#### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15832309 Frame Cooling method : IC411 - TEFC : 71 Insulation class Mounting : F : B3T Duty cycle : 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> : 11.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0005 kgm<sup>2</sup> Design : N Output [kW] 0.55 0.55 0.55 0.55 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 2.16/1.25 2.14/1.23 2.13/1.23 1.13 13.0/7.50 L. R. Amperes [A] 11.9/6.88 12.4/7.13 8.48 LRC [A] 7.5 5.5 5.8 6.1 1.39/0.800 1.47/0.850 No load current [A] 1.21/0.700 0.700 Rated speed [RPM] 2815 2835 2850 3460 Slip [%] 6.17 5.50 5.00 3.89 Rated torque [kgfm] 0.190 0.189 0.188 0.155 Locked rotor torque [%] 220 240 260 310 Breakdown torque [%] 240 280 310 360 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) 23s (cold) 13s (hot) 21s (cold) 12s (hot) 19s (cold) 11s (hot) 56.0 dB(A) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 60.0 dB(A) 25% 50% 75.6 75.0 74.0 74.0 Efficiency (%) 75% 75.7 76.0 76.0 75.5 100% 77.8 77.8 77.8 77.0 25% 0.66 0.60 0.56 0.57 50% Power Factor 75% 0.79 0.74 0.70 0.70 100% 0.86 0.83 0.80 0.79 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 28.7 28.7 28.7 30.0 P2 (0,5;1,0) 26.8 26.8 26.8 28.0 P3 (0,25;1,0) 24.7 24.7 24.7 25.8 Losses (%) P4 (0,9;0,5) 15.4 15.4 15.4 16.1 P5 (0,5;0,5) 10.8 10.8 10.8 11.3 P6 (0,5;0,25) 8.0 8.0 8.0 8.4 P7 (0,25;0,25) 5.6 5.6 5.6 5.8 Drive end Non drive end Foundation loads Bearing type 6202 ZZ 6202 ZZ Max. traction V'Ring Sealing V'Rina Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in IEC (1) Looking the motor from the shaft end. 60034-1. (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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#### Three Phase Induction Motor - Squirrel Cage



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## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Thermal	protection

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

Space heater information

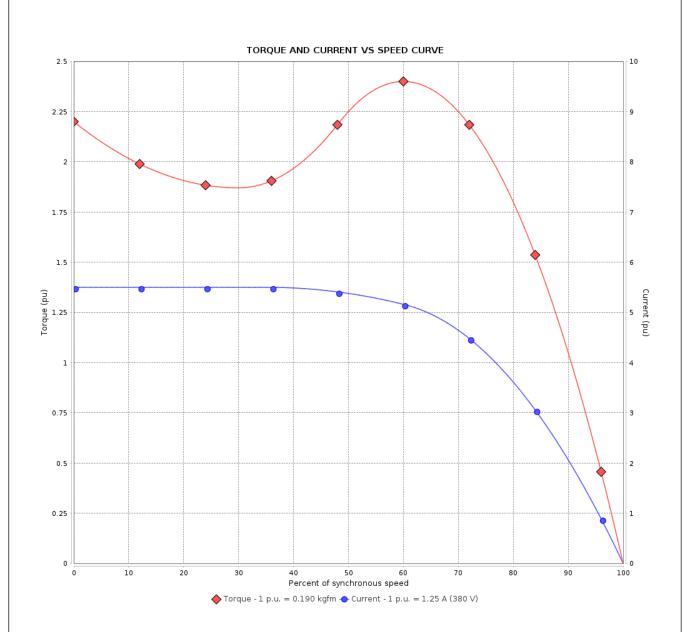
Voltage: 110 - 127 V

#### Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Product line : W22 IE3 Three-Phase Product code : 15832309



 Performance
 : 220/380 V 50 Hz 2P

 Rated current
 : 2.16/1.25 A
 Moment of inertia (J)
 : 0.0005 kgm²

LRC : 5.5 Duty cycle : S1 Rated torque Insulation class : F : 0.190 kgfm : 220 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 240 % Temperature rise Rated speed : N : 2815 rpm Design

