DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15839317 Frame : 132M Cooling method : IC411 - TEFC 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 : 80.2 kg Protection degree : IP55 Moment of inertia (J) : 0.0563 kgm² Design : N Output [kW] 7.5 7.5 7.5 7.5 Poles 4 4 4 4 50 50 Frequency [Hz] 60 50 Rated voltage [V] 380/660 415 460 400/690 Rated current [A] 14.8/8.54 14.6 12.7 25.6/14.8 L. R. Amperes [A] 123/70.9 127 120 212/123 LRC [A] 8.7 9.5 8.3 8.3 6.80/3.92 No load current [A] 8.30 6.90 11.7/6.80 Rated speed [RPM] 1770 1460 1460 1465 Slip [%] 2.67 2.33 2.67 1.67 Rated torque [kgfm] 5.00 5.00 4.99 4.13 Locked rotor torque [%] 229 229 280 280 Breakdown torque [%] 380 400 310 310 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 18s (cold) 10s (hot) 16s (cold) 9s (hot) 19s (cold) 11s (hot) 18s (cold) 10s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 58.0 dB(A) 56.0 dB(A) 25% 0.000 0.000 50% 88.5 90.1 90.0 90.0 Efficiency (%) 75% 90.2 90.3 91.2 90.2 90.4 90.4 91.7 100% 90.4 25% 0.00 0.00 0.59 0.62 50% 0.66 0.66 Power Factor 75% 0.79 0.72 0.74 0.79 100% 0.85 0.79 0.81 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.6 10.6 9.0 10.6 P2 (0,5;1,0) 9.6 9.6 8.2 9.6 P3 (0,25;1,0) 9.3 9.3 7.9 9.3 Losses (%) P4 (0,9;0,5) 5.0 5.0 4.2 5.0 P5 (0,5;0,5) 3.8 3.8 3.2 3.8 P6 (0,5;0,25) 2.5 2.5 2.1 2.5 P7 (0,25;0,25) 2.1 2.1 1.8 2.1 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ Max. traction : 247 kgf V'Ring V'Ring Sealing : 327 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

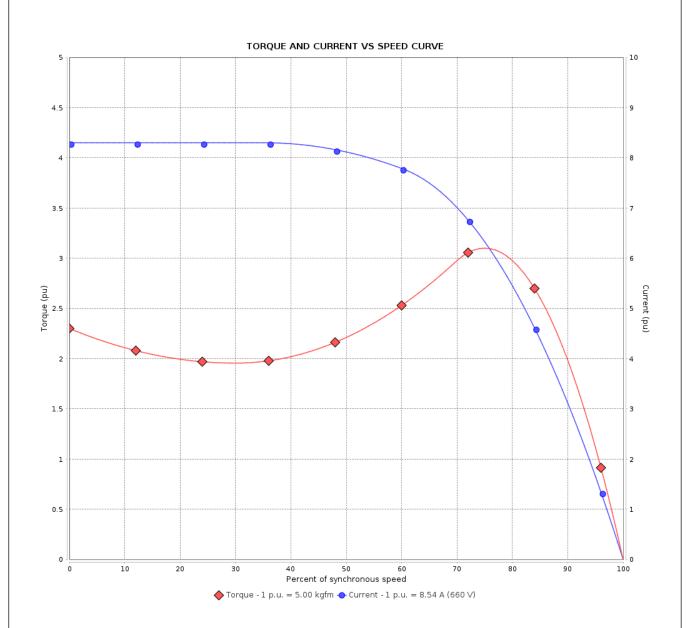
Voltage: 110-127/200-240 V

Three Phase Induction Motor - Squirrel Cage



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Customer	
Customer	

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance : 380/660 V 50 Hz 4P

Rated current : 14.8/8.54 A Moment of inertia (J) : 0.0563 kgm²

LRC : 8.3 Duty cycle : S1 Rated torque : 5.00 kgfm Insulation class : F : 229 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 310 % Temperature rise Rated speed : N : 1460 rpm Design

