#### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13924341

Frame : 132S Cooling method : IC411 - TEFC

Insulation class : F Mounting : B14T

Duty cycle : 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. weight<sup>3</sup> : 140 lb

Protection degree : IP55 Moment of inertia (J) : 1.16 sq.ft.lb Design : N Output [kW] 5.5 5.5 5.5 5.5 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 10.8/6.22 10.5/6.09 10.4 9.18 87.2/50.5 L. R. Amperes [A] 81.0/46.6 91.5 82.6 LRC [A] 9.0 7.5 8.3 8.8 No load current [A] 4.70/2.71 5.20/3.01 5.60 4.70 Rated speed [RPM] 1470 1770 1460 1465 Slip [%] 2.67 2.33 2.00 1.67 Rated torque [ft.lb] 21.9 26.5 26.5 26.4 Locked rotor torque [%] 229 250 250 210 Breakdown torque [%] 330 360 390 300 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 28s (cold) 16s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 58.0 dB(A) 25% 50% 89.0 89.0 89.4 90.2 Efficiency (%) 75% 89.6 89.6 89.6 91.0 100% 89.7 91.7 89.6 89.8 25% 50% 0.71 0.66 0.63 0.65 Power Factor 75% 0.81 0.78 0.75 0.76

Drive end Non drive end Foundation loads

0.84

Bearing type : 6308 ZZ 6207 ZZ Max. traction : 412 lb Sealing : Oil Seal Lip Seal Max. compression : 551 lb

0.86

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

100%

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 IEC 60034-1.

0.82

0.82

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# DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

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

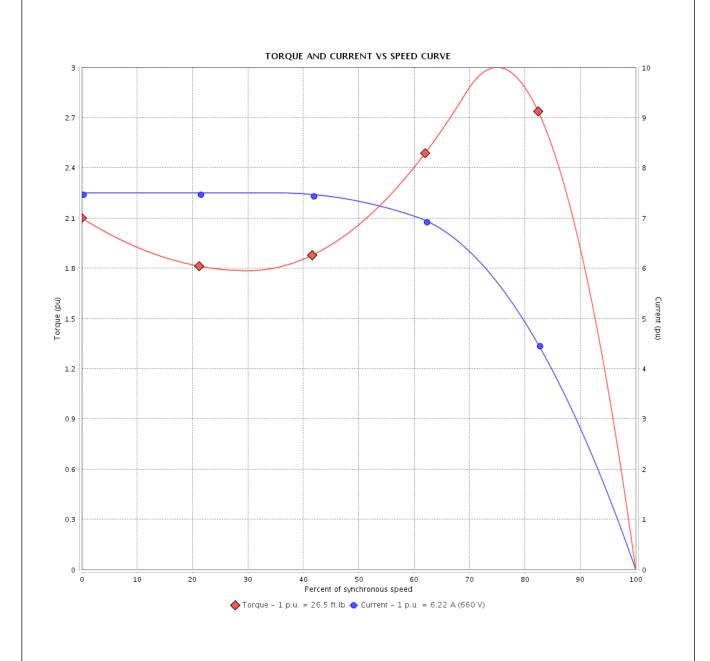
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13924341



Performance : 380/660 V 50 Hz 4P Rated current : 10.8/6.22 A Moment of inertia (J) : 1.16 sq.ft.lb **LRC** : 7.5 Duty cycle : S1 : 26.5 ft.lb Insulation class : F Rated torque : 210 % : 1.00 Locked rotor torque Service factor : 300 % : 80 K Breakdown torque Temperature rise : N Rated speed : 1460 rpm Design

