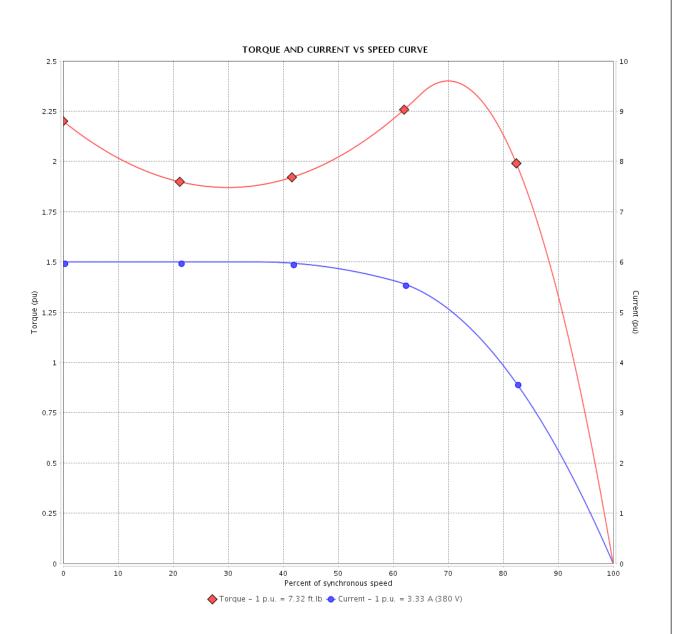
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00218ET3E145JM-W22

11524270



Performance : 380 V 50 Hz 4P IE1 Rated current : 3.33 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 7.32 ft.lb Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B

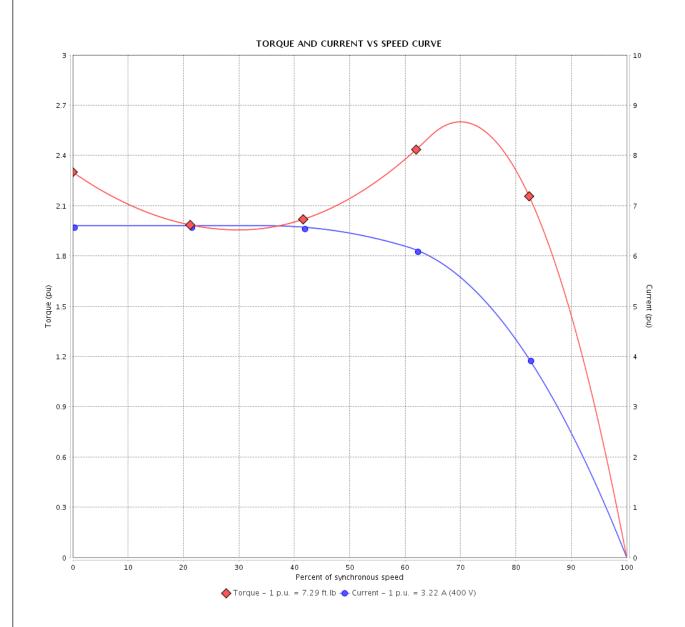
Locked rotor time : 23s (cold) 13s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11524270 Catalog #: 00218ET3E145JM-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 3.22 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 7.29 ft.lb Insulation class : F Rated torque : 1.25 Locked rotor torque : 229 % Service factor Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1440 rpm Design Locked rotor time : 21s (cold) 12s (hot)

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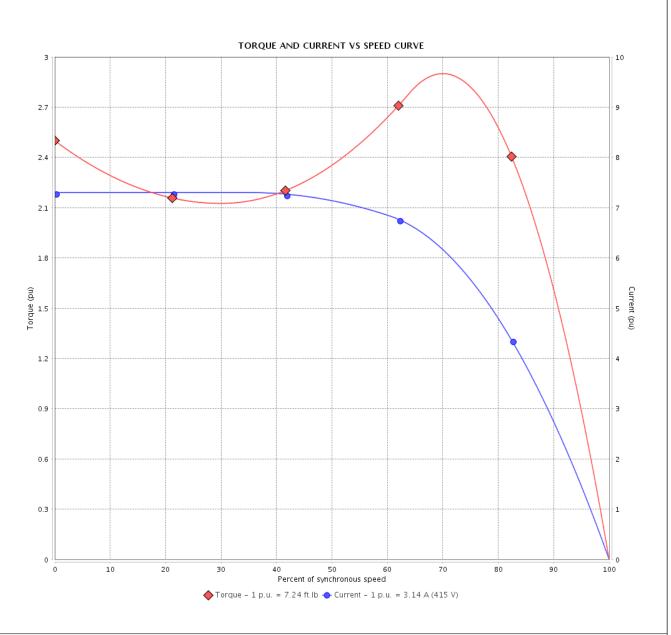
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11524270

Catalog #: 00218ET3E145JM-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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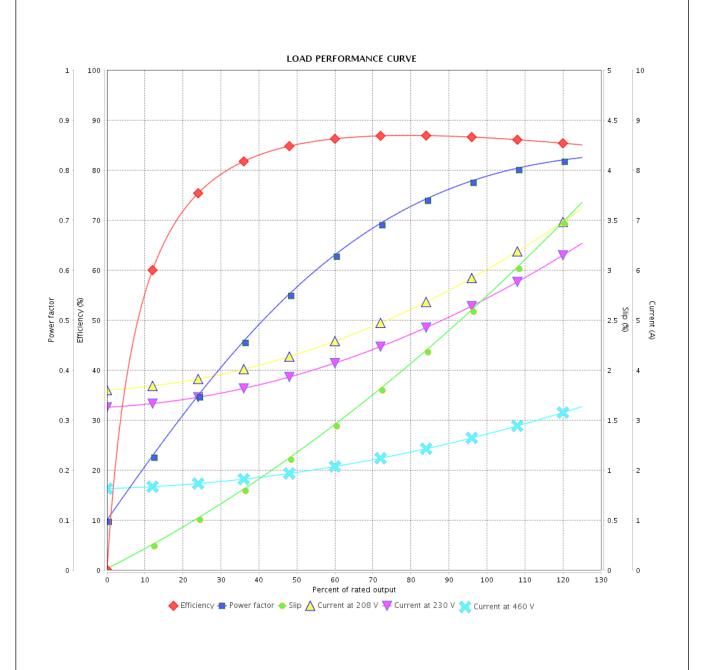


