DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase

Catalog #: 02512ET3E324JP-W22

Frame : 324/6JP 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 : 561 lb

Protection degree		: IP55		Momer	Moment of inertia (J) : 11.5 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 [RPM	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 ²		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
Efficiency (%)	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
Power Factor	50%	0.65	0.63	0.60	0.57	0.71	0.68	0.65
1 OWEL FACIOI	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 : 1566 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant 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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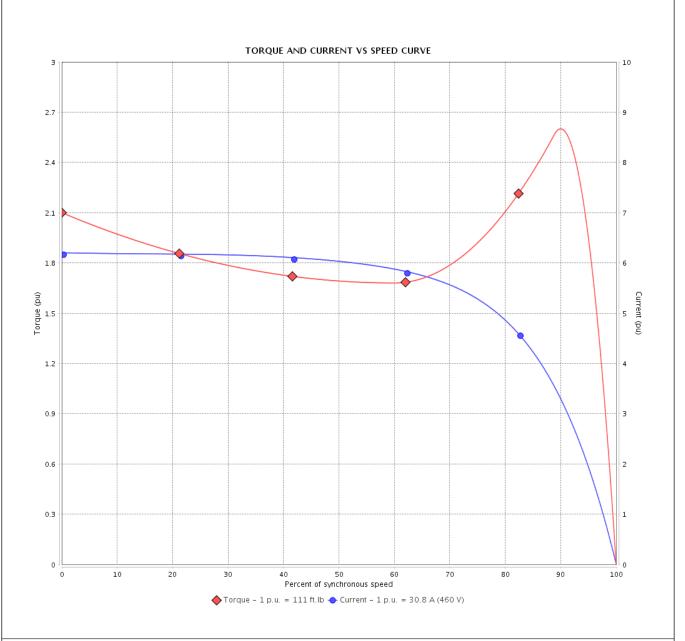


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase

Catalog #: 02512ET3E324JP-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: 12605578 Catalog #: 02512ET3E324JP-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



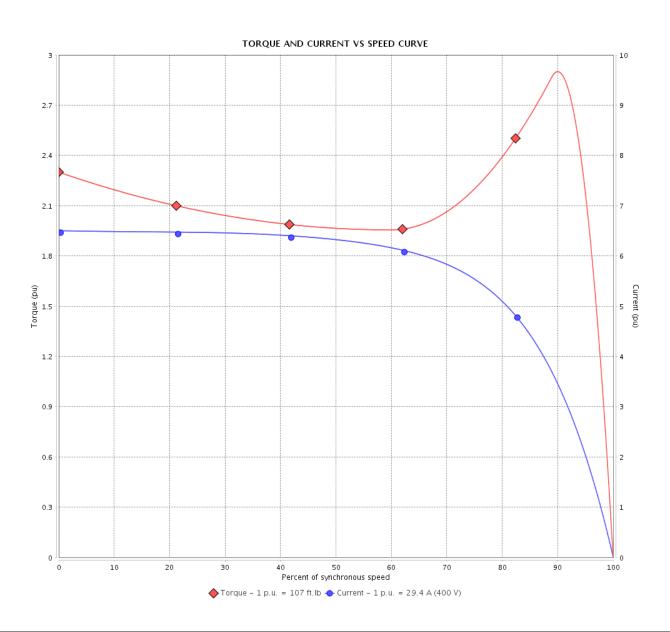
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12605578

Catalog #: 02512ET3E324JP-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

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12605578 Catalog #: 02512ET3E324JP-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. **Changes Summary** Performed Checked Date

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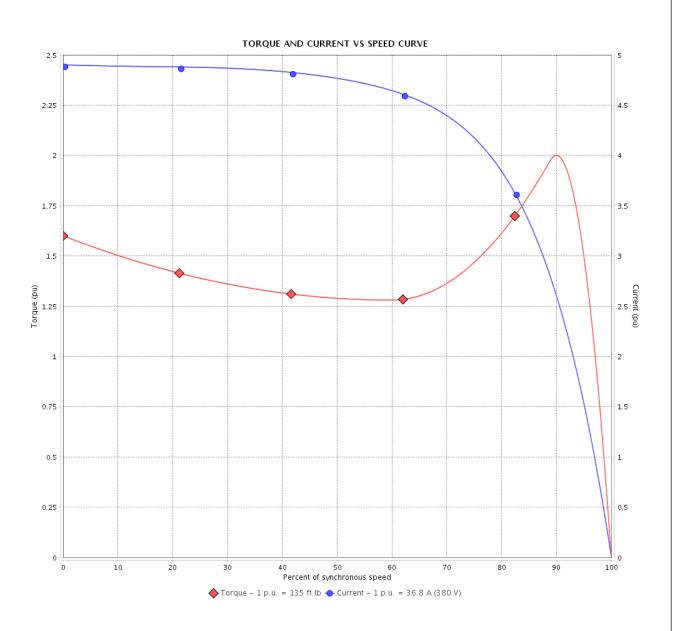


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase

Catalog #: 02512ET3E324JP-W22



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

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12605578 Catalog #: 02512ET3E324JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (bd) 1.25

Percent of synchronous speed							
◆ Torque - 1 p.u. = 134 ft.lb ◆ Current - 1 p.u. = 35.1 A (400 V)							
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				
Looked veter times	· 22a (aald) 40a (bat)						

