### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15833991 Frame : 80 Cooling method : IC411 - TEFC 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> : 15.0 kg : 0.0027 kgm² Protection degree : IP55 Moment of inertia (J) Design : N 0.55 Output [kW] 0.55 0.55 0.55 Poles 4 4 4 4 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 1.09 L. R. Amperes [A] 13.6/7.88 14.1/8.12 14.7/8.49 8.28 LRC [A] 7.6 6.3 6.6 6.9 1.19/0.690 No load current [A] 1.34/0.770 1.45/0.840 0.710 Rated speed [RPM] 1420 1740 1430 1435 Slip [%] 5.33 4.33 4.67 3.33 Rated torque [kgfm] 0.308 0.377 0.375 0.373 Locked rotor torque [%] 250 280 310 350 Breakdown torque [%] 250 280 310 350 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 39s (cold) 22s (hot) 36s (cold) 20s (hot) 37s (cold) 21s (hot) Noise level<sup>2</sup> 44.0 dB(A) 44.0 dB(A) 44.0 dB(A) 48.0 dB(A) 25% 50% 78.0 77.0 76.0 77.0 Efficiency (%) 75% 79.1 79.0 78.9 80.0 100% 80.8 80.8 80.8 81.5 25% 0.64 0.61 0.57 0.58 50% Power Factor 75% 0.76 0.73 0.70 0.70 100% 0.83 0.80 0.77 0.78 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 23.7 23.7 23.7 22.6 21.9 21.9 P2 (0,5;1,0) 21.9 20.9 P3 (0,25;1,0) 20.3 20.3 20.3 19.4 Losses (%) P4 (0,9;0,5) 12.1 12.1 12.1 11.6 P5 (0,5;0,5) 8.7 8.7 8.7 8.3 P6 (0,5;0,25) 6.2 6.2 6.2 5.9 P7 (0,25;0,25) 4.4 4.4 4.4 4.2 Drive end Non drive end Foundation loads Bearing type 6204 77 6203 ZZ Max. traction : 26 kgf V'Ring Sealing V'Rina : 41 kaf Max. compression Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal

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.

power supply, subject to the tolerances stipulated in IEC 60034-1.

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# DATA SHEET

#### 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

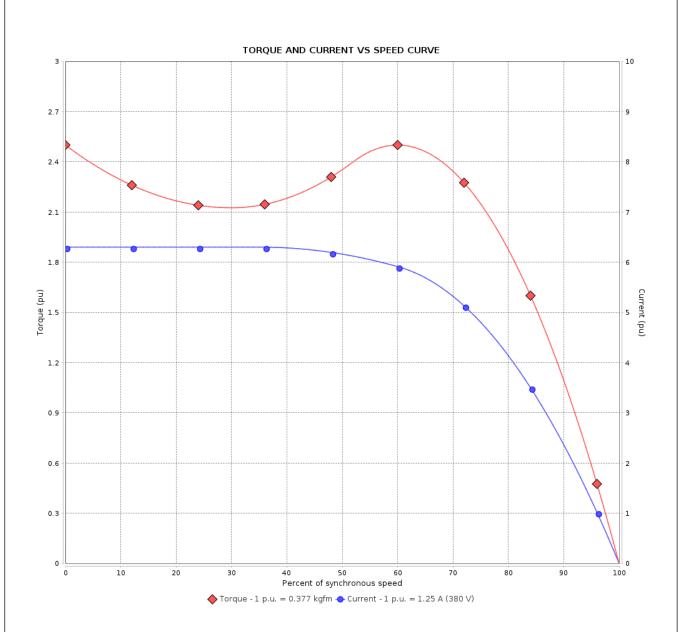
Voltage: 110 - 127 V

### Three Phase Induction Motor - Squirrel Cage



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Customer	
Customer	

Product line : W22 IE3 Three-Phase Product code : 15833991



Locked rotor time : 41s (cold) 23s (hot)

