### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line	: IE3 T	hree-Phas	e		Produ	ict coc	de: 13147	7927
Insulation class : F Duty cycle : S1				Mounting : Rotation <sup>1</sup> :		: B3T : Both	: IC411 - TEFC : B3T : Both (CW and CCW) : Direct On Line	
Altitude Protection degree Design		: 1000 m : IP55 : N	ı.a.s.l.		Approx. weigh Moment of ine	nt³	: 97.0 J) : 0.43	lb 19 sq.ft.lb
Output [kW]			4		4		4	4
Poles			4		4		4	4
Frequency [Hz]			50		50		50	60
Rated voltage [V]		38	0/660		400/690		415	460
Rated current [A]		8.4	7/4.88	8	3.20/4.75		8.09	7.28
L. R. Amperes [A]		59.	3/34.2	5	57.4/33.2		56.6	58.2
LRC [A]		,	7.0		7.0		7.0	8.0
No load current [A]		4.1	5/2.39	4	1.60/2.67		4.95	4.25
Rated speed [RPM			445		1450		1455	1755
Slip [%]	-		3.67		3.33		3.00	2.50
Rated torque [ft.lb]			9.5		19.4		19.4	16.1
	ked rotor torque [%]		200		229		260	250
Breakdown torque [%]		270			310		340	350
Service factor		1.00			1.00		1.00	1.25
Temperature rise			80 K		80 K		80 K	80 K
Locked rotor time				27s (c	cold) 15s (hot)	27s	(cold) 15s (hot)	34s (cold) 19s (hot)
Noise level <sup>2</sup>			56.0 dB(A)		6.0 dB(A)		(*****)	56.0 dB(A)
110.00	25%	0.000			0.000		0.000	0.000
	50%		89.3		88.7		88.2	87.5
Efficiency (%)	75%		39.0		89.1		88.9	89.5
Efficiency (%)	100%		38.6		89.1		89.3	89.5
	25%		0.00		0.00		0.00	0.00
	50%		0.65		0.60		0.57	0.58
Power Factor	75%		0.76		0.72		0.70	0.70
	100%		).81		0.79		0.77	0.77
								0.11
Losses at normati				n percer		utput p		
	P1 (0,		12.2		11.6		11.4	10.6
	P2 (0,		11.0		10.4		10.2	9.5
	P3 (0,2		11.7		11.1		10.9	10.1
Losses (%)		9;0,5)	6.3		6.0		5.9	5.4
		5;0,5)	4.8		4.6		4.5	4.2
		5;0,25)	3.5		3.4		3.3	3.1
	P7 (0,2	5;0,25)	2.8		2.6		2.6	2.4
Dogring type		Drive 6		ive end	Foundation loa	ads		
Bearing type : 6307 ZZ 6206 Z			Max. traction		: 312			
Sealing	: V'Ring V'Ring		_	Max. compres	sion	: 409 I	D	
Lubrication interv		: 01		0 h				
Lubricant amount Lubricant type		: 0 <u>(</u>	g obil Polyrex E	0 g EM				
This revision repla must be eliminated (1) Looking the mo	d.		vious one, wh	nich				ests with sinusoidal s stipulated in IEC

- (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.

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# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage



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#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

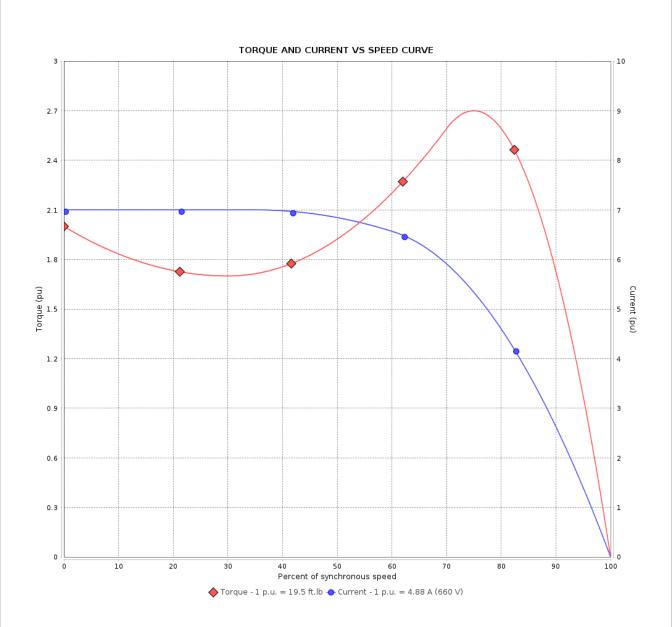
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### Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : IE3 Three-Phase Product code : 13147927