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11524270

Phase

Catalog #: 00218ET3E145JM-W22



Performance	: 230/460 V 60 Hz 4P					
Rated current	ent : 5.52/2.76 A Mon		Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	8.3	Duty cycle)	: Cont.(S1)	
Rated torque	: (6.00 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie ::	270 %	Service fa	ctor	: 1.25	
Breakdown torque : 320 %		320 %	Temperature rise		: 80 K	
Rated speed	:	1750 rpm	Design		: B	
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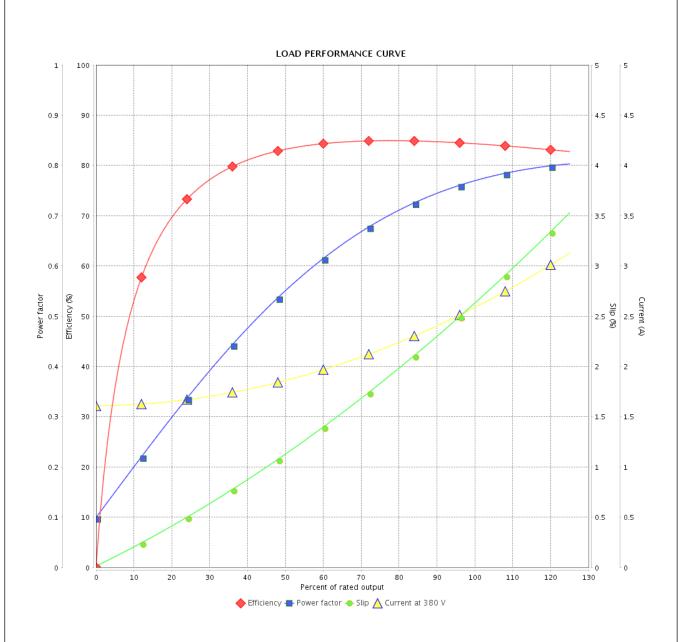
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Phase

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Performance	: 380 V 50 Hz 4P IE3						
Rated current	: 2.57 A	A Moment of inertia (J)		Moment of inertia (J)		: 0.1561 sq.ft.	lb
LRC	: 8.2	Duty cycle	•	: Cont.(S1)			
Rated torque	: 5.40 ft.lb	Insulation class		: F			
Locked rotor torque	: 290 %	Service factor		: 1.25			
Breakdown torque	: 330 %	Temperature rise Design		: 80 K			
Rated speed	: 1460 rpm			: B			
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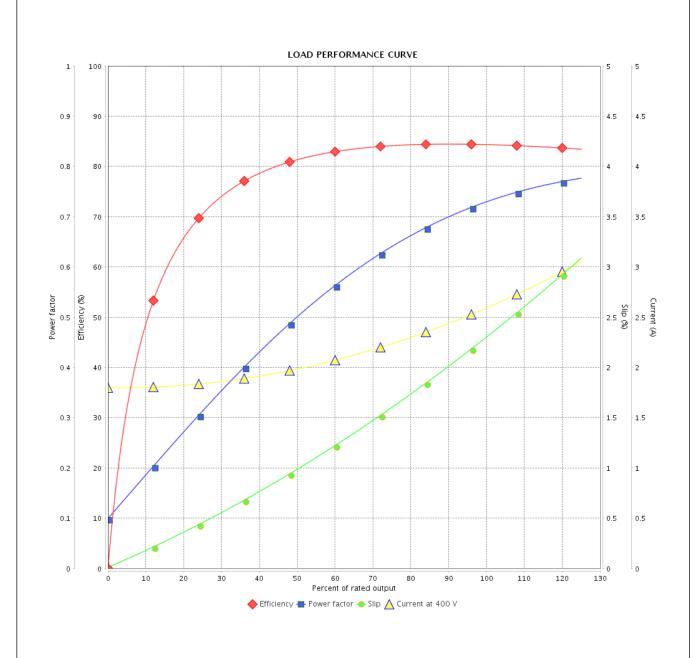
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Performance	: 400 V 50 Hz 4P IE3					
Rated current : 2.57 A LRC : 8.7 Rated torque : 5.38 ft.lb Locked rotor torque : 320 % Breakdown torque : 380 % Rated speed : 1465 rpm		` '		: 1.25 : 80 K		
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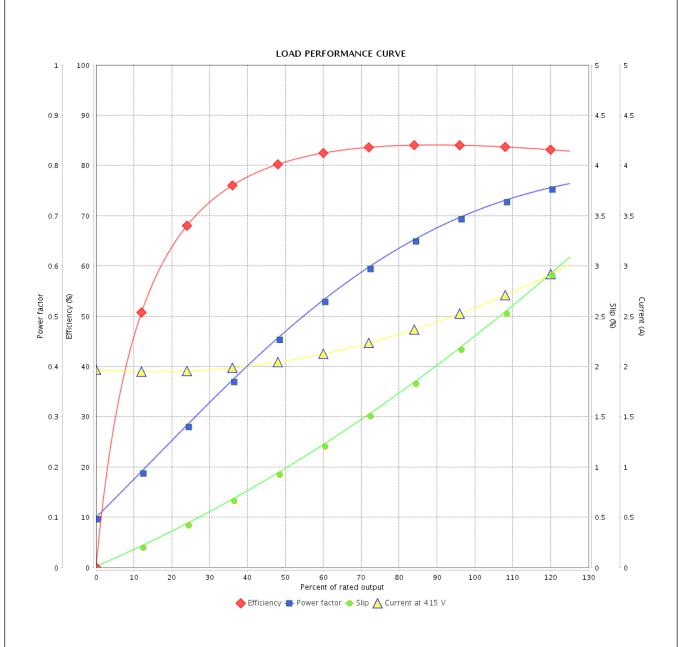
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Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.56 A : 8.4 : 5.38 ft.lb : 350 % : 409 % : 1465 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	ss	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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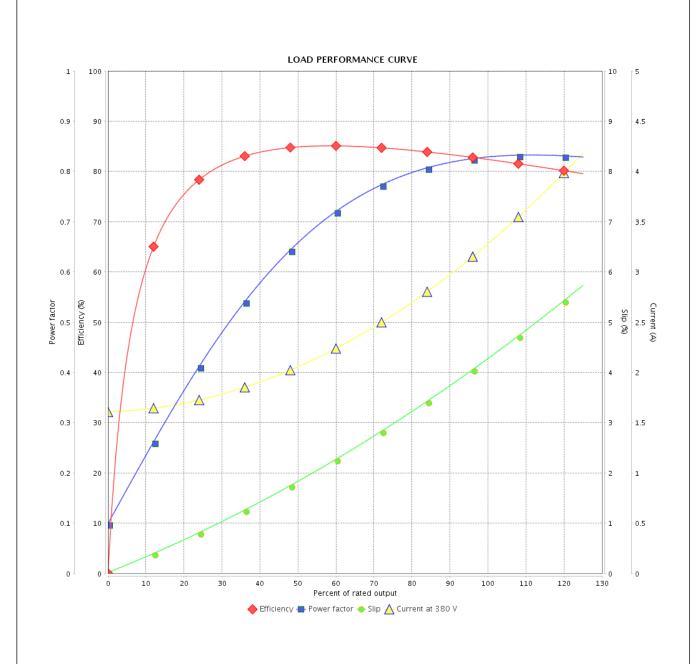
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11524270

