DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15832314 Frame : 112M Cooling method : IC411 - TEFC Insulation class Mounting : F : B3T 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 : 42.2 kg Protection degree : IP55 Moment of inertia (J) : 0.0081 kgm² Design : N Output [kW] 2 2 2 Poles 2 Frequency [Hz] 50 50 50 60 Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 8.01/4.61 7.87/4.56 7.77 6.92 L. R. Amperes [A] 59.3/34.1 60.6/35.1 62.2 60.9 LRC [A] 8.0 8.8 7.4 7.7 No load current [A] 3.40/1.96 3.80/2.20 4.20 3.70 Rated speed [RPM] 2910 2920 3525 2890 Slip [%] 3.00 2.67 2.08 3.67 Rated torque [kgfm] 1.35 1.34 1.33 1.11 Locked rotor torque [%] 229 250 300 280 430 Breakdown torque [%] 310 350 380 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 18s (cold) 10s (hot) 21s (cold) 12s (hot) Locked rotor time 19s (cold) 11s (hot) 18s (cold) 10s (hot) 62.0 dB(A) Noise level² 62.0 dB(A) 62.0 dB(A) 66.0 dB(A) 25% 50% 87.5 87.0 86.0 85.5 Efficiency (%) 75% 87.5 88.2 88.4 0.88 100% 88.2 88.4 88.5 88.4 25% 50% 0.70 0.65 0.60 0.63 Power Factor 75% 0.80 0.77 0.72 0.72 100% 0.86 0.83 0.81 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 13.2 13.0 13.0 12.9 P2 (0,5;1,0) 11.8 11.6 11.6 11.4 P3 (0,25;1,0) 10.8 10.6 10.6 10.5 Losses (%) P4 (0,9;0,5) 6.6 6.4 6.4 6.4 P5 (0,5;0,5) 4.7 4.6 4.6 4.5 P6 (0,5;0,25) 3.2 3.1 3.1 3.1 P7 (0,25;0,25) 2.3 2.2 2.2 2.2 Foundation loads Drive end Non drive end Bearing type 6207 ZZ 6206 ZZ Max. traction : 78 kaf V'Ring Sealing V'Rina : 121 kaf Max. compression Lubrication interval Lubricant amount 88000 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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Thermal protection

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

Space heater information

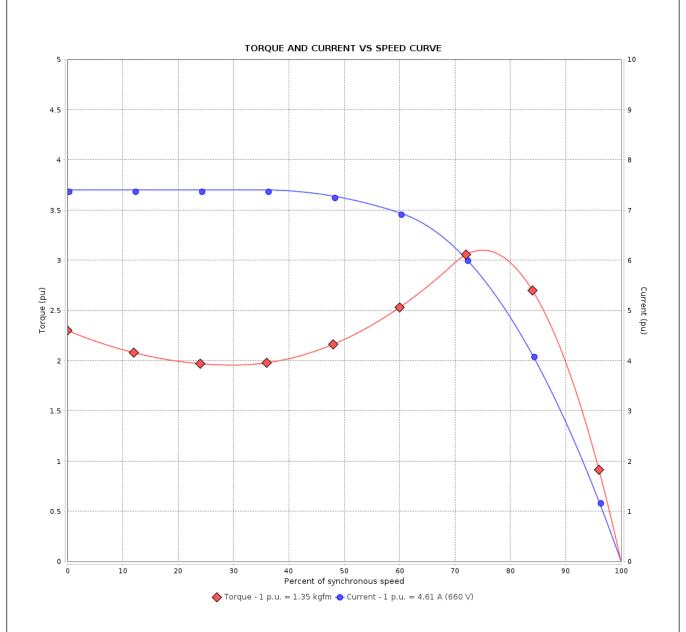
Voltage: 110-127/200-240 V

Three Phase Induction Motor - Squirrel Cage



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Product line : W22 IE3 Three-Phase Product code : 15832314



Performance	: 380/660 V 50 Hz 2P		
Rated current	: 8.01/4.61 A	Moment of inertia (J)	: 0.0081 kgm²
LRC	: 7.4	Duty cycle	: S1
Rated torque	: 1.35 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: N