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

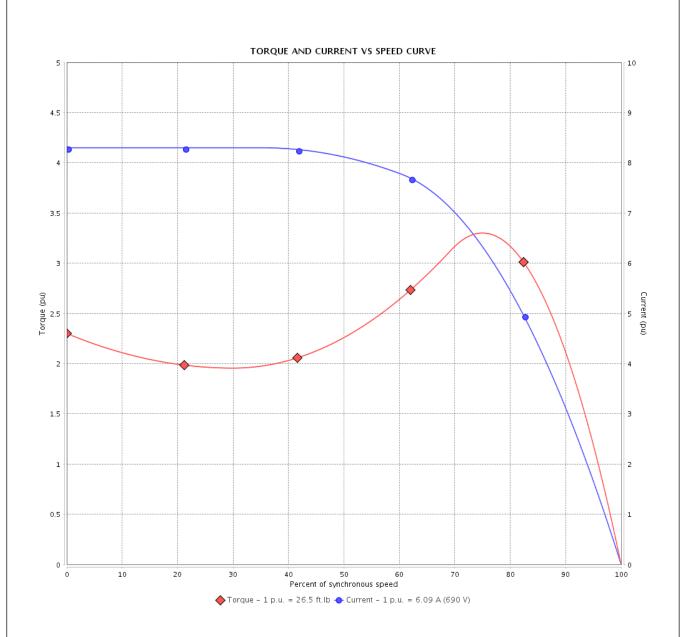
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : IE3 Three-Phase Product code : 13924341



 Performance
 : 400/690 V 50 Hz 4P

 Rated current
 : 10.5/6.09 A
 Moment of inertia (J)
 : 1.16 sq.ft.lb

LRC : 8.3 Duty cycle : S1 Rated torque : 26.5 ft.lb Insulation class : F Service factor : 1.00 Locked rotor torque : 229 % : 80 K Breakdown torque : 330 % Temperature rise Rated speed : N : 1465 rpm Design

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

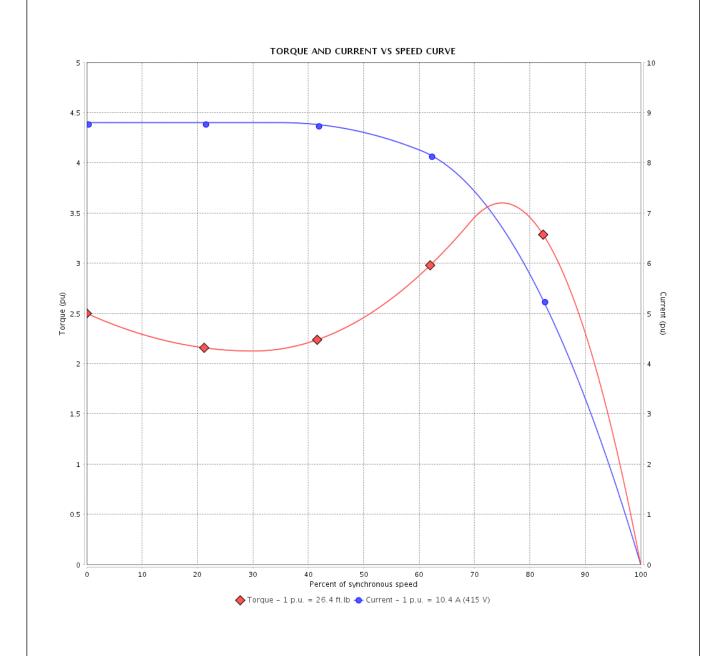
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase Product code : 13924341



Performance	: 415 V 50 Hz 4P			
Rated current	: 10.4 A	Moment of inertia (J)	: 1.16 sq.ft.lb	
LRC	: 8.8	Duty cycle	: S1	
Rated torque	: 26.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 250 %	Service factor	: 1.00	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: N	