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

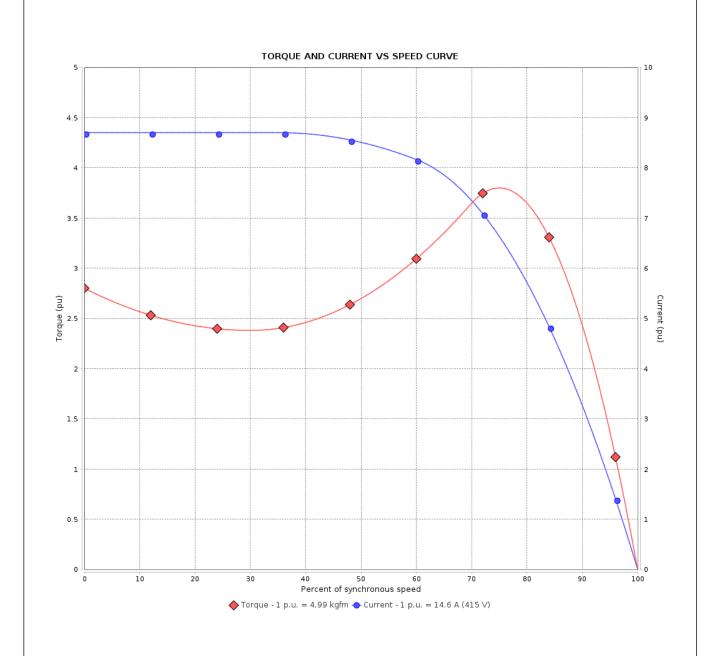
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 415 V 50 Hz 4P		
Rated current	: 14.6 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.7	Duty cycle	: S1
Rated torque	: 4.99 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.00
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: N

Locked rotor time : 16s (cold) 9s (hot)

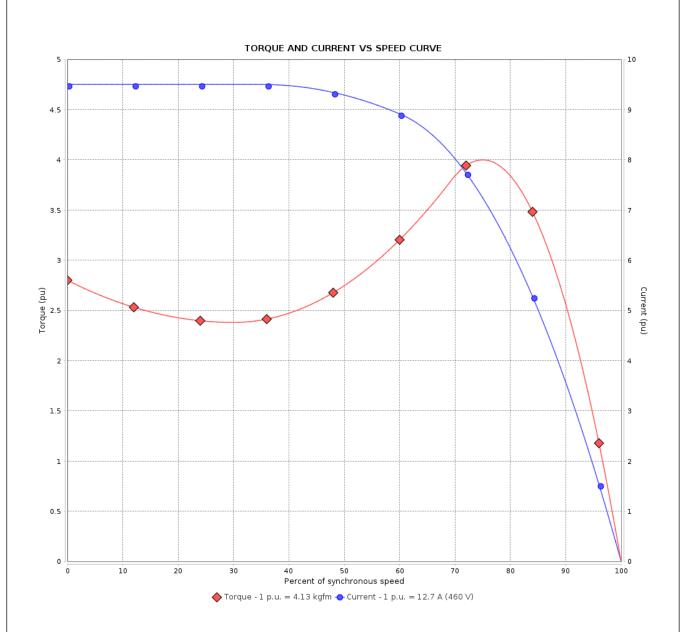
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Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 460 V 60 Hz 4P			
Rated current	: 12.7 A	Moment of inertia (J)	: 0.0563 kgm²	
LRC	: 9.5	Duty cycle	: S1	
Rated torque	: 4.13 kgfm	Insulation class	: F	

Locked rotor torque : 280 % Service factor : 1.00
Breakdown torque : 400 % Temperature rise : 80 K
Rated speed : 1770 rpm Design : N