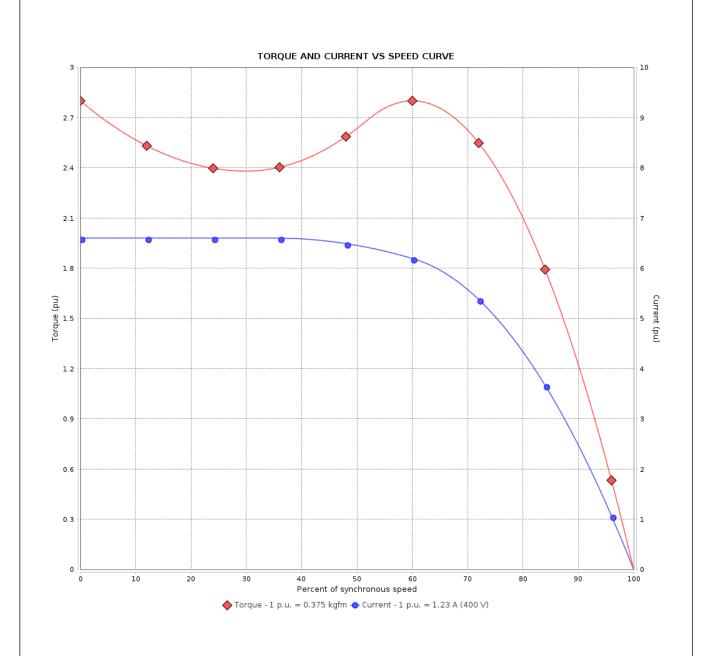
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 230/400 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.14/1.23 A : 6.6 : 0.375 kgfm : 280 % : 280 % : 1430 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0027 kgm² : S1 : F : 1.00 : 80 K : N	

Locked rotor time : 39s (cold) 22s (hot)

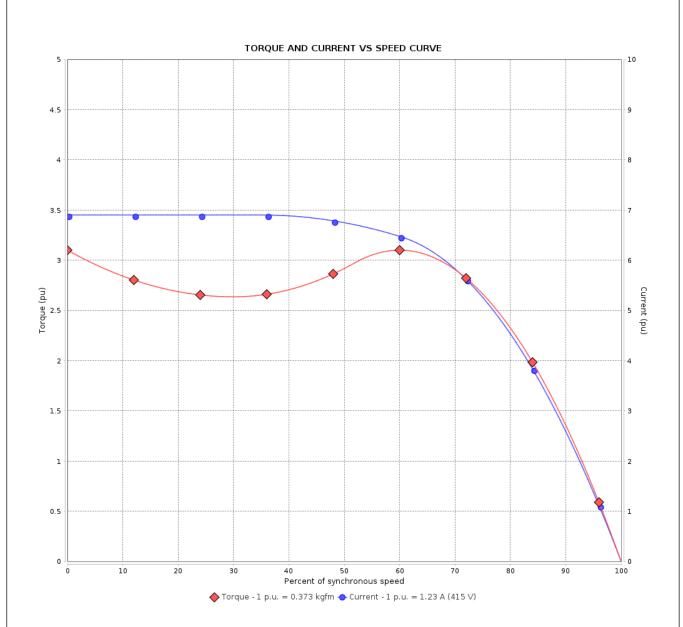
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### Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 240/415 V 50 Hz 4P	: 240/415 V 50 Hz 4P				
Rated current	: 2.13/1.23 A	Moment of inertia (J)	: 0.0027 kgm²			
LRC	: 6.9	Duty cycle	: S1			
Rated torque	: 0.373 kgfm	Insulation class	:F			
Locked rotor torque	: 310 %	Service factor	: 1.00			
Breakdown torque	: 310 %	Temperature rise	: 80 K			
Rated speed	: 1435 rpm	Design	: N			

Locked rotor time : 36s (cold) 20s (hot)

