DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IE3 Three-Phase Product code: 15839426 : 90S Cooling method : IC411 - TEFC Frame Insulation class Mounting : F : B5T 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. weight³ : 21.4 kg : 0.0055 kgm² : IP55 Moment of inertia (J) Protection degree : N Design Output [kW] 1.1 1.1 1.1 1.1 Poles 4 4 4 4 50 50 Frequency [Hz] 50 60 Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 4.18/2.42 4.16/2.39 4.08/2.36 2.07 L. R. Amperes [A] 26.3/15.2 27.4/15.8 29.0/16.8 16.4 LRC [A] 7.9 6.3 6.6 7.1 No load current [A] 2.07/1.20 2.43/1.40 2.59/1.50 1.30 Rated speed [RPM] 1755 1435 1445 1450 Slip [%] 4.33 3.67 3.33 2.50 Rated torque [kgfm] 0.747 0.741 0.739 0.610 Locked rotor torque [%] 210 229 250 270 Breakdown torque [%] 270 300 340 240 1.00 Service factor 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 28s (cold) 16s (hot) 27s (cold) 15s (hot) 28s (cold) 16s (hot) Noise level² 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 51.0 dB(A) 25% 50% 84.0 83.0 82.0 80.0 Efficiency (%) 75% 84.1 84.1 84.1 84.0 100% 84.1 84.1 84.1 86.5 25% 0.64 0.59 0.55 0.57 50% Power Factor 75% 0.76 0.72 0.69 0.70 100% 0.82 0.79 0.77 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 19.1 19.1 19.1 15.8 P2 (0,5;1,0) 18.5 18.5 18.5 15.3 P3 (0,25;1,0) 17.2 17.2 17.2 14.2 Losses (%) P4 (0,9;0,5) 8.8 8.8 8.8 7.3 P5 (0,5;0,5) 6.9 6.9 6.9 5.7 P6 (0,5;0,25) 4.7 4.7 4.7 3.9 P7 (0,25;0,25) 3.7 3.7 3.7 3.0 Drive end Non drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ Max. traction : 48 kgf V'Ring V'Ring Sealing : 70 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. 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



Customer :

Thermal	protection

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

Space heater information

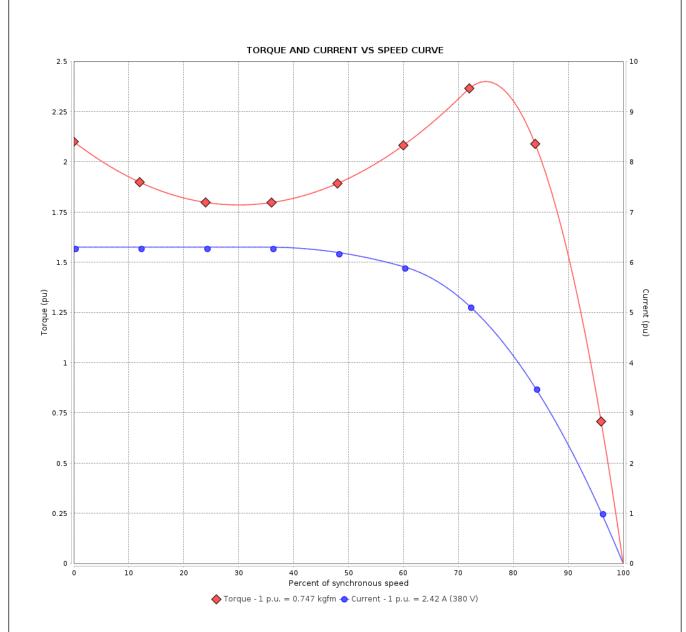
Voltage: 110 - 127 V

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 15839426



 Performance
 : 220/380 V 50 Hz 4P

 Rated current LRC
 : 4.18/2.42 A Duty cycle
 : 0.0055 kgm² Duty cycle

Rated torque : 0.747 kgfm Insulation class : F : 210 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 240 % Temperature rise Rated speed : N : 1435 rpm Design

Locked rotor time : 30s (cold) 17s (hot)