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Performance	rformance : 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.33 A : 6.0 : 7.32 ft.lb : 220 % : 240 % : 1435 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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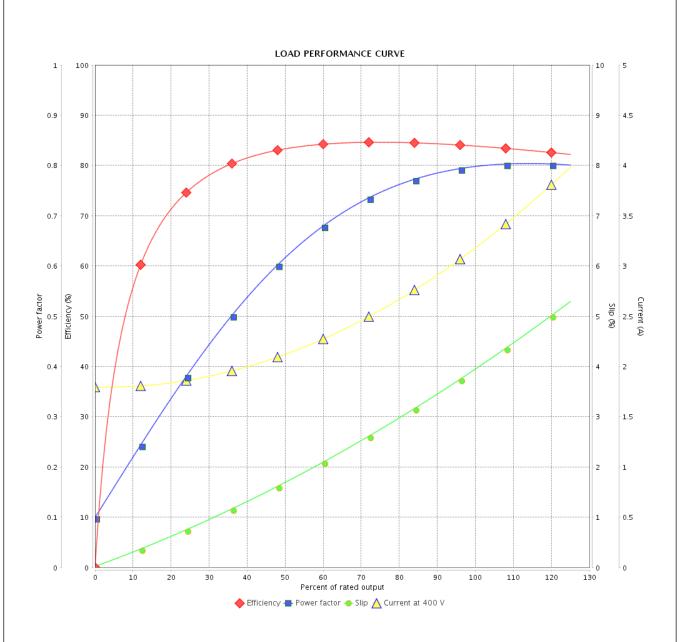
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11524270

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Performance	: 400 V 50 Hz 4P IE2					
Rated current	: 3.22 A Moment of inertia (J)		J)	: 0.1561 sq.ft.	lb	
LRC	: 6.6	Duty cycle	•	: Cont.(S1)		
Rated torque	: 7.29 ft.lb	Insulation class		: F		
Locked rotor torque	: 229 %	Service factor		: 1.25		
Breakdown torque	: 260 %	Temperature rise		: 80 K		
Rated speed	: 1440 rpm	Design		: B		
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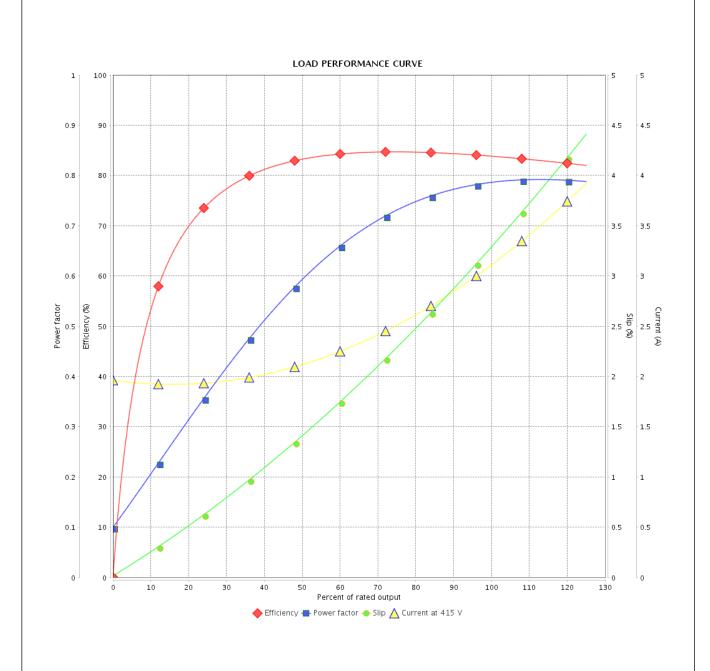
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11524270