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

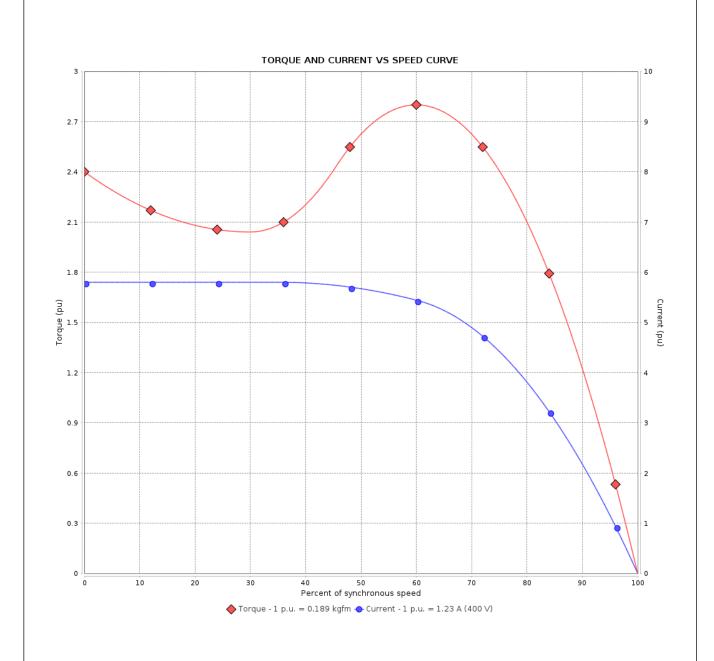
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 230/400 V 50 Hz 2P			
Rated current	: 2.14/1.23 A	Moment of inertia (J)	: 0.0005 kgm²	
LRC	: 5.8	Duty cycle	: S1	
Rated torque	: 0.189 kgfm	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2835 rpm	Design	: N	

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

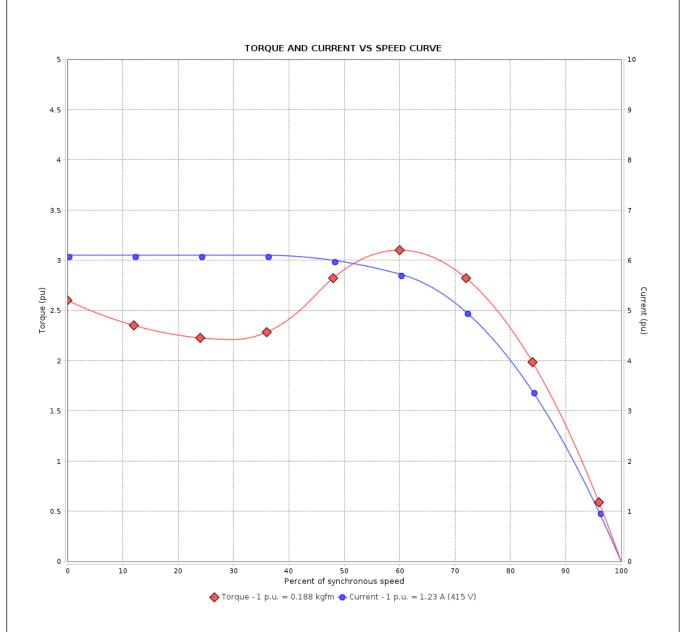
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### Three Phase Induction Motor - Squirrel Cage



Customer		
Customer		

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 240/415 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.13/1.23 A : 6.1 : 0.188 kgfm : 260 % : 310 % : 2850 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N