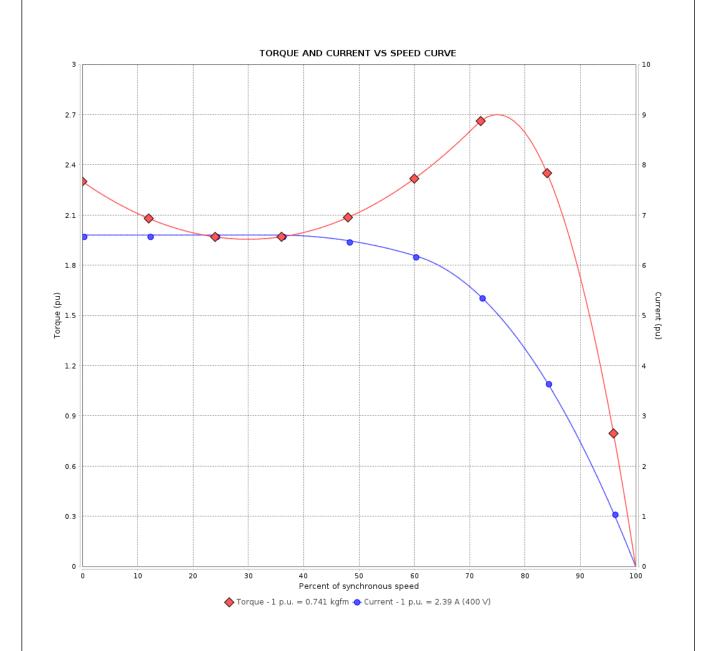
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839426



Performance : 230/400 V 50 Hz 4P Rated current : 4.16/2.39 A Moment of inertia (J) : 0.0055 kgm² : S1 LRC : 6.6 Duty cycle : F : 0.741 kgfm Insulation class Rated torque : 229 % Service factor : 1.00 Locked rotor torque : 270 % : 80 K Breakdown torque Temperature rise Rated speed : 1445 rpm : N Design

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

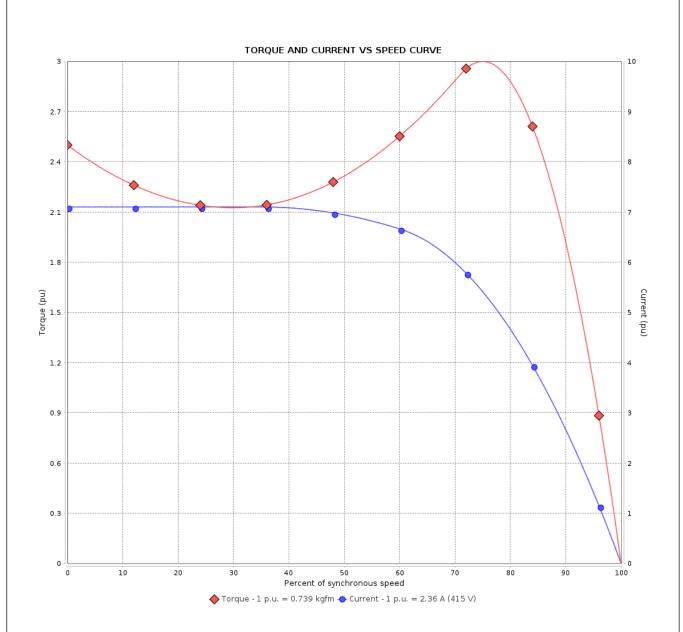
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Three Phase Induction Motor - Squirrel Cage



Customer		
Customer		

Product line : W22 IE3 Three-Phase Product code : 15839426



Performance	: 240/415 V 50 Hz 4P		
Rated current	: 4.08/2.36 A	Moment of inertia (J)	: 0.0055 kgm²

LRC : 7.1 Duty cycle : S1 : 0.739 kgfm Insulation class : F Rated torque : 250 % Service factor : 1.00 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : N

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

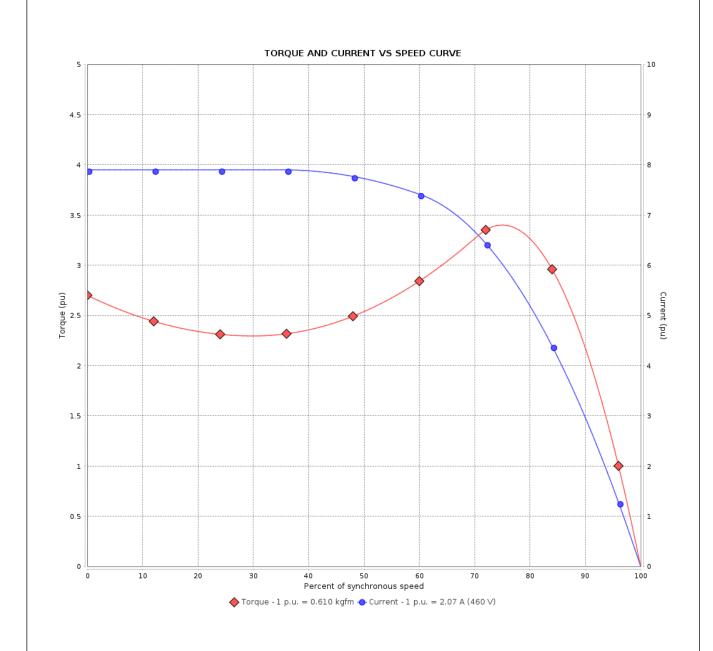
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839426