Catalog #: 00218ET3E145JM-W22



Performance	nance : 415 V 50 Hz 4P IE2					
Rated current : 3.14 A		Moment o	f inertia (J)	: 0.1561 sq.ft.lb		
LRC	: 7	7.3	Duty cycle	:	: Cont.(S1)	
Rated torque	: 7	7.24 ft.lb	Insulation	class	:F `´	
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	290 %	Temperature rise		: 80 K	
Rated speed	: 1	1450 rpm	Design		: B	
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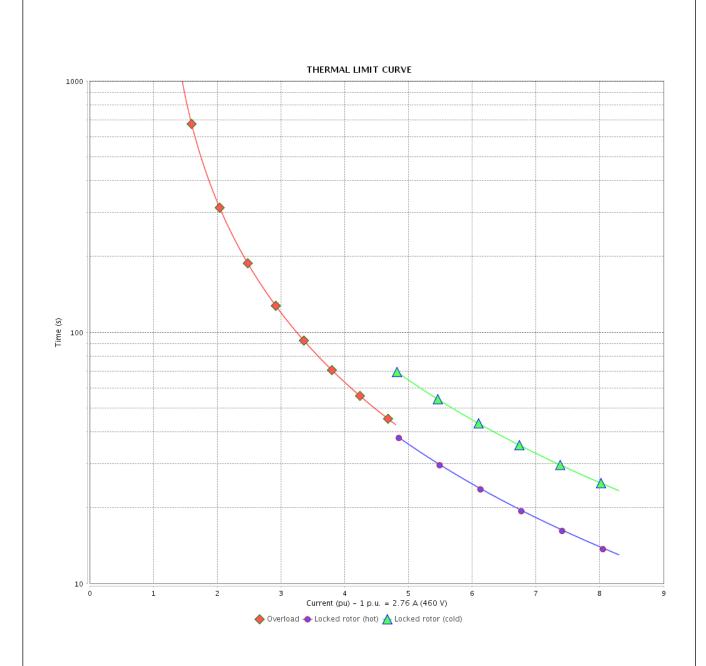


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Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	11524270	
		nase		Catalog # :	00218ET3E1	45JM-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC	: 5. : 8.	52/2.76 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
Rated torque	: 6.	00 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		70 % 20 %	Service fa		: 1.25 : 80 K	
Breakdown torque Rated speed		20 % 750 rpm	Temperatu Design	116 119 <u>6</u>	: 80 K : B	
Heating constant						
Cooling constant						
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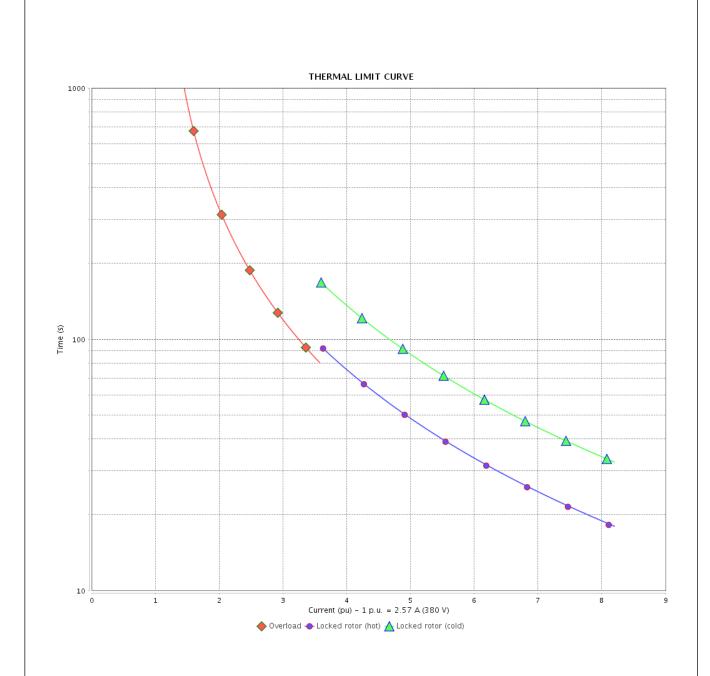


