### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512ET3E324JM-W22

12605476

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 560 lb

Protection degree		: IP55		Momer	nt of inertia (J)	: 1	1.5 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		61.6/30.8	30.3	29.4	28.6	36.8	35.1	34.2
L. R. Amperes [A]		382/191	182	191	200	180	190	198
LRC [A]		6.2x(Code	6.0x(Code	6.5x(Code H)	7.0x(Code J)	4.9x(Code E)	5.4x(Code F)	5.8x(Code
		G)	G)					G)
No load current [A	]	28.0/14.0	13.2	14.2	14.9	13.2	14.2	14.9
Rated speed [RPI	<b>/</b> 1]	1180	980	985	985	975	980	980
Slip [%]		1.67	2.00	1.50	1.50	2.50	2.00	2.00
Rated torque [ft.lb]		111	107	107	107	135	134	134
Locked rotor torque [%]		210	200	229	250	160	180	200
Breakdown torque	[%]	260	250	290	310	200	229	250
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		46s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		26s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	92.2	91.1	90.9	90.9	92.7	92.1	92.1
Efficiency (%)	50%	92.4	91.1	91.1	91.1	91.7	91.7	91.7
Elliciency (%)	75%	93.0	91.8	92.2	92.2	92.4	92.4	92.4
	100%	93.0	91.6	92.2	92.2	91.0	91.7	91.7
	25%	0.40	0.39	0.36	0.34	0.46	0.43	0.40
Dower Footer	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
Power Factor	75%	0.77	0.76	0.74	0.71	0.81	0.79	0.77
	100%	0.81	0.82	0.80	0.79	0.84	0.83	0.82

Drive end Non drive end Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1005 lb Sealing : V'Ring V'Ring Max. compression : 1565 lb

Lubrication interval:20000 h20000 hLubricant amount:21 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 67.2A SF 1.15 SFA 77.3A

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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#### Three Phase Induction Motor - Squirrel Cage



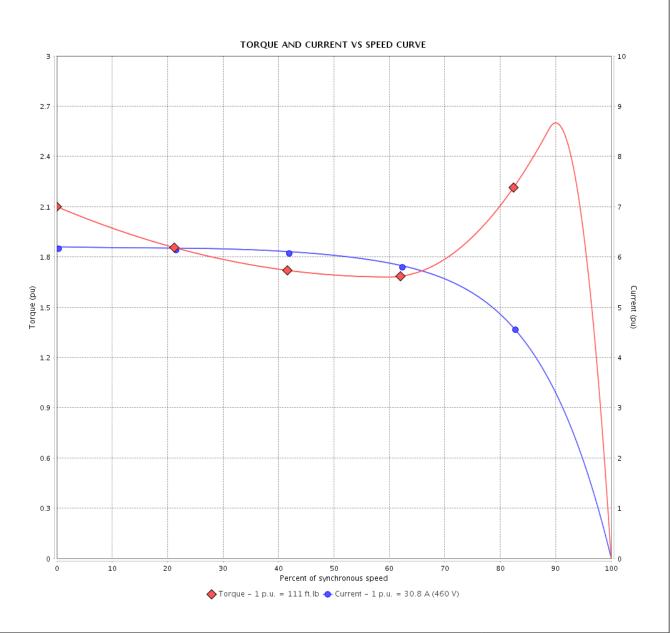
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12605476

Catalog #: 02512ET3E324JM-W22



Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12605476 Catalog #: 02512ET3E324JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 30.3 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 30.3 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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#### Three Phase Induction Motor - Squirrel Cage



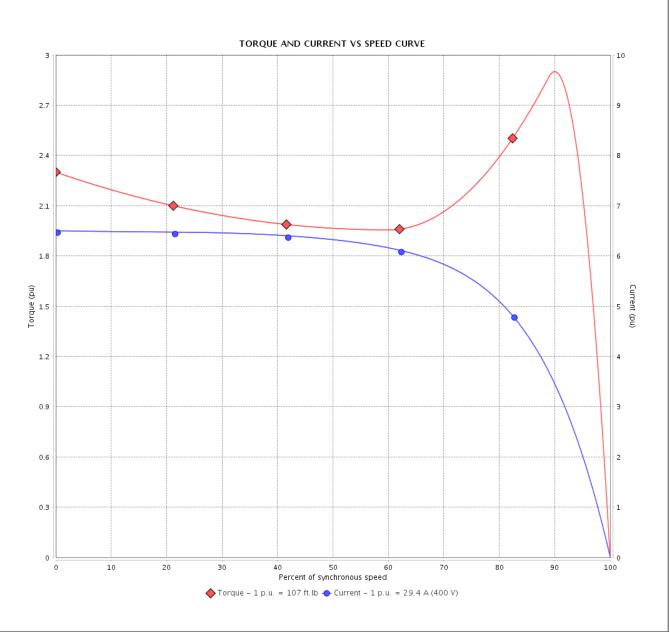
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12605476

Catalog #: 02512ET3E324JM-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 29.4 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12605476 Catalog #: 02512ET3E324JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 28.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 28.6 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F Rated torque : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** 

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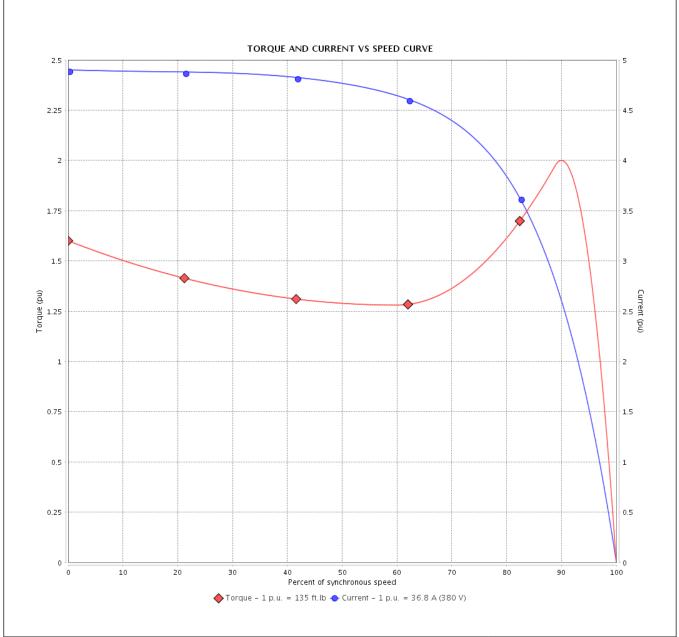
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 02512ET3E324JM-W22