Performance	: 460 V 60 Hz 4P			
Rated current	: 2.07 A	Moment of inertia (J)	: 0.0055 kgm²	
LRC	: 7.9	Duty cycle	: S1	
Rated torque	: 0.610 kgfm	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 1755 rpm	Design	: N	

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

Lockou rotor till		30 (0014) 100 (1101)			
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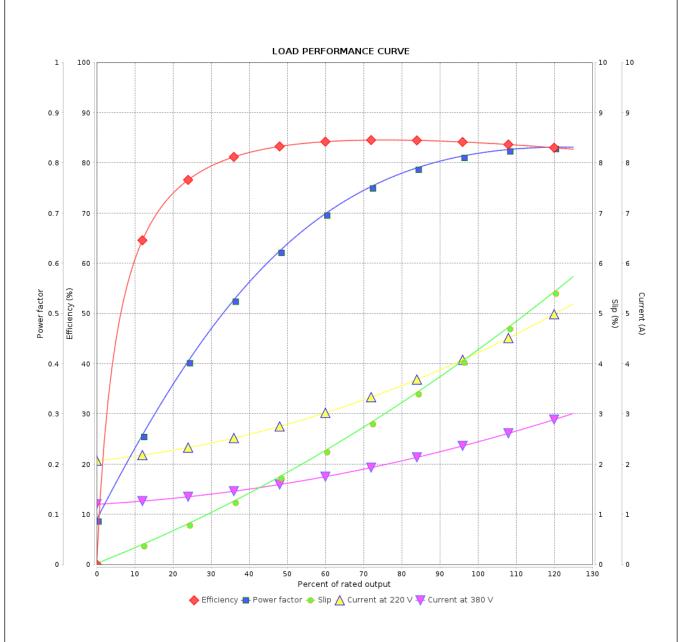
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Product line : W22 IE3 Three-Phase Product code : 15839426



Performance		: 220/38	80 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 4.18/2. : 6.3 : 0.747 F : 210 % : 240 % : 1435 rp	kgfm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N	
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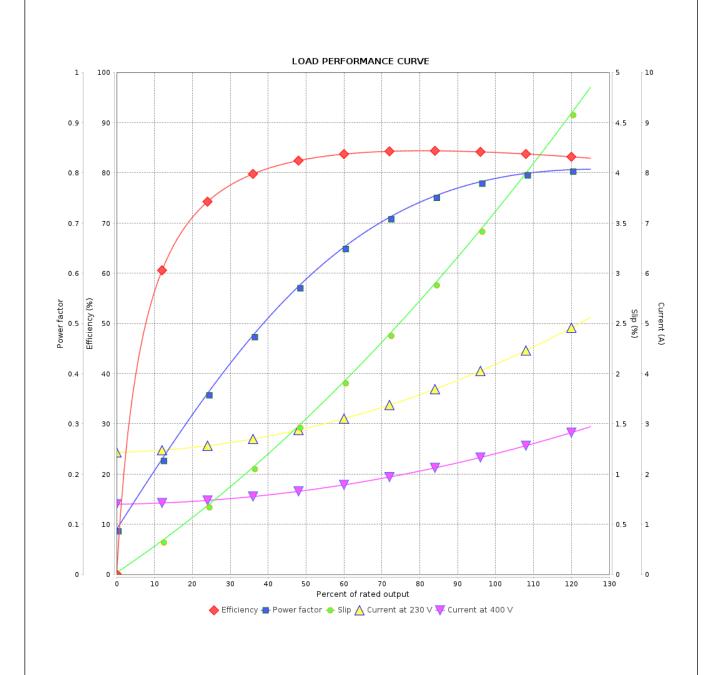
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Product line : W22 IE3 Three-Phase Product code : 15839426