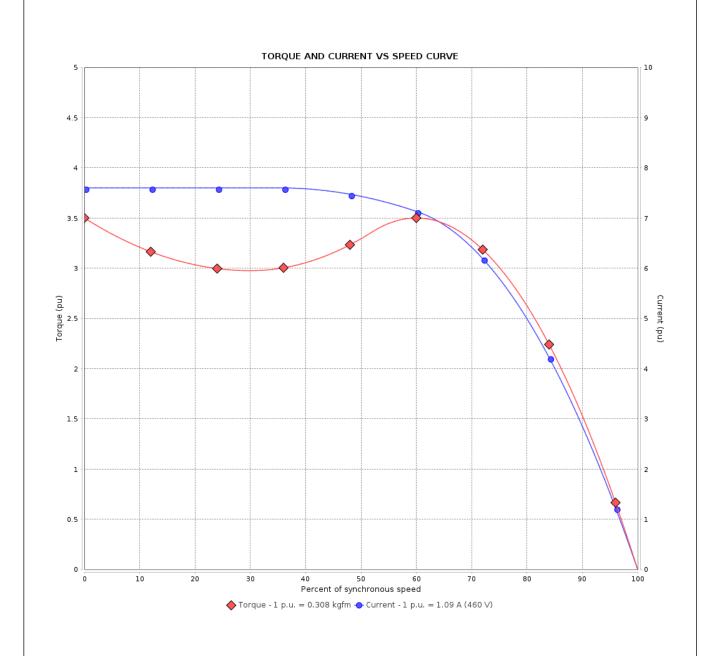
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 460 V 60 Hz 4P			
Rated current	: 1.09 A	Moment of inertia (J)	: 0.0027 kgm²	
LRC	: 7.6	Duty cycle	: S1	
Rated torque	: 0.308 kgfm	Insulation class	: F	
Locked rotor torque	: 350 %	Service factor	: 1.00	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 1740 rpm	Design	: N	

Locked rotor time : 37s (cold) 21s (hot)

	•	0.0 (00.0) = 10 (1.01)			
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### Three Phase Induction Motor - Squirrel Cage



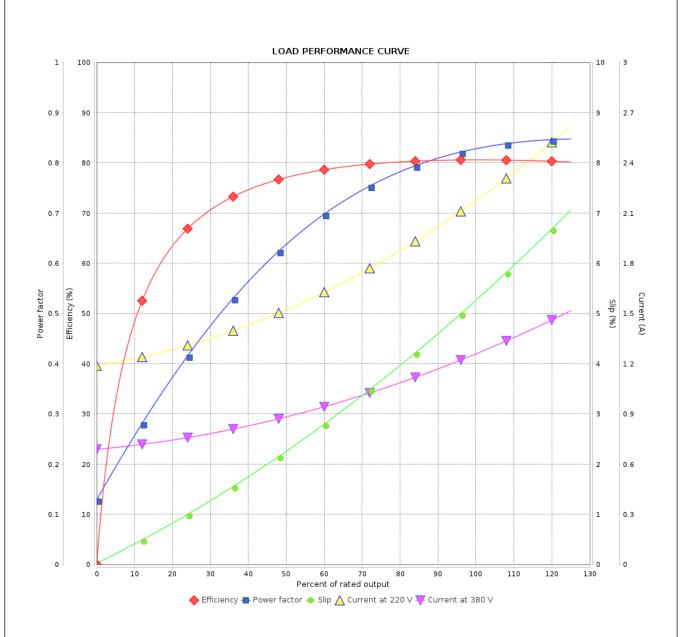
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Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 22	20/380 V 50 Hz 4P				
Rated current : 2.16/1.25 / LRC : 6.3 Rated torque : 0.377 kgfm Locked rotor torque : 250 % Breakdown torque : 250 % Rated speed : 1420 rpm		.3 .377 kgfm 50 % 50 %	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0027 kgm² : S1 : F : 1.00 : 80 K : N	
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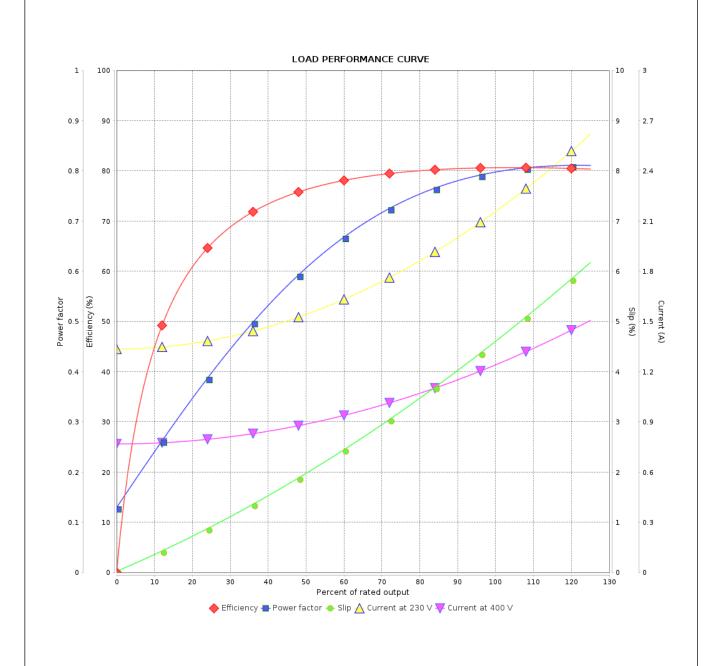
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