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

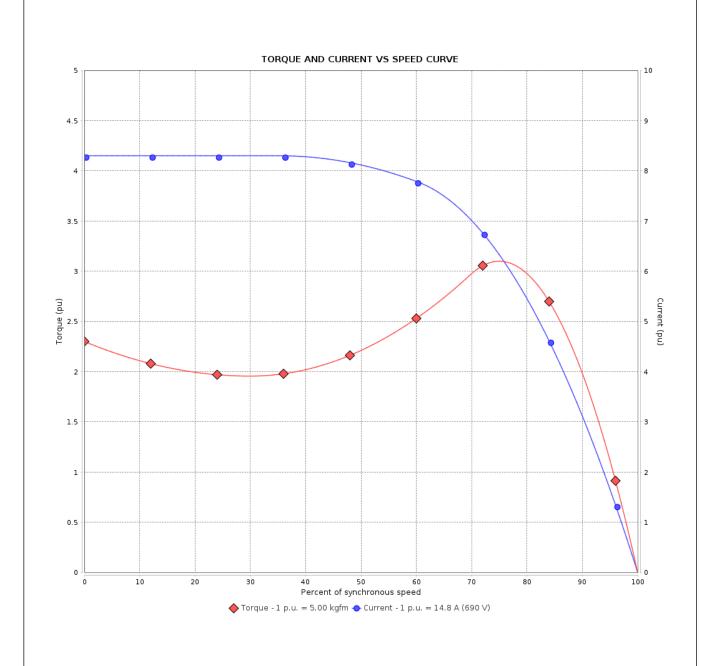
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 400/690 V 50 Hz 4P			
Rated current	: 25.6/14.8 A	Moment of inertia (J)	: 0.0563 kgm²	
LRC	: 8.3	Duty cycle	: S1	
Rated torque	: 5.00 kgfm	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 310 %	Temperature rise	: 80 K	
Rated speed	: 1460 rpm	Design	: N	

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

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Three Phase Induction Motor - Squirrel Cage



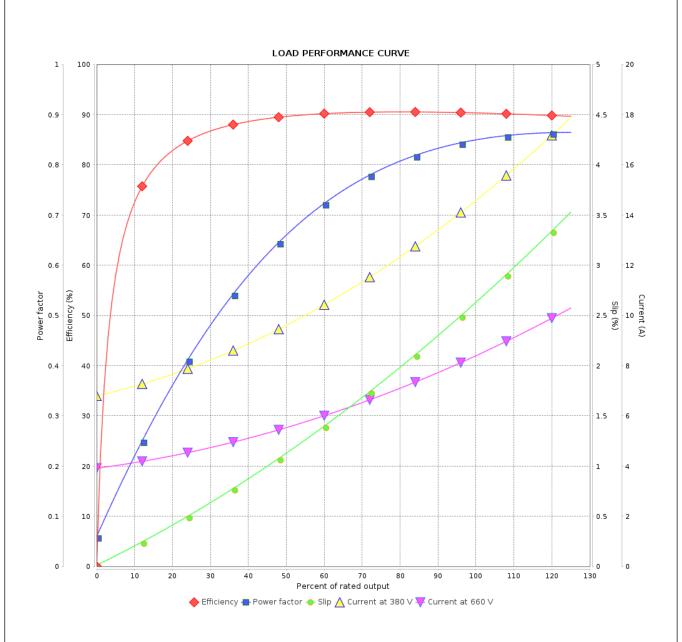
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Product line : W22 IE3 Three-Phase Product code : 15839317