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

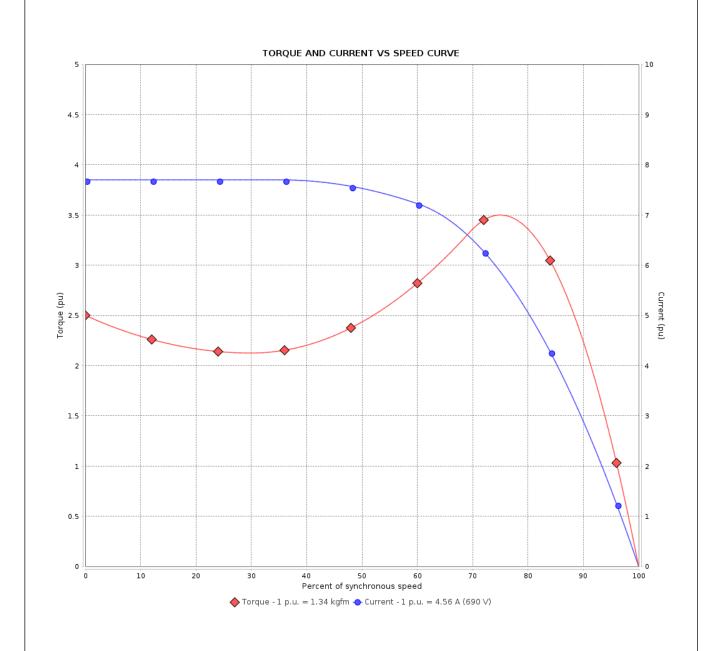
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832314



Performance : 400/690 V 50 Hz 2P Rated current : 7.87/4.56 A Moment of inertia (J) : 0.0081 kgm² : S1 LRC : 7.7 Duty cycle : F : 1.34 kgfm Insulation class Rated torque : 250 % Locked rotor torque Service factor : 1.00 : 350 % : 80 K Breakdown torque Temperature rise : N Rated speed : 2910 rpm Design

Locked rotor time : 18s (cold) 10s (hot)

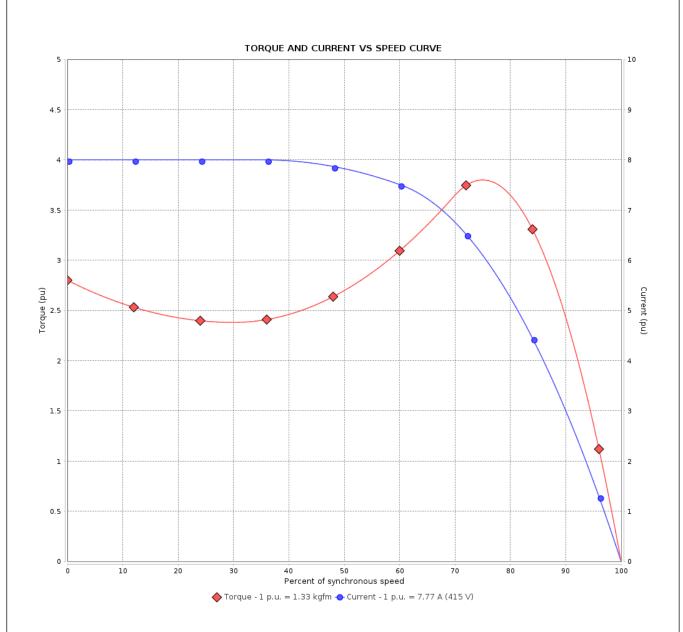
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 15832314



Performance	: 415 V 50 Hz 2P			
Rated current	: 7.77 A	Moment of inertia (J)	: 0.0081 kgm²	
LRC	: 8.0	Duty cycle	: S1	
Rated torque	: 1.33 kgfm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 380 %	Temperature rise	: 80 K	
Rated speed	: 2920 rpm	Design	: N	

Locked rotor time : 18s (cold) 10s (hot)