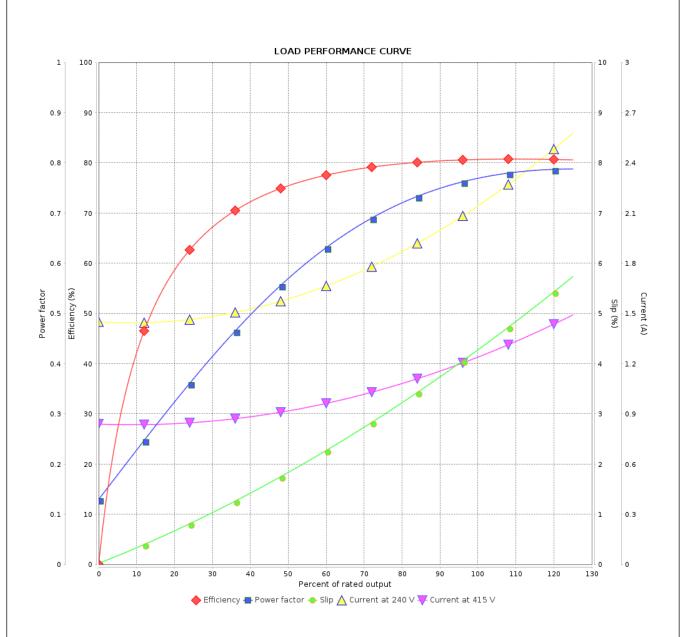
Performance	: 23	30/400 V 50 Hz 4P				
Rated current LRC Rated torque	: 6.	14/1.23 A 6 375 kgfm	Moment of inertia (J) Duty cycle Insulation class		: 0.0027 kgm² : S1 : F	
Locked rotor torque Breakdown torque	ue : 28 e : 28	30 % 30 %	Service fa Temperati	Service factor Temperature rise		
Rated speed Rev.	: 14	430 rpm  Changes Summary	Design	Performed	: N Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 24	40/415 V 50 Hz 4P				
Rated current : 2 LRC : 6		-	Duty cycle	Moment of inertia (J) Duty cycle		2
Rated torque		373 kgfm	Insulation		: F	
Locked rotor tord	que : 3′	10 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 3´	10 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 14	135 rpm	Design		: N	
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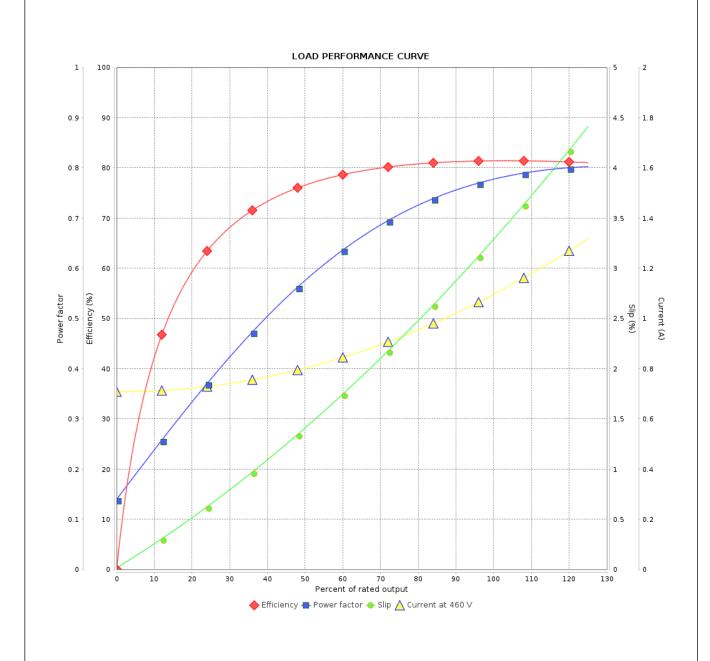
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



