DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15833976 Frame : 80 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 : 17.0 kg : 0.0032 kgm² Protection degree : IP55 Moment of inertia (J) Design : N Output [kW] 0.75 0.75 0.75 0.75 Poles 4 4 4 4 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 2.92/1.68 Rated current [A] 2.90/1.68 2.87/1.66 1.47 L. R. Amperes [A] 19.4/11.3 20.5/11.8 21.0/12.1 12.5 LRC [A] 6.7 8.5 7.0 7.3 No load current [A] 1.73/1.00 1.91/1.10 2.08/1.20 1.00 Rated speed [RPM] 1440 1745 1430 1435 Slip [%] 4.67 4.33 4.00 3.06 Rated torque [kgfm] 0.419 0.511 0.509 0.507 Locked rotor torque [%] 440 330 360 390 440 Breakdown torque [%] 330 360 390 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 30s (cold) 17s (hot) Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 48.0 dB(A) Noise level² 44.0 dB(A) 44.0 dB(A) 44.0 dB(A) 25% 50% 79.0 78.0 77.0 78.5 Efficiency (%) 75% 81.5 81.0 81.0 80.0 84.0 100% 82.5 82.5 82.5 25% 0.59 0.54 0.50 0.55 50% Power Factor 75% 0.73 0.68 0.65 0.68 100% 0.82 0.78 0.76 0.76 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.6 20.6 20.6 18.5 P2 (0,5;1,0) 18.1 18.1 18.1 16.3 P3 (0,25;1,0) 17.4 17.4 17.4 15.6 Losses (%) P4 (0,9;0,5) 11.1 11.1 11.1 10.0 P5 (0,5;0,5) 7.8 7.8 7.8 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.2 P7 (0,25;0,25) 4.1 4.1 4.1 3.7 Drive end Non drive end Foundation loads Bearing type 6204 ZZ 6203 ZZ Max. traction : 50 kgf V'Ring Sealing V'Rina : 67 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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Three Phase Induction Motor - Squirrel Cage



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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

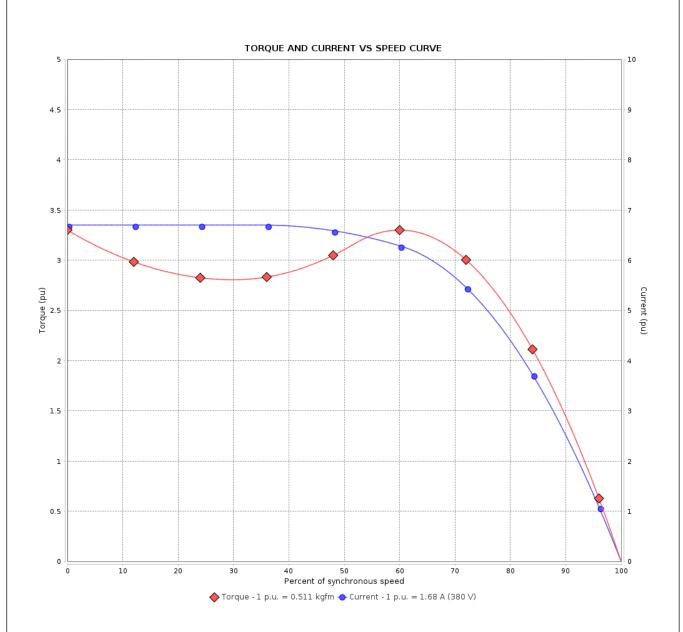
Voltage: 110 - 127 V

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Customer	

Product line : W22 IE3 Three-Phase Product code : 15833976



Performance	: 220/380 V 50 Hz 4P		
Rated current	: 2.90/1.68 A	Moment of inertia (J)	: 0.0032 kgm²
LRC	: 6.7	Duty cycle	: S1
Rated torque	: 0.511 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1430 rpm	Design	: N

Locked rotor time : 32s (cold) 18s (hot)