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

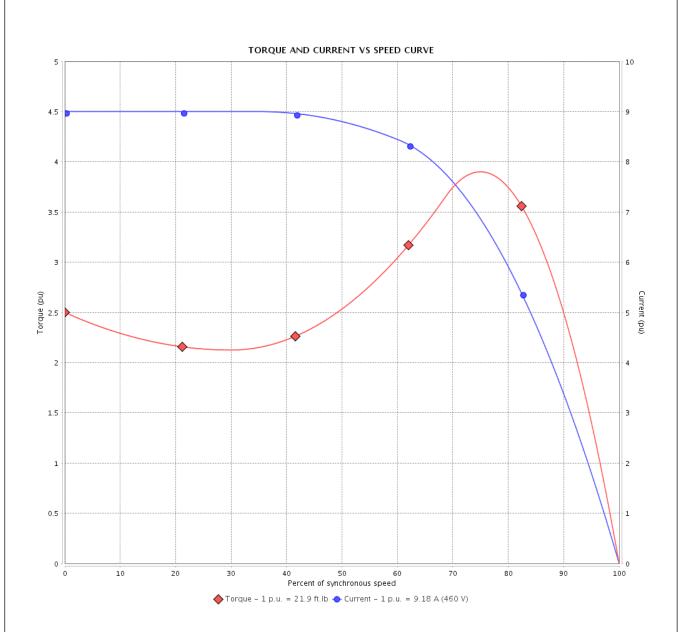
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### Three Phase Induction Motor - Squirrel Cage



Customer		
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Product line : IE3 Three-Phase Product code : 13924341



Performance	: 460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.18 A : 9.0 : 21.9 ft.lb : 250 % : 390 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N

Locked rotor time : 28s (cold) 16s (hot)

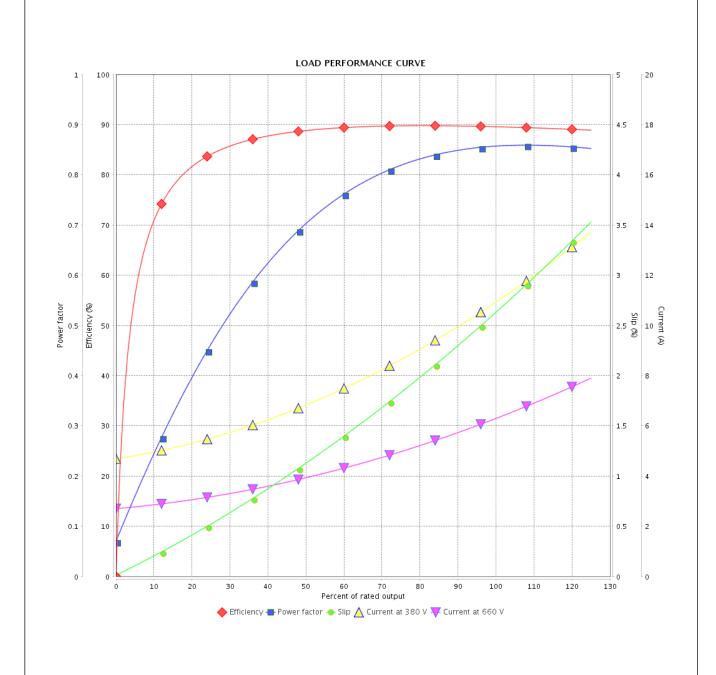
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code: 13924341



Performance	: 3	80/660 V 50 Hz 4P				
Rated current	: 1	0.8/6.22 A	B/6.22 A Moment of inertia (J)		: 1.16 sq.ft.lb	
LRC	: 7	.5	Duty cycle	•	: S1	
Rated torque	: 2	6.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ictor	: 1.00	
Breakdown torque	: 3	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	460 rpm	Design		: N	
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#### Three Phase Induction Motor - Squirrel Cage