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11524270 00218ET3E1	45JM-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 2.57 A : 8.2 : 5.40 ft.lb	Duty cycle Insulation	class	: 0.1561 sq.ft.l : Cont.(S1) : F	b
Locked rotor torque Breakdown torque	: 290 % : 330 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant Cooling constant					
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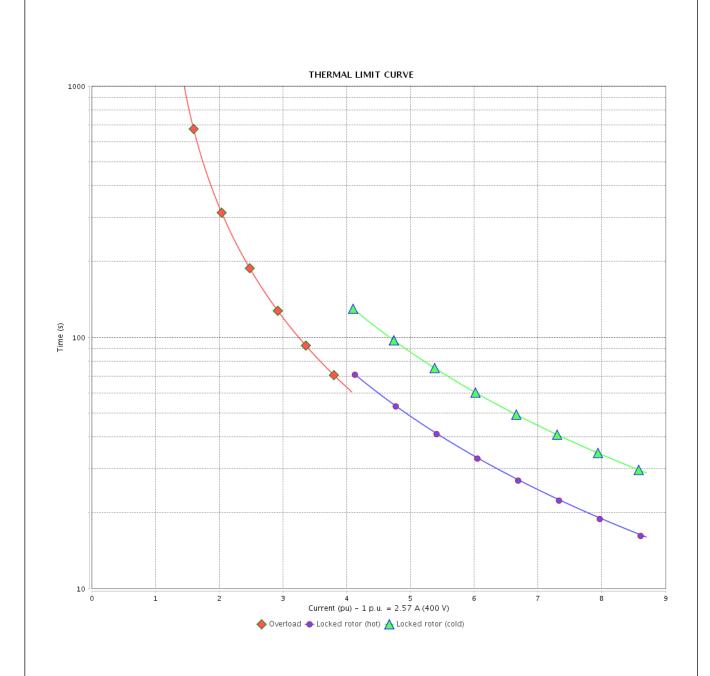


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11524270 00218ET3E1	45JM-W22
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 2.57 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC Rated torque	: 8.7 : 5.38 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 320 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 380 % : 1465 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant	r **				
Cooling constant					
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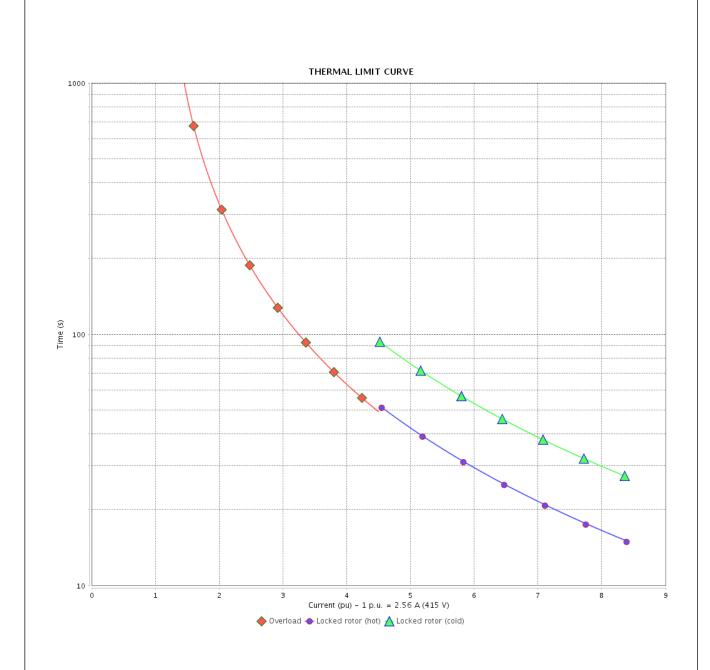


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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11524270	
		hase				45 184 18400
				Catalog # :	00218ET3E1	45JM-W22
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current		56 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC Rated torque	: 8. : 5.	.4 .38 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torque	e : 39	50 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		09 % 465 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. 14	τοο τριτι	Design		. U	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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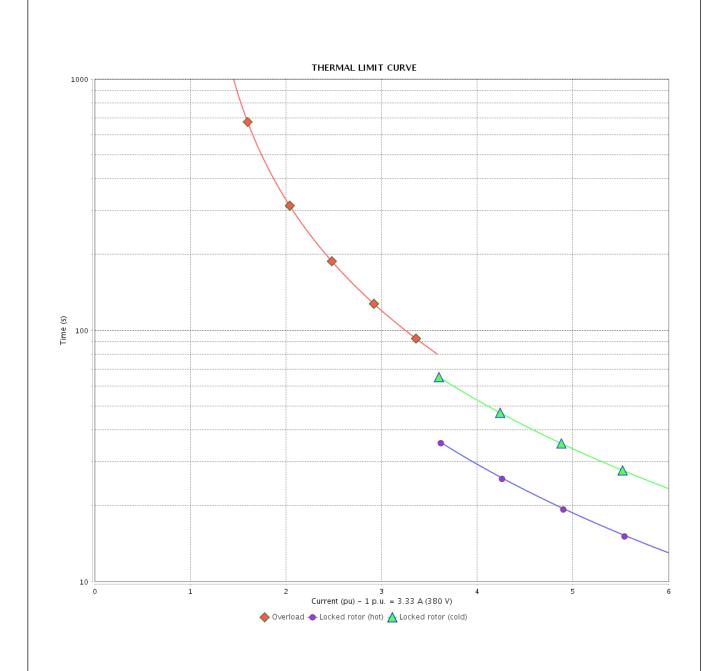