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: W22 IE3 Three-Phase

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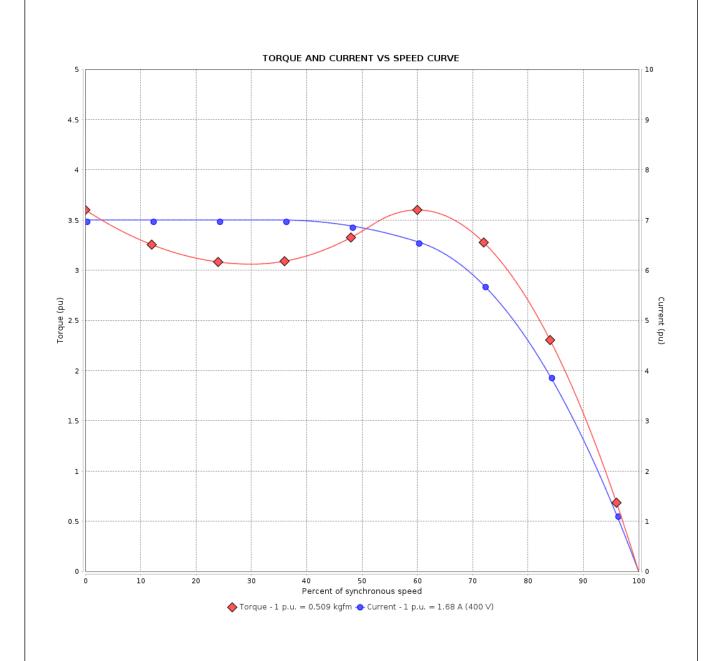
Product line



15833976

Customer :

Product code:



D 1 1 1			
Rated current	: 2.92/1.68 A	Moment of inertia (J)	: 0.0032 kgm²
LRC	: 7.0	Duty cycle	: S1
Rated torque	: 0.509 kgfm	Insulation class	: F
Locked rotor torque	: 360 %	Service factor	: 1.00
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1435 rpm	Design	: N

Locked rotor time : 32s (cold) 18s (hot)

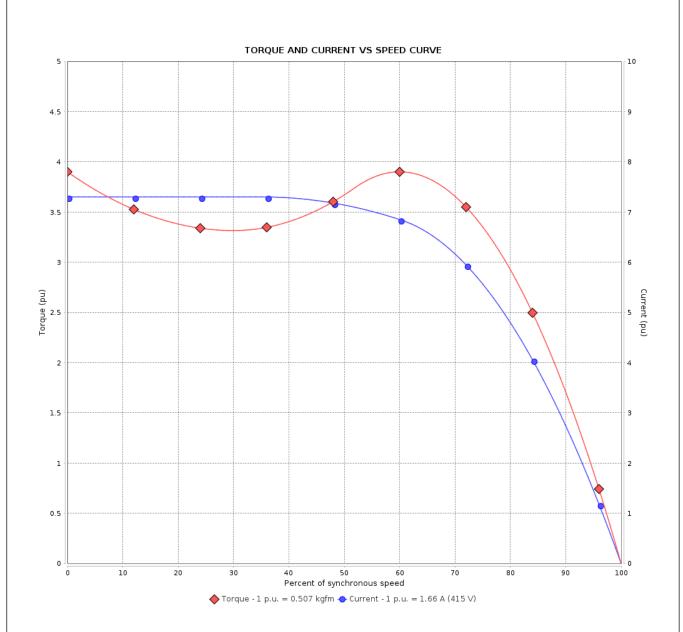
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15833976



Locked rotor time : 32s (cold) 18s (hot)