Performance		: 230/400 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	•	: 4.16/2.39 A : 6.6 : 0.741 kgfm : 229 % : 270 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ictor	: 0.0055 kgm : S1 : F : 1.00 : 80 K : N	2
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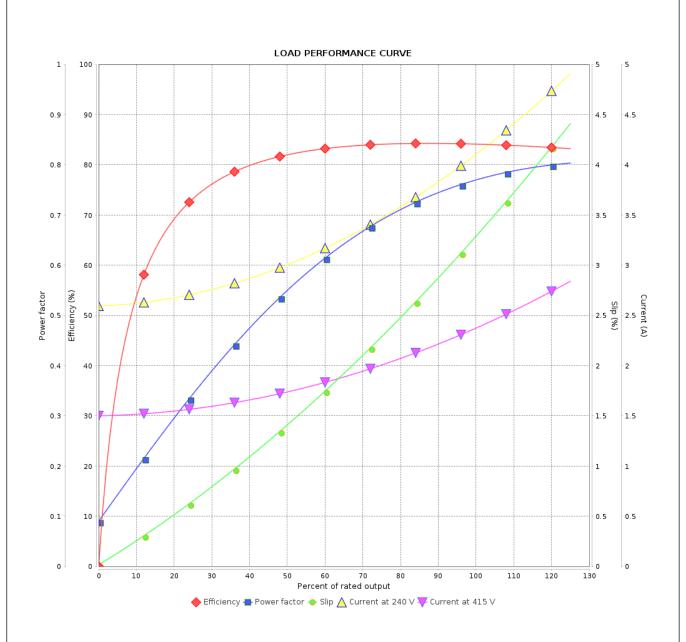
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		100		1	
Performance	: 240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4.08/2.36 A : 7.1 : 0.739 kgfm : 250 % : 300 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0055 kgm : S1 : F : 1.00 : 80 K : N	2
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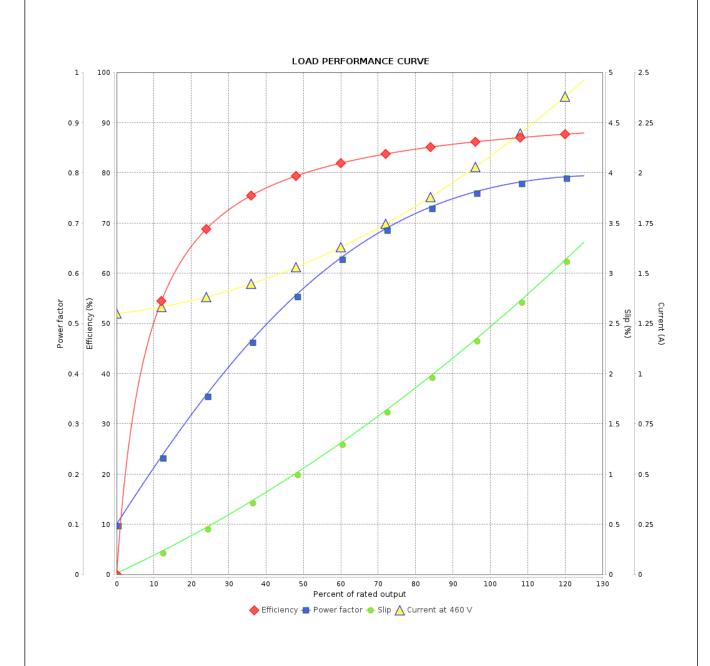
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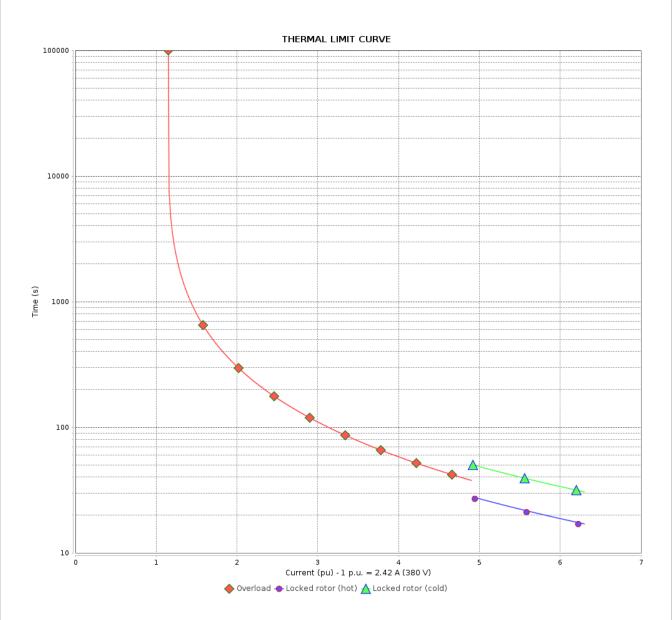