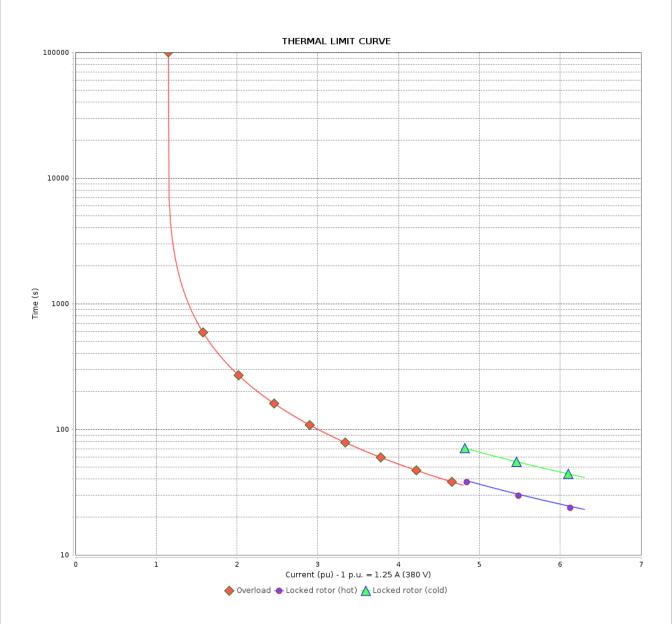
Performance	: 4	60 V 60 Hz 4P				
Rated current	: 1	.09 A	Moment o	of inertia (J)	: 0.0027 kgm²	
LRC	: 7	.6	Duty cycle	9	: S1	
Rated torque	: 0	.308 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 3	50 %	Service fa	ictor	: 1.00	
Breakdown torqu	e : 3	50 %	Temperati	ure rise	: 80 K	
Rated speed	: 1	740 rpm	Design		: N	
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Customer		
Customer		

Product line : W22 IE3 Three-Phase Product code : 15833991



Performance : 220/380 V 50 Hz 4P Rated current : 2.16/1.25 A Moment of inertia (J) : 0.0027 kgm² **LRC** Duty cycle : S1 : 6.3 Insulation class : F Rated torque : 0.377 kgfm Locked rotor torque : 250 % Service factor : 1.00 : 80 K : 250 % Breakdown torque Temperature rise Rated speed : 1420 rpm Design : N Heating constant

Cooling constant

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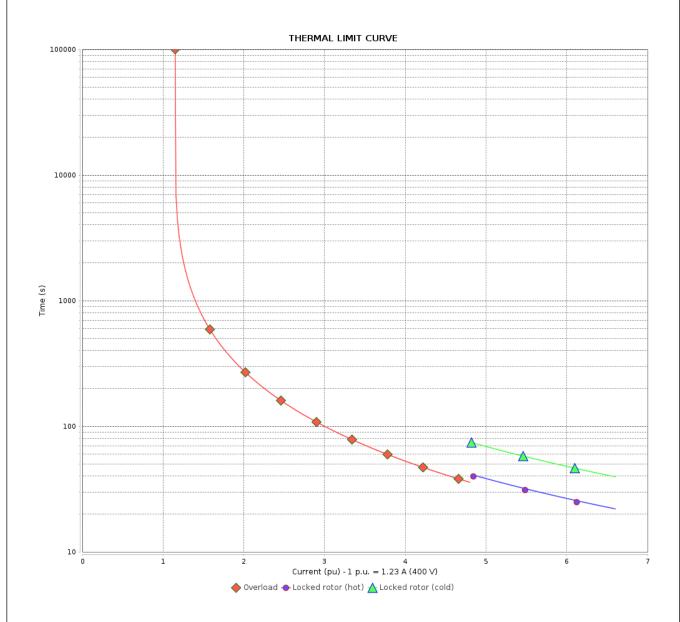
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