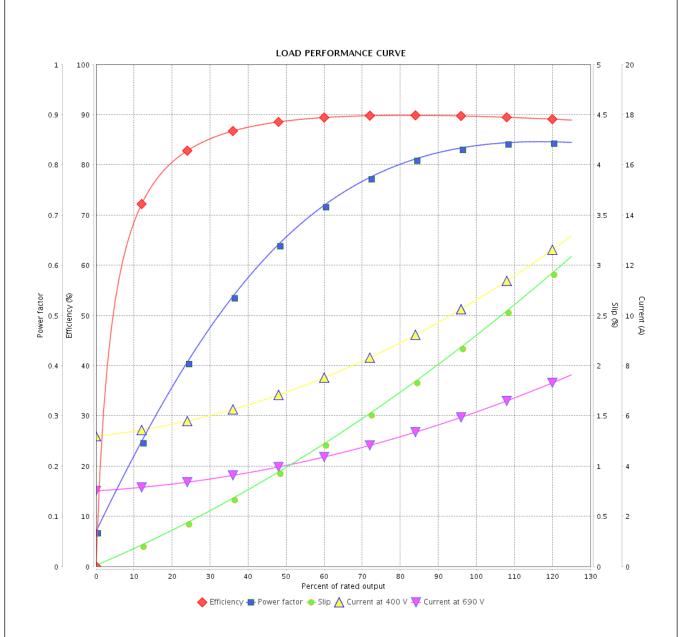
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Product line : IE3 Three-Phase Product code : 13924341



	,					
Performance	:	400/690 V 50 Hz 4F	•			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: : : : : : : : :	10.5/6.09 A 8.3 26.5 ft.lb 229 % 330 % 1465 rpm	Moment on Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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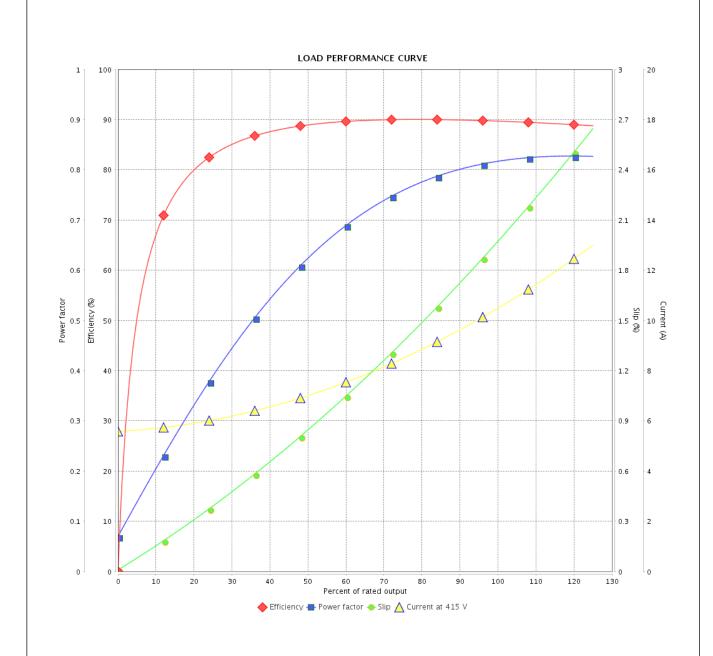
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code : 13924341



Performance	: 4	415 V 50 Hz 4P				
Rated current	:	10.4 A	Moment o	f inertia (J)	: 1.16 sq.ft.lb	
LRC	: 8	8.8	Duty cycle	<b>;</b>	: S1	
Rated torque	: :	26.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : :	250 %	Service fa	ctor	: 1.00	
Breakdown torque	::	360 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1470 rpm	Design		: N	
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#### Three Phase Induction Motor - Squirrel Cage



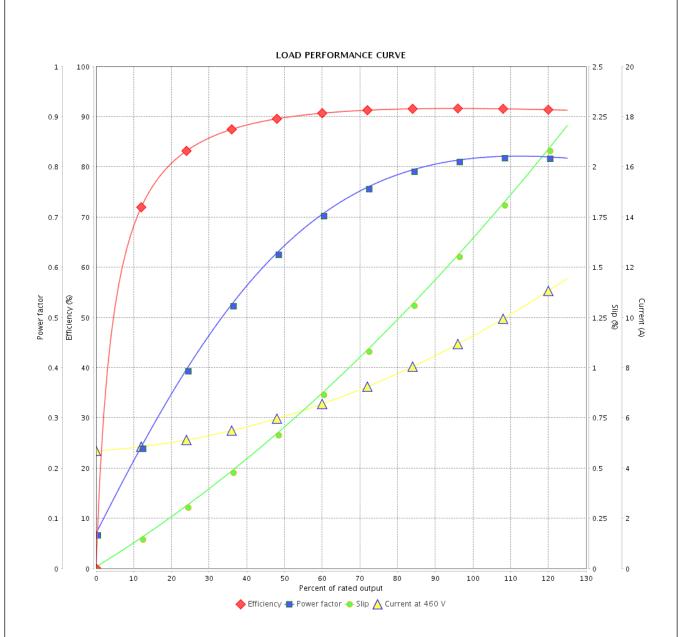
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Product line : IE3 Three-Phase Product code : 13924341



