DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15833993 Frame Cooling method : IC411 - TEFC : 71 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 : 11.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0008 kgm² Design : N Output [kW] 0.37 0.37 0.37 0.37 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 1.74/1.01 1.72/0.990 1.71/0.990 0.910 8.26/4.75 L. R. Amperes [A] 7.85/4.55 8.56/4.95 4.82 LRC [A] 5.3 4.5 4.8 5.0 1.16/0.670 1.29/0.740 No load current [A] 1.40/0.810 0.700 Rated speed [RPM] 1710 1370 1390 1400 Slip [%] 7.33 5.00 8.67 6.67 Rated torque [kgfm] 0.259 0.263 0.257 0.211 Locked rotor torque [%] 260 290 320 350 Breakdown torque [%] 250 280 310 340 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) 99s (cold) 55s (hot) Noise level² 43.0 dB(A) 43.0 dB(A) 43.0 dB(A) 47.0 dB(A) 25% 50% 73.0 73.0 73.0 70.0 Efficiency (%) 75% 75.0 75.0 75.0 75.0 77.3 100% 77.3 77.3 78.5 25% 0.53 0.50 0.47 0.47 50% Power Factor 75% 0.64 0.60 0.58 0.57 100% 0.72 0.70 0.67 0.65 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 28.6 28.6 28.6 26.7 P2 (0,5;1,0) 26.9 26.9 26.9 25.1 P3 (0,25;1,0) 27.4 27.4 27.4 25.5 Losses (%) P4 (0,9;0,5) 14.7 14.7 14.7 13.7 P5 (0,5;0,5) 11.4 11.4 11.4 10.7 P6 (0,5;0,25) 8.5 8.5 8.5 7.9 P7 (0,25;0,25) 6.6 6.6 6.6 6.2 Drive end Non drive end Foundation loads Bearing type 6202 ZZ 6202 ZZ Max. traction : 19 kgf V'Ring Sealing V'Rina : 31 kaf 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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Customer :

Thermal	protection

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

Space heater information

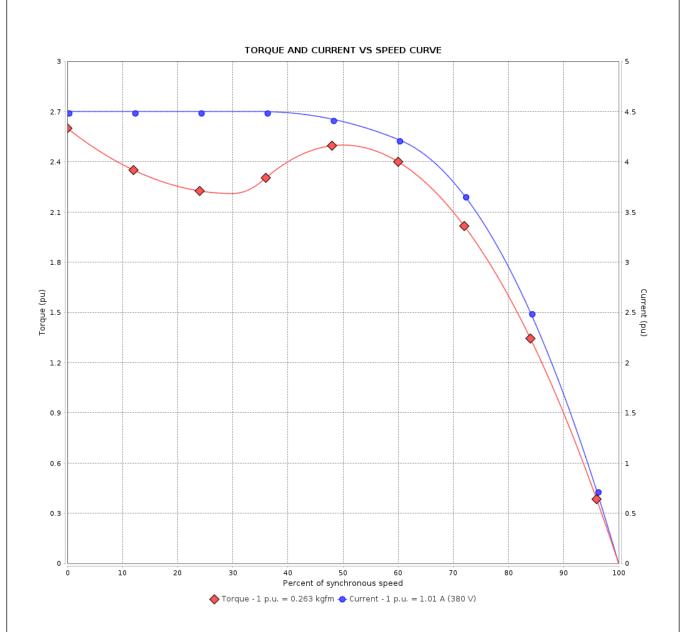
Voltage: 110 - 127 V

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 220/380 V 50 Hz 4P		
Rated current	: 1.74/1.01 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 4.5	Duty cycle	: S1
Rated torque	: 0.263 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1370 rpm	Design	: N

Locked rotor time : 54s (cold) 30s (hot)