12605476



Performance	: 380 V 50 Hz 6P IE2			
Rated current LRC	: 36.8 A : 4.9	Moment of inertia (J) Duty cycle	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 160 % : 200 %	Service factor Temperature rise	: 1.00 : 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked roter time	: 32s (cold) 18s (bot)			

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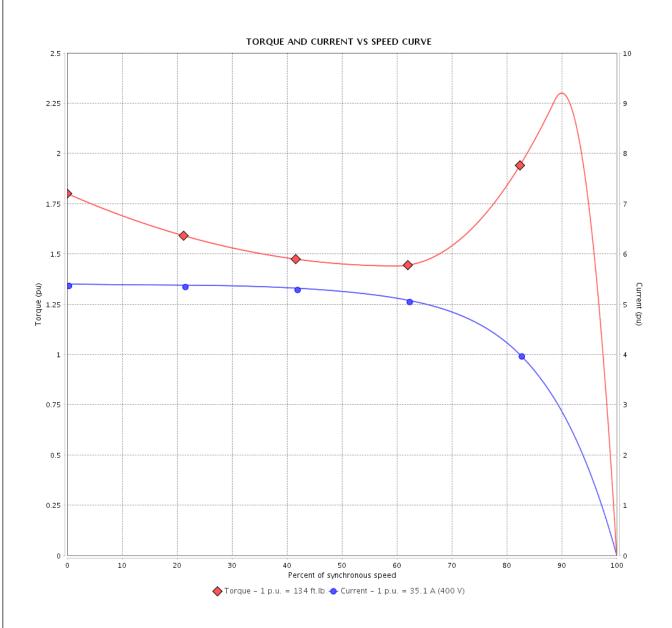


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Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 35.1 A	Moment of inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

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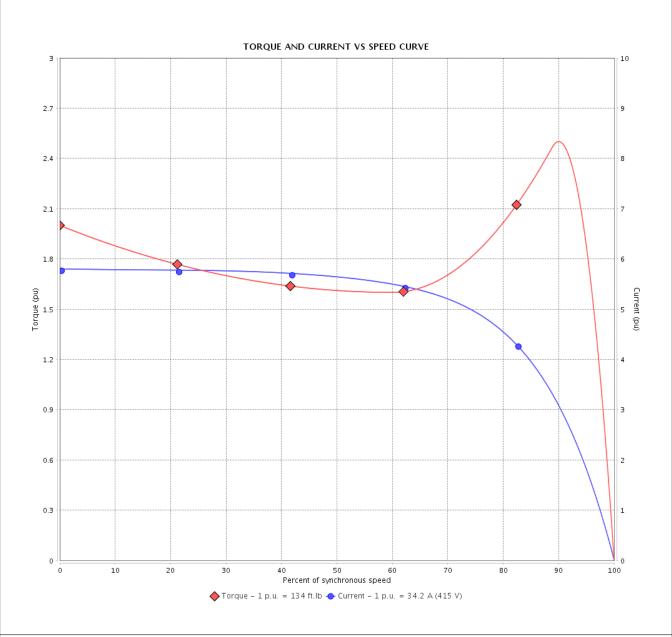
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12605476

Catalog #: 02512ET3E324JM-W22



Performance : 415 V 50 Hz 6P IE3 Rated current : 34.2 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

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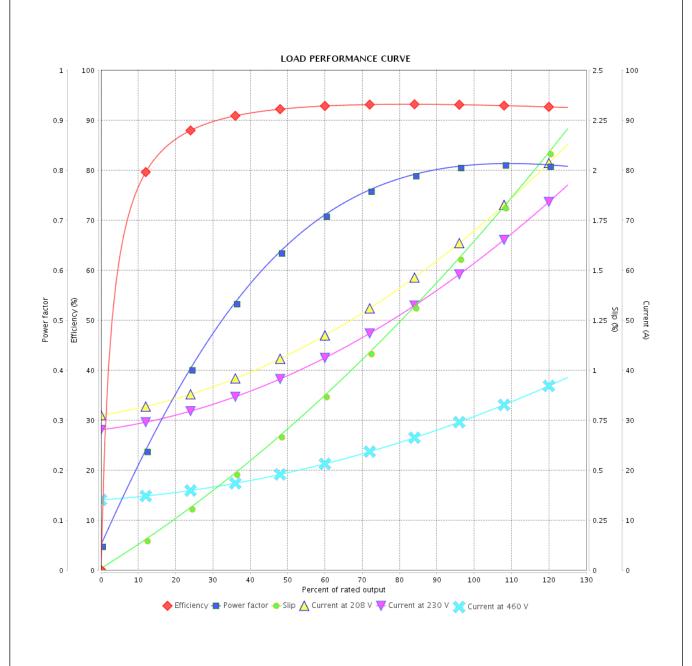


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	61.6/30.8 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	:	6.2	Duty cycle	)	: Cont.(S1)	
Rated torque	:	111 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.25	
Breakdown torque	:	260 %	Temperature rise		: 80 K	
Rated speed	:	1180 rpm	Design		: B	
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Phase