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

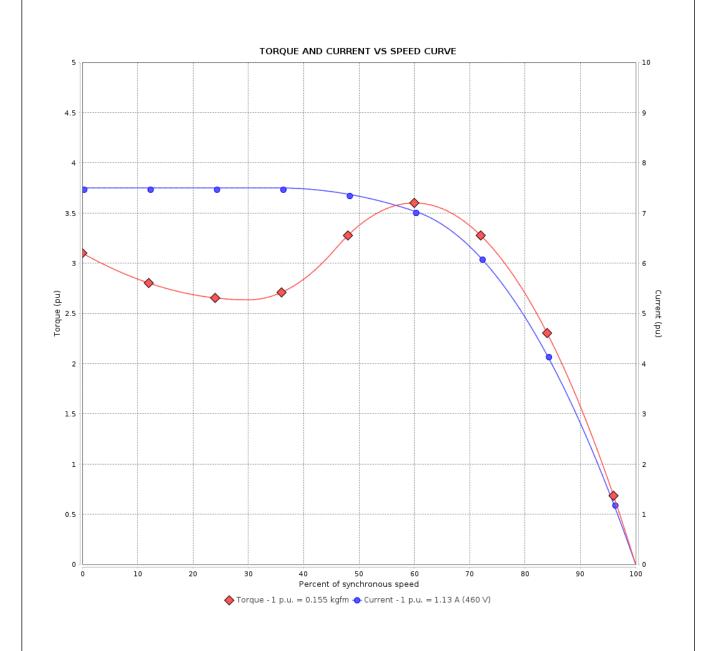
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 460 V 60 Hz 2P			
Rated current	: 1.13 A	Moment of inertia (J)	: 0.0005 kgm²	
LRC	: 7.5	Duty cycle	: S1	
Rated torque	: 0.155 kgfm	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.00	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 3460 rpm	Design	: N	

Locked rotor time : 19s (cold) 11s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



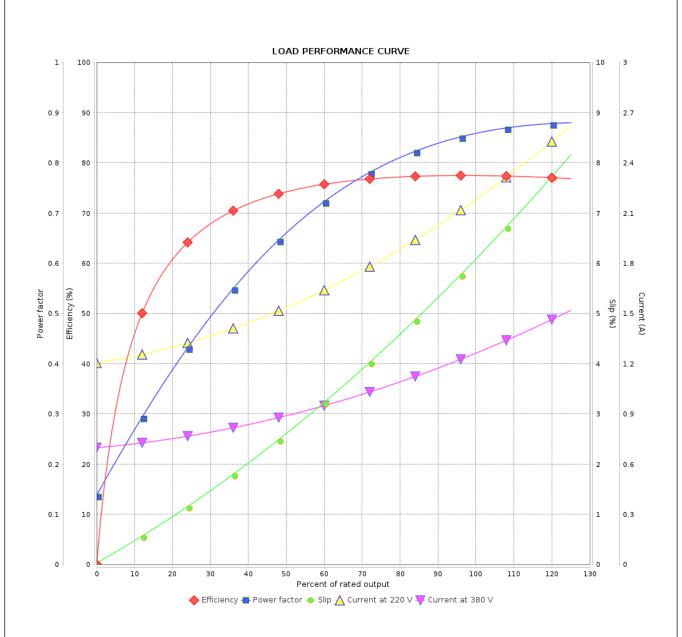
Customer :