: 380/660 V 50 Hz 4P		
: 8.47/4.88 A	Moment of inertia (J)	: 0.4319 sq.ft.lb
: 7.0	Duty cycle	: S1
: 19.5 ft.lb	Insulation class	: F
: 200 %	Service factor	: 1.00
: 270 %	Temperature rise	: 80 K
: 1445 rpm	Design	: N
	: 8.47/4.88 A : 7.0 : 19.5 ft.lb : 200 % : 270 %	: 7.0 Duty cycle : 19.5 ft.lb Insulation class : 200 % Service factor : 270 % Temperature rise

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

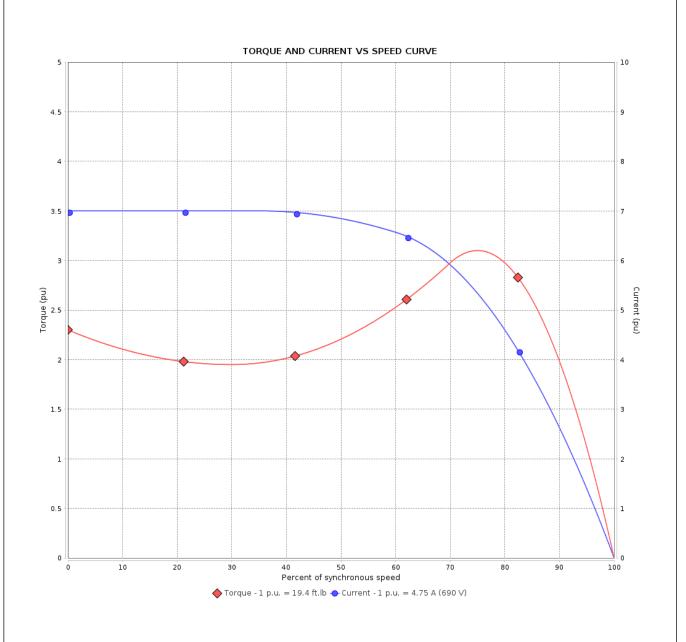
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance	: 400/690 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8.20/4.75 A : 7.0 : 19.4 ft.lb : 229 % : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.4319 sq.ft.lb : S1 : F : 1.00 : 80 K
Rated speed	: 1450 rpm	Design	: N

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

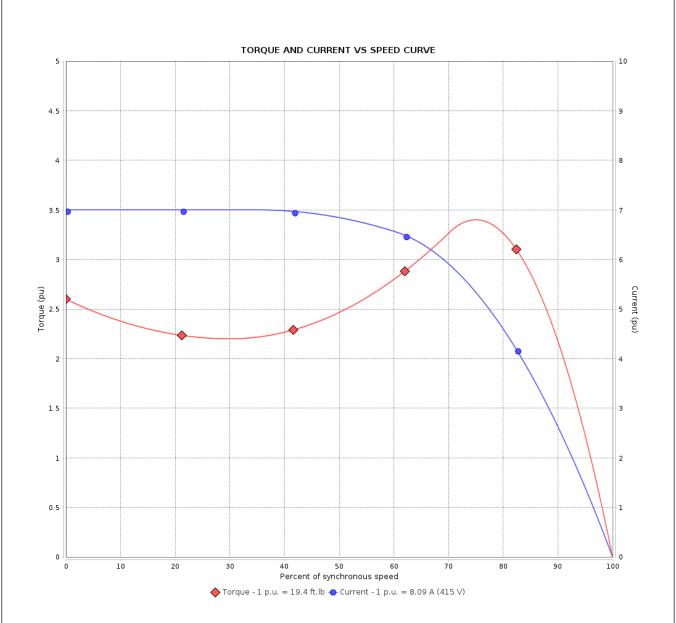
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### Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : IE3 Three-Phase Product code : 13147927