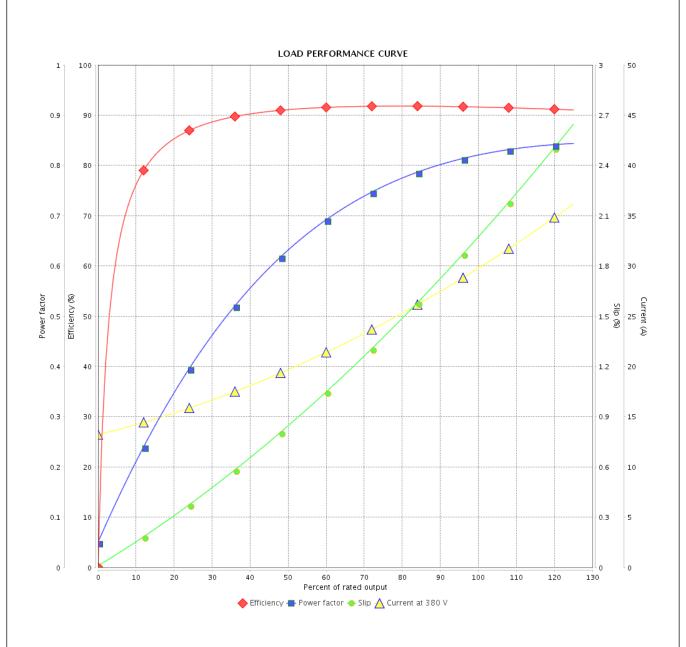
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Performance	: 3	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 2	30.3 A 5.0 107 ft.lb 200 % 250 % 980 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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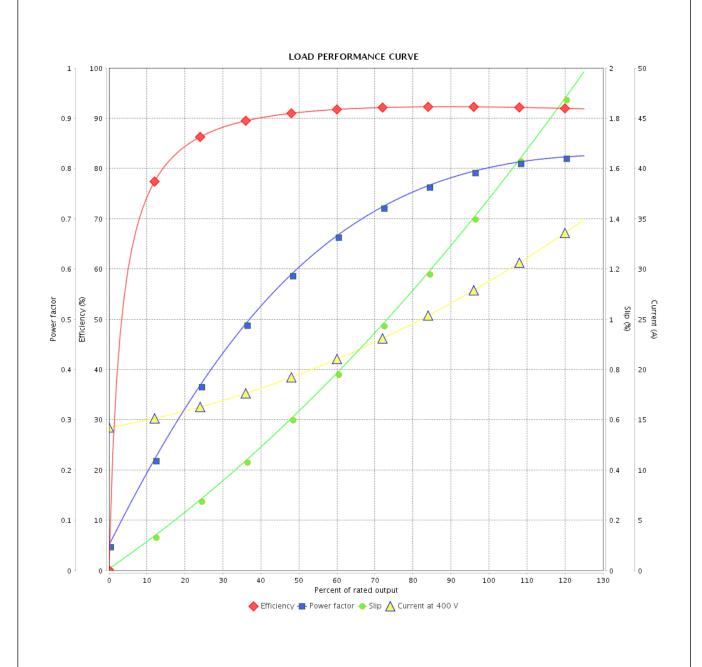


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22



Performance	: 40	: 400 V 50 Hz 6P IE3				
Rated current	: 29.4 A		Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6	.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 10	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	29 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 29	90 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

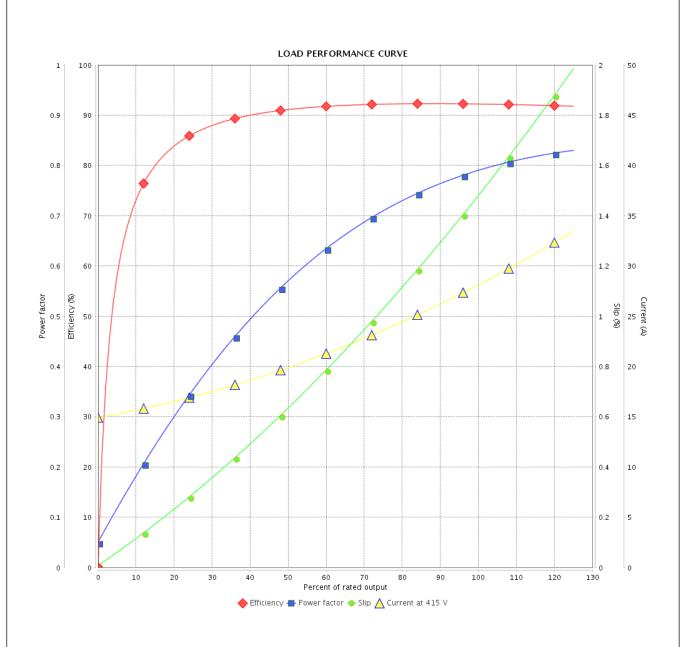
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Performance	: 415 V 50 Hz 6P I	E3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 28.6 A : 7.0 : 107 ft.lb : 250 % : 310 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