0.5

0.25

Locked rotor time	e : 32	2s (cold) 18s (not)			
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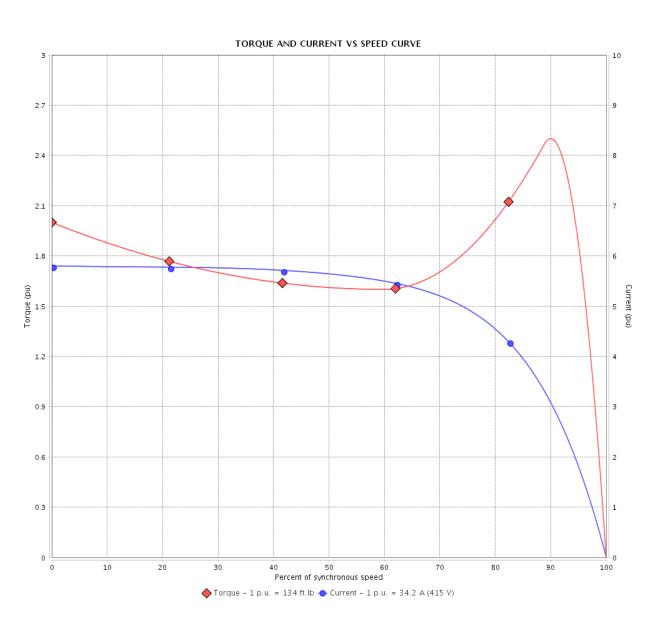


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Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase

Catalog #: 02512ET3E324JP-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)
Rated torque	: 134 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B
	00 (10 40 (0		

Locked rotor time : 32s (cold) 18s (hot)

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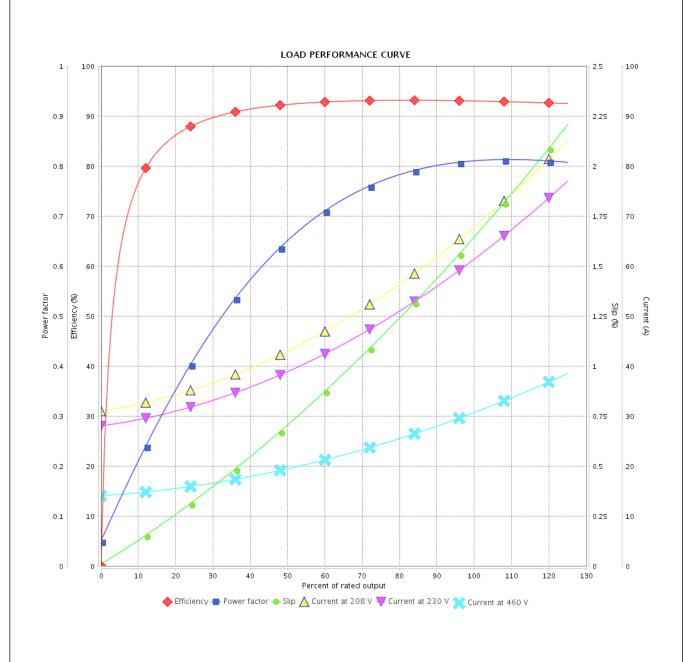
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase



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

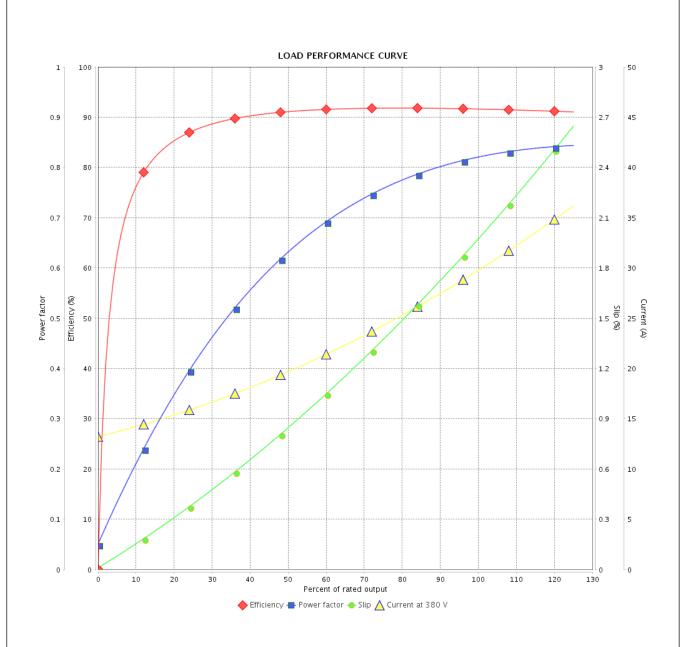
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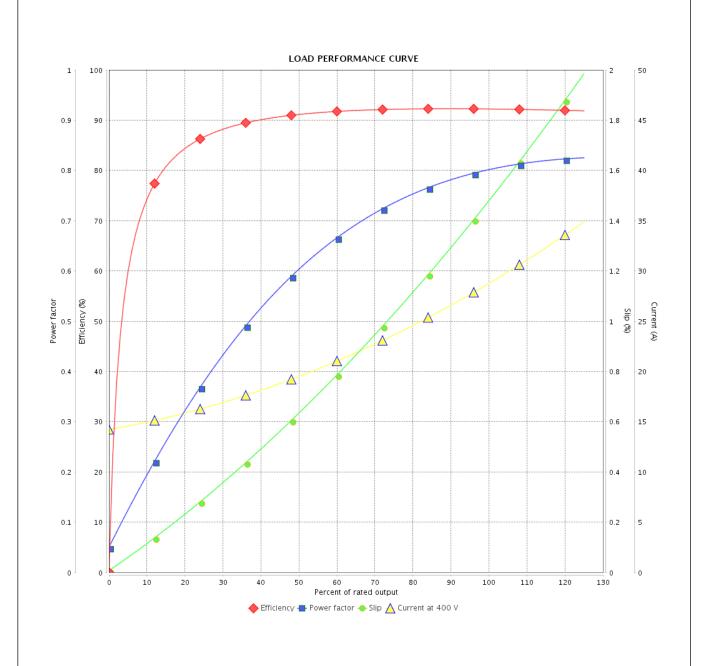
Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2	60.3 A 6.0 07 ft.lb 200 % 250 % 880 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12605578