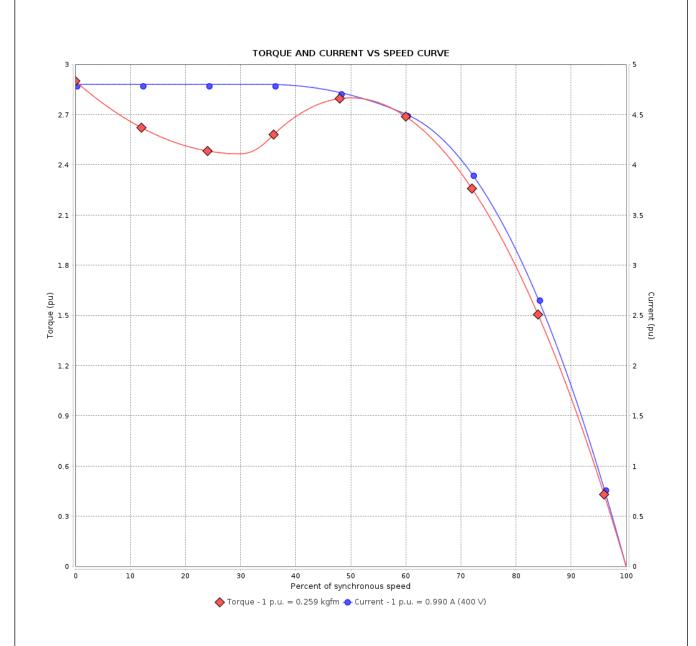
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance : 230/400 V 50 Hz 4P Rated current : 1.72/0.990 A Moment of inertia (J) : 0.0008 kgm² : S1 **LRC** : 4.8 Duty cycle : F : 0.259 kgfm Insulation class Rated torque : 290 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 280 % Temperature rise : N Rated speed : 1390 rpm Design

Locked rotor time : 54s (cold) 30s (hot)

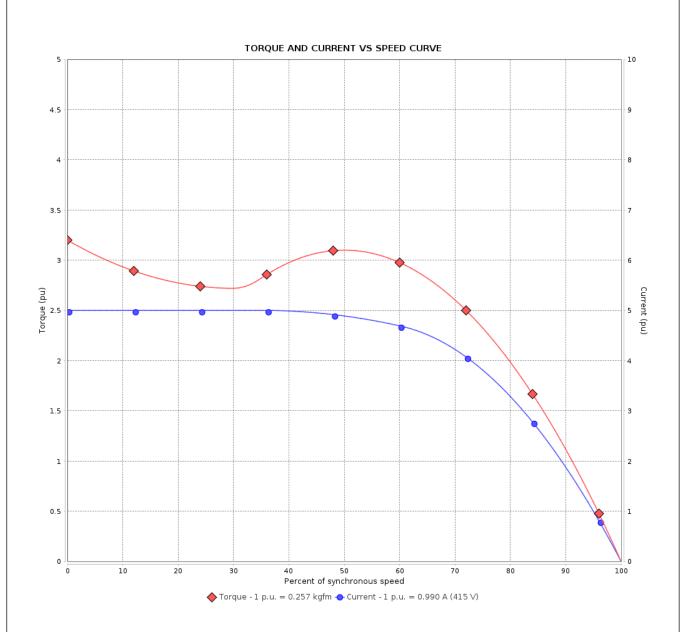
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Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 240/415 V 50 Hz 4P		
Rated current	: 1.71/0.990 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 5.0	Duty cycle	: S1
Rated torque	: 0.257 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1400 rpm	Design	: N

Locked rotor time : 54s (cold) 30s (hot)