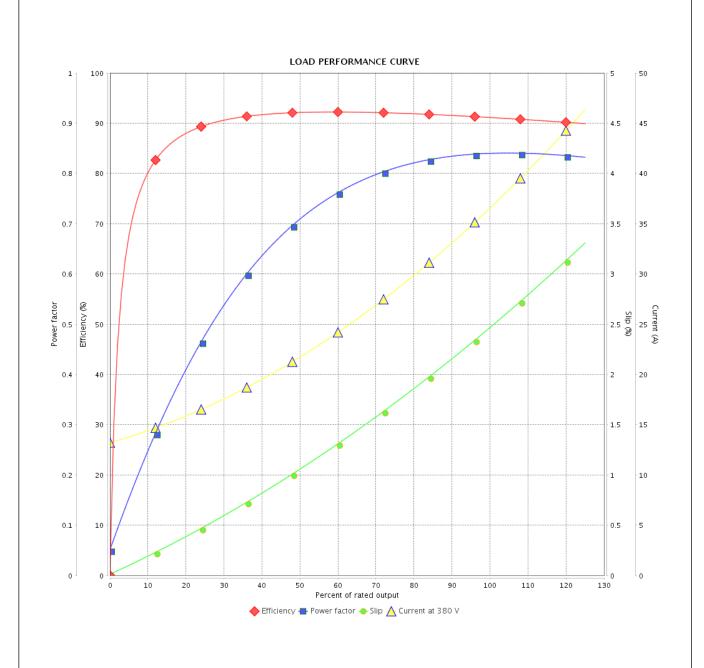


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22



Performance	: 3	380 V 50 Hz 6P IE2				
Rated current	: 3	36.8 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 4	1.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	135 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	160 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 °		200 %	Temperatu	Temperature rise		
Rated speed	: 9	975 rpm	Design		: B	
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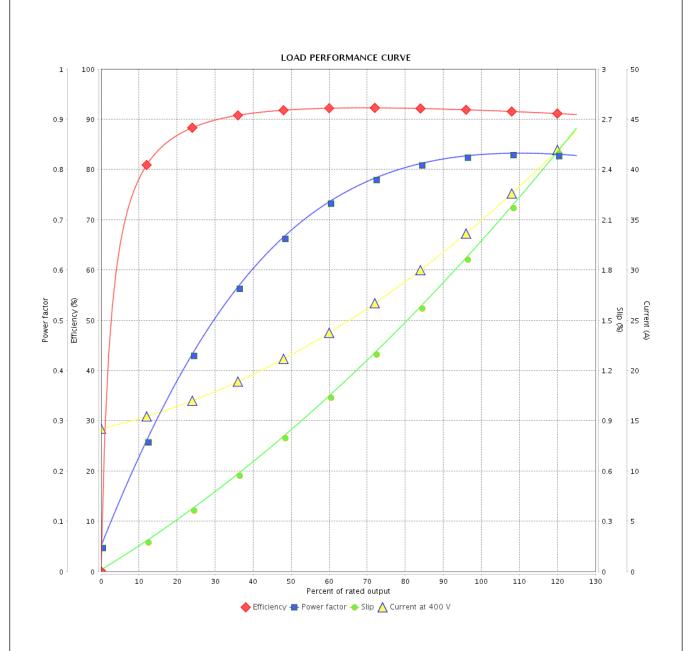
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12605476

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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 35.1 A	Moment of	inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5.4	Duty cycle		: Cont.(S1)	
Rated torque : 134 ft.lb		Insulation of	class	: F	
Locked rotor torque	: 180 %	Service factor		: 1.15	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 980 rpm	Design		: B	
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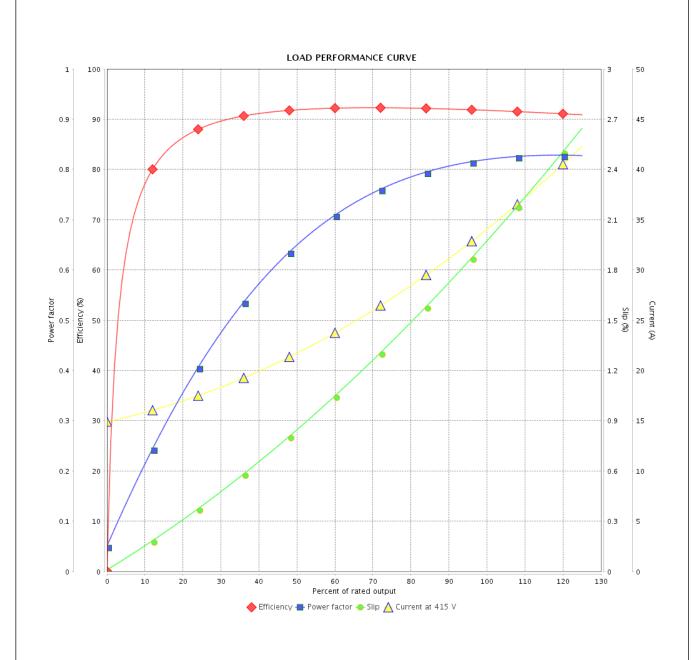
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.2 A : 5.8 : 134 ft.lb : 200 % : 250 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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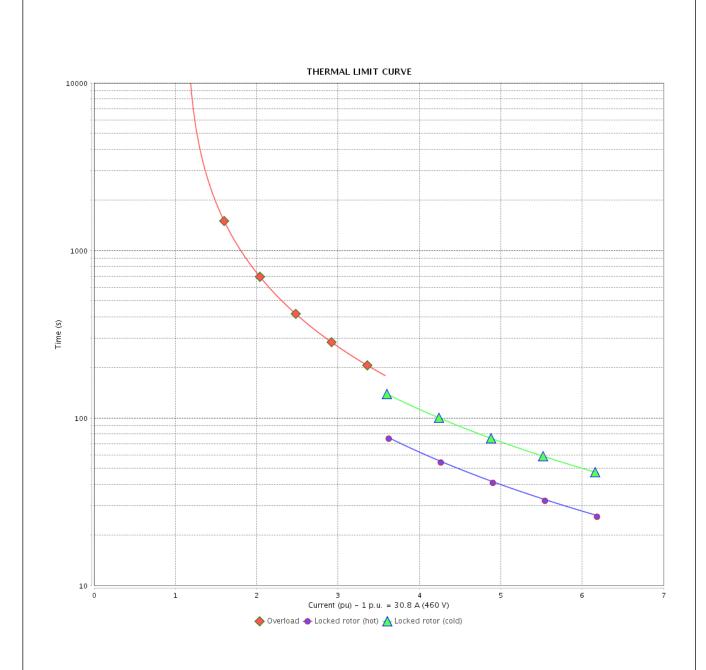