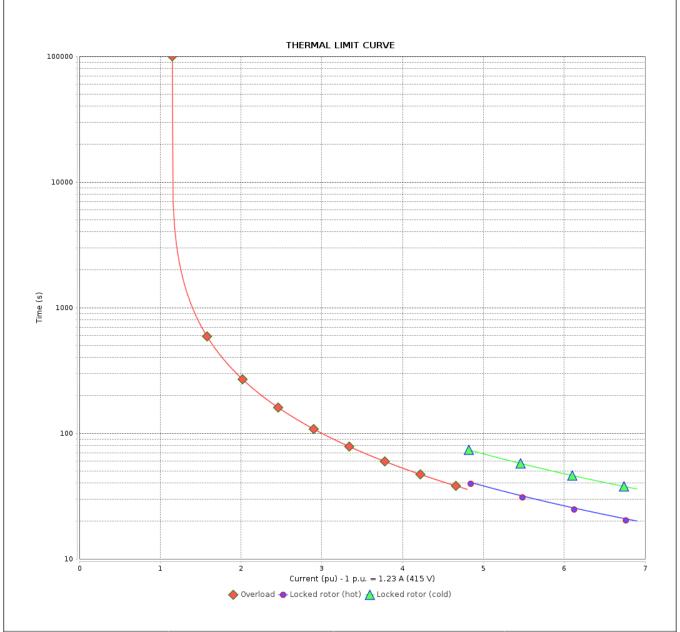
Performance : 230/400 V 50 Hz 4P : 2.14/1.23 A Moment of inertia (J) : 0.0027 kgm<sup>2</sup> Rated current **LRC** Duty cycle : S1 : 6.6 Insulation class : 0.375 kgfm : F Rated torque : 280 % Locked rotor torque Service factor : 1.00 : 280 % Breakdown torque : 80 K Temperature rise Rated speed : 1430 rpm Design : N Heating constant Cooling constant

#### Three Phase Induction Motor - Squirrel Cage



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Product line : W22 IE3 Three-Phase Product code : 15833991



Performance : 240/415 V 50 Hz 4P Rated current : 2.13/1.23 A Moment of inertia (J) : 0.0027 kgm² **LRC** Duty cycle : S1 : 6.9 Insulation class : 0.373 kgfm : F Rated torque : 310 % : 1.00 Locked rotor torque Service factor Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1435 rpm Design Heating constant Cooling constant

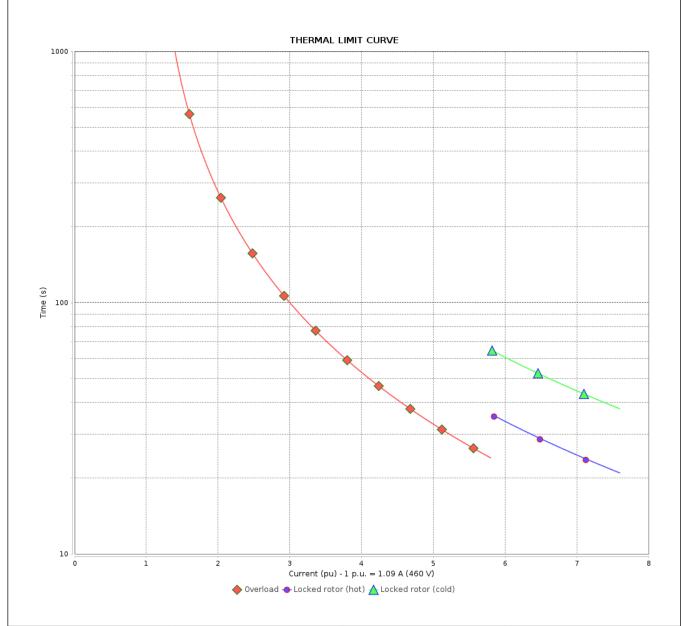
Cooling constant	<b>.</b>				
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