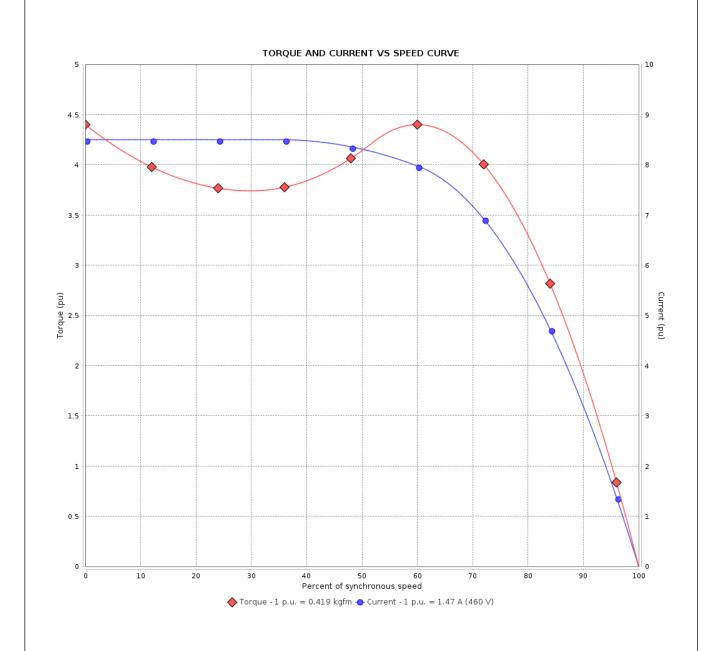
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15833976



Performance : 460 V 60 Hz 4P Rated current : 1.47 A Moment of inertia (J) : 0.0032 kgm² : S1 LRC : 8.5 Duty cycle : F : 0.419 kgfm Insulation class Rated torque : 440 % Service factor : 1.00 Locked rotor torque : 440 % : 80 K Breakdown torque Temperature rise : N Rated speed : 1745 rpm Design

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

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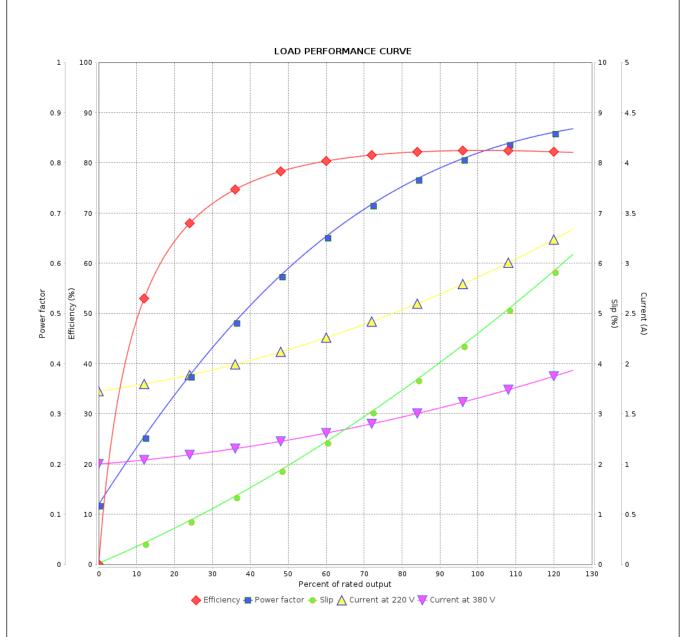
Customer	

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Date

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Product line : W22 IE3 Three-Phase Product code : 15833976