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11524270 00218ET3E1	45JM-W22
Performance	:	380 V 50 Hz 4P IE1				
Rated current LRC	:	3.33 A 6.0	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord	que :	7.32 ft.lb 220 %	Insulation Service fa	actor	: F : 1.25	
Breakdown torqu Rated speed		240 % 1435 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t	Changas Summani		Dorformad	Charles	Doto
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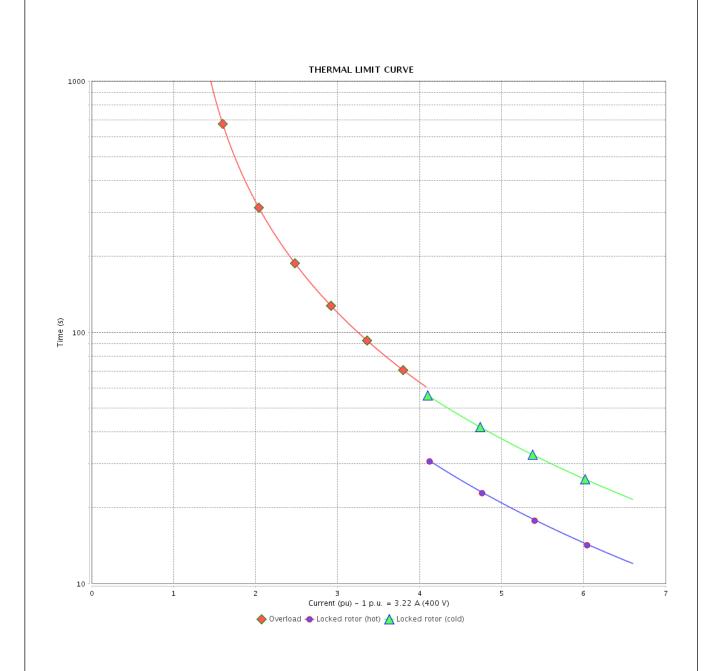


Customer	:				
Product line	: NEMA Premium Efficie	ncv Three-	Product code :	11524270	
	Phase				45 IM M/00
			Catalog # :	00218ET3E1	45JIVI-VV22
Performance	: 400 V 50 Hz 4P IE2				
Rated current	: 3.22 A	Moment of	of inertia (J)	: 0.1561 sq.ft.l	b
LRC	: 6.6	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torque	: 7.29 ft.lb : 229 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 260 %	Temperat		: 80 K	
Rated speed	: 1440 rpm	Design		: B	
Heating constant					
Cooling constant	Ohanna O		Dowform1	Charles d	Data
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Three Phase Induction Motor - Squirrel Cage



Customer



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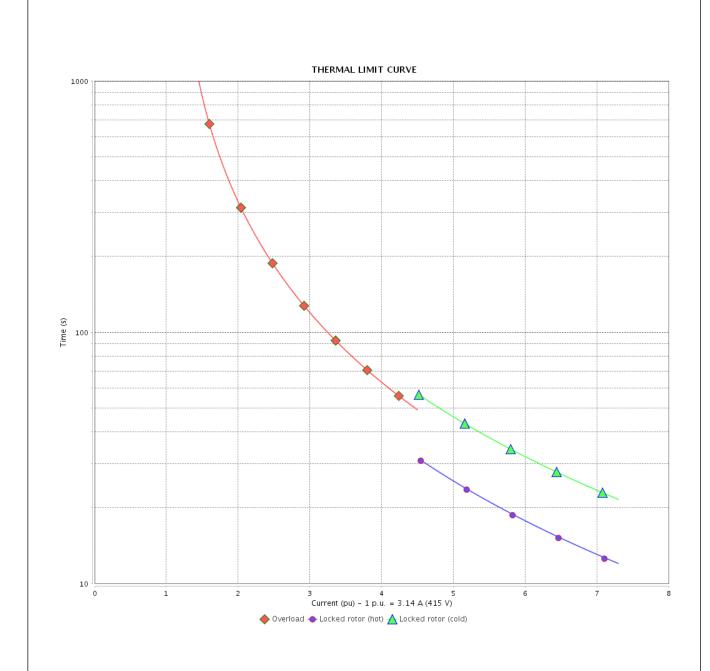


Customer	:				-	
Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11524270	
		hase				45 184 14/00
				Catalog # :	00218ET3E1	45JM-W22
Performance	: 4	15 V 50 Hz 4P IE2				
Rated current		14 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC Rated torque	: 7. : 7.	3 24 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 25	50 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		90 % 450 rpm	Temperatu Design	ure rise	: 80 K : B	
	. 14	του τριτι	Design		. U	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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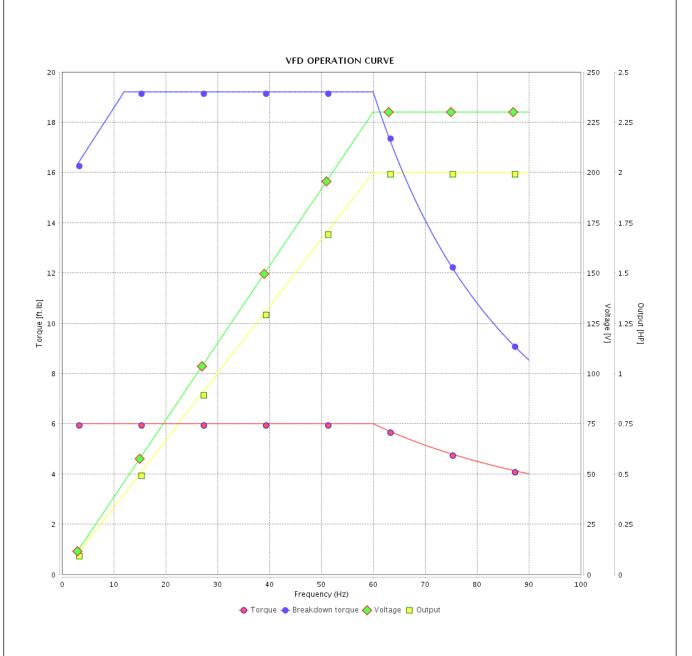
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11524270