Performance	: 415 V 50 Hz 4P			
Rated current	: 8.09 A	Moment of inertia (J)	: 0.4319 sq.ft.lb	
LRC	: 7.0	Duty cycle	: S1	
Rated torque	: 19.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 1455 rpm	Design	: N	

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

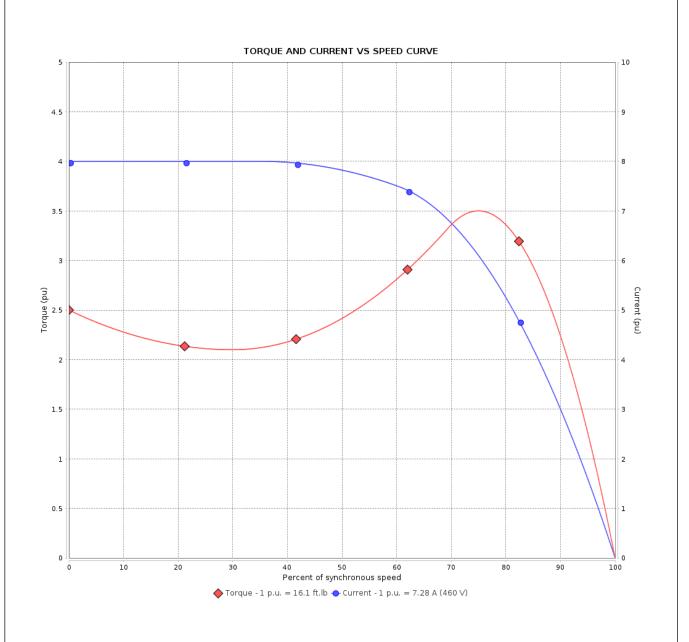
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.28 A : 8.0 : 16.1 ft.lb : 250 % : 350 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4319 sq.ft.lb : S1 : F : 1.25 : 80 K : N	

Locked rotor time : 34s (cold) 19s (hot)

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### Three Phase Induction Motor - Squirrel Cage



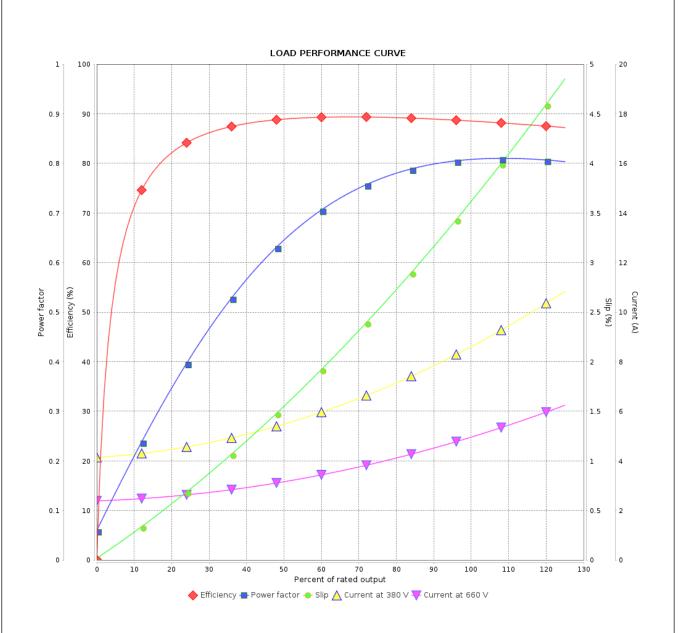
Customer :

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Date

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Product line : IE3 Three-Phase Product code : 13147927