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Date

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Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 220/380	V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 2.16/1.2 : 5.5 : 0.190 kg : 220 % : 240 % : 2815 rp	gfm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N	
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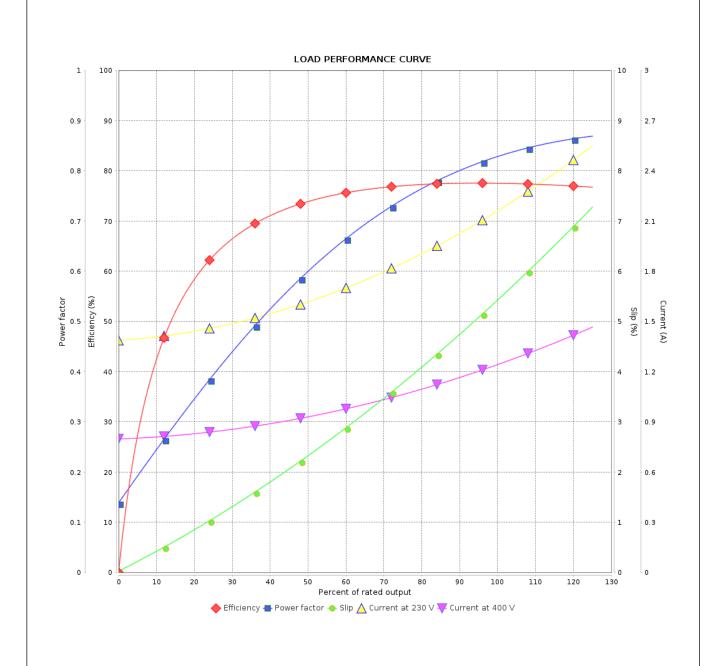
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



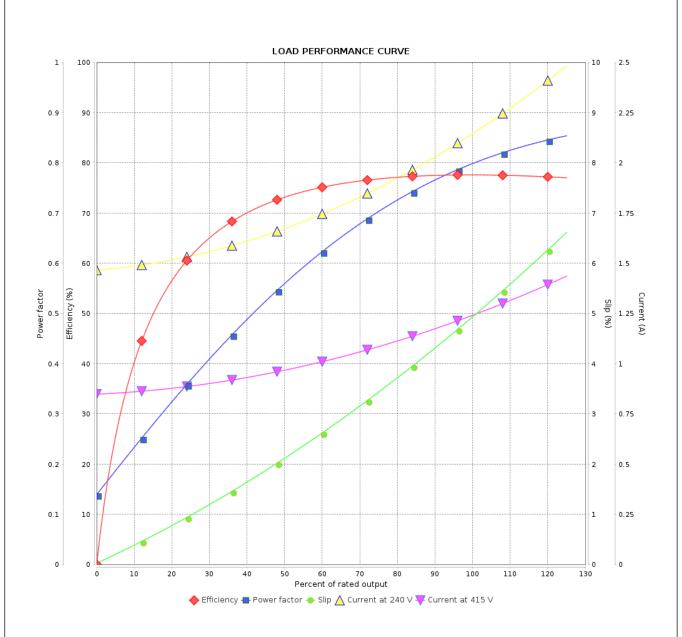
Performance	: 23	230/400 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 5. : 0. ue : 24 e : 28	14/1.23 A 8 .189 kgfm 40 % 80 % 835 rpm	Duty cycle : S1  9 kgfm Insulation class : F  Service factor : 1.00  Temperature rise : 80 K		2	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 240/415 V 50 Hz 2P	: 240/415 V 50 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.13/1.23 A : 6.1 : 0.188 kgfm : 260 % : 310 % : 2850 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N				
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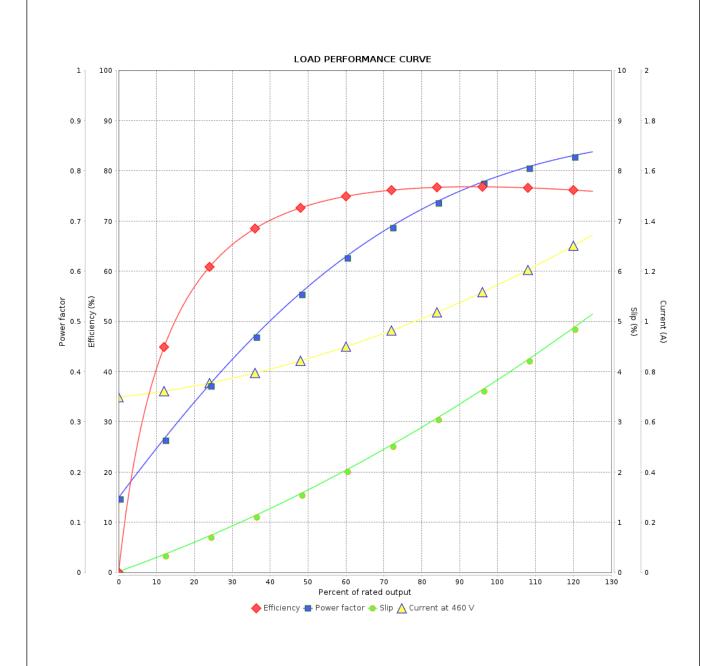
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