Catalog #: 00218ET3E145JM-W22

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Performance	: 23	30/460 V 60 Hz 4P				
Rated current		-	Moment of inertia (J) Duty cycle		: 0.1561 sq.ft.lb : Cont.(S1)	
Locked rotor tord Breakdown torgo	torque : 270 % Service factor		actor	: F : 1.25 : 80 K		
Rated speed		750 rpm	Design		: B	
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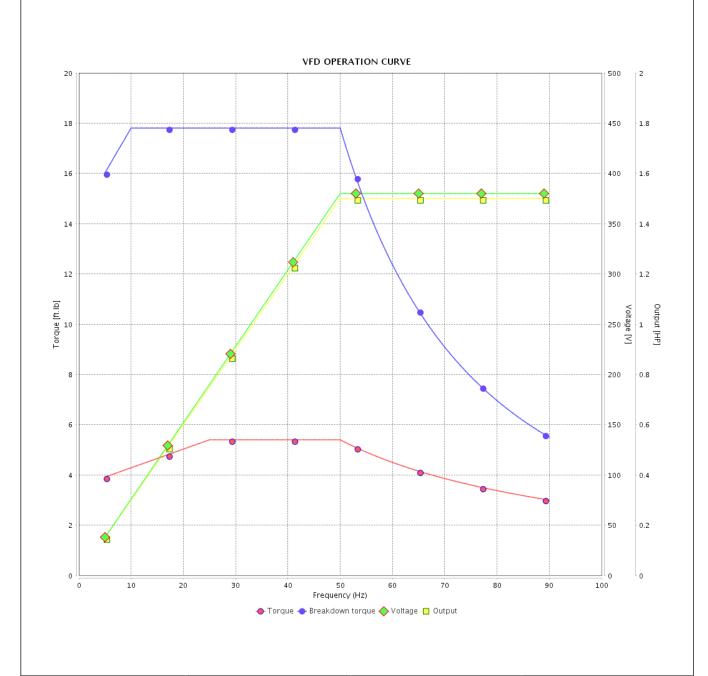


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11524270

Phase

Catalog #: 00218ET3E145JM-W22



Performance	:	: 380 V 50 Hz 4P IE3				
Rated current	ent : 2.57 A		Moment o	Moment of inertia (J)		.lb
LRC	:	8.2			: Cont.(S1)	
Rated torque			class	: F		
Locked rotor torqu	ie :	290 %	Service factor		: 1.25	
Breakdown torque	:	330 %	Temperature rise		: 80 K	
Rated speed	:	1460 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- F

Phase

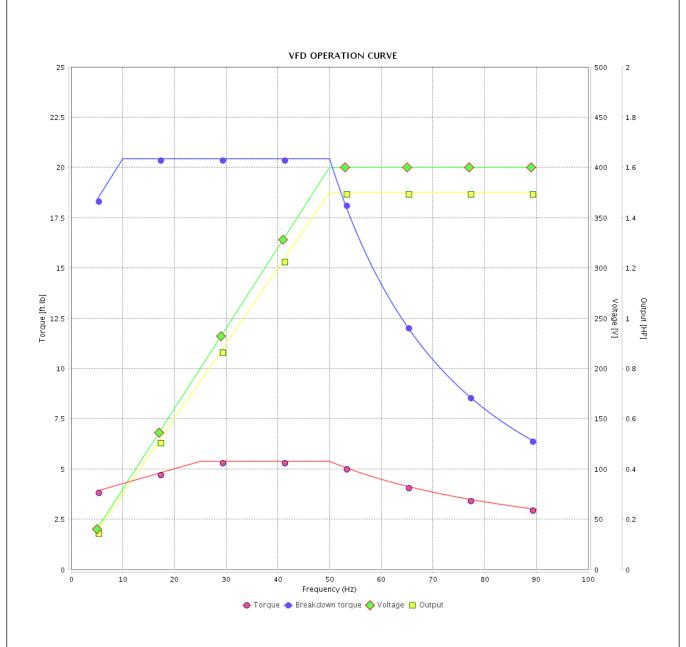
Product code: 11524270

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Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 5.38 ft.lb : F Locked rotor torque : 320 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

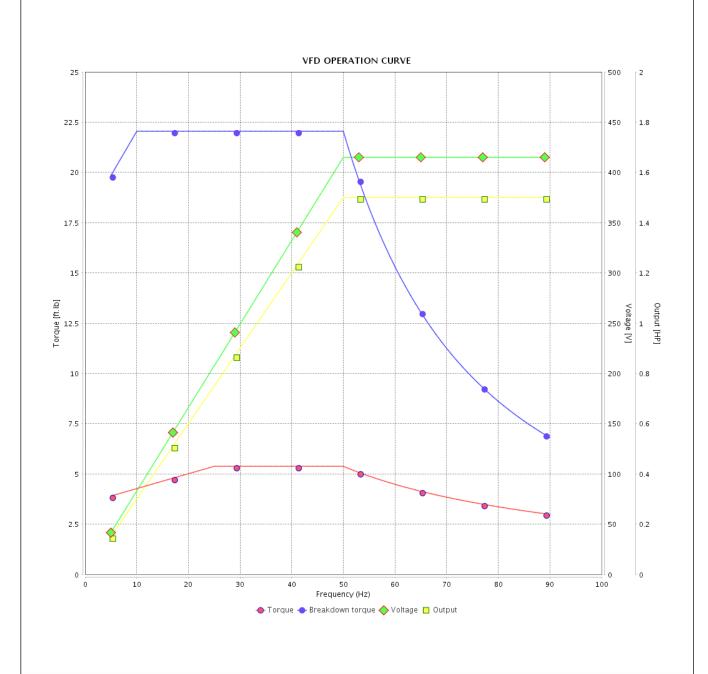


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11524270

Phase

Catalog #: 00218ET3E145JM-W22



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	: 2.56 A		f inertia (J)	: 0.1561 sq.ft.lb	
LRC	:	8.4	Duty cycle		: Cont.(S1)	
Rated torque			class	: F		
Locked rotor tord	que :	350 %	Service factor		: 1.25	
Breakdown torqu	ie :	409 %	Temperature rise		: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- F