: 460 V 60 Hz 4P Performance Rated current : 1.09 A Moment of inertia (J) : 0.0027 kgm<sup>2</sup> **LRC** : 7.6 Duty cycle : S1 Insulation class : 0.308 kgfm : F Rated torque Locked rotor torque : 350 % Service factor : 1.00 Breakdown torque : 350 % : 80 K Temperature rise Rated speed : 1740 rpm Design : N Heating constant

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



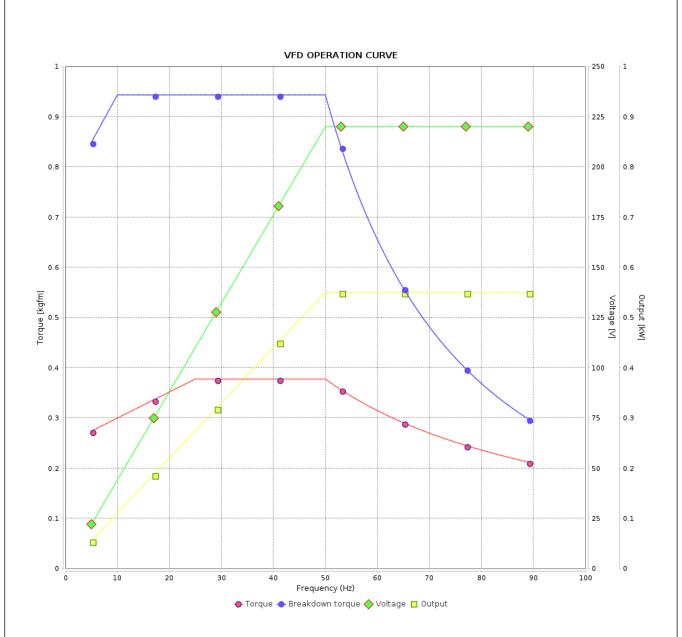
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Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	::	220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	::  ue ::  le ::	2.16/1.25 A 6.3 0.377 kgfm 250 % 250 % 1420 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0027 kgm² : S1 : F : 1.00 : 80 K : N	
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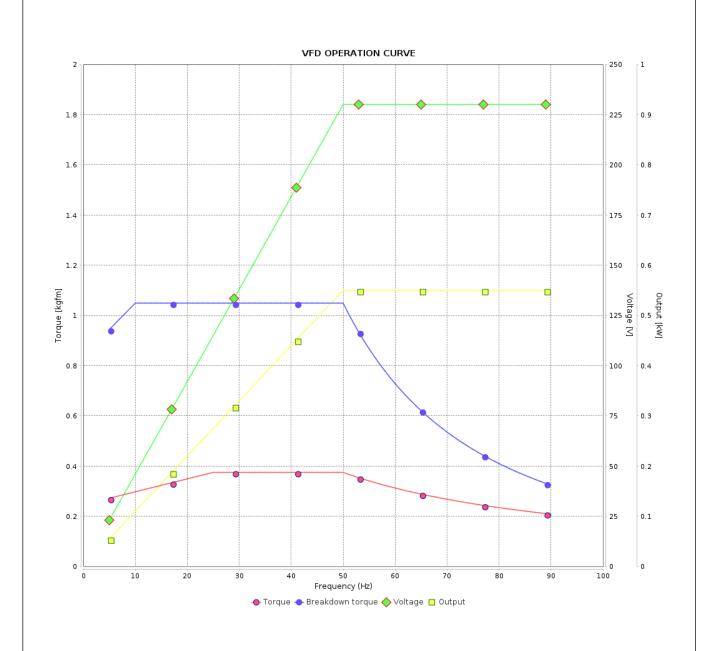
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### Three Phase Induction Motor - Squirrel Cage