Performance	: 40	60 V 60 Hz 4P					
Rated current	: 2.	.07 A	Moment of	of inertia (J)	: 0.0055 kgm²	2	
LRC	: 7.	9	Duty cycle	e	: S1		
Rated torque	: 0.	.610 kgfm	Insulation	class	: F		
Locked rotor torq	ue : 2	70 %	Service fa	ictor	: 1.00		
Breakdown torqu	ie : 34	40 %	Temperati	Temperature rise			
Rated speed	: 17	755 rpm	Design		: N		
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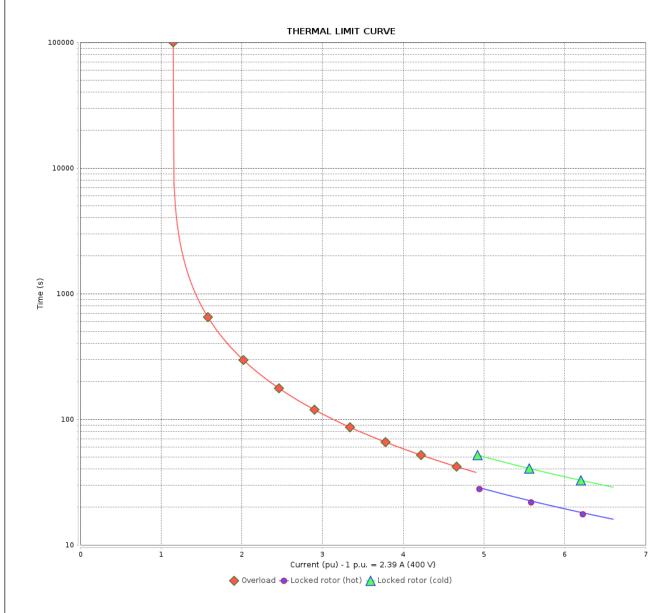
Performance	: 220/380 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.18/2.42 A : 6.3 : 0.747 kgfm : 210 % : 240 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant			
Cooling constant			

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Customer		
Customer		



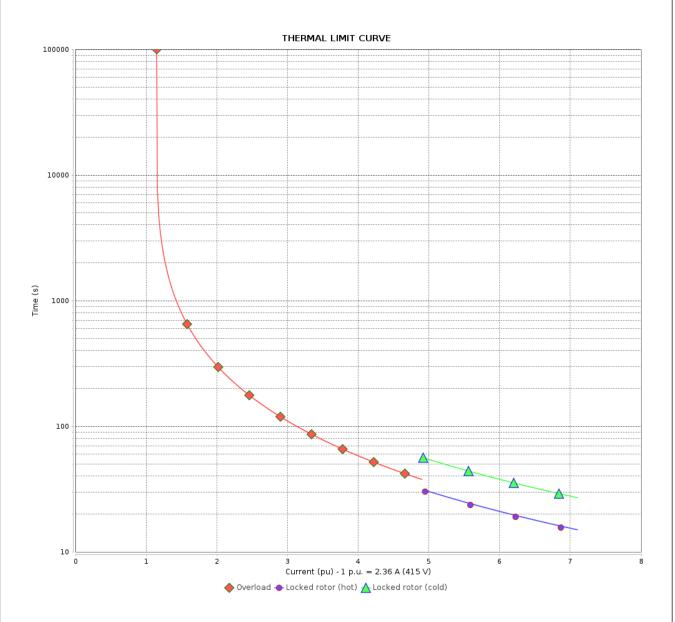
Performance	: 230/400 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.16/2.39 A : 6.6 : 0.741 kgfm : 229 % : 270 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant Cooling constant			

Cooling constant	L				
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Customer		



Performance	: 240/415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.08/2.36 A : 7.1 : 0.739 kgfm : 250 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N	
Heating constant Cooling constant				