Performance		: 380/660 V 5	0 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 14.8/8.54 A : 8.3 : 5.00 kgfm : 229 % : 310 % : 1460 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0563 kgm² : S1 : F : 1.00 : 80 K : N	
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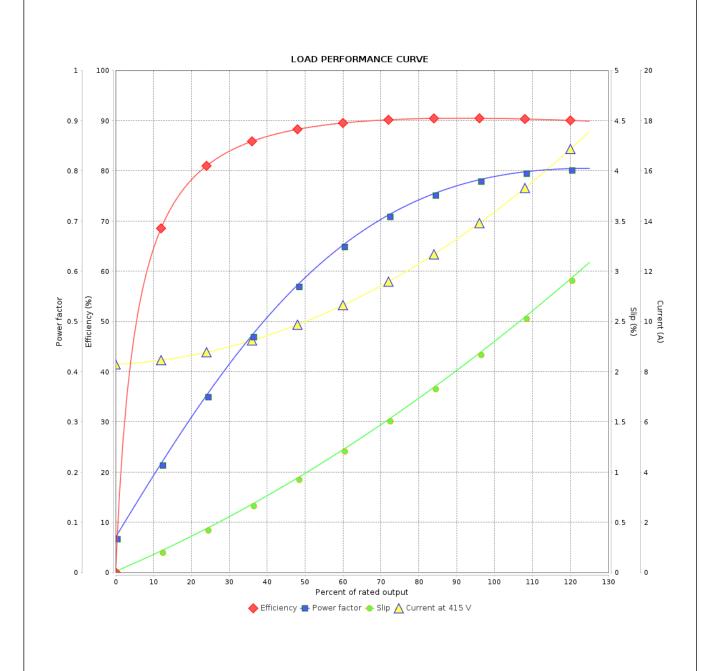
Customer :

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Product line : W22 IE3 Three-Phase Product code : 15839317



Performance		: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 14.6 A : 8.7 : 4.99 kgfm : 280 % : 380 % : 1465 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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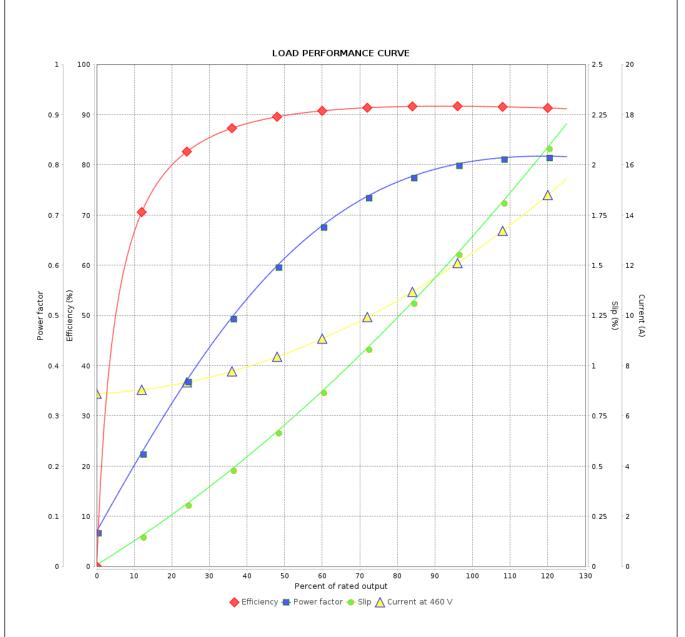
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.7 A : 9.5 : 4.13 kgfm : 280 % : 400 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0563 kgm² : S1 : F : 1.00 : 80 K : N	
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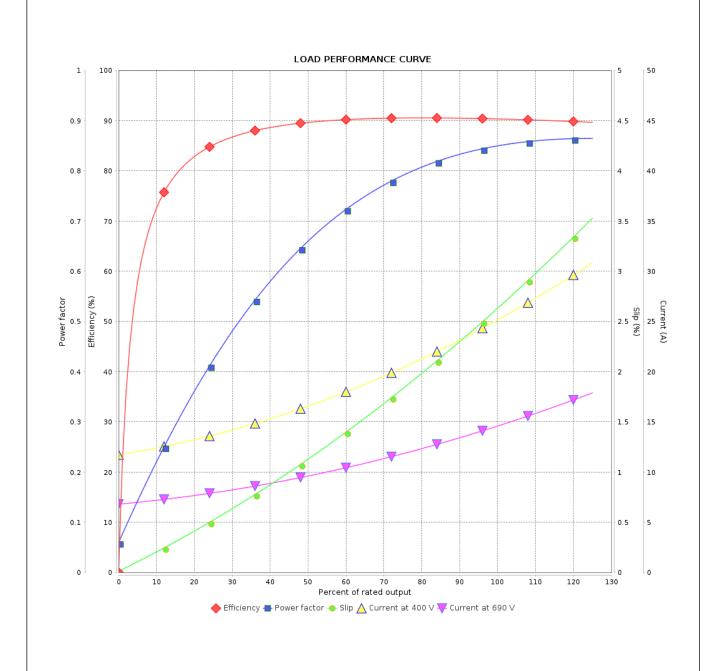
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