Customer	:					
Product line	:1	NEMA Premium Efficiency 1	Γhree- F	Product code :	12605476	
	Р	nase	(	Catalog # :	02512ET3E3	24JM-W22
Performance	. 24	30/460 V 60 Hz 6P				
Rated current LRC	: 6° : 6.	1.6/30.8 A .2	Moment of Duty cycle		: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		11 ft.lb 10 %	Insulation Service fac		: F : 1.25	
Breakdown torqu		10 % 60 %	Temperatu		: 1.25 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>	Changes Cummer:	1	Dorform	Chaalaad	Data
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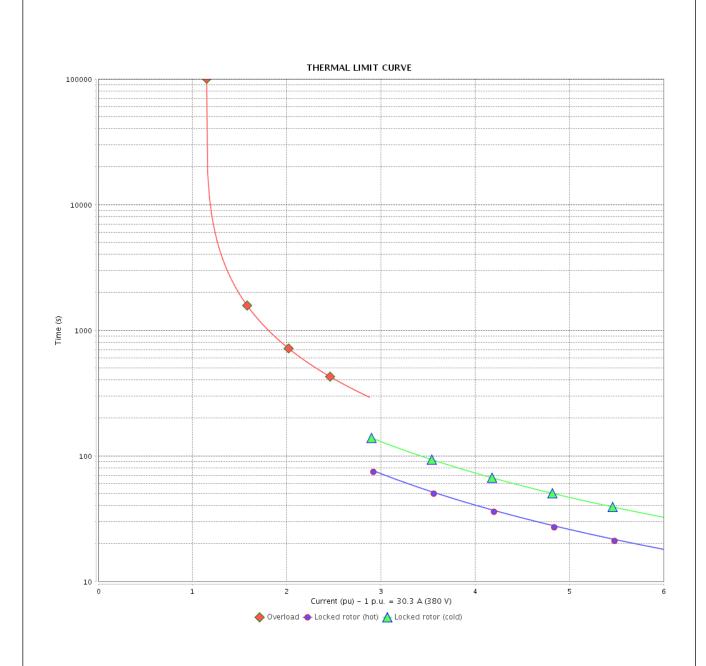


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12605476 02512ET3E32	24JM-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current		: 30.3 A	Moment o	of inertia (J)	: 11.5 sq.ft.lb	
LRC Rated torque		: 6.0 : 107 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 250 % : 980 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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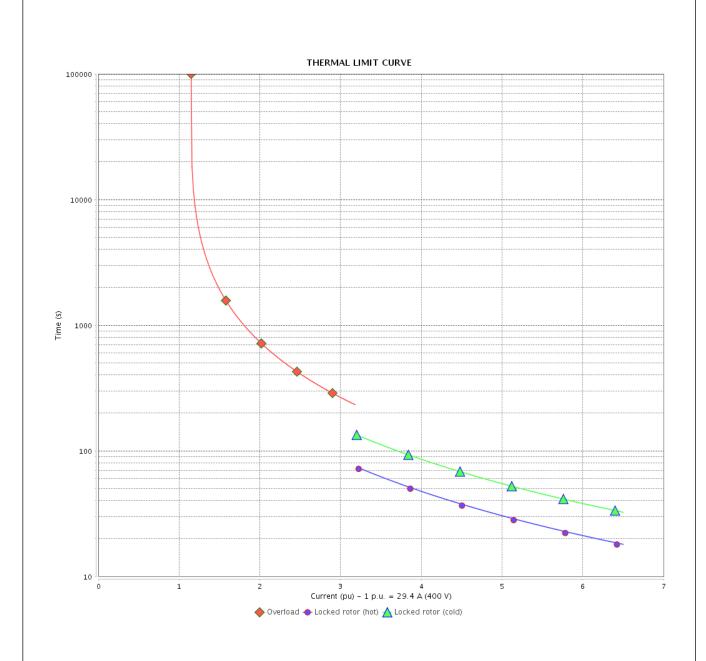


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	12605476	
	P	hase		Catalog # :	02512ET3E32	24JM-W22
Performance		00 V 50 Hz 6P IE3	Moment	finartia (I)	: 11 5 og ft lb	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		07 ft.lb 29 %	Insulation Service fa	class	: F : 1.15	
Breakdown torque	: 29	90 %	Temperatu		: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

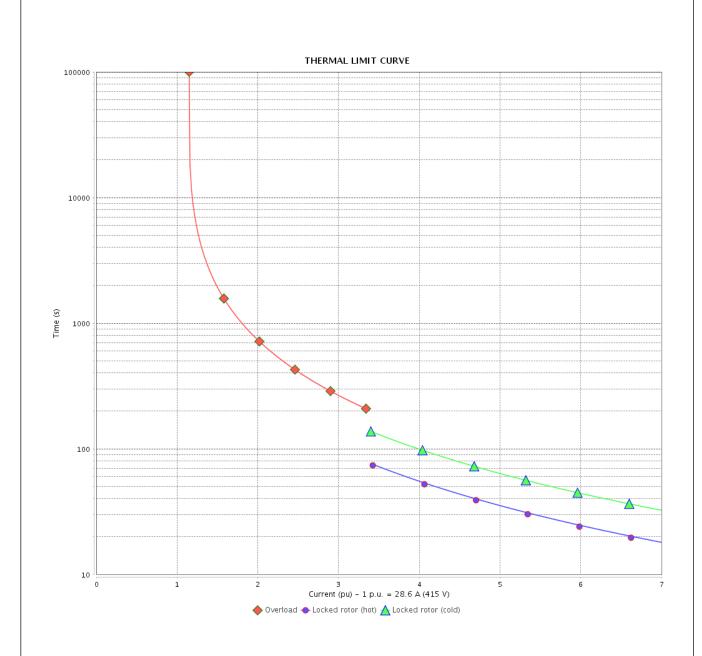


Customer		:			_	
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	12605476 02512ET3E32	24JM-W22
Performance	:	415 V 50 Hz 6P IE3				
Rated current LRC		28.6 A 7.0	Moment of Duty cycle	of inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	:	107 ft.lb 250 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu	ie :	310 %	Temperati		: 1.15 : 80 K	
Rated speed		985 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	<u> </u>	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