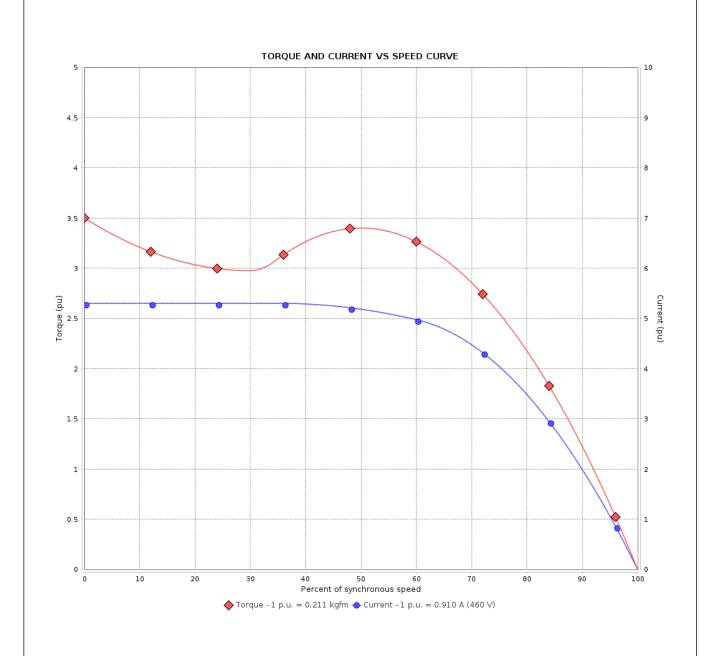
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 460 V 60 Hz 4P			
Rated current	: 0.910 A	Moment of inertia (J)	: 0.0008 kgm²	
LRC	: 5.3	Duty cycle	: S1	
Rated torque	: 0.211 kgfm	Insulation class	: F	
Locked rotor torque	: 350 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 1710 rpm	Design	: N	

Locked rotor time : 99s (cold) 55s (hot)

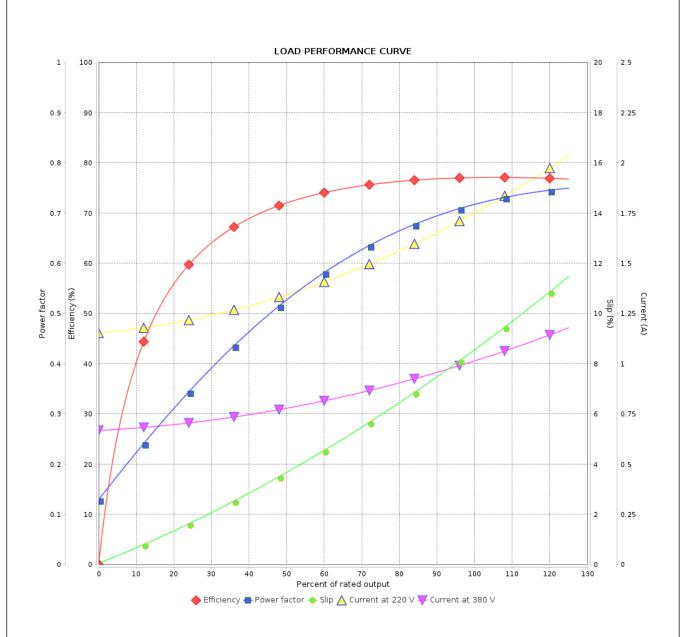
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15833993