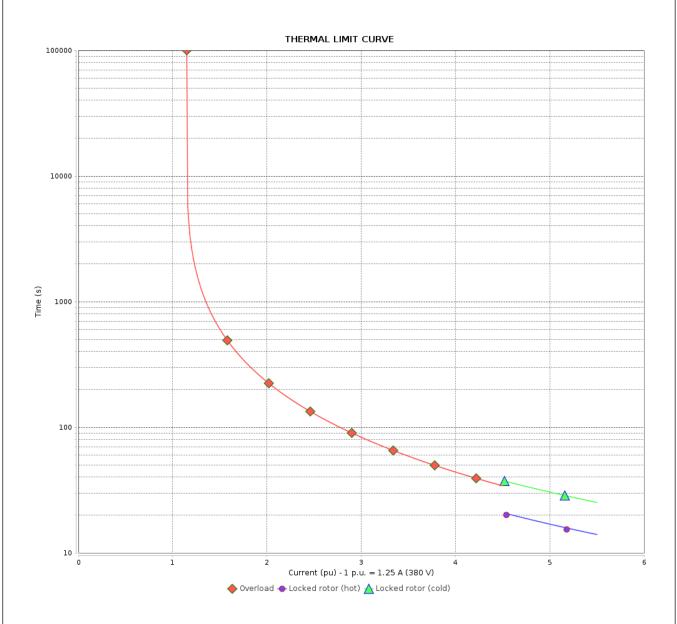
Performance	: 46	60 V 60 Hz 2P				
Rated current LRC	: 7.	1.13 A Moment of 7.5 Duty cycle		e ` ´	: S1	
•	ocked rotor torque : 310 % Service factor		Service factor : 1.00			
		60 % 460 rpm	Temperature rise Design		: 80 K : N	
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#### Three Phase Induction Motor - Squirrel Cage



Customer		
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: W22 IE3 Three-Phase Product line Product code: 15832309



Performance	: 220/380 V 50 Hz 2P			
Rated current	: 2.16/1.25 A	Moment of inertia (J)	: 0.0005 kgm²	
LRC	: 5.5	Duty cycle	: S1	
Rated torque	: 0.190 kgfm	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2815 rpm	Design	: N	
Heating constant				
0 1: 4 4				

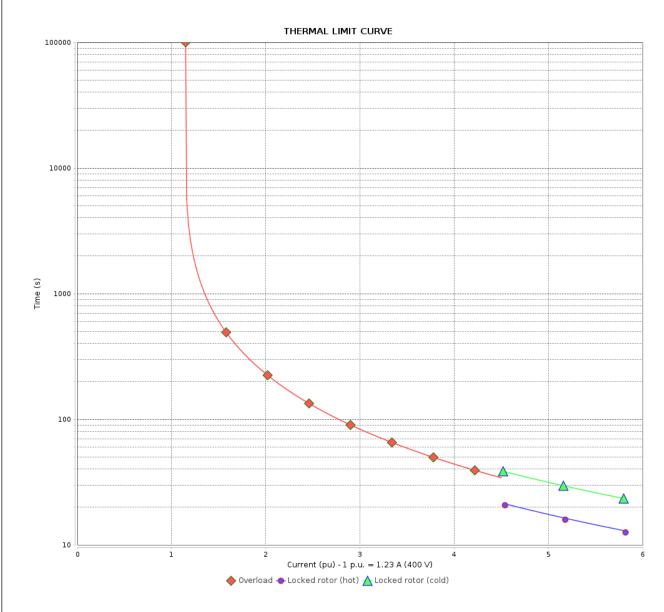
Cooling constant

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#### Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 230/400 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.14/1.23 A : 5.8 : 0.189 kgfm : 240 % : 280 % : 2835 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant Cooling constant			