Performance	: 4	400 V 50 Hz 6P IE3				
Rated current : 2		29.4 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC : 0		3.5	Duty cycle	:	: Cont.(S1)	
Rated torque :		107 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.15	
Breakdown torque		290 %	Temperatu	Temperature rise : 8		
Rated speed	: 9	985 rpm	Design	Design		
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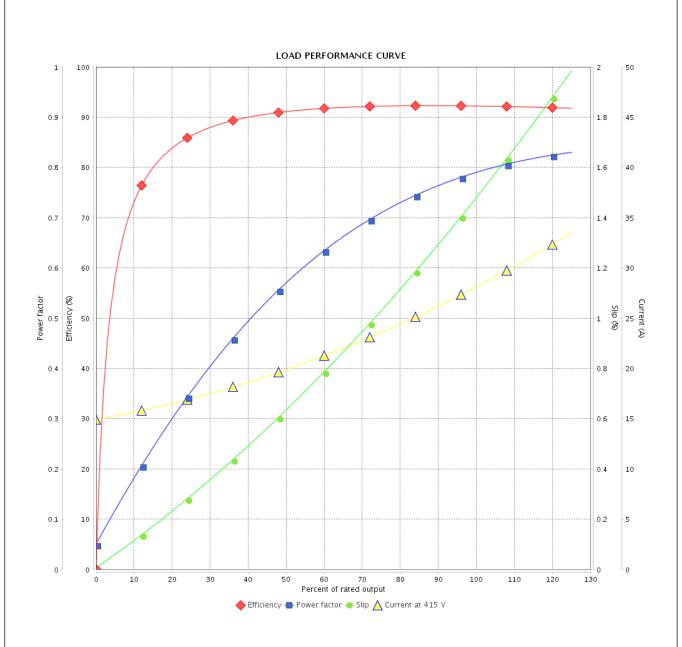
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Performance	: 415 V 50 Hz 6P I	E3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 28.6 A : 7.0 : 107 ft.lb : 250 % : 310 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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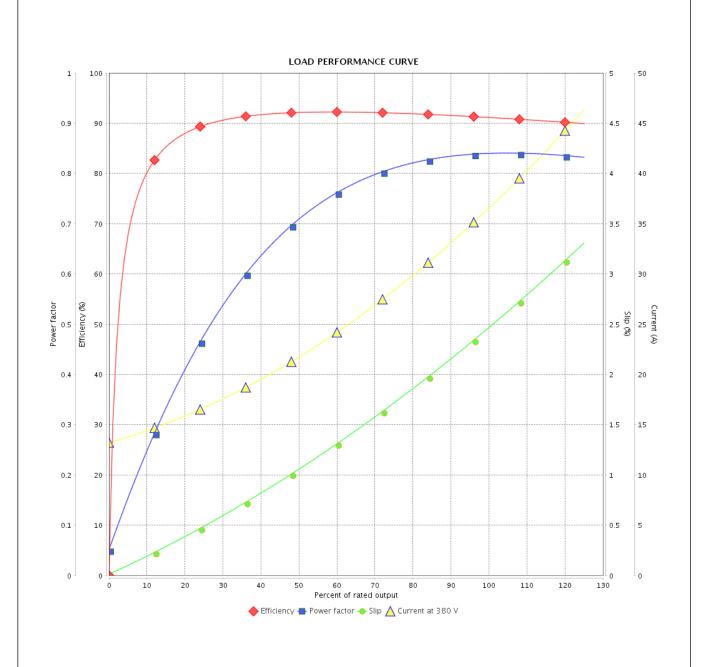
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase