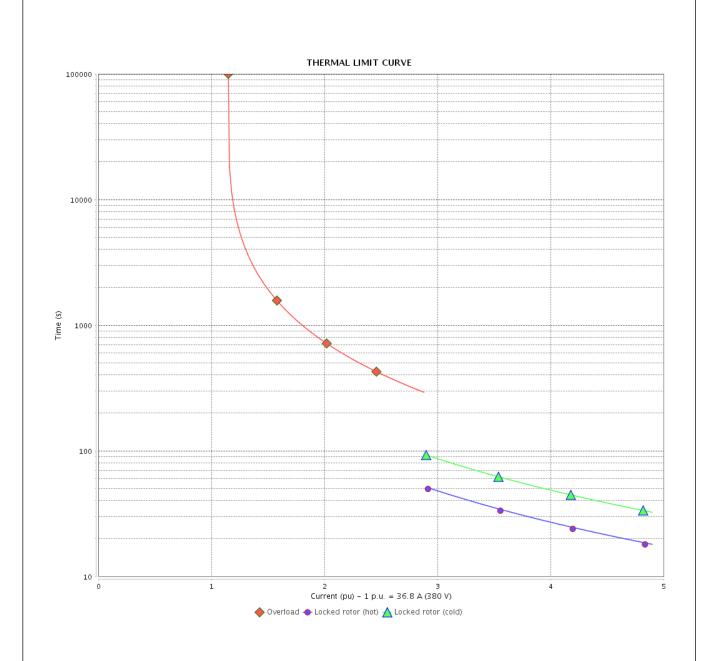


Customer	:				·	
Product line	1:	NEMA Premium Efficiency	Three-	Product code :	12605476	
	P	hase		Catalog # :	02512ET3E32	24.IM-\N/22
			,		02312113132	2 <del>4</del> 31VI-VVZZ
Performance		80 V 50 Hz 6P IE2				
Rated current LRC	: 36 : 4.	6.8 A 9	Moment o Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 13	35 ft.lb	Insulation	class	: F	
Locked rotor torqu		60 % 00 %	Service fa		: 1.00 : 80 K	
Breakdown torque Rated speed		00 % 75 rpm	Temperatu Design	110 T	: 80 K : B	
Heating constant			-			
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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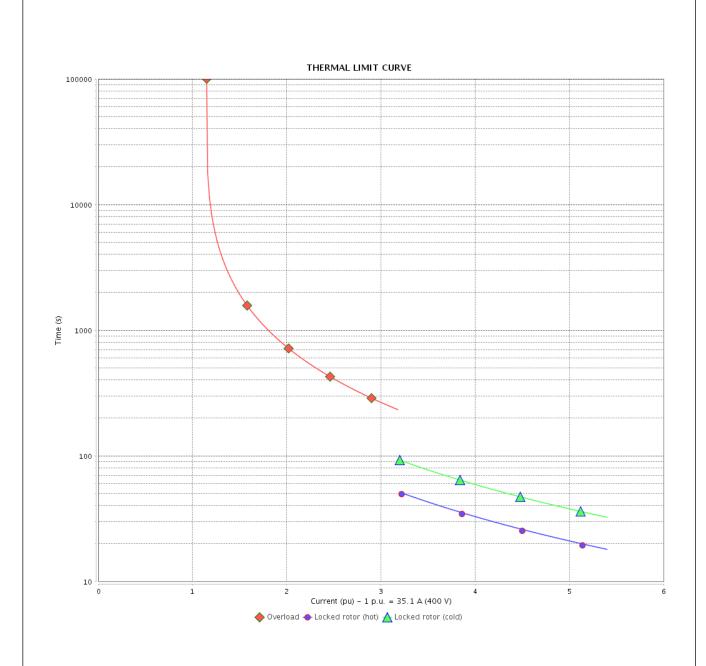


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12605476 02512ET3E32	24JM-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 35.1 A : 5.4	Moment of Duty cycle	of inertia (J) e	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 134 ft.lb : 180 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu		: 229 %	Temperat		: 80 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