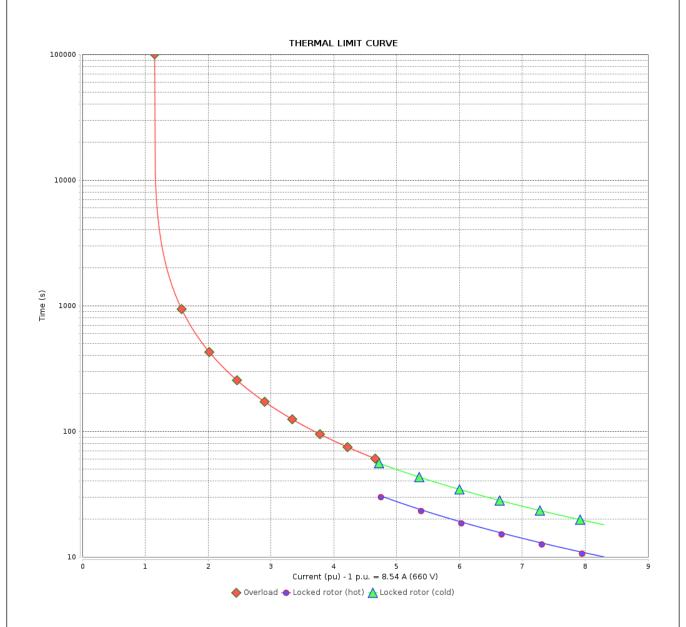
Performance	: 4	00/690 V 50 Hz 4P				
Rated current	: 2	5.6/14.8 A	Moment of	of inertia (J)	: 0.0563 kgm²	
LRC	: 8	.3	Duty cycle	e	: S1	
Rated torque	: 5	.00 kgfm	Insulation	class	: F	
Locked rotor torq	Locked rotor torque : 229 %		Service fa	ictor	: 1.00	
Breakdown torqu	ie : 3	10 %	Temperature rise		: 80 K	
Rated speed	: 1	: 1460 rpm			: N	
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Three Phase Induction Motor - Squirrel Cage



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Customer	
Customer	

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance : 380/660 V 50 Hz 4P Rated current : 14.8/8.54 A Moment of inertia (J) : 0.0563 kgm² **LRC** Duty cycle : S1 : 8.3 Insulation class : F Rated torque : 5.00 kgfm : 229 % : 1.00 Locked rotor torque Service factor Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1460 rpm Design