Performance	: 3	880 V 50 Hz 6P IE2				
Rated current	: 3	86.8 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 4	l.9	Duty cycle		: Cont.(S1)	
Rated torque	: 1	35 ft.lb	Insulation	class	: F	
Locked rotor torqu	torque : 160 % Service factor		ctor	: 1.00		
Breakdown torque	: 2	200 %	Temperatu	Temperature rise		
Rated speed	: 9	975 rpm	Design		: B	
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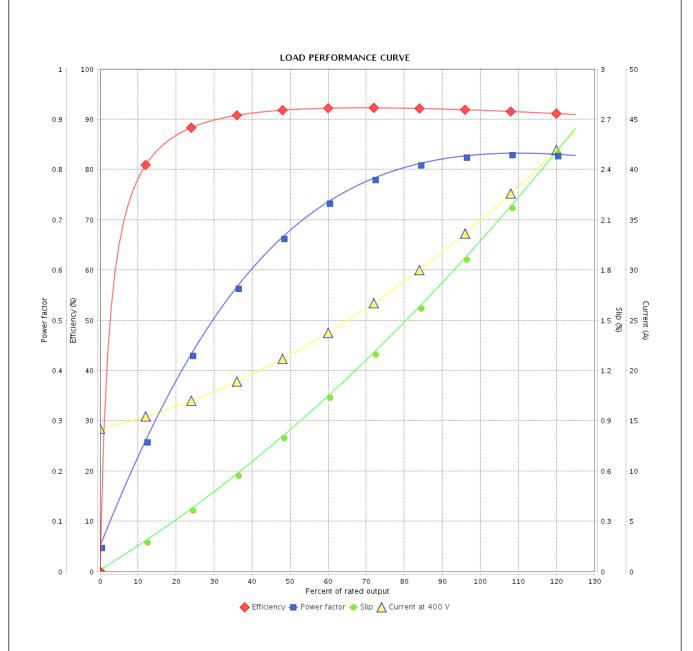
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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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 Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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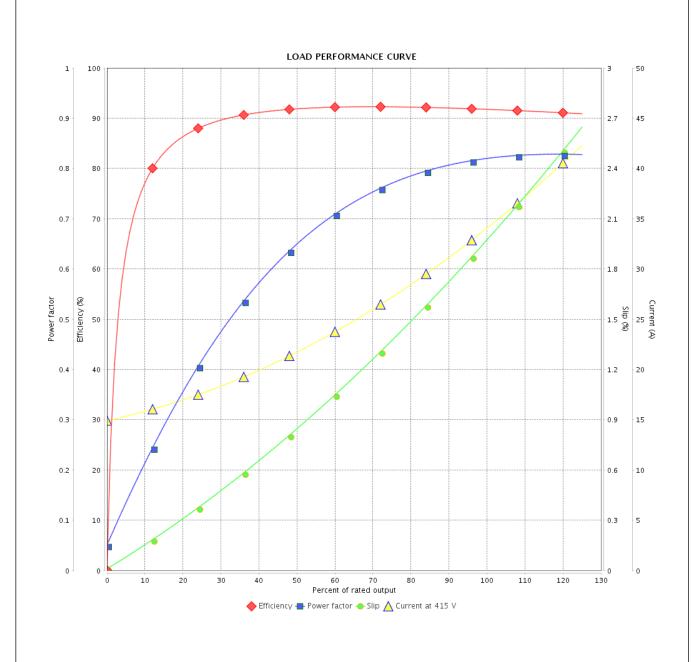
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	current : 34.2 A Momen		Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torqu	ed rotor torque : 200 % Service factor		ctor	: 1.15		
Breakdown torque	: 2	250 %	Temperatu	Temperature rise		
Rated speed	: 9	980 rpm	Design		: B	
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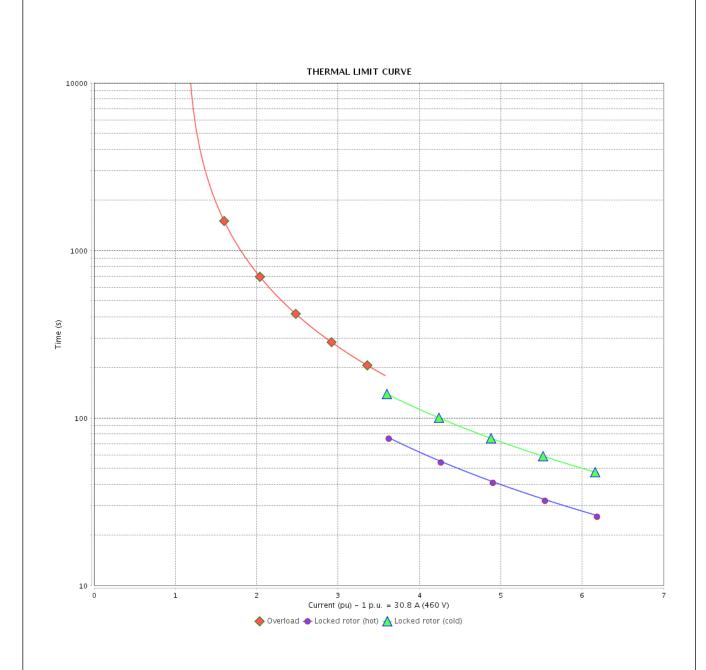


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Product line		NEMA Premium Efficiency	Three-	Product code :	12605578	
	P	hase	1	Catalog # :	02512ET3E32	24JP-W22
Performance	. 29	30/460 V 60 Hz 6P				
Rated current		1.6/30.8 A	Moment o	f inertia (J)	: 11.5 sq.ft.lb	
LRC	: 6.	2	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		11 ft.lb 10 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 26	60 %	Temperatu		: 80 K	
Rated speed	: 11	180 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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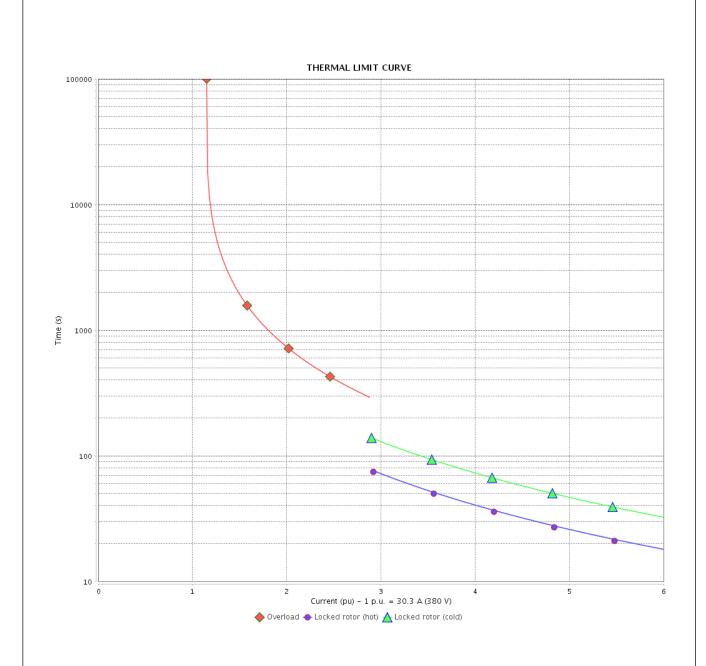