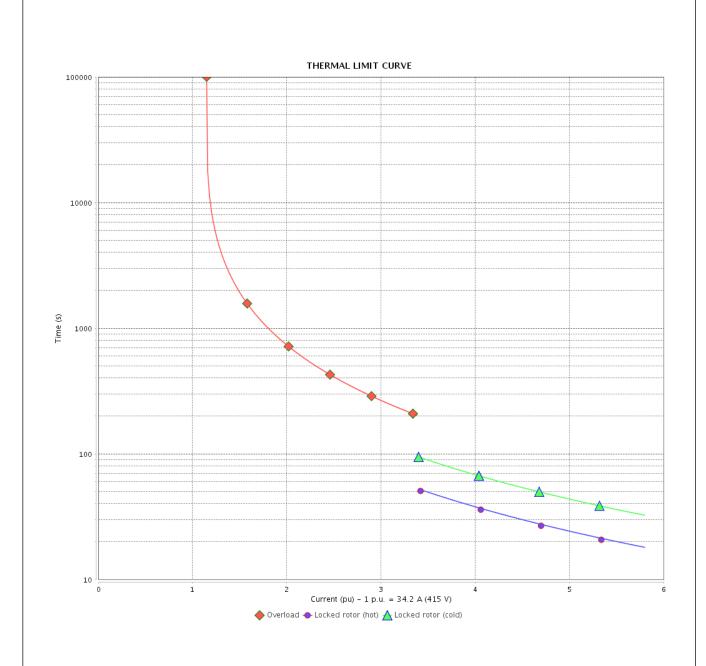


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12605476 02512ET3E32	24JM-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 34.2 A : 5.8	Moment of	of inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 250 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 980 rpm	Design	ui o 1100	: B	
Heating constan						
Cooling constant	τ	Changes Summers		Performed	Checked	Doto
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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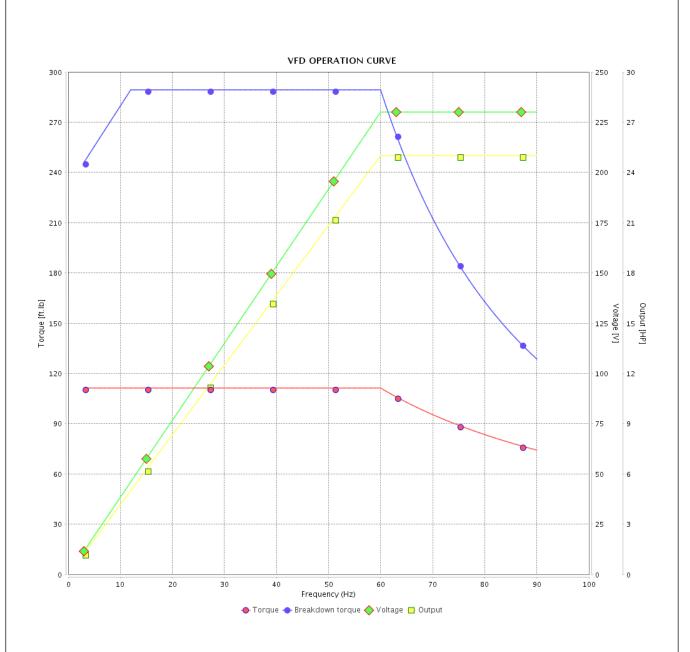
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02512ET3E324JM-W22

12605476

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Performance : 230/460 V 60 Hz 6P Rated current : 61.6/30.8 A Moment of inertia (J) : 11.5 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 111 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



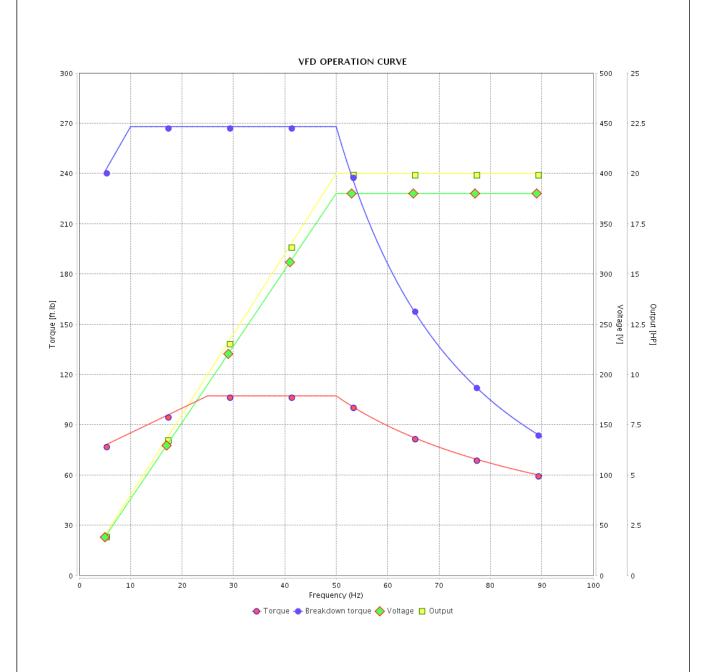
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 30.3 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6.0	Duty cycle		: Cont.(S1)	
Rated torque	: 107 ft.lb	% Service factor Temperature rise		:F	
Locked rotor torque	: 200 %			: 1.00	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 980 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

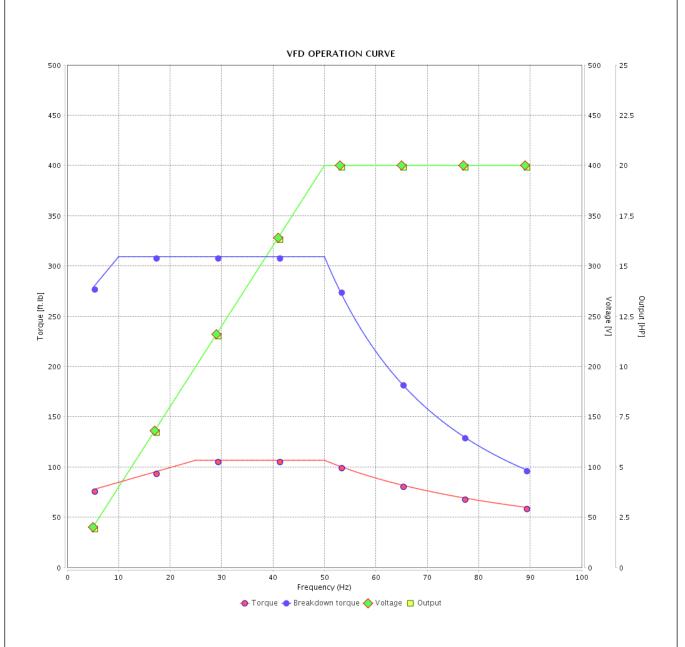
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12605476

Catalog #: 02512ET3E324JM-W22

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	C : 6.5 Duty cycle ted torque : 107 ft.lb Insulation class cked rotor torque : 229 % Service factor eakdown torque : 290 % Temperature rise		e class actor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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#### Three Phase Induction Motor - Squirrel Cage



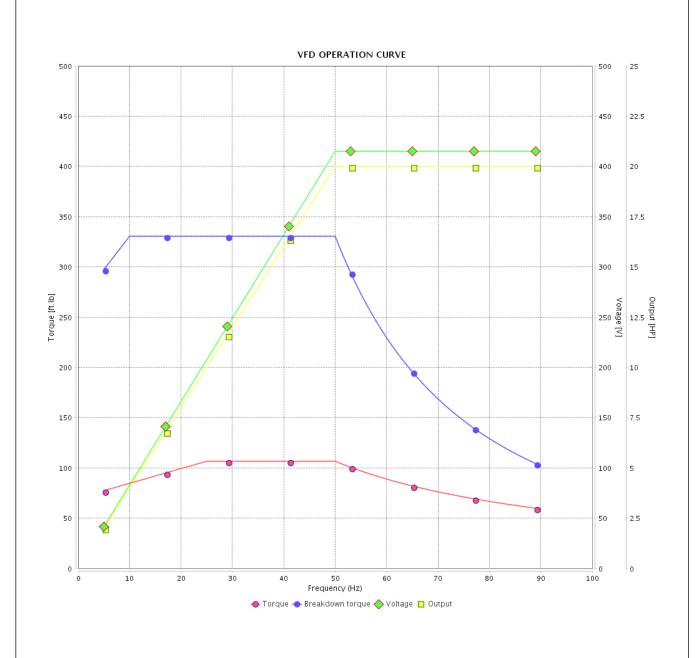
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22