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Performance	: 220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.74/1.01 A : 4.5 : 0.263 kgfm : 260 % : 250 % : 1370 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	2
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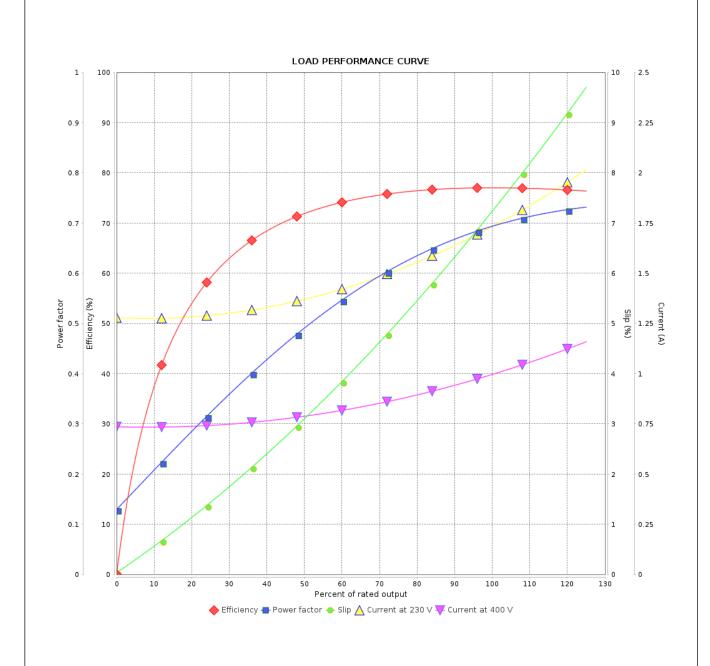
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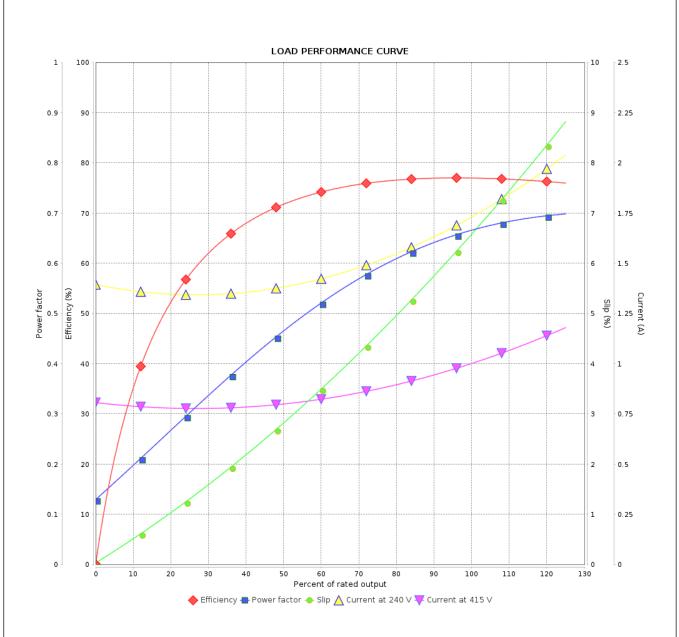
Performance	: 23	30/400 V 50 Hz 4P					
LRC : 4.8		72/0.990 A 8 259 kgfm	Duty cycle	Moment of inertia (J) Duty cycle Insulation class		: 0.0008 kgm² : S1 : F	
Locked rotor torq Breakdown torqu Rated speed	ue : 29 e : 28	233 kgiiii 90 % 30 % 390 rpm	Service fa	Service factor Temperature rise			
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 24	10/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord	: 5. : 0.	71/0.990 A 0 257 kgfm 20 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0008 kgm² : S1 : F : 1.00	
Breakdown torqu Rated speed	ue : 31	10 % 100 rpm	Temperati Design	ure rise	: 80 K : N	
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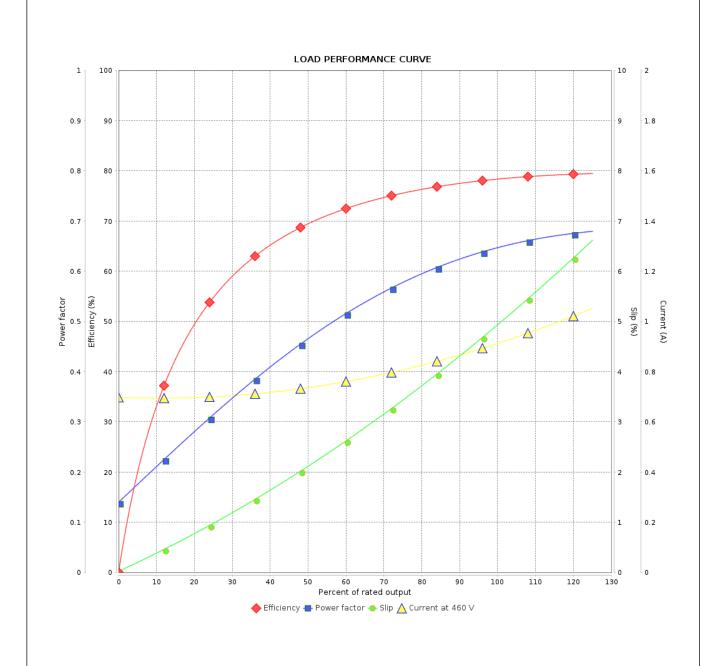
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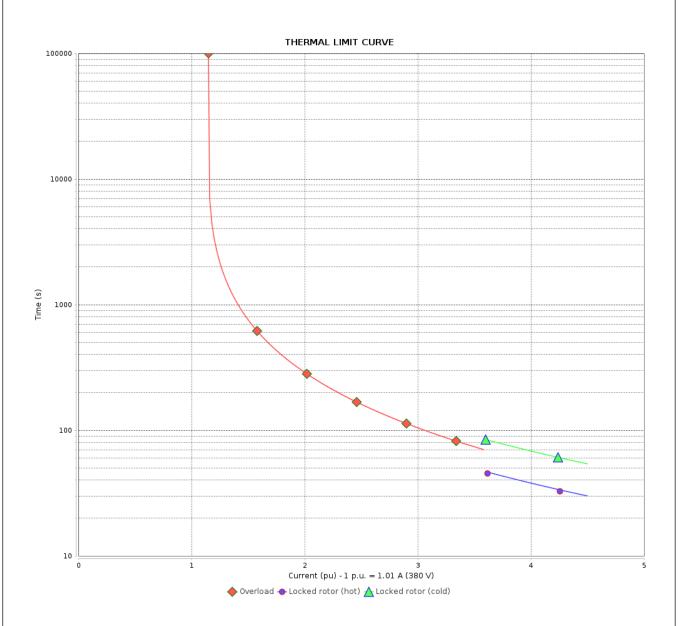