Performance	: 4	60 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 2 jue : 2 ie : 3	1.18 A 1.0 11.9 ft.lb 150 % 190 % 770 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ector	: 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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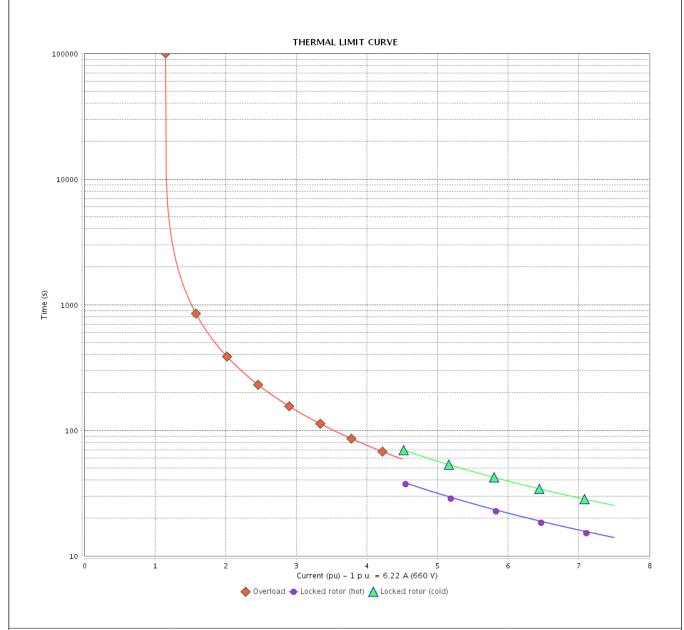
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code: 13924341



Performance : 380/660 V 50 Hz 4P Rated current : 10.8/6.22 A Moment of inertia (J) : 1.16 sq.ft.lb **LRC** : 7.5 Duty cycle : S1 Insulation class : 26.5 ft.lb : F Rated torque : 1.00 Locked rotor torque : 210 % Service factor Breakdown torque : 300 % : 80 K Temperature rise Rated speed : 1460 rpm Design : N Heating constant

Cooling constant

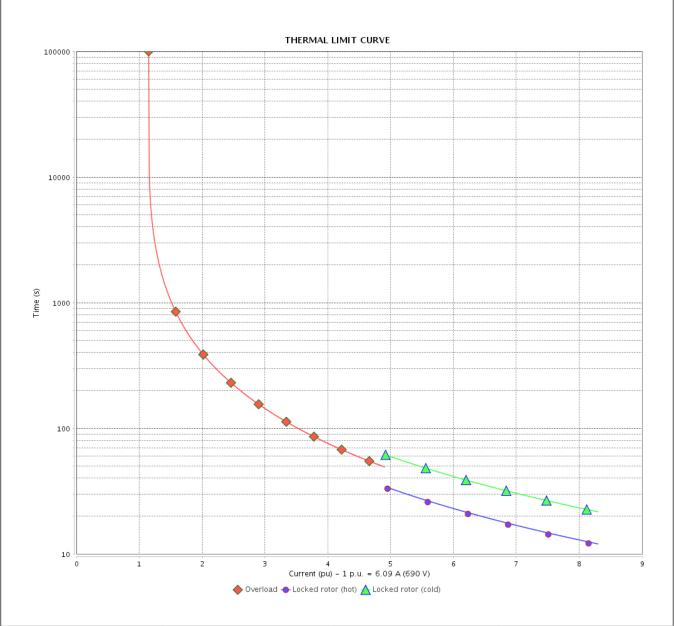
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : IE3 Three-Phase Product code: 13924341