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12605578 02512ET3E32	4JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : :ue :e :	380 V 50 Hz 6P IE3 30.3 A 6.0 107 ft.lb 200 % 250 % 980 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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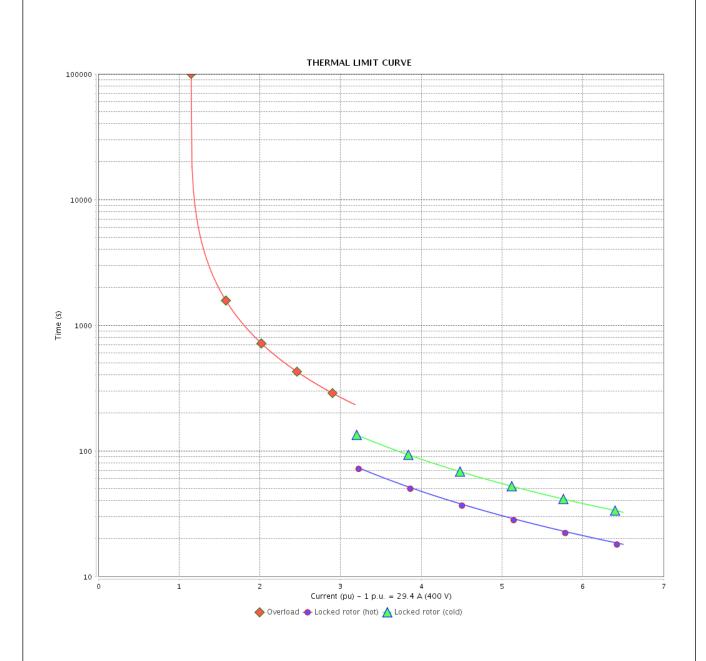


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12605578 02512ET3E32	04 IP-W22
					0201221020	
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 29.4 A	Moment of	of inertia (J)	: 11.5 sq.ft.lb	
LRC Rated torque		: 6.5 : 107 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 229 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 290 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan			- J ···			
Cooling constant						
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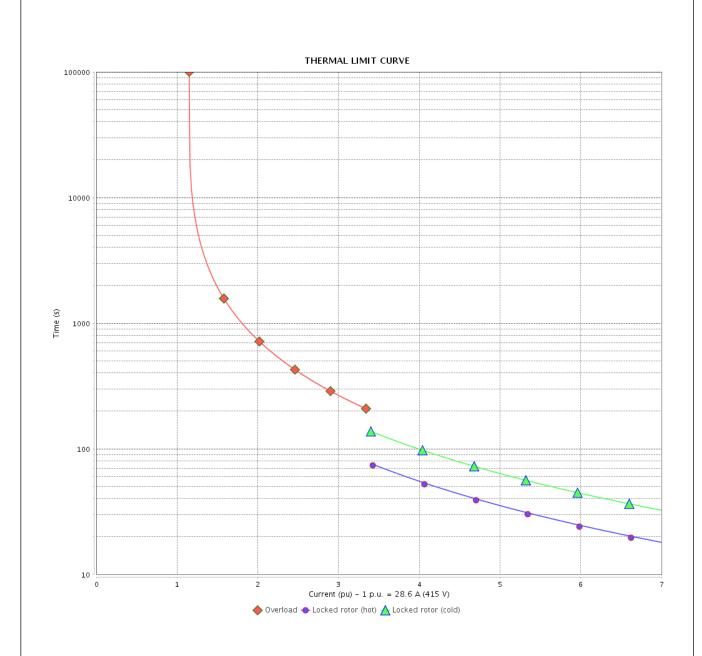


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12605578 02512ET3E32	24JP-W22
					02012210202	101 1122
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 28.6 A : 7.0	Moment o	of inertia (J)	: 11.5 sq.ft.lb	
Rated torque		: 107 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 250 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 310 % : 985 rpm	Temperat Design	uic lise	: 80 K : B	
Heating constan	t					
Cooling constant	t			T .		
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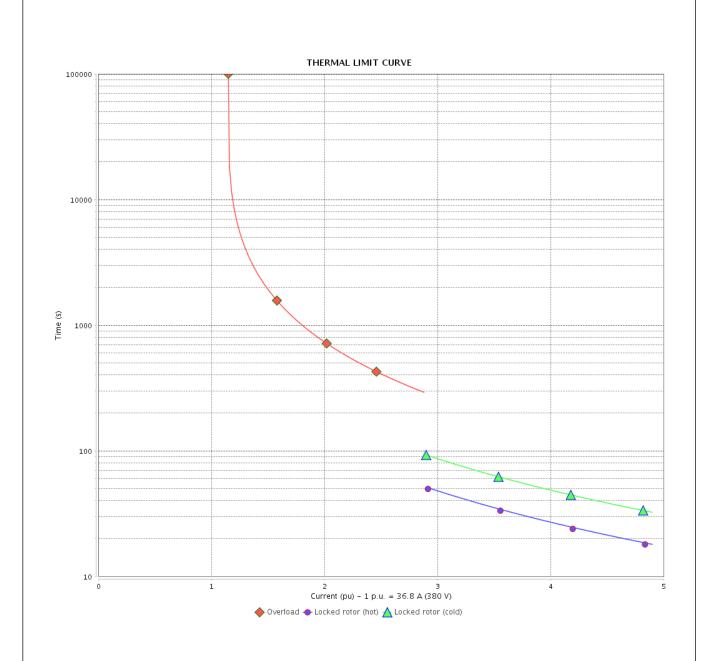