Performance	: 40	60 V 60 Hz 4P				
Rated current			1	Moment of inertia (J)		
LRC Rated torque	: 5. · 0	.პ .211 kgfm	Duty cycle		: S1 : F	
Locked rotor torg		50 %	Service fa		: 1.00	
Breakdown torque : 340 %		40 %	Temperati	Temperature rise		
Rated speed	: 17	710 rpm	Design		: N	
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Three Phase Induction Motor - Squirrel Cage



Customer :	
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Performance	: 220/380 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1.74/1.01 A : 4.5 : 0.263 kgfm : 260 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0008 kgm² : S1 : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant	: 1370 rpm	Design	: N	

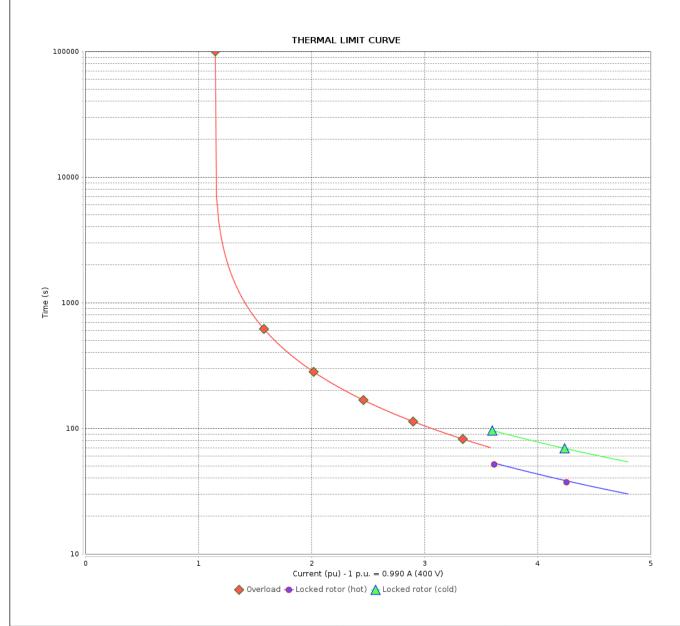
Cooling constant					
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15833993