Performance : 400/690 V 50 Hz 4P Rated current : 10.5/6.09 A Moment of inertia (J) : 1.16 sq.ft.lb **LRC** Duty cycle : S1 : 8.3 Insulation class : 26.5 ft.lb : F Rated torque : 229 % : 1.00 Locked rotor torque Service factor Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1465 rpm Design Heating constant

Cooling constant

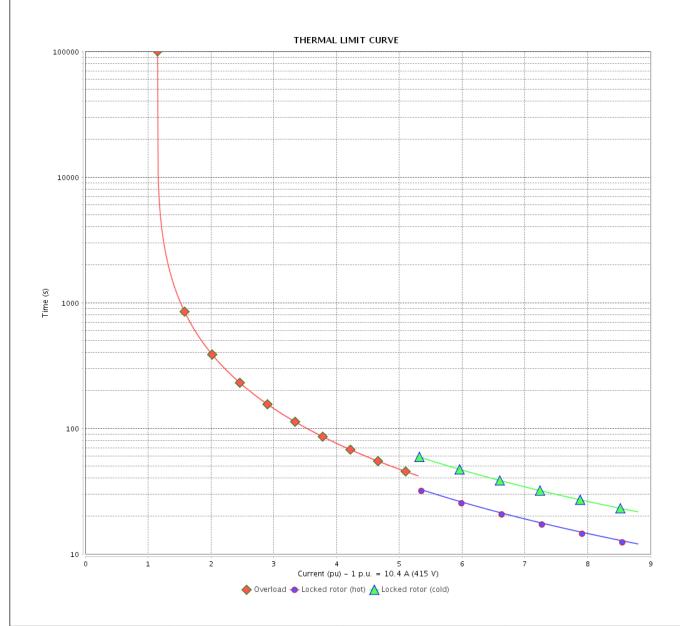
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code: 13924341



Performance : 415 V 50 Hz 4P : 10.4 A Moment of inertia (J) : 1.16 sq.ft.lb Rated current **LRC** : 8.8 Duty cycle : S1 : 26.4 ft.lb Insulation class : F Rated torque : 250 % : 1.00 Locked rotor torque Service factor : 360 % : 80 K Breakdown torque Temperature rise Rated speed : 1470 rpm Design : N Heating constant

Cooling constant

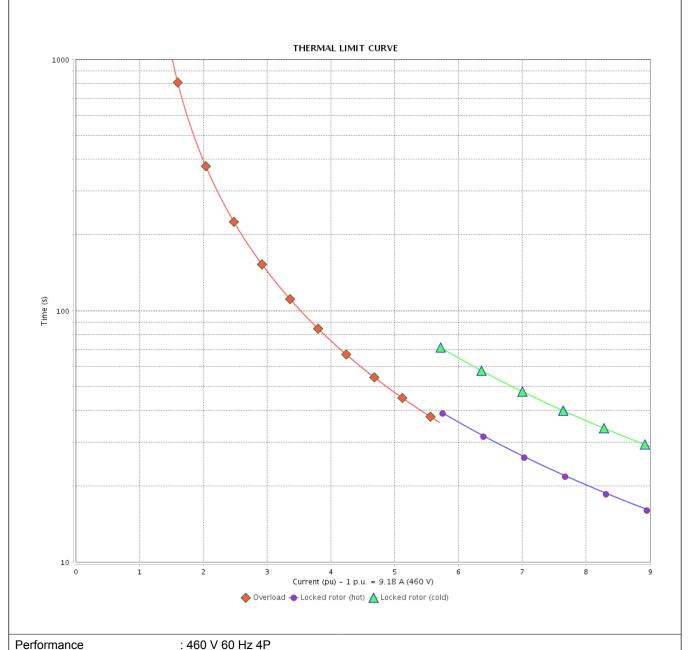
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : IE3 Three-Phase Product code : 13924341