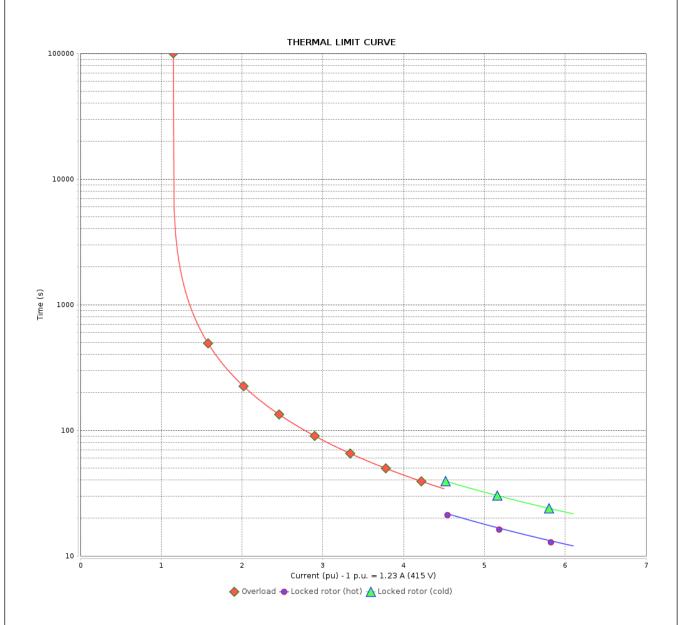
Cooling constant	t					
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#### Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance : 240/415 V 50 Hz 2P Rated current : 2.13/1.23 A Moment of inertia (J) : 0.0005 kgm<sup>2</sup> **LRC** Duty cycle : S1 : 6.1 Insulation class : F Rated torque : 0.188 kgfm : 260 % : 1.00 Locked rotor torque Service factor : 310 % Temperature rise : 80 K Breakdown torque Rated speed : 2850 rpm Design : N Heating constant Cooling constant

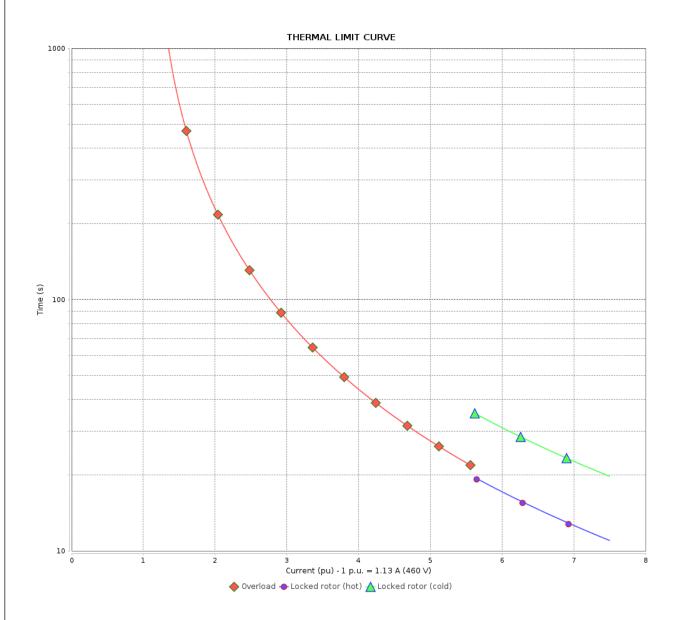
Cooling Constant	<u> </u>				
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832309