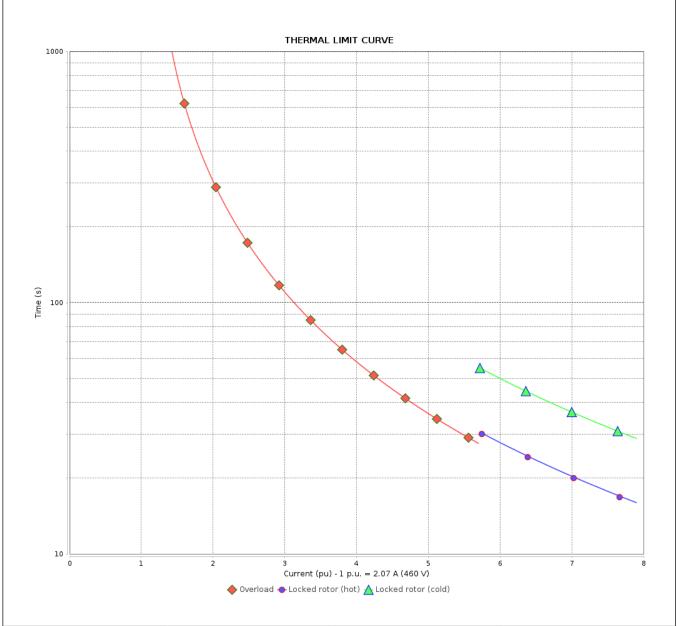
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839426



: 460 V 60 Hz 4P Performance Rated current : 2.07 A Moment of inertia (J) : 0.0055 kgm² **LRC** : 7.9 Duty cycle : S1 Insulation class : 0.610 kgfm : F Rated torque Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 340 % : 80 K Temperature rise Rated speed : 1755 rpm Design : N Heating constant Cooling constant

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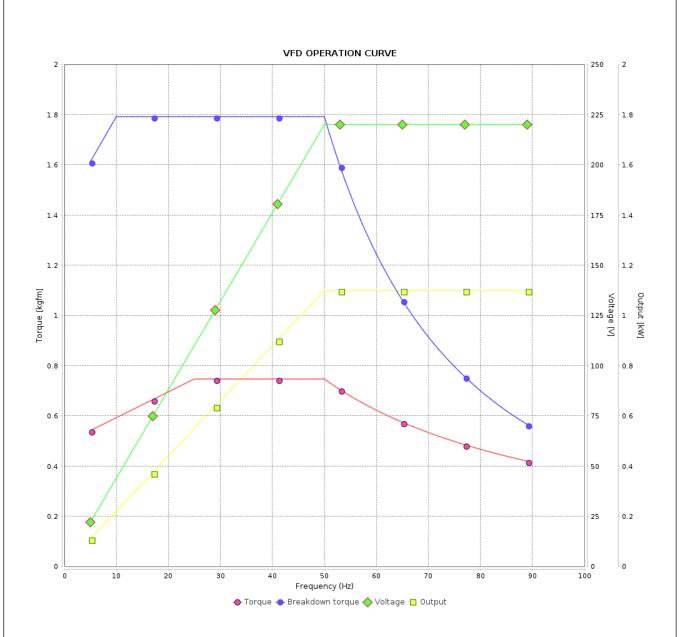
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Product line : W22 IE3 Three-Phase Product code : 15839426



Performance	: 220/380 V 50 H	Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.18/2.42 A : 6.3 : 0.747 kgfm : 210 % : 240 % : 1435 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N	
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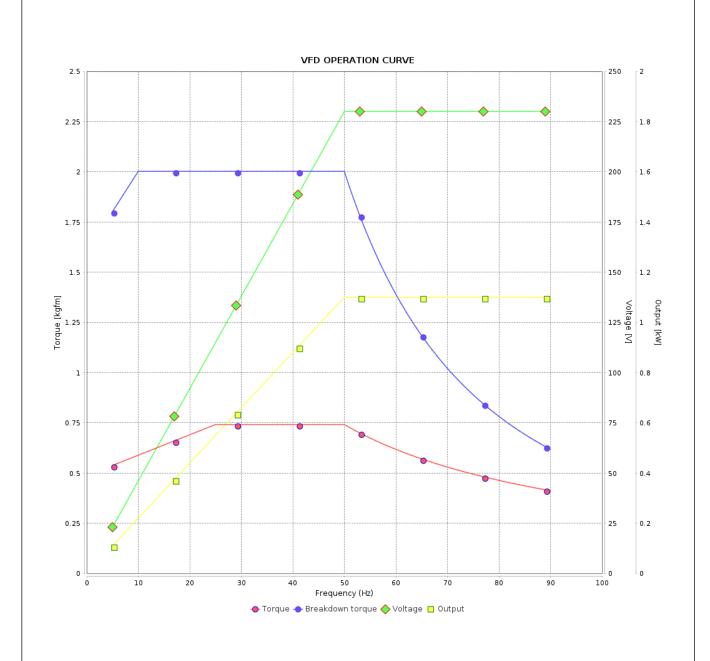
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Customer :