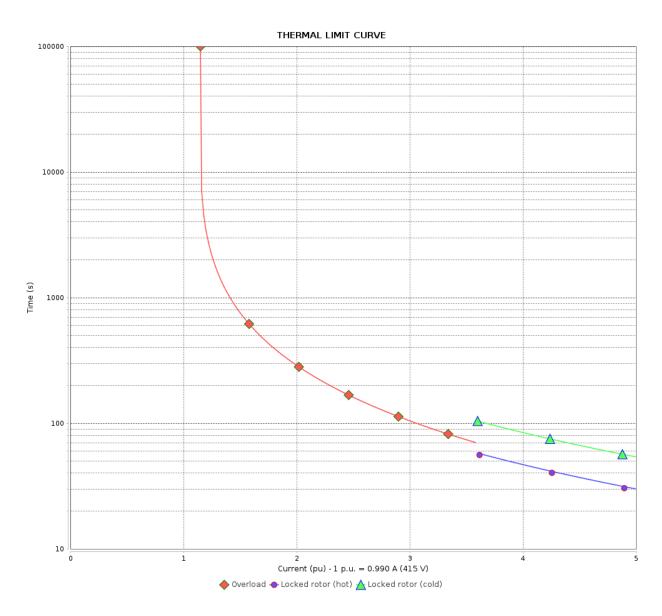
Performance : 230/400 V 50 Hz 4P : 1.72/0.990 A Moment of inertia (J) : 0.0008 kgm² Rated current **LRC** Duty cycle : S1 : 4.8 Insulation class : F Rated torque : 0.259 kgfm Locked rotor torque : 290 % Service factor : 1.00 : 280 % : 80 K Breakdown torque Temperature rise Rated speed : 1390 rpm Design : N Heating constant

Cooling constant	İ .				
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Performance	: 240/415 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.71/0.990 A : 5.0 : 0.257 kgfm : 320 % : 310 % : 1400 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N
Heating constant			
Cooling constant			

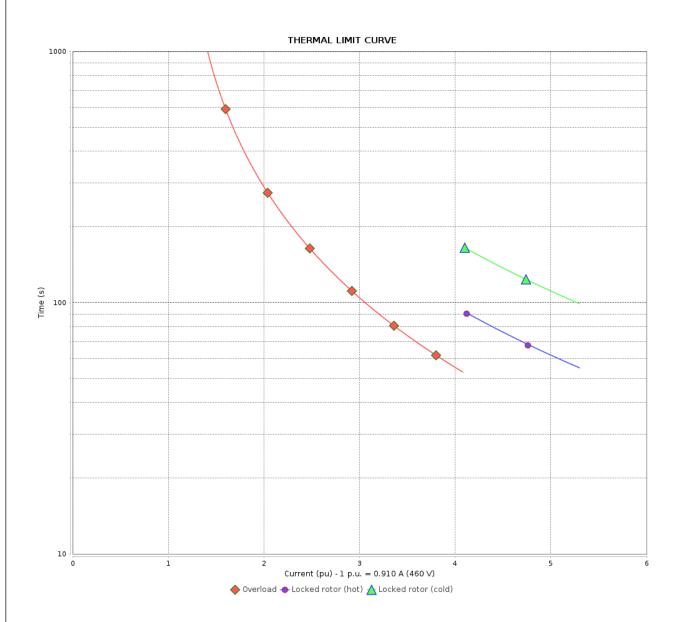
Cooling constant					
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Customer