Performance : 460 V 60 Hz 2P Rated current : 1.13 A Moment of inertia (J) : 0.0005 kgm<sup>2</sup> **LRC** : 7.5 Duty cycle : S1 Insulation class : F Rated torque : 0.155 kgfm : 1.00 Locked rotor torque : 310 % Service factor Breakdown torque : 360 % : 80 K Temperature rise Rated speed : 3460 rpm Design : N Heating constant Cooling constant

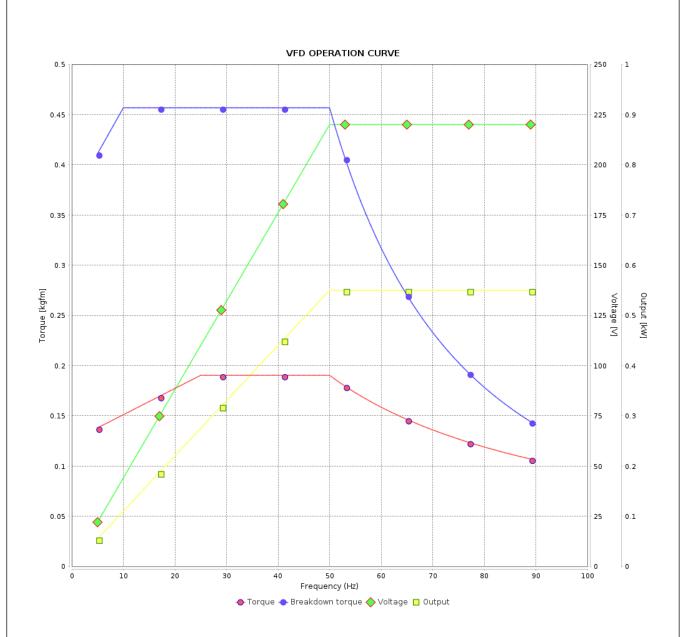
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832309



		·			
Performance	: 220/380 V 50 Hz 2P	<u> </u>			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.16/1.25 A : 5.5 : 0.190 kgfm : 220 % : 240 % : 2815 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N	
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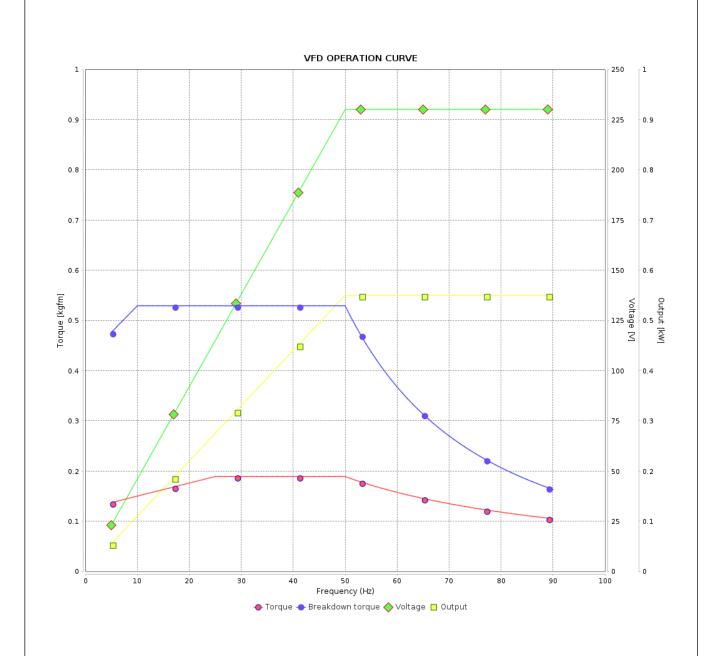
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



Performance :		: 230/400 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 5. : 0. ue : 24	: 2.14/1.23 A		class actor	: 0.0005 kgm² : S1 : F : 1.00 : 80 K		
Rated speed	: 28	: 2835 rpm			: N		
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#### Three Phase Induction Motor - Squirrel Cage