Heating constant

Cooling constant

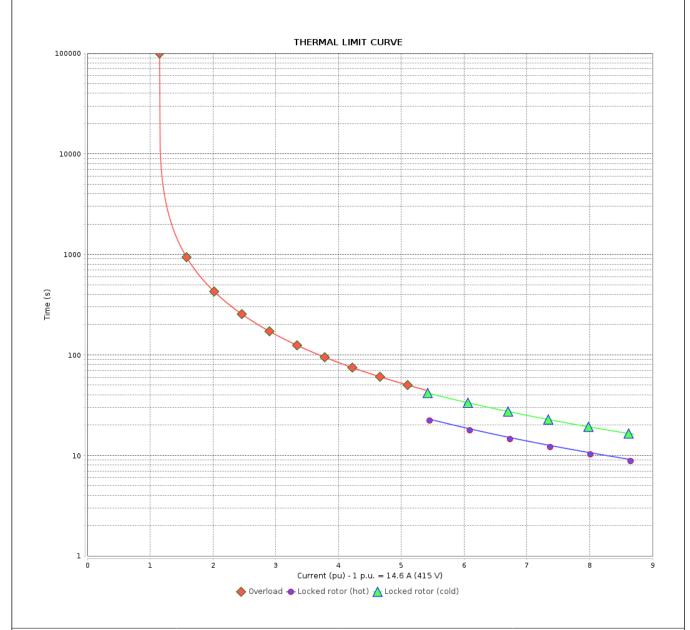
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance : 415 V 50 Hz 4P : 14.6 A Moment of inertia (J) : 0.0563 kgm² Rated current **LRC** : 8.7 Duty cycle : S1 Insulation class : F Rated torque : 4.99 kgfm : 280 % : 1.00 Locked rotor torque Service factor : 380 % : 80 K Breakdown torque Temperature rise Rated speed : 1465 rpm Design : N Heating constant

Cooling constant

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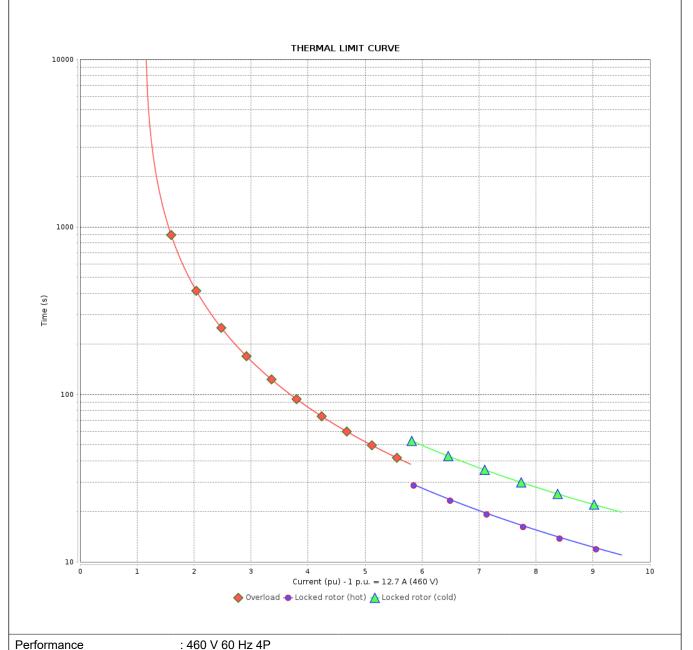
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15839317



Rated current : 12.7 A Moment of inertia (J) : 0.0563 kgm² **LRC** : 9.5 Duty cycle : S1 Insulation class Rated torque : F : 4.13 kgfm : 280 % : 1.00 Locked rotor torque Service factor Temperature rise : 80 K

Breakdown torque : 400 % Temperature
Rated speed : 1770 rpm Design

Heating constant Cooling constant

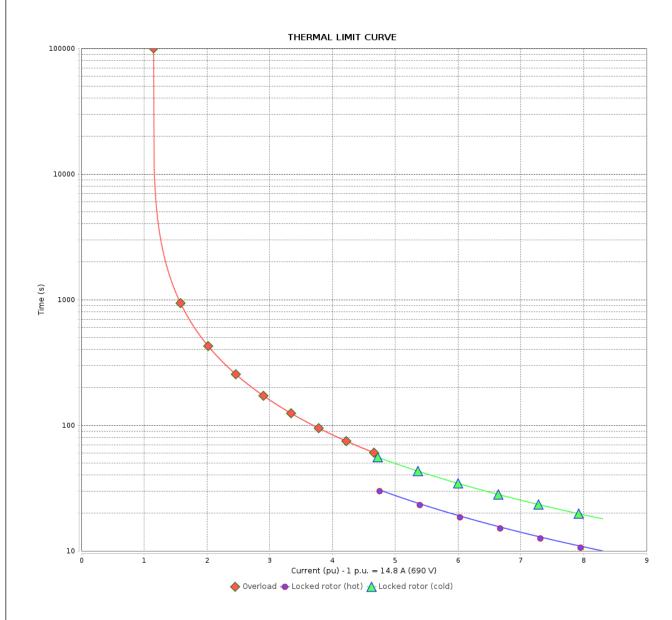
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 400/690 V 50 Hz 4P		
Rated current	: 25.6/14.8 A	Moment of inertia (J)	: 0.0563 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 5.00 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: N
Heating constant			
Cooling constant			