Performance : 220/380 V 50 Hz 4P Rated current : 2.90/1.68 A				-1			
LRC : 6.7 Duty cycle : S1 Rated torque : 0.511 kgfm Insulation class : F Locked rotor torque : 330 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1430 rpm Design : N Rev. Changes Summary Performed Checked Date	Performance		: 220/380 V 50 Hz 4F	•			
	LRC Rated torque Locked rotor tord Breakdown torqu	: 6.7 Duty of the second secon		Duty cycle Insulation Service fa Temperati	class ctor	: S1 : F : 1.00 : 80 K	
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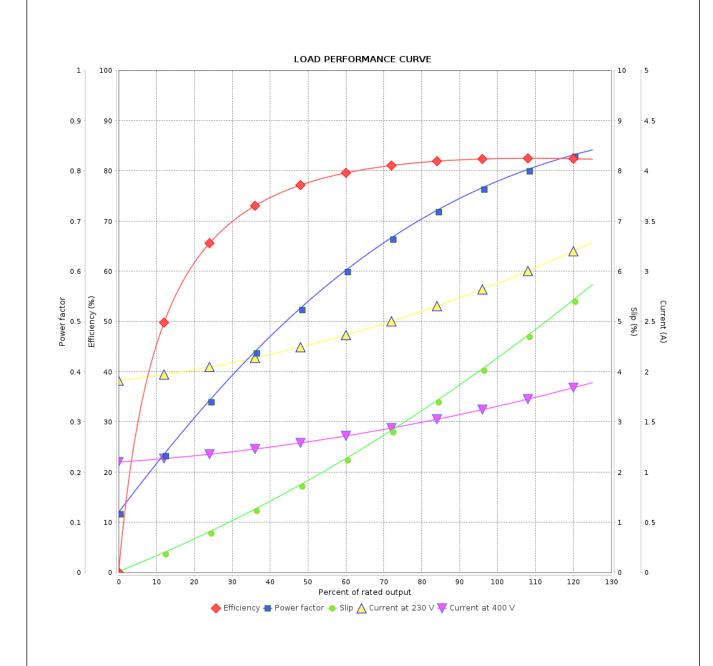
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 23	30/400 V 50 Hz 4P					
Rated current : 2.92/1.68 A LRC : 7.0 Rated torque : 0.509 kgfm Locked rotor torque : 360 % Breakdown torque : 360 % Rated speed : 1435 rpm		0 509 kgfm 60 % 60 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	
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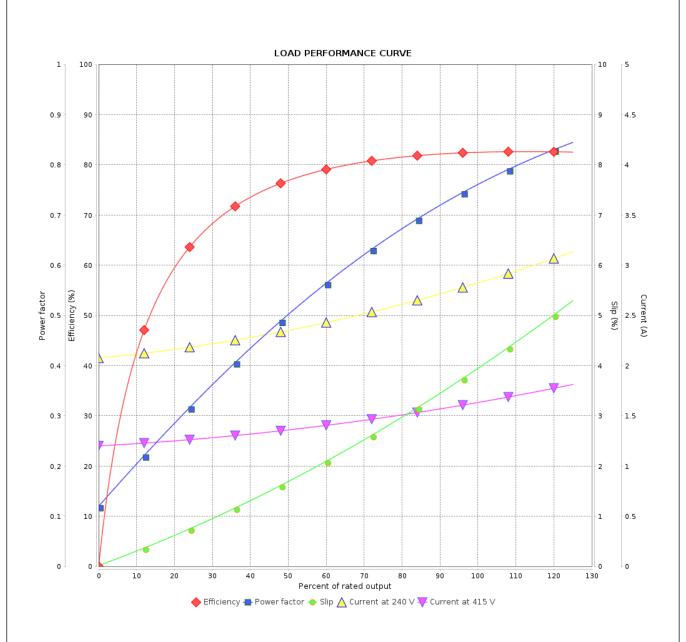
Customer :

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Date

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Product line : W22 IE3 Three-Phase Product code : 15833976