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Performance	: 415 V 50 Hz 6P IE3				
Rated current : 28.6 A Moment of inertia (J)		: 11.5 sq.ft.lb			
LRC	: 7.0 : 107 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Rated torque Locked rotor torque	: 250 %	Service factor		: 1.15	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 985 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

Phase

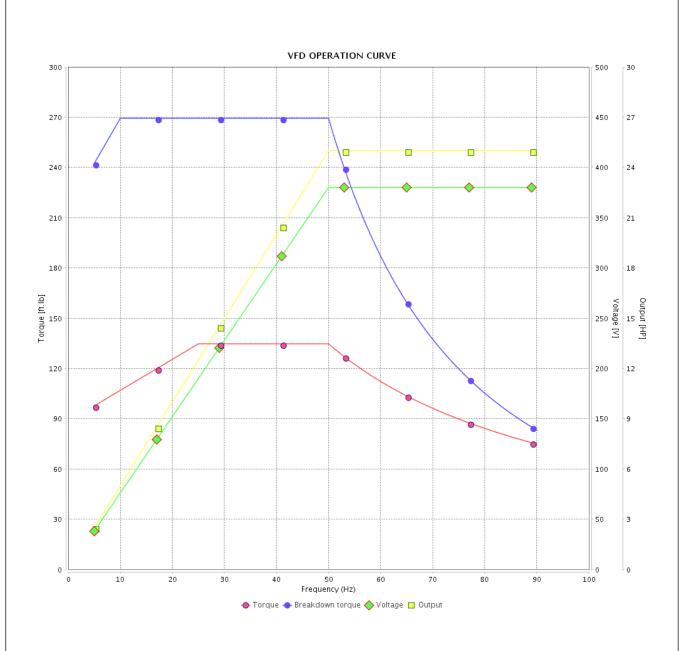
Product code: 12605476

Catalog #: 02512ET3E324JM-W22

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Performance	: 3	380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 1 : 1 : 2 : 2	36.8 A 4.9 135 ft.lb 160 % 200 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

#### Three Phase Induction Motor - Squirrel Cage



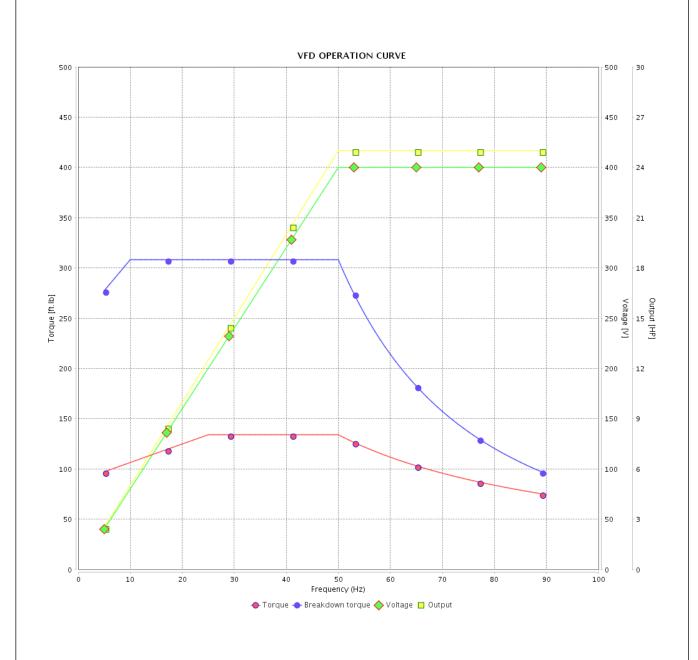
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605476

Phase

Catalog #: 02512ET3E324JM-W22

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.1 A : 5.4 : 134 ft.lb : 180 % : 229 % : 980 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ss r	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

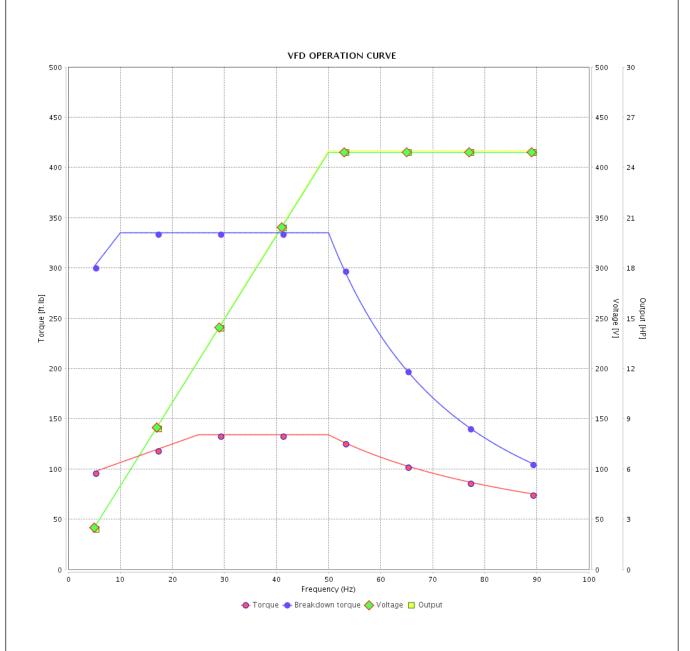
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12605476

Catalog #: 02512ET3E324JM-W22

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Performance	:	415 V 50 Hz 6P IE	:3			
Rated current : 34.2 A Moment of in LRC : 5.8 Duty cycle Rated torque : 134 ft.lb Insulation cla Locked rotor torque : 200 % Service factor Breakdown torque : 250 % Temperature Rated speed : 980 rpm Design		class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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