Performance	:	380/660 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	8.47/4.88 A 7.0 19.5 ft.lb 200 % 270 % 1445 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ector	: 0.4319 sq.ft.l : S1 : F : 1.00 : 80 K : N	lb
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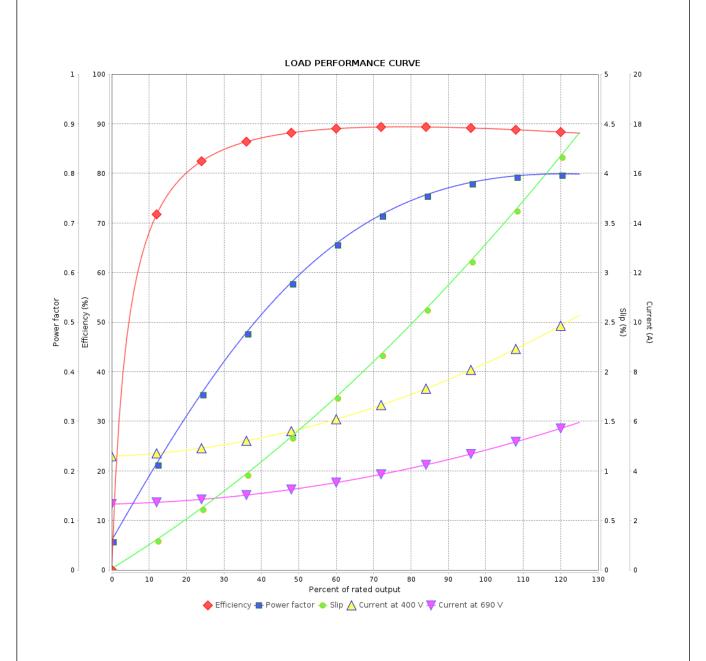
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### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code : 13147927



Performance	: 40	00/690 V 50 Hz 4P				
Rated current LRC			ı	Moment of inertia (J)		.lb
Rated torque				Duty cycle Insulation class		
Locked rotor torque		29 %		Service factor		
Breakdown torqu		10 %	Temperature rise		: 80 K	
Rated speed	: 14	450 rpm	Design		: N	
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### Three Phase Induction Motor - Squirrel Cage



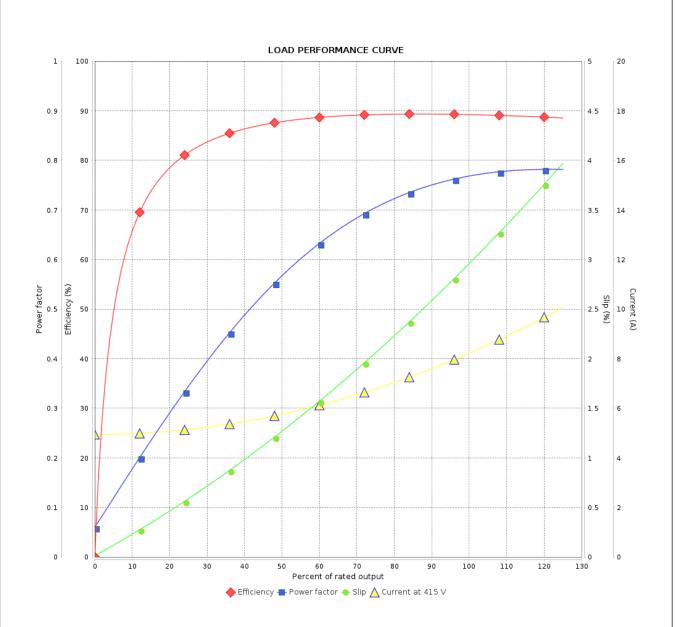
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Product line : IE3 Three-Phase Product code : 13147927