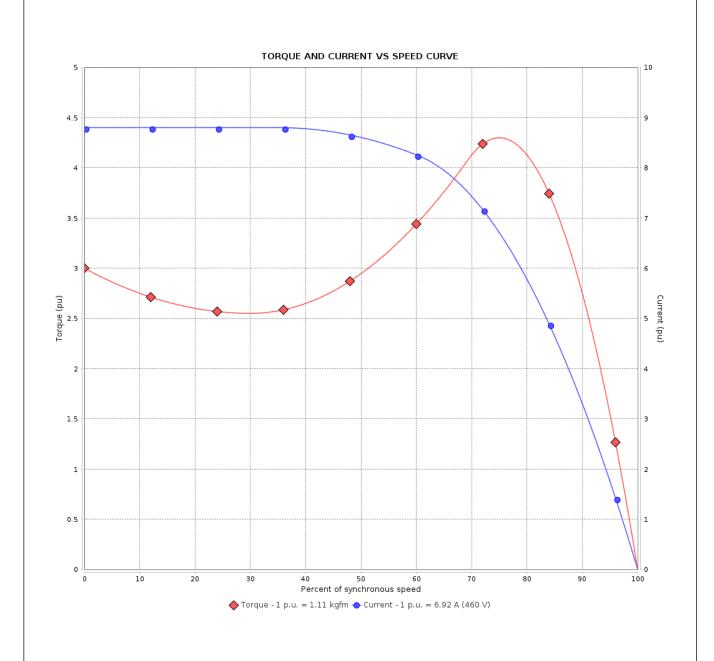
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15832314



Performance	: 460 V 60 Hz 2P			
Rated current	: 6.92 A	Moment of inertia (J)	: 0.0081 kgm²	
LRC	: 8.8	Duty cycle Insulation class	: S1 : F	
Rated torque Locked rotor torque	: 1.11 kgfm : 300 %	Service factor	. r : 1.00	
Breakdown torque	: 430 %	Temperature rise	: 80 K	
Rated speed	: 3525 rpm	Design	: N	

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

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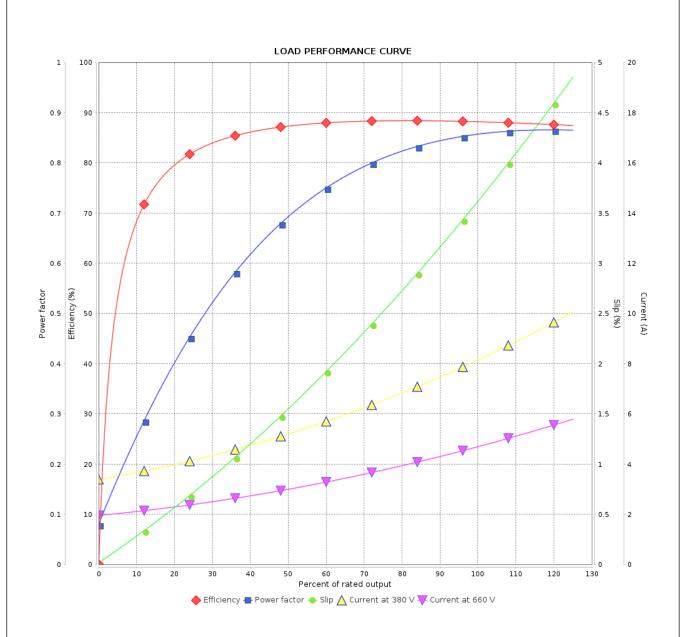
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Product line : W22 IE3 Three-Phase Product code : 15832314