Performance	:	240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.87/1.66 A 7.3 0.507 kgfm 390 % 390 % 1440 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	
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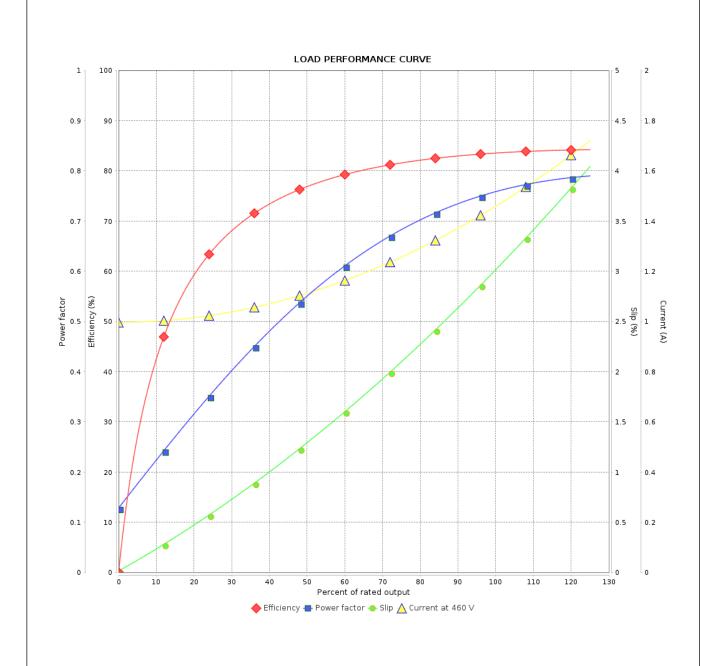
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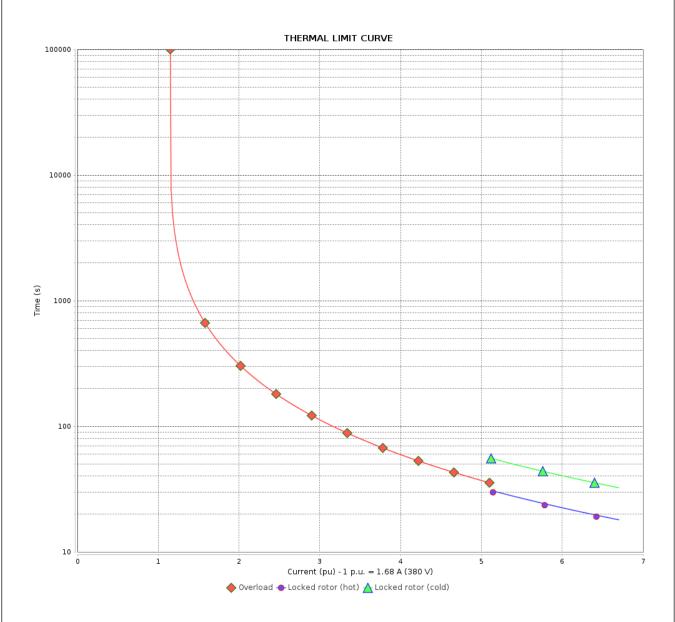


Performance	: 4	60 V 60 Hz 4P				
Rated current	: 1	.47 A	Moment of	of inertia (J)	: 0.0032 kgm²	
LRC	: 8	.5	Duty cycle	e `´	: S1	
Rated torque	: 0	.419 kgfm	Insulation	class	: F	
Locked rotor tord	que : 4	40 %	Service fa	ictor	: 1.00	
Breakdown torque : 44		40 %	Temperature rise		: 80 K	
Rated speed	: 1	: 1745 rpm Des			: N	
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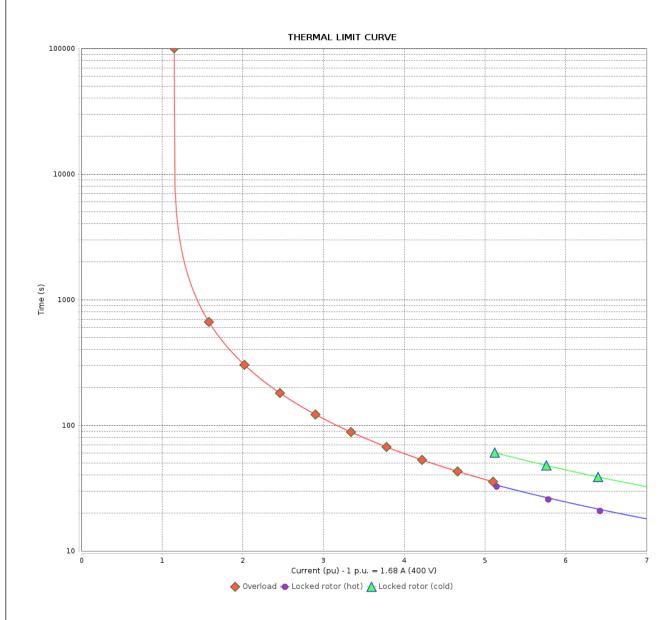
Performance	: 220/380 V 50 Hz 4P			
Rated current	: 2.90/1.68 A	Moment of inertia (J)	: 0.0032 kgm²	
LRC	: 6.7	Duty cycle	: S1	
Rated torque	: 0.511 kgfm	Insulation class	: F	
Locked rotor torque	: 330 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1430 rpm	Design	: N	
Heating constant				
Caaling sametant				