Rated current : 9.18 A Moment of inertia (J) : 1.16 sq.ft.lb

**LRC** : 9.0 Duty cycle : S1 Insulation class : F Rated torque : 21.9 ft.lb Locked rotor torque : 250 % Service factor : 1.00 : 80 K Breakdown torque : 390 % Temperature rise Rated speed : 1770 rpm Design : N

Heating constant Cooling constant

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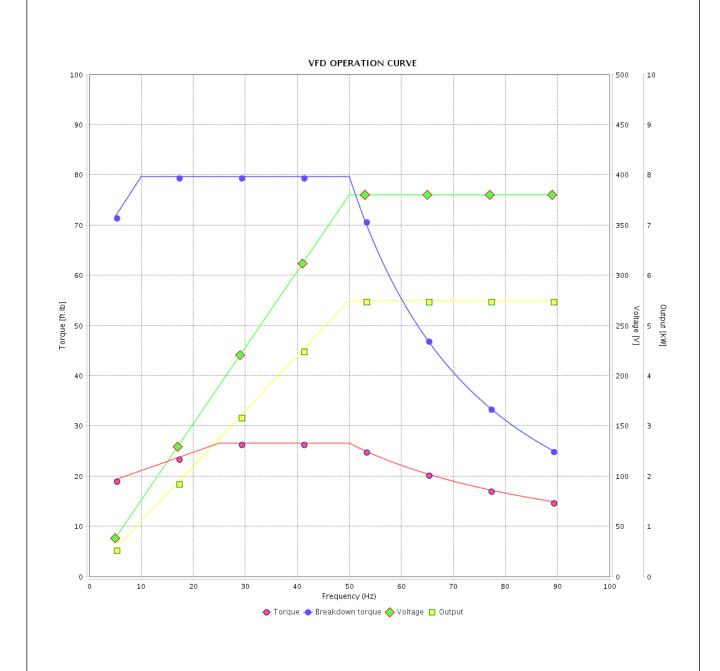
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#### Three Phase Induction Motor - Squirrel Cage



Customer

: IE3 Three-Phase Product line Product code: 13924341



Performance	: 3	80/660 V 50 Hz 4P				
Rated current	: 10	0.8/6.22 A	Moment o	of inertia (J)	: 1.16 sq.ft.lb	
LRC	: 7.	.5	Duty cycle	•	: S1	
Rated torque	: 20	6.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 30	00 %	Temperati	ure rise	: 80 K	
Rated speed	: 14	460 rpm	Design		: N	
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#### Three Phase Induction Motor - Squirrel Cage



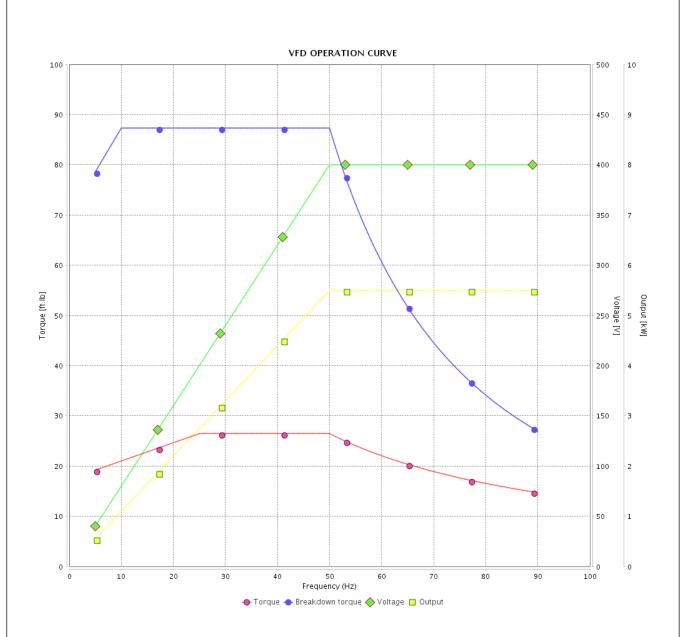
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Product line : IE3 Three-Phase Product code : 13924341