Performance		: 380/660 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 8.01/4.61 A : 7.4 : 1.35 kgfm : 229 % : 310 % : 2890 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0081 kgm² : S1 : F : 1.00 : 80 K : N	
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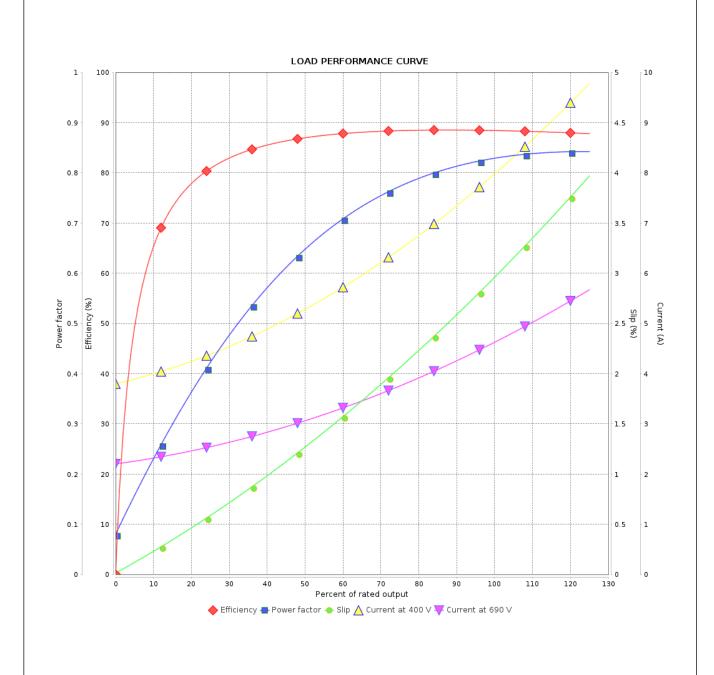
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 4	100/690 V 50 Hz 2P				
Rated current	: 7	7.87/4.56 A	Moment o	f inertia (J)	: 0.0081 kgm²	2
LRC	: 7	7.7	Duty cycle	;	: S1	
Rated torque	: 1	I.34 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque : 350 °		350 %	Temperati	ıre rise	: 80 K	
Rated speed : 2910 i		2910 rpm	Design		: N	
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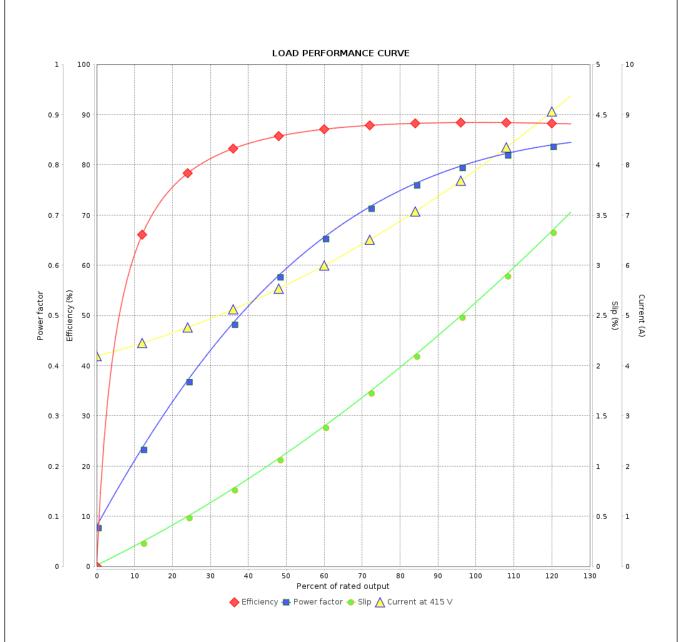
Customer :

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Product line : W22 IE3 Three-Phase Product code : 15832314