Cooling constant	Į.					
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 230/400 V 50 Hz 4P				
Rated current	: 2.92/1.68 A	Moment of iner	rtia (J)	: 0.0032 kgm²	
LRC	: 7.0	Duty cycle		: S1	
Rated torque	: 0.509 kgfm	Insulation class	S	: F	
Locked rotor torque	: 360 %	Service factor		: 1.00	
Breakdown torque	: 360 %	Temperature ris	se	: 80 K	
Rated speed	: 1435 rpm	Design		: N	
Heating constant					
Cooling constant					
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Cooling constan	L				
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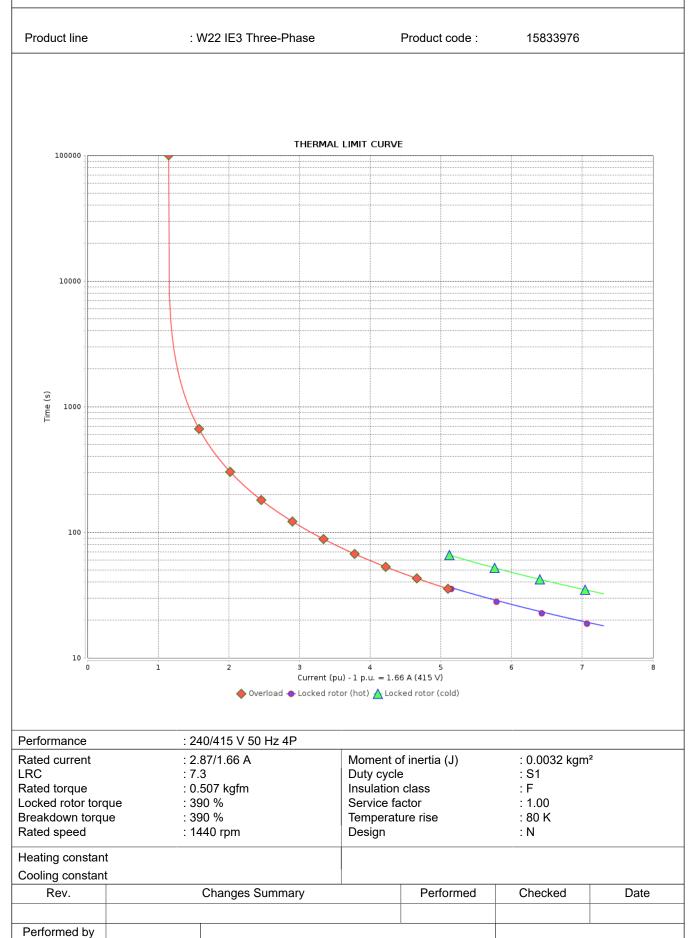
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Three Phase Induction Motor - Squirrel Cage



Customer	:		



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		Subject to change without notice		

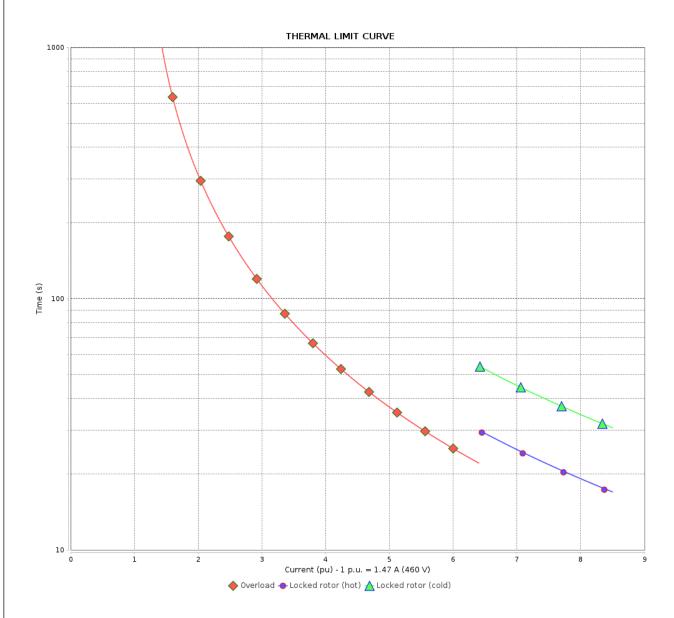
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833976



