DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15838627 Frame : 160L 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 : 163 kg Protection degree : IP55 Moment of inertia (J) : 0.0663 kgm² Design : N Output [kW] 18.5 18.5 18.5 18.5 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 35.0/20.1 34.0/19.7 33.6 29.9 L. R. Amperes [A] 297/171 306/177 319 305 LRC [A] 9.5 10.2 8.5 9.0 13.0/7.48 No load current [A] 14.5/8.41 15.5 13.5 Rated speed [RPM] 2960 2960 2950 3565 Slip [%] 1.33 0.97 1.67 1.33 Rated torque [kgfm] 6.09 5.05 6.11 6.09 Locked rotor torque [%] 420 300 330 360 Breakdown torque [%] 380 409 440 500 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 10s (cold) 6s (hot) 9s (cold) 5s (hot) 9s (cold) 5s (hot) 10s (cold) 6s (hot) Locked rotor time Noise level² 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 72.0 dB(A) 25% 50% 91.0 91.0 91.0 90.6 Efficiency (%) 75% 92.2 92.2 92.3 92.3 100% 92.4 92.4 92.4 92.4 25% 50% 0.73 0.69 0.64 0.67 Power Factor 75% 0.83 0.80 0.77 0.78 100% 0.87 0.85 0.83 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.0 8.0 P2 (0,5;1,0) 5.0 5.1 5.1 5.7 P3 (0,25;1,0) 4.2 4.3 4.3 4.8 Losses (%) P4 (0,9;0,5) 4.7 4.8 4.8 5.4 P5 (0,5;0,5) 2.8 2.9 2.9 3.2 P6 (0,5;0,25) 2.3 2.4 2.4 2.7 P7 (0,25;0,25) 1.5 1.5 1.5 1.7 Drive end Non drive end Foundation loads 6309 C3 Bearing type 6209 C3 Max. traction : 316 kaf Sealing V'Rina V'Rina : 479 kaf Max. compression 20000 h Lubrication interval 20000 h Lubricant amount 13 g 9 g 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

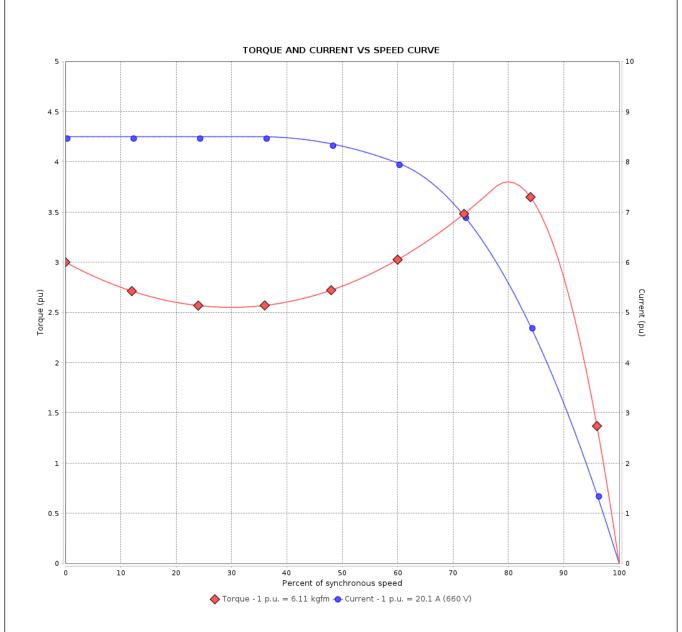
Voltage: 110-127/200-240 V

Three Phase Induction Motor - Squirrel Cage



Customer	•	

Product line : W22 IE3 Three-Phase Product code: 15838627



Performance	: 380/660 V 50 Hz 2P		
Rated current	: 35.0/20.1 A	Moment of inertia (J)	: 0.0663 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 6.11 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.00
Breakdown torque	. 380 %	Temperature rice	· 80 K

Rated speed : 2950 rpm Design : N

Locked rotor time : 10s (cold) 6s (hot)