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12605578	
				Catalog # :	02512ET3E32	24JP-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current		: 36.8 A	Moment of	of inertia (J)	: 11.5 sq.ft.lb	
LRC Rated torque		: 4.9 : 135 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 160 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 200 % : 975 rpm	Temperat Design	ure rise	: 80 K : B	
		· / · / · · · · · · · · · · · · · · · 	_ 55.9.1		. –	
Heating constant Cooling constant						
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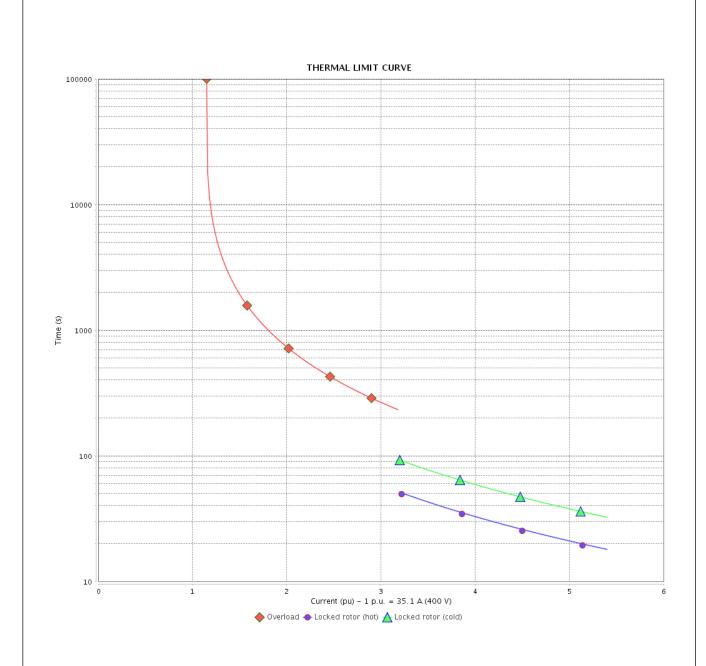


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Customer	:				
Product line	: NEMA Premium Efficiend Phase	cy Three-	Product code :	12605578	
	FilaSe		Catalog # :	02512ET3E	324JP-W22
Oorformanaa	· 400 \/ 50 H= 60 IE2				
Performance Rated current	: 400 V 50 Hz 6P IE3 : 35.1 A	Moment	of inertia (J)	: 11.5 sq.ft.lb	
.RC	: 5.4	Duty cyc	le	: Cont.(S1)	
Rated torque ocked rotor torque	: 134 ft.lb : 180 %	Insulatio Service f		: F : 1.15	
Breakdown torque	: 229 %	Tempera		: 80 K	
Rated speed	: 980 rpm	Design		: B	
leating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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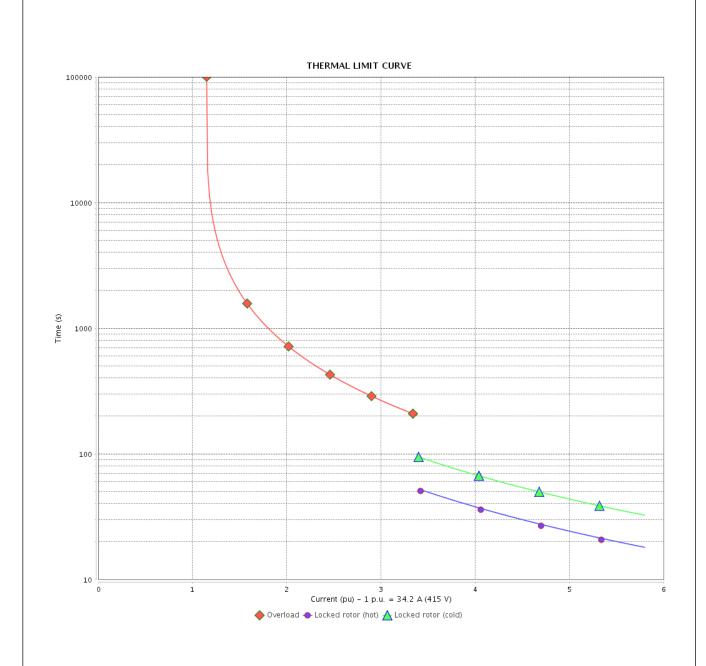


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Dun di cet lice		VIENA December 500	Thus -	Decelust d	40005570	
Product line		NEMA Premium Efficiency hase	rnree-	Product code :	12605578	
			1	Catalog # :	02512ET3E32	24JP-W22
Performance		15 V 50 Hz 6P IE3	1	5	44 = 6.11	
Rated current LRC	: 3 ² : 5.	4.2 A 8	Moment o Duty cycle	f inertia (J)	: 11.5 sq.ft.lb : Cont.(S1)	
Rated torque	: 13	34 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 50 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant						
Cooling constant						
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Product line : NEMA Premium Efficiency Three-