Performance	: 4	115 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 1 jue : 2 ie : 3	7.77 A 3.0 1.33 kgfm 280 % 380 % 2920 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0081 kgm² : S1 : F : 1.00 : 80 K : N	
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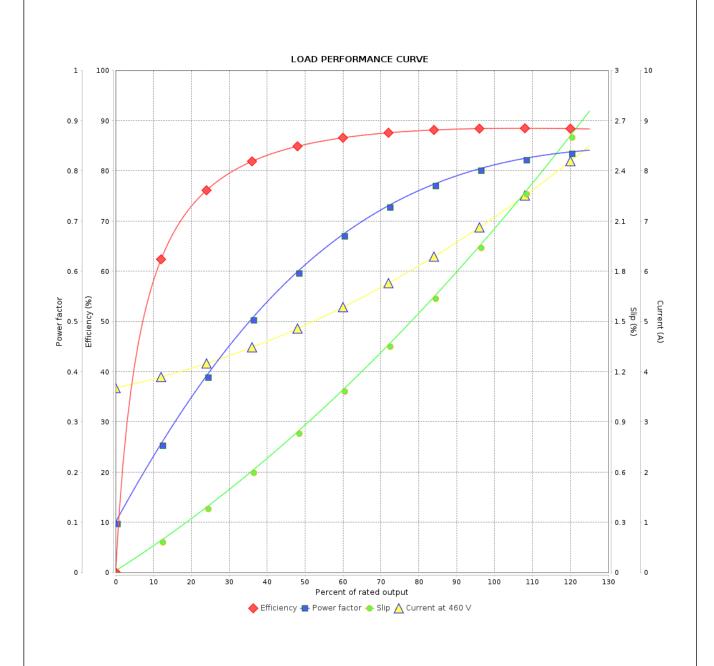
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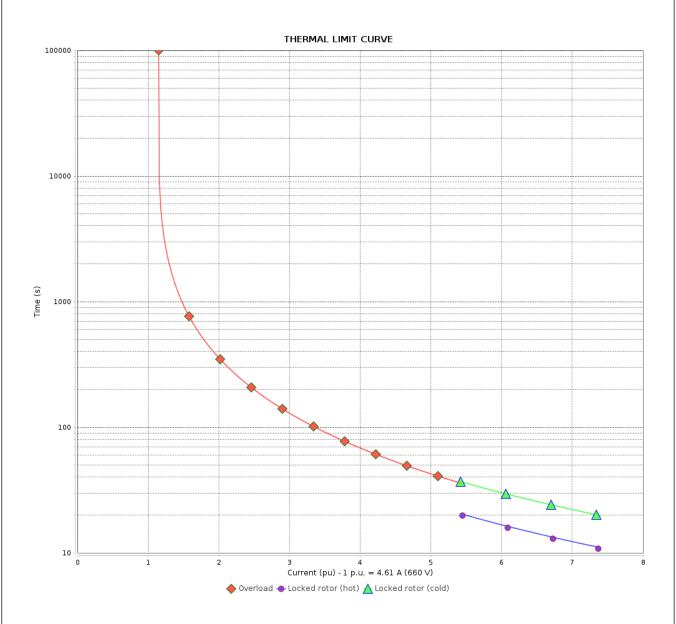


Performance	: 46	60 V 60 Hz 2P				
Rated current	: 6.	92 A	Moment o	f inertia (J)	: 0.0081 kgm²	2
LRC	: 8.	.8	Duty cycle)	: S1	
Rated torque	: 1.	.11 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 30	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	eakdown torque : 430 % Temp		Temperati	ure rise	: 80 K	
Rated speed		525 rpm	Design		: N	
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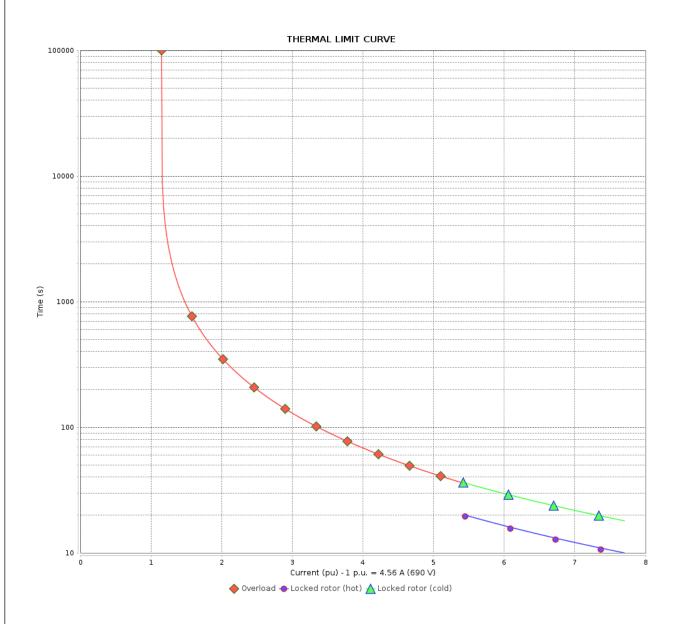
Performance	: 380/660 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.01/4.61 A : 7.4 : 1.35 kgfm : 229 % : 310 % : 2890 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0081 kgm² : S1 : F : 1.00 : 80 K : N	
Heating constant Cooling constant				