Performance	: 4	15 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 jue : 2 ie : 3	8.09 A 7.0 9.4 ft.lb 160 % 140 % 455 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.4319 sq.ft.I : S1 : F : 1.00 : 80 K : N	b
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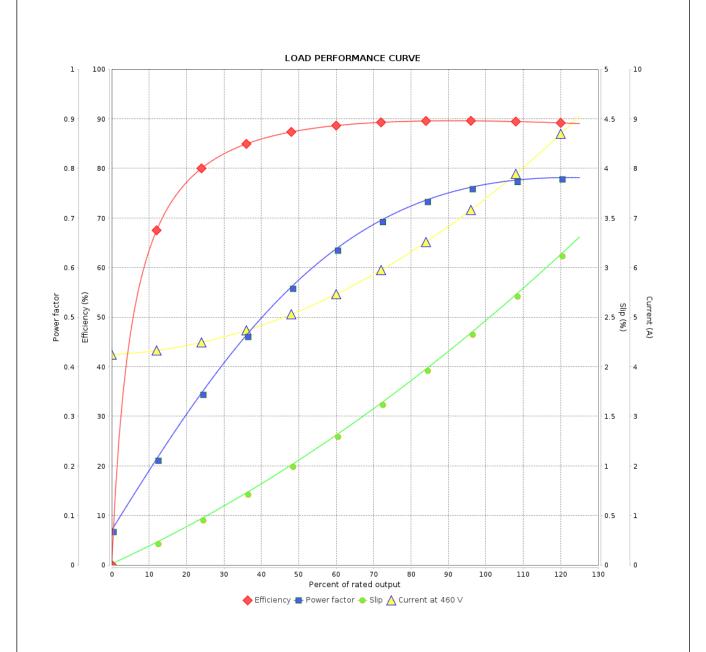
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance	: 46	60 V 60 Hz 4P				
Rated current	: 7.	28 A	Moment of	of inertia (J)	: 0.4319 sq.ft.lb	
LRC	: 8.	.0	Duty cycle	9	: S1	
Rated torque	: 16	6.1 ft.lb	Insulation	class	: F	
		50 %	Service fa	actor	: 1.25	
Breakdown torqu	e : 3	50 %	Temperat	Temperature rise		
Rated speed	: 17	755 rpm Design		: N		
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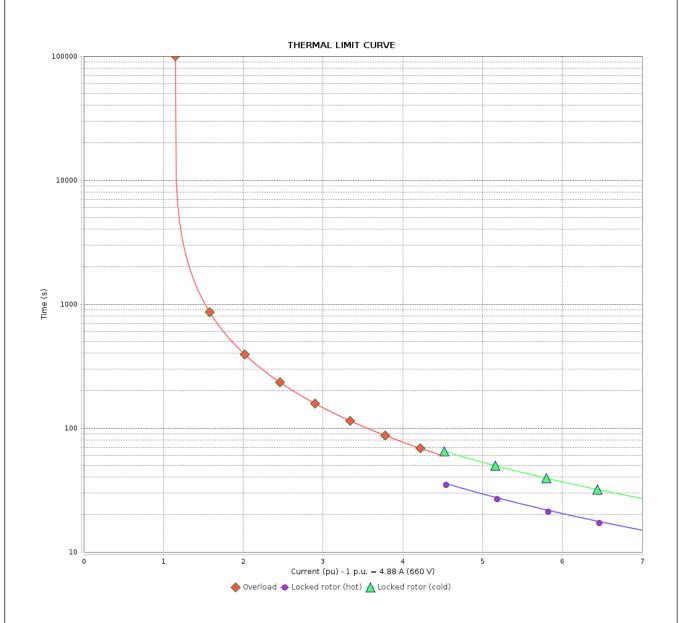
#### Three Phase Induction Motor - Squirrel Cage



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Product line : IE3 Three-Phase

Product code: 13147927



Performance : 380/660 V 50 Hz 4P Rated current : 8.47/4.88 A Moment of inertia (J) : 0.4319 sq.ft.lb **LRC** : 7.0 Duty cycle : S1 Insulation class : 19.5 ft.lb : F Rated torque : 200 % : 1.00 Locked rotor torque Service factor Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1445 rpm Design Heating constant