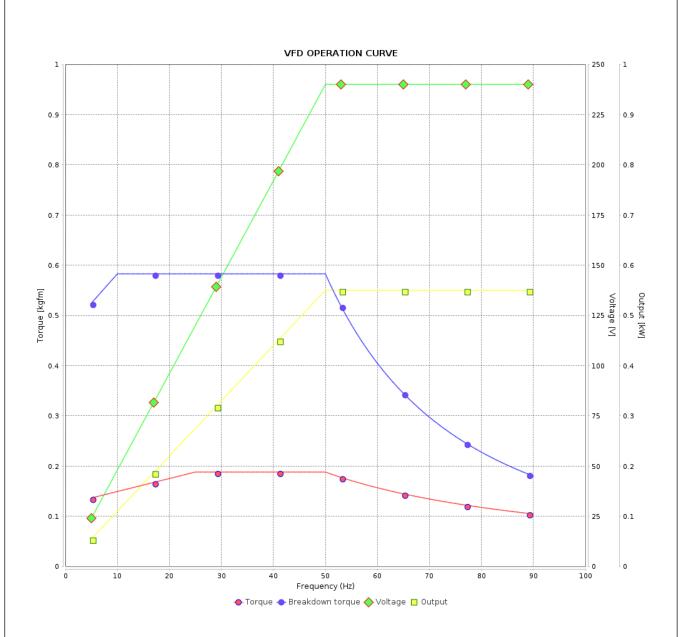
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Product line : W22 IE3 Three-Phase Product code : 15832309



Performance	: 240/415 V 50 Hz 2P	: 240/415 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Duty cycle  1 0.188 kgfm 1 Insulation class 260 % 260 % 261 Service factor 261 Temperature rise		: 0.0005 kgm² : S1 : F : 1.00 : 80 K : N			
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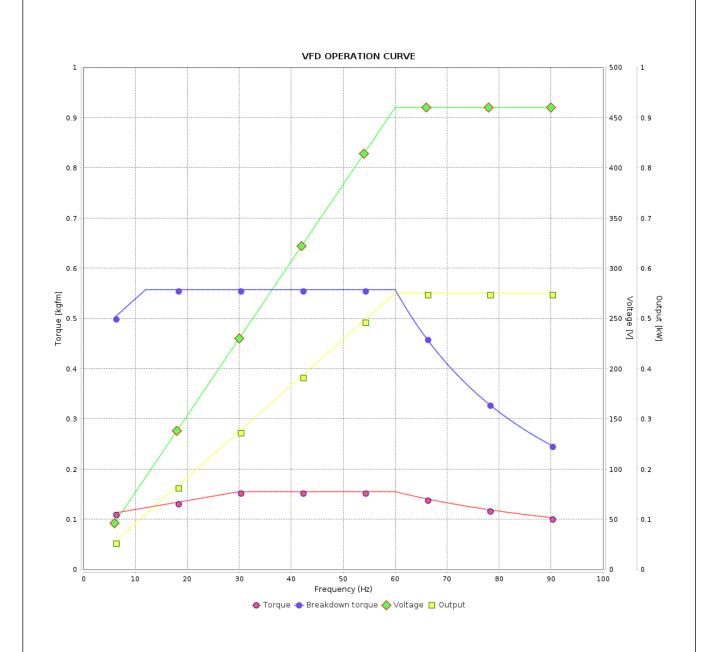
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#### Three Phase Induction Motor - Squirrel Cage



Customer :



Performance : 4		60 V 60 Hz 2P					
Rated current :		13 A	Moment of	Moment of inertia (J)			
LRC : 7.5		5	Duty cycle	Duty cycle			
Rated torque : 0.		155 kgfm	Insulation class		: F		
Locked rotor torq	ue : 3 <sup>-</sup>	10 %	Service fa	Service factor		: 1.00	
Breakdown torque	e : 36	60 %	Temperature rise		: 80 K		
Rated speed	: 34	460 rpm Design			: N		
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