Cooling Constant	<u> </u>					
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Customer :



Performance	: 400/690 V 50 Hz 2P		
Rated current	: 7.87/4.56 A	Moment of inertia (J)	: 0.0081 kgm²
LRC	: 7.7	Duty cycle	: S1
Rated torque	: 1.34 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: N
Heating constant			
Cooling constant			

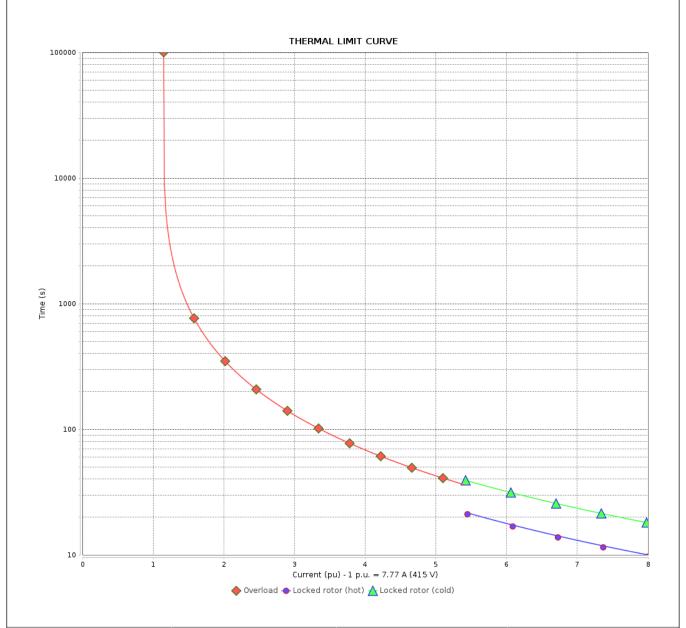
Cooling constant	_				
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Customer			
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Product line : W22 IE3 Three-Phase Product code : 15832314



Performance : 415 V 50 Hz 2P Rated current : 7.77 A Moment of inertia (J) : 0.0081 kgm² **LRC** : 8.0 Duty cycle : S1 Insulation class : F Rated torque : 1.33 kgfm : 280 % : 1.00 Locked rotor torque Service factor : 380 % Temperature rise : 80 K Breakdown torque Rated speed : 2920 rpm Design : N

Heating constant

Cooling constant

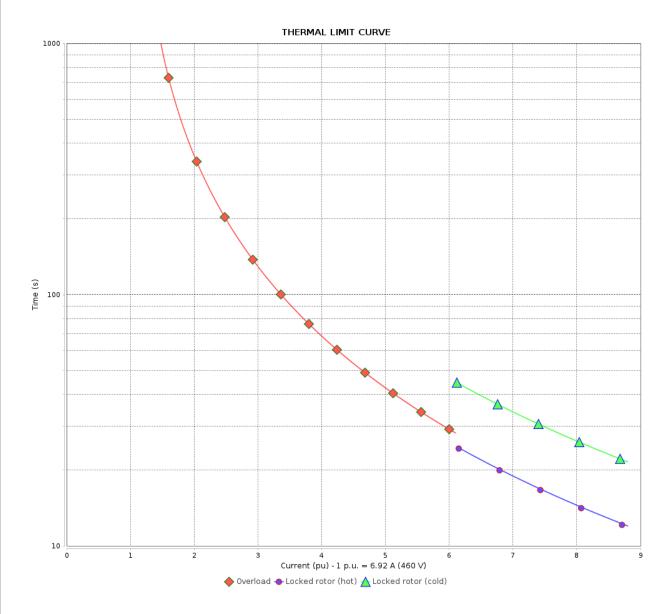
Cooling Constant					
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15832314