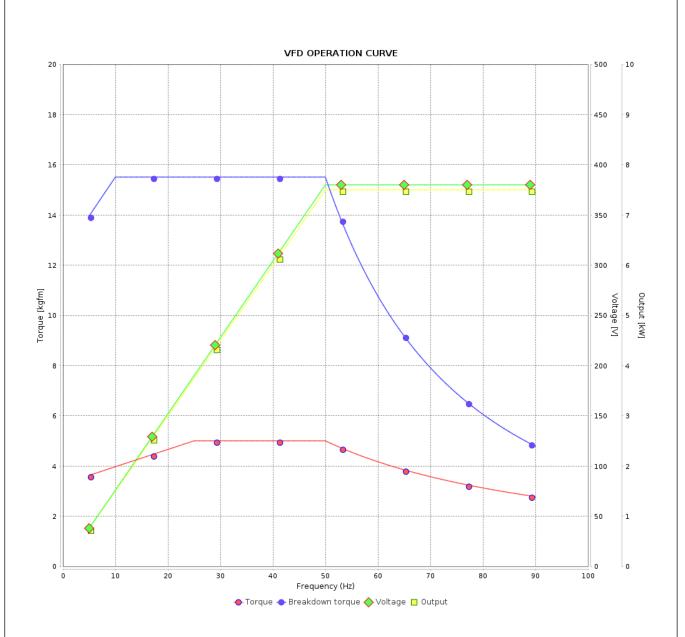
Cooling constant						
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 380/660 V 50 Hz 4P						
Rated current LRC	: 14.8/8.54 A : 8.3	Moment of inertia (J) Duty cycle		Duty cycle		: 0.0563 kgm² : S1	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 229 % Serv		class ctor ıre rise	: F : 1.00 : 80 K : N			
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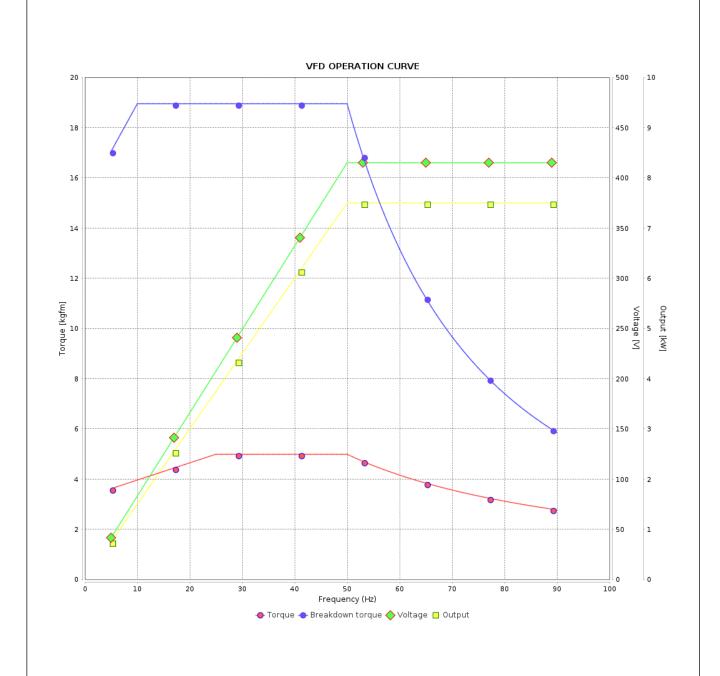
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 41	15 V 50 Hz 4P				
Rated current			` '	: 0.0563 kgm² : S1		
LRC	: 8.	•	Duty cycle	Duty cycle		
Rated torque	: 4.	99 kgfm	Insulation class		n class : F	
Locked rotor torqu	ue : 28	30 %	Service fa	Service factor		
Breakdown torque	e : 38	30 %	Temperature rise	: 80 K		