Phase

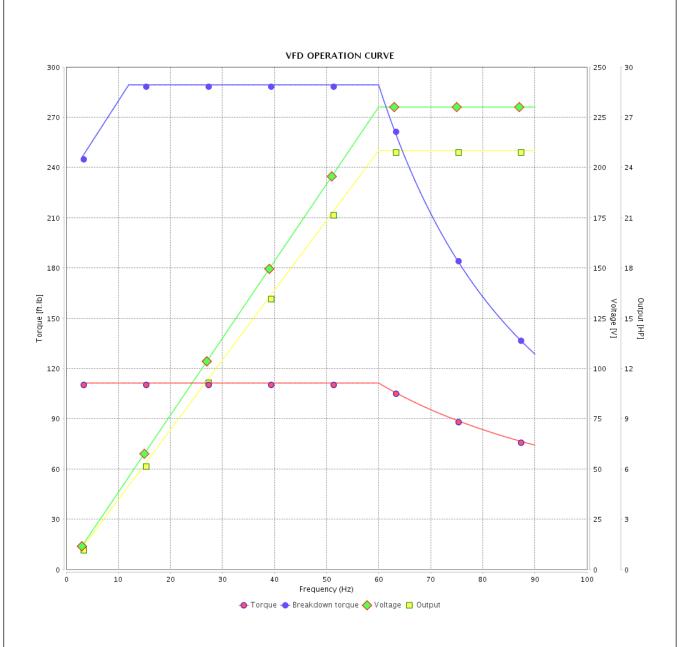
Product code: 12605578

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Performance		: 230/460 V 60 Hz 6	P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 61.6/30.8 A : 6.2 : 111 ft.lb : 210 % : 260 % : 1180 rpm	Duty control of the c	on class e factor rature rise	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



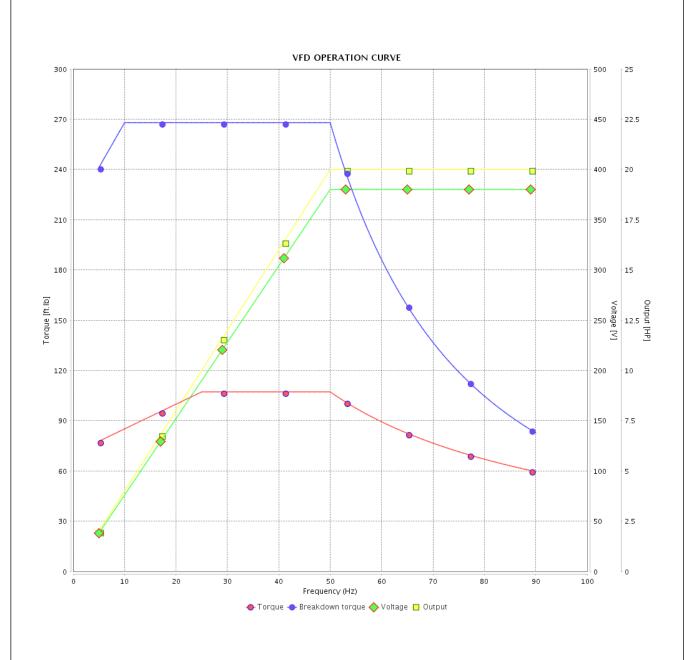
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase

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



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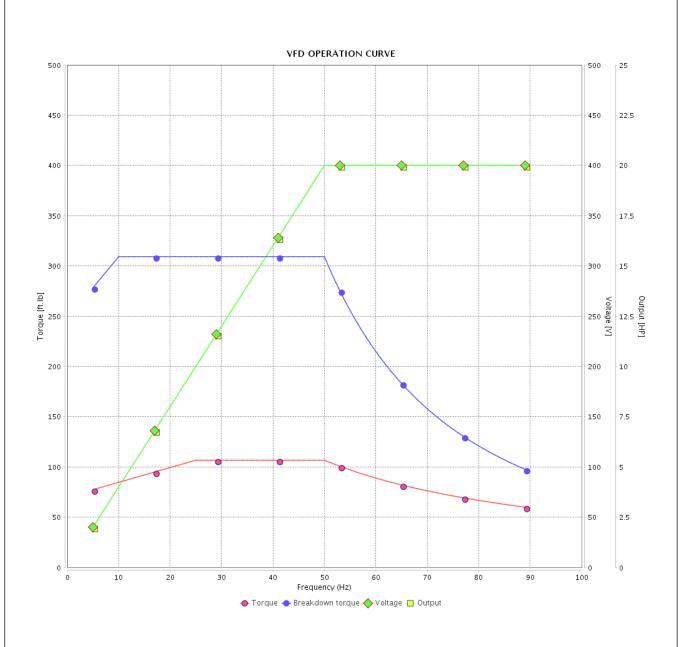
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12605578

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				,	
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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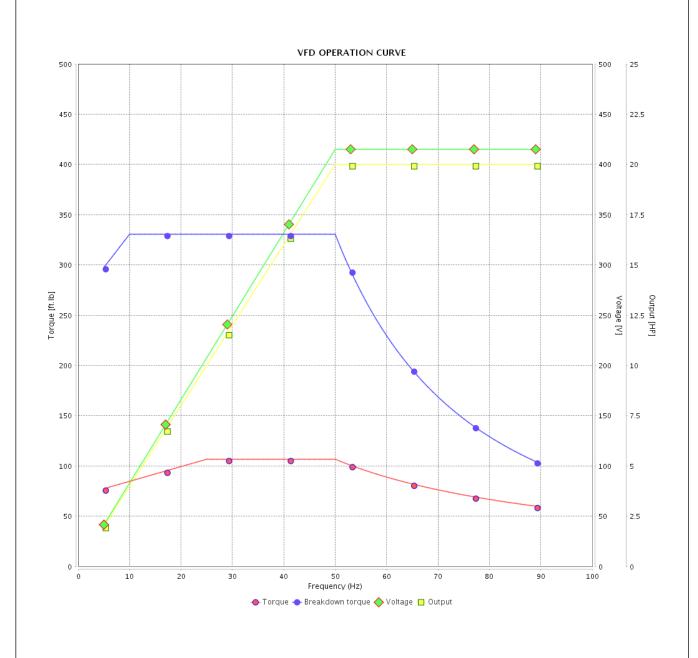
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 2	8.6 A	.6 A Moment of ine		: 11.5 sq.ft.lb	
LRC	: 7	.0	Duty cycle		: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	50 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 3	10 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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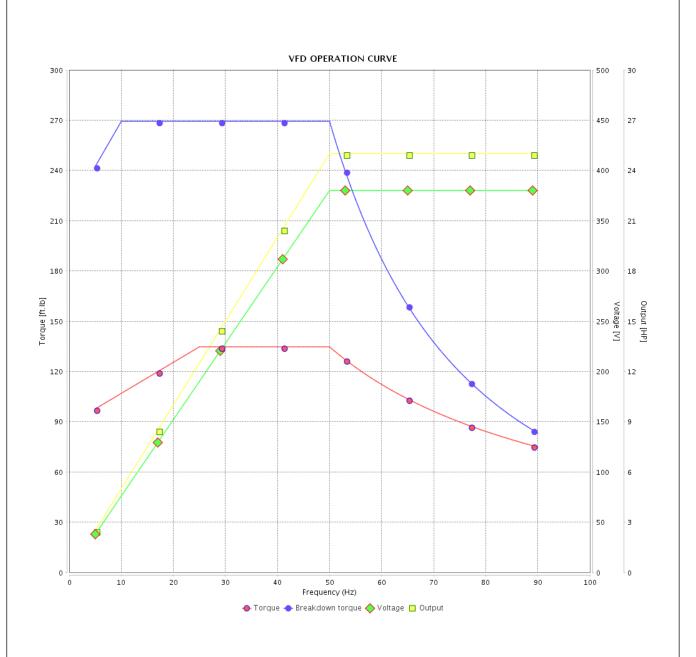


Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12605578



Performance		80 V 50 Hz 6P IE2				
Rated current	: 3	6.8 A Moment of inertia (J)		: 11.5 sq.ft.lb		
LRC	: 4	.9	Duty cycle		: Cont.(S1)	
Rated torque	: 1	35 ft.lb	Insulation class		: F ` ´	
Locked rotor torg	jue : 1	60 %	Service factor		: 1.00	
Breakdown torqu	ie : 2	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 9	75 rpm Design		: B		
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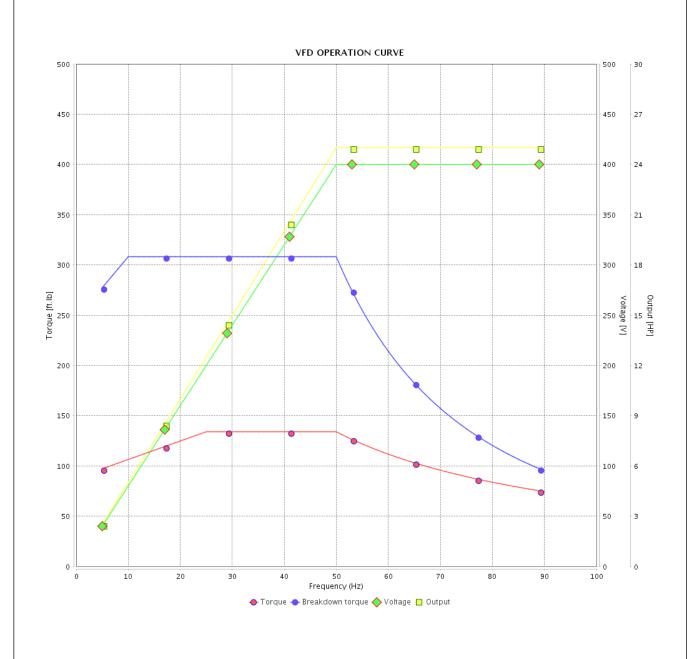
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 12605578

Phase



Performance	: 4	: 400 V 50 Hz 6P IE3						
Rated current	: 3	5.1 A Moment of inertia (J)		: 11.5 sq.ft.lb				
LRC	: 5	.4	Duty cycle		: Cont.(S1)			
Rated torque	:1	134 ft.lb Insulation Service		class	: F : 1.15			
Locked rotor torqu	ue : 1			ctor				
Breakdown torque	e : 2	29 %	Temperati	Temperature rise				
Rated speed	: 9	80 rpm	Design		: B			
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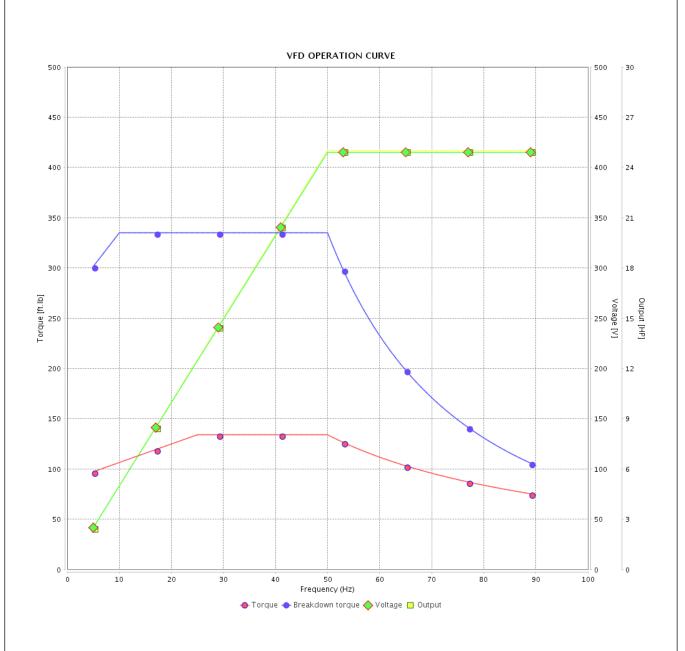
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12605578

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		·						
Performance	: 415 V 50 Hz 6P IE3	: 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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 11.5 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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