Performance : 460 V 60 Hz 2P : 6.92 A Moment of inertia (J) : 0.0081 kgm² Rated current **LRC** : 8.8 Duty cycle : S1 Insulation class : F Rated torque : 1.11 kgfm : 300 % : 1.00 Locked rotor torque Service factor Breakdown torque : 430 % : 80 K Temperature rise Rated speed : 3525 rpm Design : N Heating constant Coolin

Cooling constant	t				
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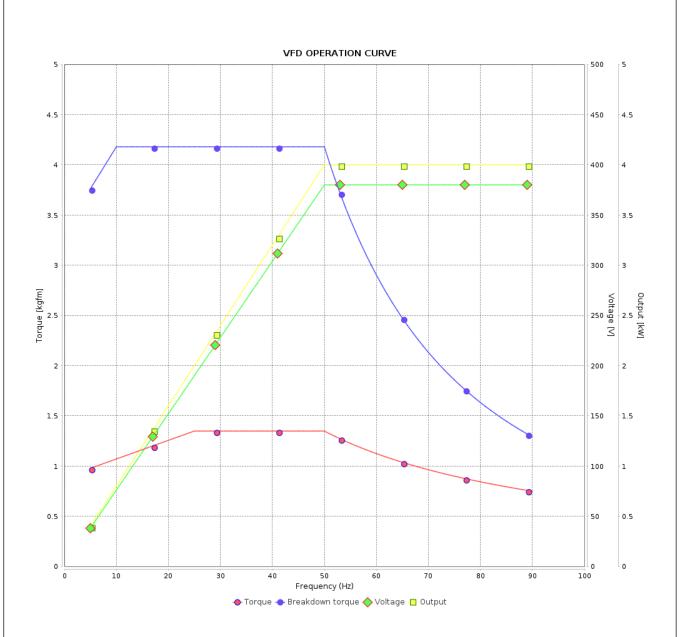
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Product line : W22 IE3 Three-Phase Product code : 15832314