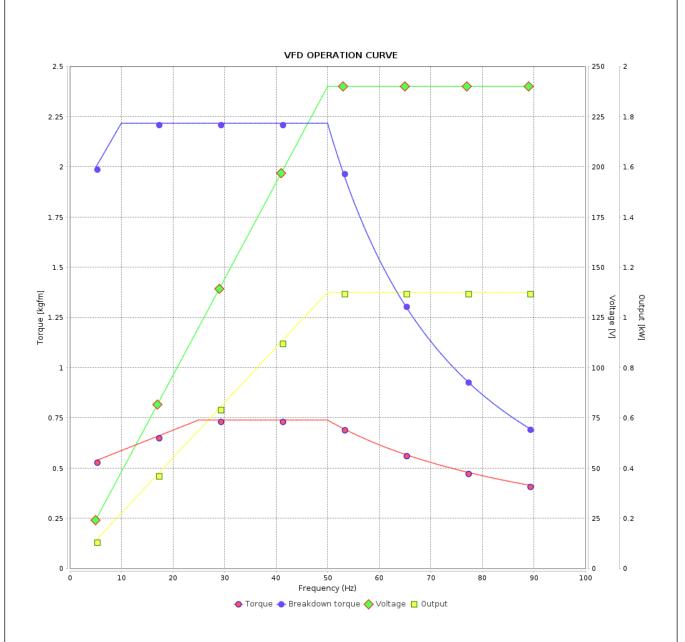
Performance	: 23	30/400 V 50 Hz 4P				
Rated current : 4.1		16/2.39 A	Moment o	Moment of inertia (J)		2
LRC : 6.6		6	Duty cycle	Duty cycle		
Rated torque : 0.		741 kgfm	Insulation class		: F	
Locked rotor tord	que : 22	29 %	Service factor		: 1.00	
Breakdown torque ::		70 %	Temperati	Temperature rise		
Rated speed		445 rpm Design		: N		
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839426



Performance	: 240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.08/2.36 A : 7.1 : 0.739 kgfm : 250 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N	
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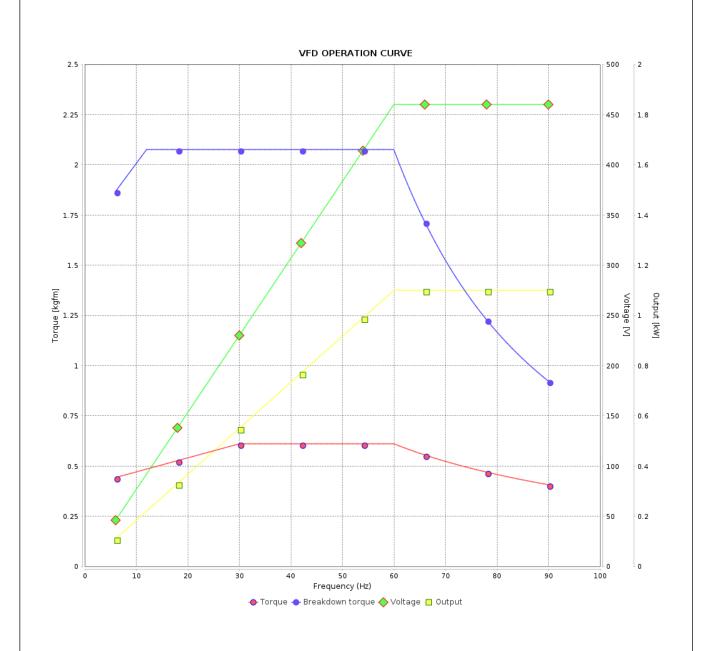
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Product line : W22 IE3 Three-Phase Product code : 15839426



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.07 A : 7.9 : 0.610 kgfm : 270 % : 340 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0055 kgm² : S1 : F : 1.00 : 80 K : N	
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