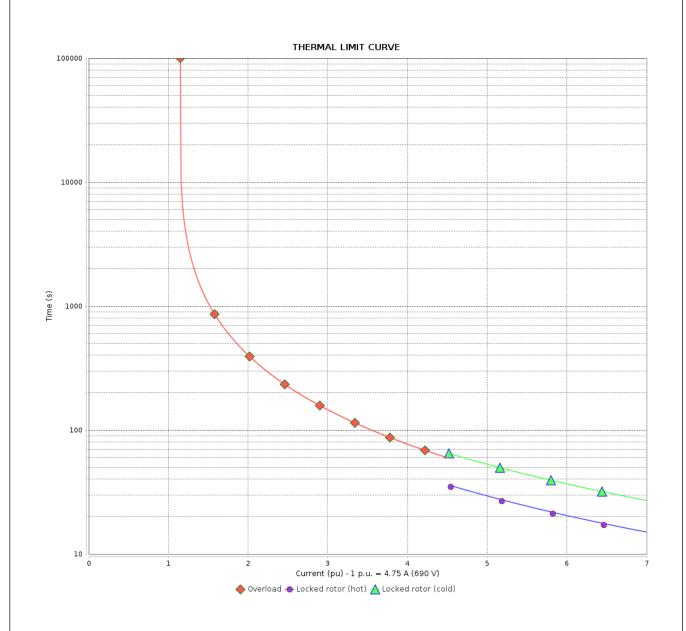
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance : 400/690 V 50 Hz 4P : 8.20/4.75 A Moment of inertia (J) : 0.4319 sq.ft.lb Rated current **LRC** Duty cycle : S1 : 7.0 Insulation class : F Rated torque : 19.4 ft.lb Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 310 % : 80 K Temperature rise Rated speed : 1450 rpm Design : N Heating constant

Cooling constant

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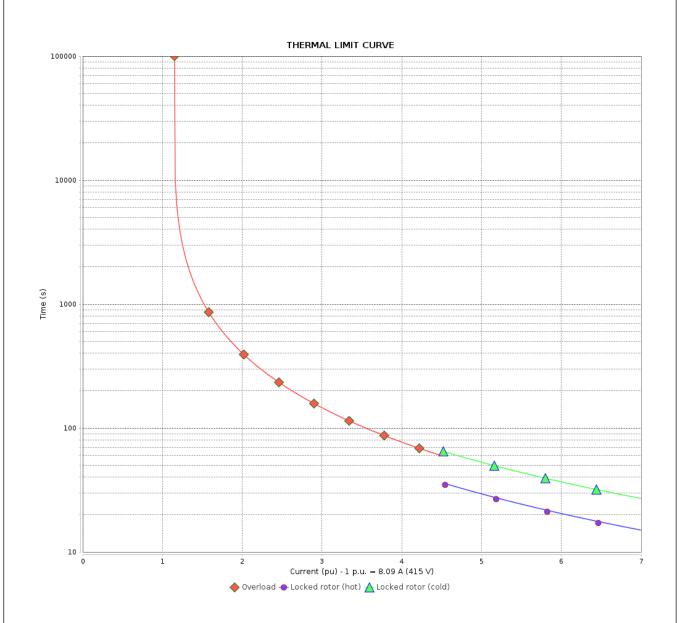
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Product line : IE3 Three-Phase

Product code: 13147927



Performance : 415 V 50 Hz 4P Rated current : 8.09 A Moment of inertia (J) : 0.4319 sq.ft.lb **LRC** : 7.0 Duty cycle : S1 Insulation class : 19.4 ft.lb : F Rated torque : 260 % : 1.00 Locked rotor torque Service factor Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1455 rpm Design Heating constant