Customer

: W22 IE3 Three-Phase Product line Product code: 15833991



Performance	: 23	30/400 V 50 Hz 4P				
Rated current LRC	: 2. : 6.	14/1.23 A			: 0.0027 kgm² : S1	2
Rated torque	: 0.	375 kgfm	Insulation	Duty cycle Insulation class		
Locked rotor torque Breakdown torque		30 % 30 %	Service factor Temperature rise		: 1.00 : 80 K	
Rated speed				: N		
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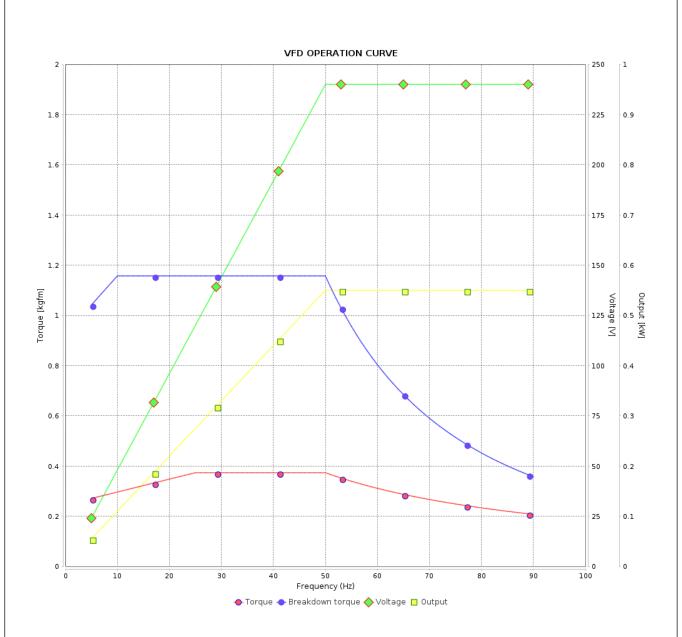
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Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.13/1.23 A : 6.9 : 0.373 kgfm : 310 % : 310 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0027 kgm² : S1 : F : 1.00 : 80 K : N	
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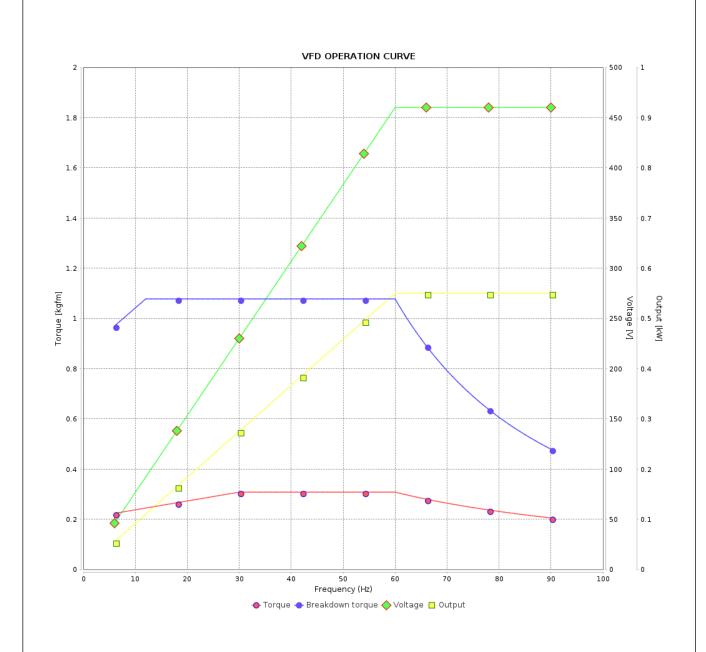
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833991



Performance	: 46	60 V 60 Hz 4P					
Rated current	: 1.	09 A	Moment of	Moment of inertia (J)			
LRC		6	Duty cycle	Duty cycle		: S1	
Rated torque		308 kgfm	Insulation class		: F		
Locked rotor torque :		50 %	Service fa	Service factor		: 1.00	
Breakdown torque	e : 35	50 %	Temperature rise		: 80 K		
Rated speed	: 17	740 rpm	Design		: N		
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