			,			,	
Performance		: 380/660 V 50 Hz	z 2P				
LRC : 7.4 Rated torque : 1.35 kg Locked rotor torque : 229 % Breakdown torque : 310 %		: 8.01/4.61 A : 7.4 : 1.35 kgfm : 229 % : 310 % : 2890 rpm	Du Ins Se Te	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0081 kgm² : S1 : F : 1.00 : 80 K : N	
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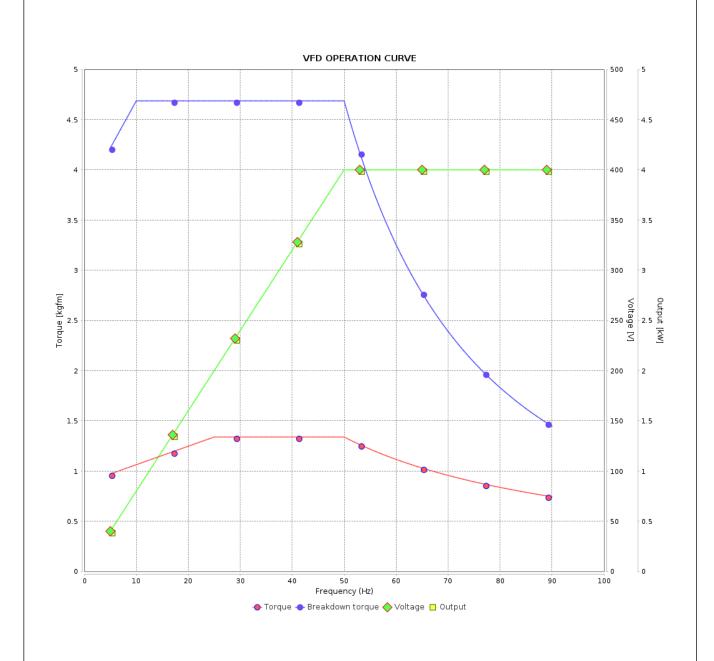
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 4	00/690 V 50 Hz 2P				
Rated current	Rated current : 7.87/4.56		Moment of inertia (J)		: 0.0081 kgm²	
LRC	: 7	.7	Duty cycle	Э	: S1	
Rated torque	: 1	.34 kgfm	Insulation	class	: F	
Locked rotor torq	jue : 2	50 % Service factor : 1.	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torqu	ie : 3	50 %				
Rated speed	: 2	910 rpm	Design		: N	
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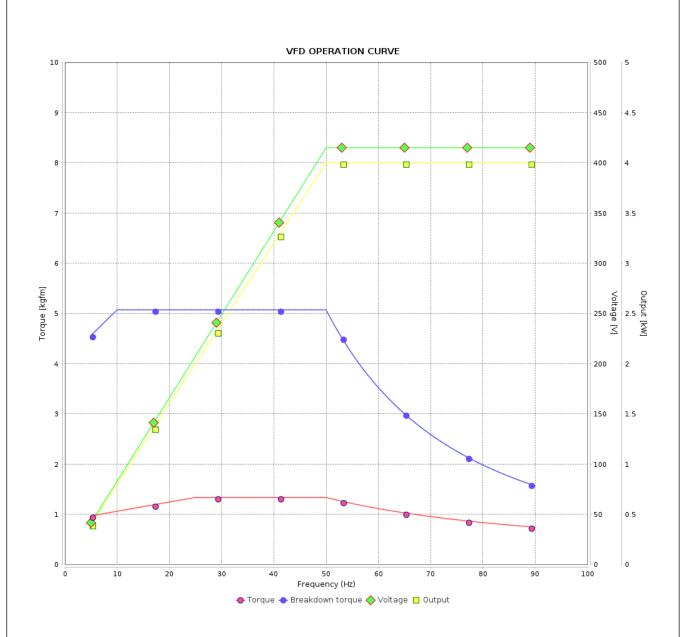
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Performance	:	415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	7.77 A 8.0 1.33 kgfm 280 % 380 % 2920 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0081 kgm² : S1 : F : 1.00 : 80 K : N	
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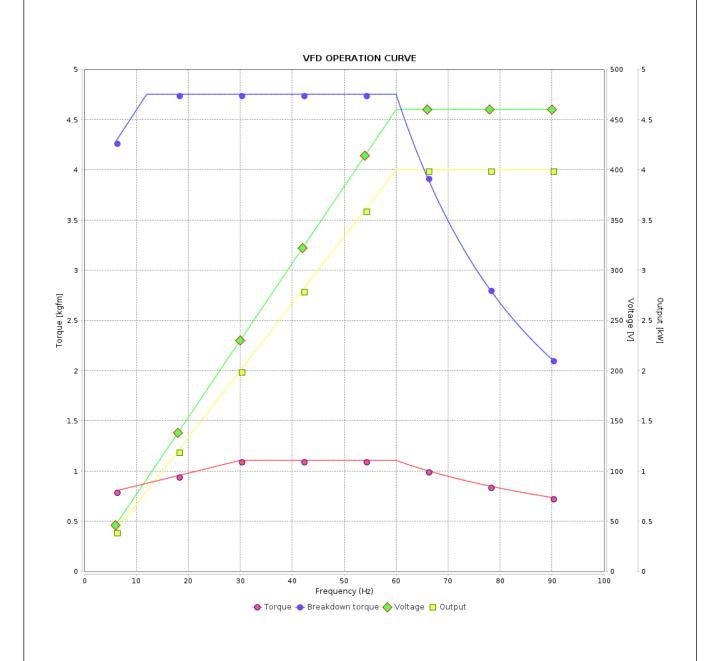
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Customer :



Performance	: 46	60 V 60 Hz 2P				
Rated current	ated current : 6.92 A Mome		Moment of	of inertia (J)	: 0.0081 kgm²	
LRC	: 8.	.8	Duty cycle	e	: S1	
Rated torque	: 1.	.11 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 30	00 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 43	30 %	Temperature rise		: 80 K	
Rated speed	: 38	525 rpm	Design		: N	
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