Rated speed	: 14	1465 rpm Design			: N	
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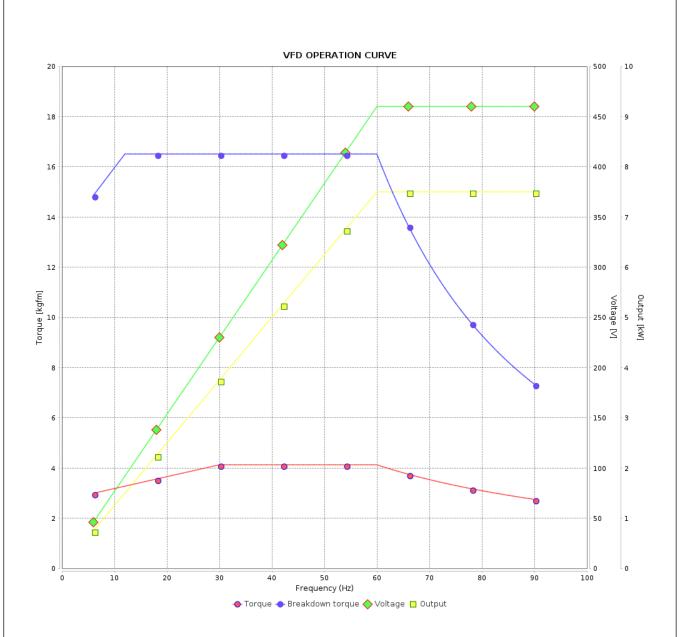
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Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0563 kgm² : S1 : F : 1.00 : 80 K : N	
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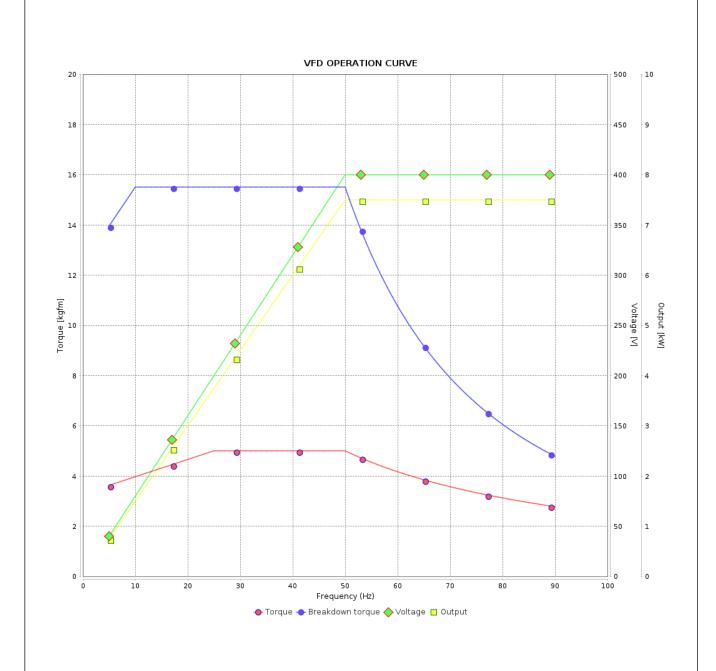
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Product line : W22 IE3 Three-Phase Product code : 15839317



Performance	: 400/690 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 25.6/14.8 A : 8.3 : 5.00 kgfm : 229 % : 310 % : 1460 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design		: 0.0563 kgm² : S1 : F : 1.00 : 80 K : N	
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