Heating constant

Cooling constant

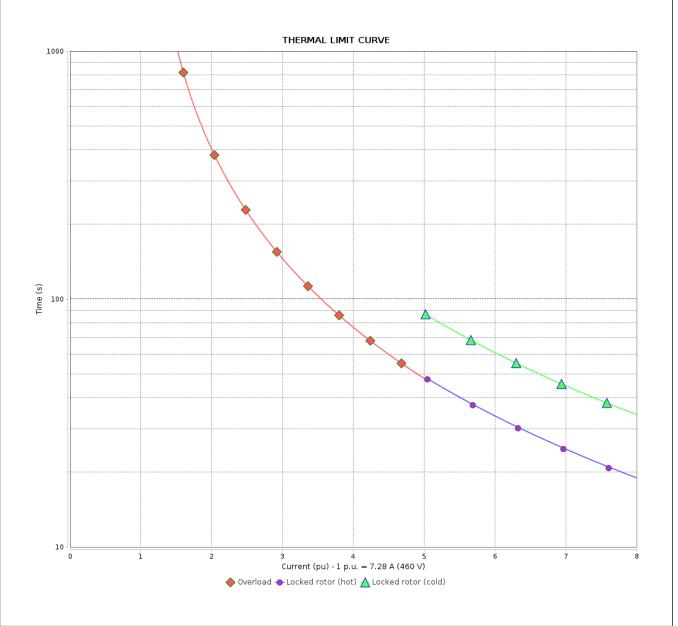
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance : 460 V 60 Hz 4P : 7.28 A Moment of inertia (J) : 0.4319 sq.ft.lb Rated current **LRC** : 8.0 Duty cycle : S1 Insulation class : F Rated torque : 16.1 ft.lb Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 350 % : 80 K Temperature rise Rated speed : 1755 rpm Design : N Heating constant

Heating constant Cooling constant

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### Three Phase Induction Motor - Squirrel Cage

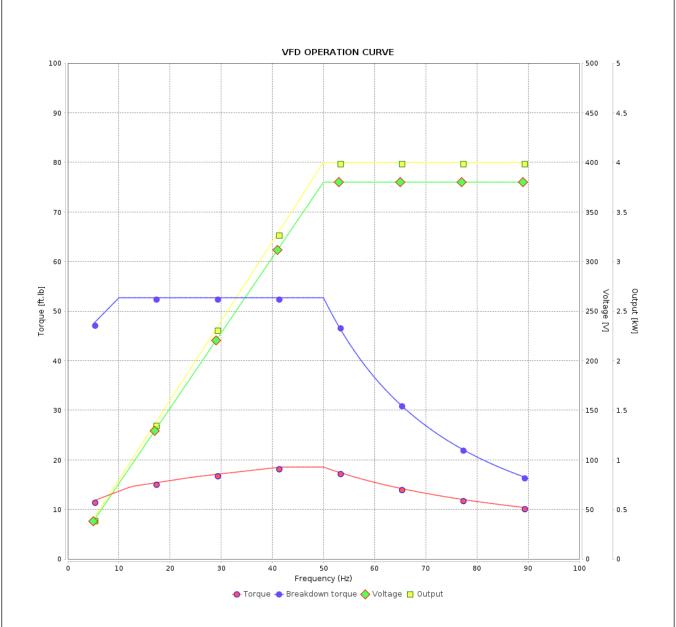


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Product line : IE3 Three-Phase Product code: 13147927



Performance	::	380/660 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ::	8.47/4.88 A 7.0 19.5 ft.lb 200 % 270 % 1445 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.4319 sq.ft.l : S1 : F : 1.00 : 80 K : N	b
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### Three Phase Induction Motor - Squirrel Cage



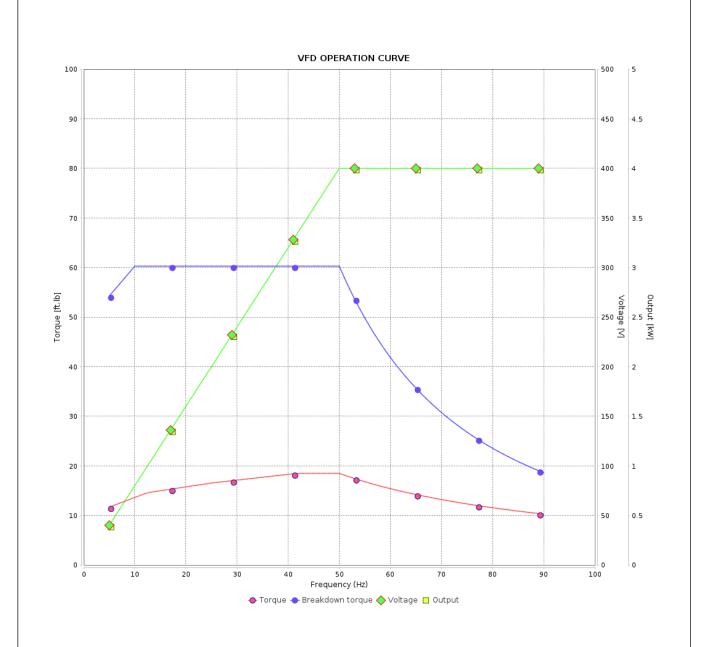
Customer :