Performance : 460 V 60 Hz 4P : 1.47 A Moment of inertia (J) : 0.0032 kgm² Rated current **LRC** : 8.5 Duty cycle : S1 Insulation class : F Rated torque : 0.419 kgfm : 1.00 Locked rotor torque : 440 % Service factor Breakdown torque : 440 % : 80 K Temperature rise Rated speed : 1745 rpm Design : N Heating constant

Cooling constan	L				
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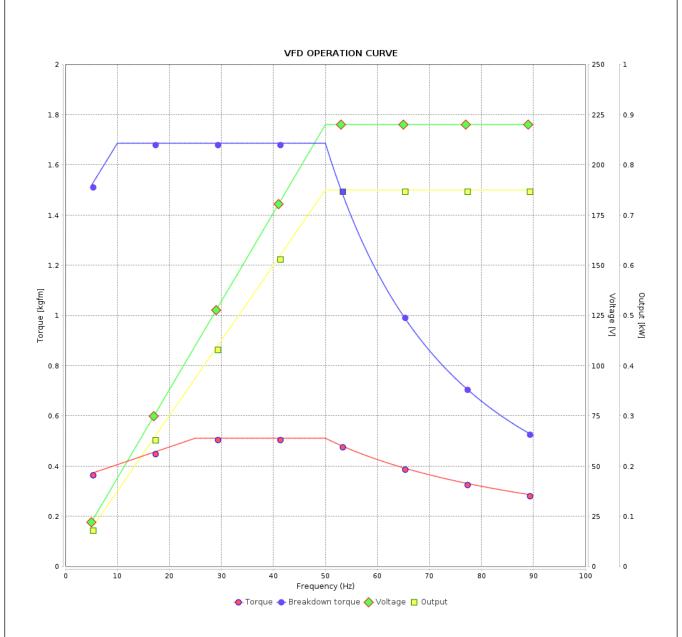
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Product line : W22 IE3 Three-Phase Product code : 15833976



Performance	:	220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	2.90/1.68 A 6.7 0.511 kgfm 330 % 330 % 1430 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	
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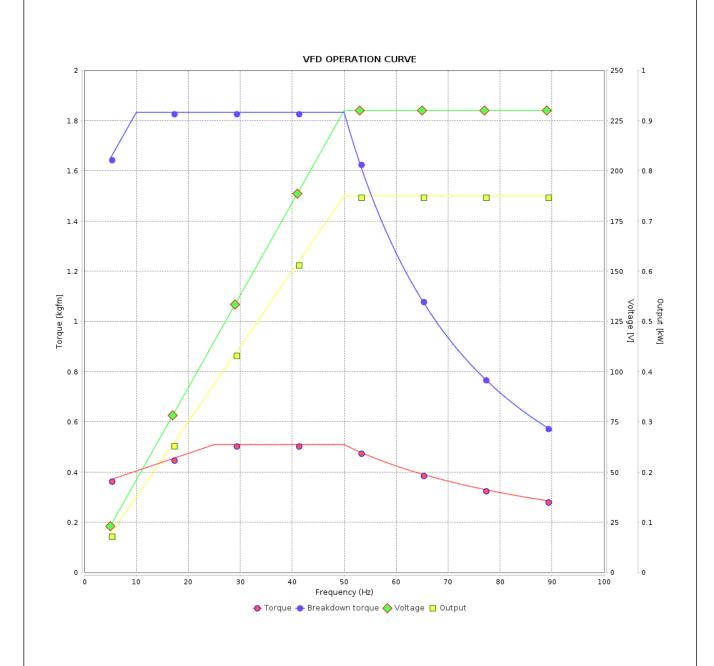
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Customer :