Performance		: 400/690 V 50 Hz	: 4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 10.5/6.09 A : 8.3 : 26.5 ft.lb : 229 % : 330 % : 1465 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class actor	: 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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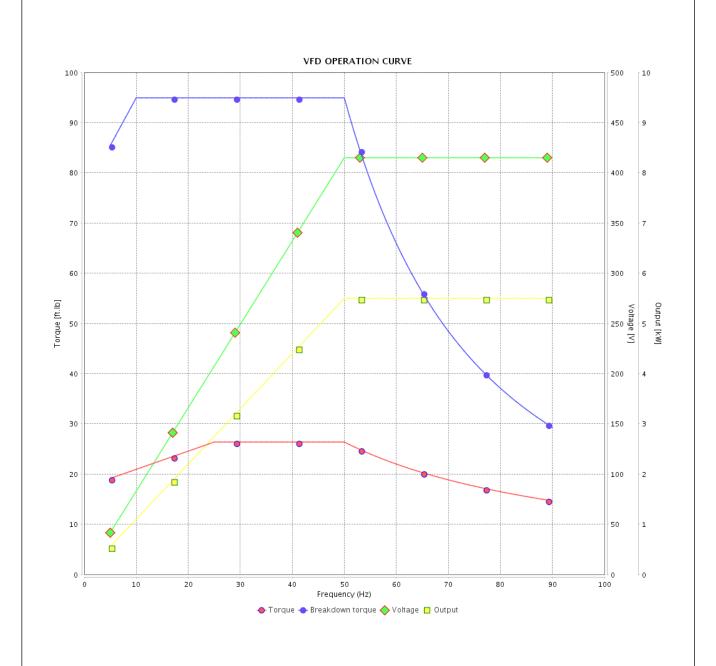
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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : IE3 Three-Phase Product code : 13924341



Performance	: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.4 A : 8.8 : 26.4 ft.lb : 250 % : 360 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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#### Three Phase Induction Motor - Squirrel Cage



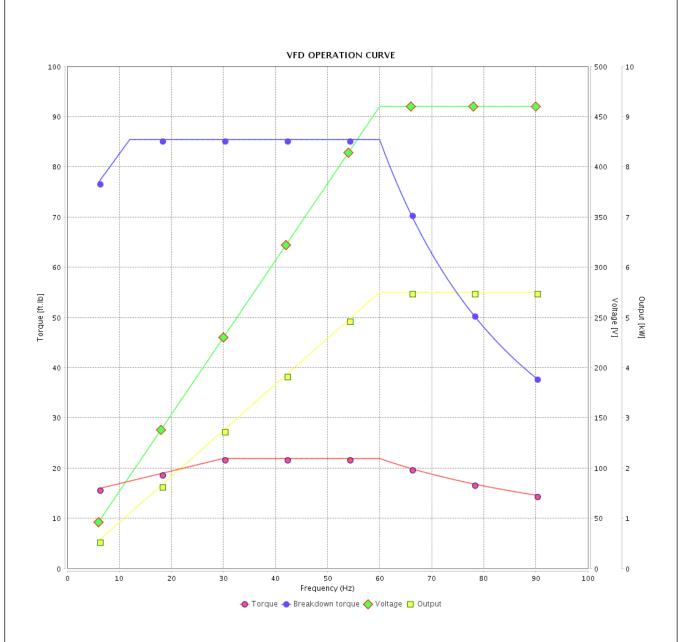
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Product line : IE3 Three-Phase Product code : 13924341



Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9.18 A : 9.0 : 21.9 ft.lb : 250 % : 390 % : 1770 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design	) : 1.16 sq.ft.lb : S1 : F : 1.00 : 80 K : N	
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