Product line : W22 IE3 Three-Phase Product code: 15833993



: 460 V 60 Hz 4P Performance Rated current : 0.910 A Moment of inertia (J) : 0.0008 kgm² **LRC** : 5.3 Duty cycle : S1 Insulation class Rated torque : 0.211 kgfm : F Locked rotor torque : 1.00 : 350 % Service factor Temperature rise Breakdown torque : 340 % : 80 K Rated speed : 1710 rpm Design : N Heating constant

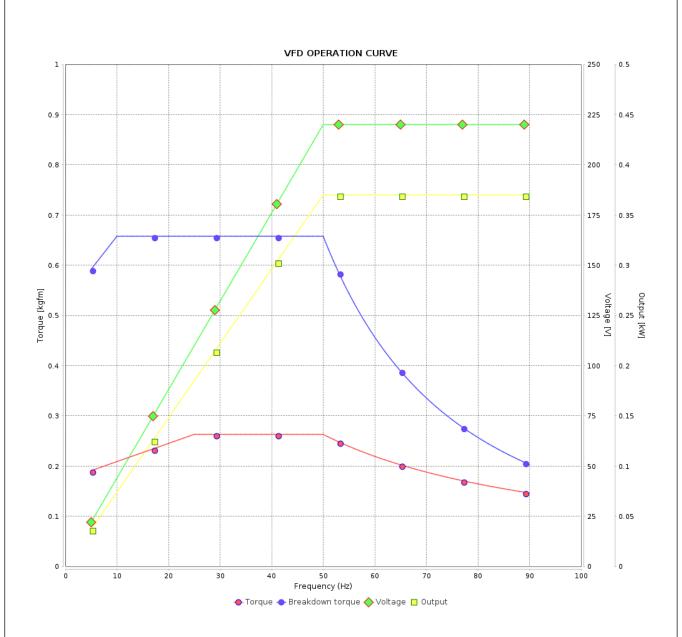
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.74/1.01 A : 4.5 : 0.263 kgfm : 260 % : 250 % : 1370 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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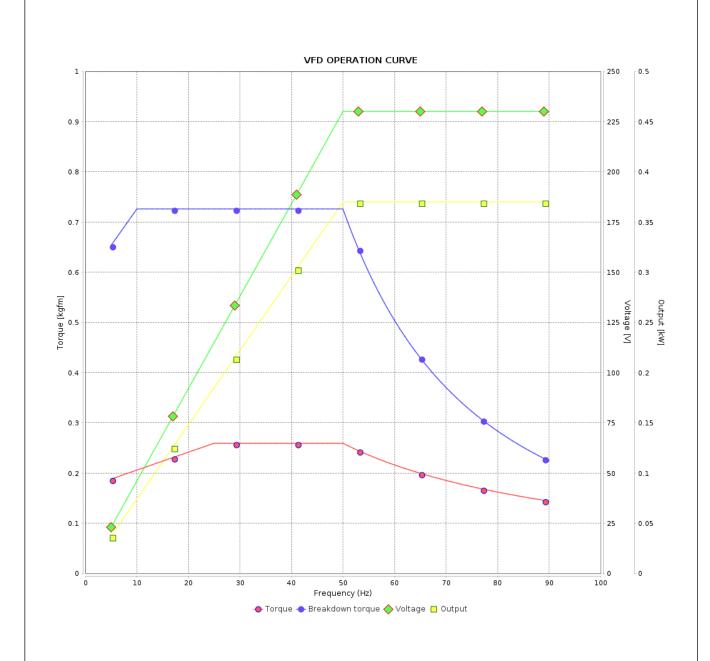
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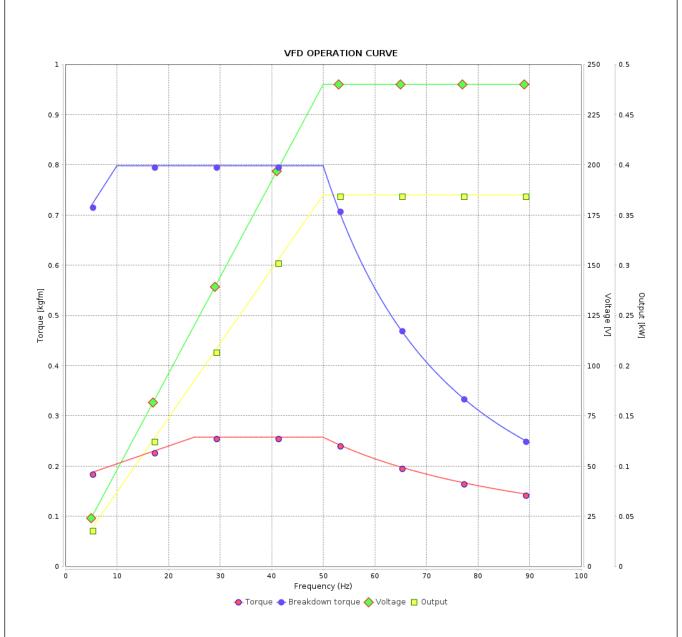
Performance	: 23	30/400 V 50 Hz 4P					
Rated current : 1.7		72/0.990 A	Moment of	Moment of inertia (J)		2	
LRC	: 4.	.8	Duty cycle	Duty cycle			
Rated torque	: 0.	.259 kgfm	Insulation class		: F		
Locked rotor tord	que : 29	90 %	Service fa	Service factor			
Breakdown torque :		80 %	Temperat	Temperature rise		: 80 K	
Rated speed		390 rpm	Design		: N		
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15833993