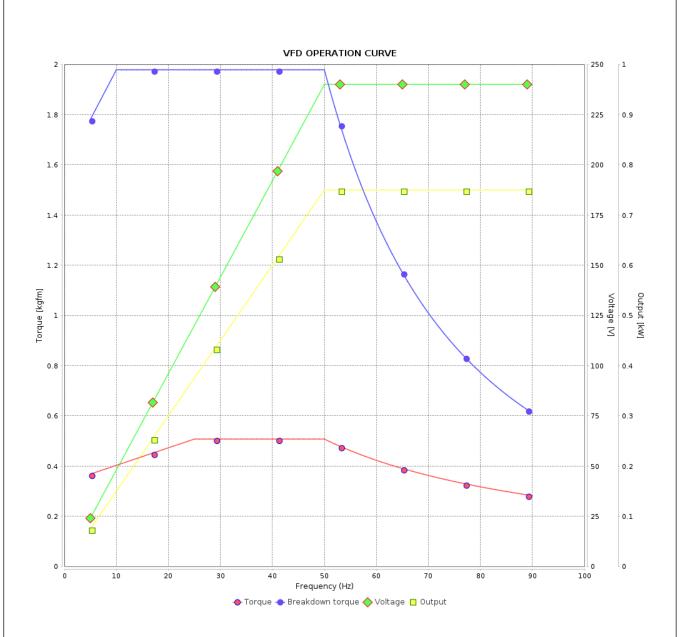
Performance	: 23	30/400 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 7. : 0. ue : 36	92/1.68 A .0 .509 kgfm 60 % 60 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0032 kgm² : S1 : F : 1.00 : 80 K	
Rated speed		435 rpm Design		: N			
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15833976



Performance	: 240/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.87/1.66 A : 7.3 : 0.507 kgfm : 390 % : 390 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	
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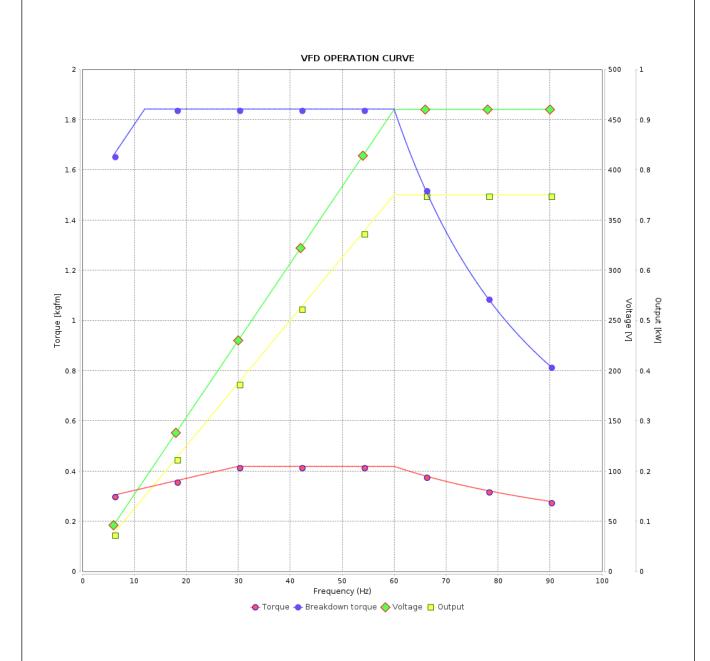
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 46	60 V 60 Hz 4P				
Rated current		47 A	Moment of inertia (J)		: 0.0032 kgm²	
LRC : 8.5		5	Duty cycle		: S1	
		419 kgfm	Insulation class		: F	
Locked rotor tord	que : 44	40 %	Service factor		: 1.00	
•		40 %	Temperature rise		: 80 K	
Rated speed	: 17	745 rpm	Design		: N	
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