Phase

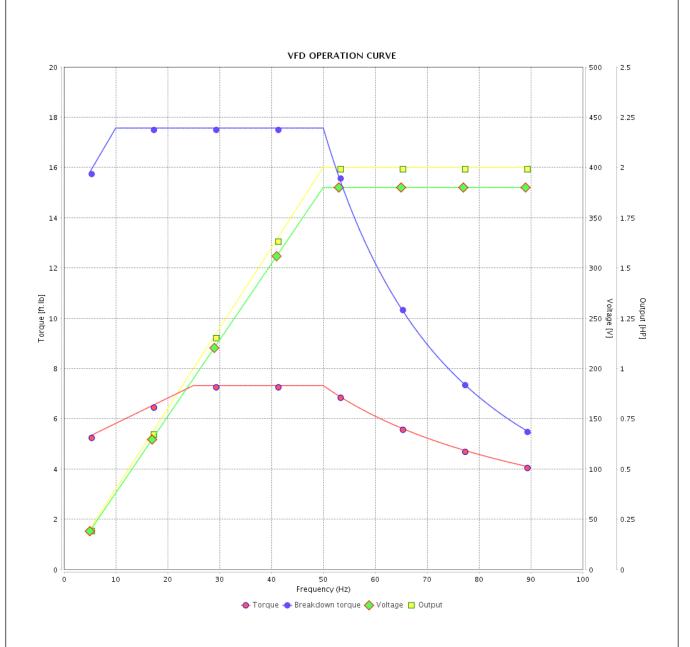
Product code: 11524270

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Performance : 380 V 50 Hz 4P IE1 Rated current : 3.33 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.32 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



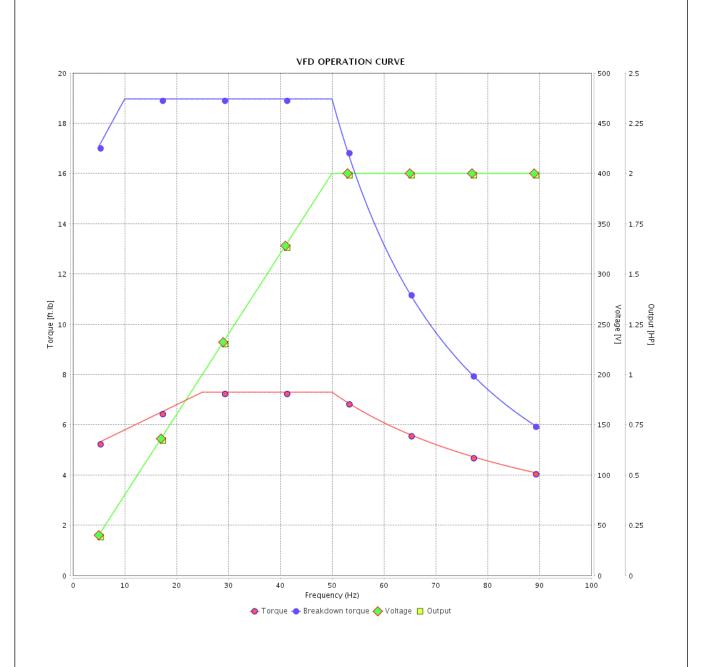
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Product line : NEMA Premium Efficiency Three- Product code : 11524270

Phase

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Performance	: 400 V 50 Hz 4P IE2					
Rated current LRC	: 3.22 A : 6.6	Moment of inertia (J) Duty cycle		: 0.1561 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque	: 7.29 ft.lb Insulat : 229 % Service : 260 % Tempe	Insulation class	Insulation class		: F : 1.25	
Breakdown torque		Temperature rise		: 80 K		
Rated speed Rev.	: 1440 rpm Changes Summary	Design	erformed	: B Checked	Date	
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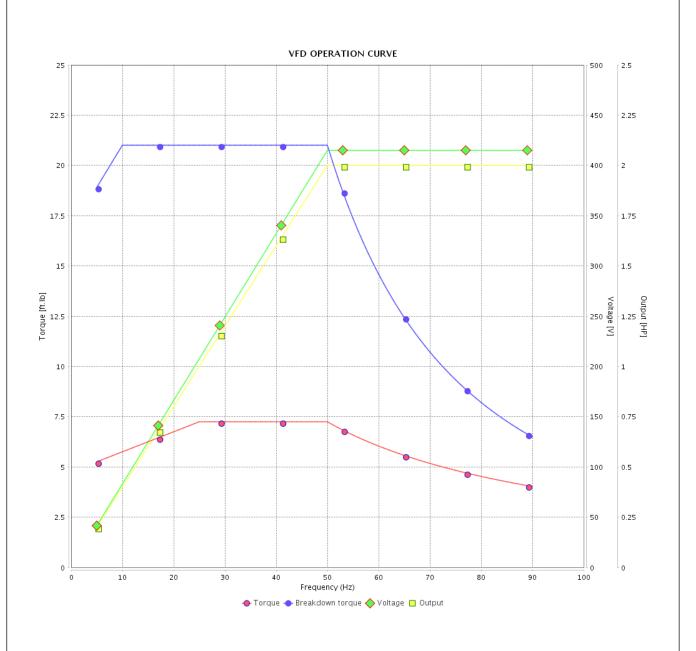
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11524270

Catalog #: 00218ET3E145JM-W22



Performance	: 4	15 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 7. ue : 2! e : 29	14 A 3 24 ft.lb 50 % 90 % 450 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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