Performance	: 240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.71/0.990 A : 5.0 : 0.257 kgfm : 320 % : 310 % : 1400 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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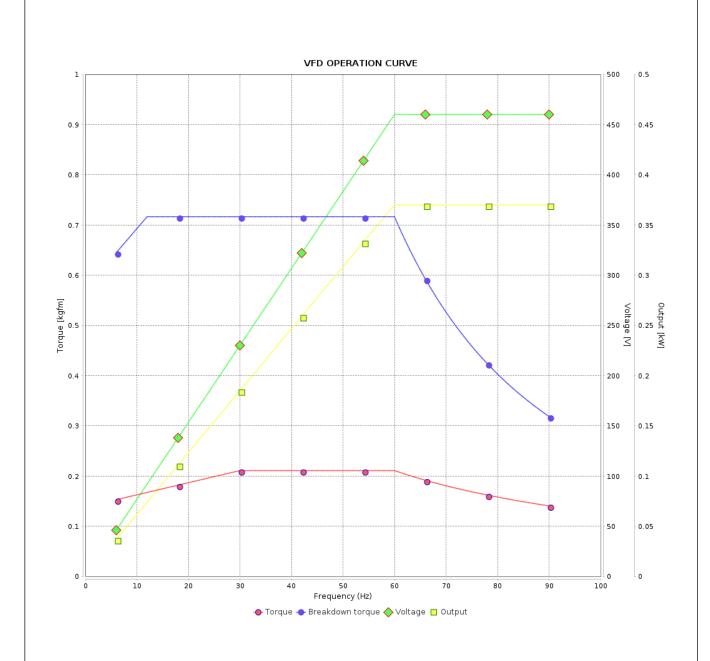
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Customer :



Performance	: 40	60 V 60 Hz 4P				
Rated current : 0		.910 A	Moment o	Moment of inertia (J)		
LRC	: 5.	.3	Duty cycle		: S1	
Rated torque	: 0.	.211 kgfm	Insulation class		: F	
Locked rotor torq	ue : 3	50 %	Service fa	Service factor		
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 1	710 rpm	Design		: N	
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