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Product line : IE3 Three-Phase Product code : 13147927



Performance	: 400/690 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.20/4.75 A : 7.0 : 19.4 ft.lb : 229 % : 310 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4319 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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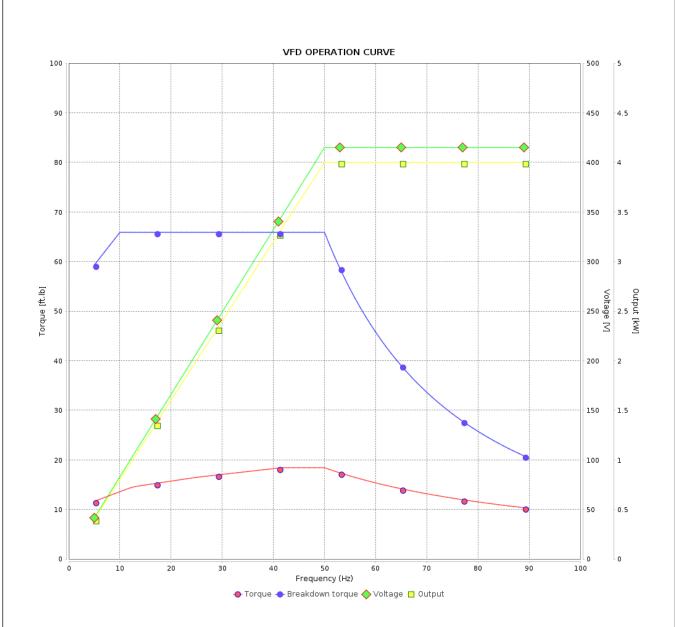


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Product line : IE3 Three-Phase Product code: 13147927



Performance		: 415 V 50 Hz	z 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 8.09 A : 7.0 : 19.4 ft.lb : 260 % : 340 % : 1455 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4319 sq.ft. : S1 : F : 1.00 : 80 K : N	lb
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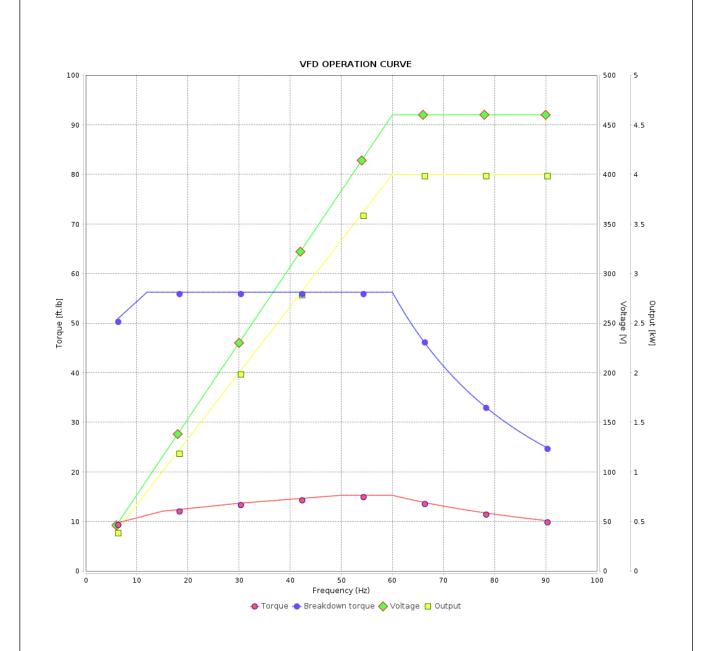
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13147927



Performance	: 460 \	/ 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	ft.lb % %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4319 sq.ft.lb : S1 : F : 1.25 : 80 K : N	
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