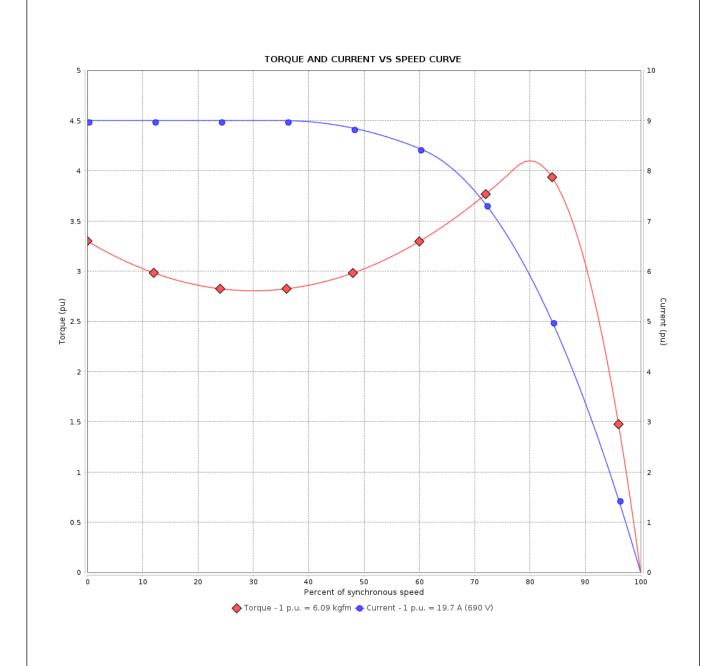
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 400/690 V 50 Hz 2P			
Rated current	: 34.0/19.7 A	Moment of inertia (J)	: 0.0663 kgm²	
LRC	: 9.0	Duty cycle	: S1	
Rated torque	: 6.09 kgfm	Insulation class	: F	
Locked rotor torque	: 330 %	Service factor	: 1.00	
Breakdown torque	: 409 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: N	

Locked rotor time : 9s (cold) 5s (hot)

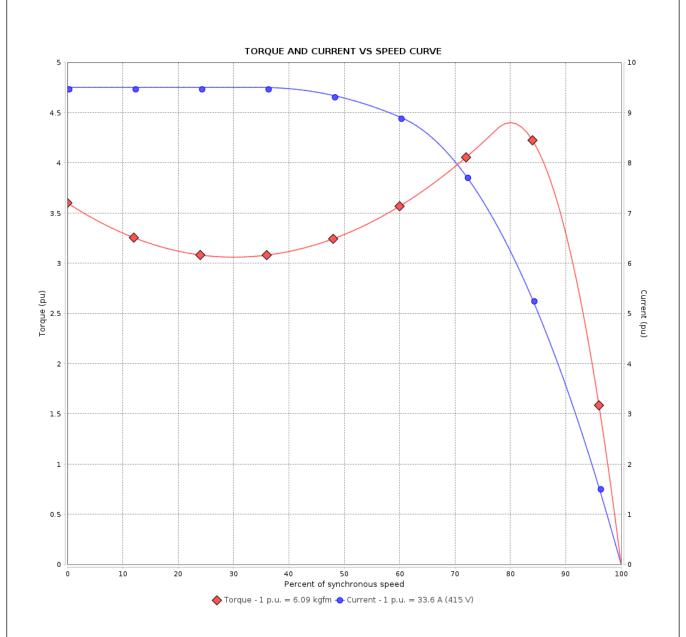
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Three Phase Induction Motor - Squirrel Cage



Customer		
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Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 415 V 50 Hz 2P		
Rated current	· 33 6 A	Moment of inertia (J)	· 0 0663 kam

LRC : S1 : 9.5 Duty cycle : F Rated torque : 6.09 kgfm Insulation class : 360 % Locked rotor torque Service factor : 1.00 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2960 rpm Design : N

Locked rotor time : 9s (cold) 5s (hot)

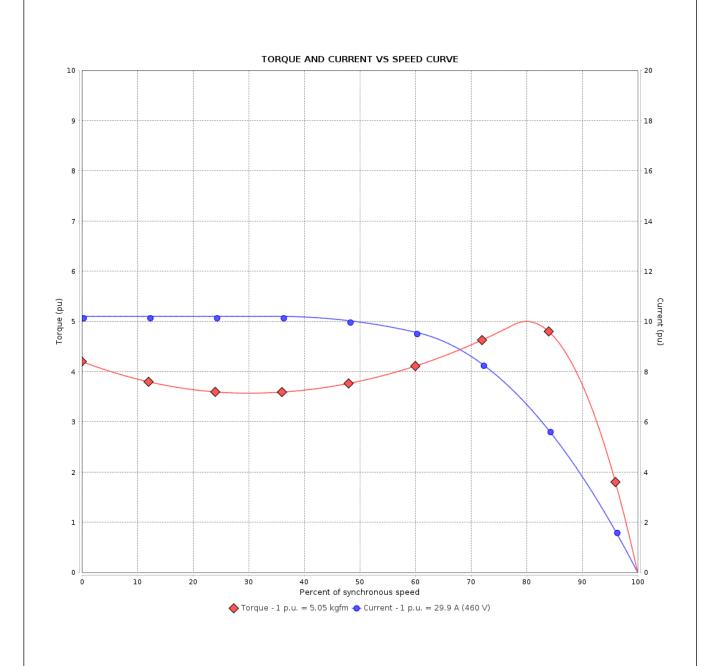
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 460 V 60 Hz 2P			
Rated current	: 29.9 A	Moment of inertia (J)	: 0.0663 kgm²	
LRC	: 10.2	Duty cycle	: S1	
Rated torque	: 5.05 kgfm	Insulation class	: F	
Locked rotor torque	: 420 %	Service factor	: 1.00	
Breakdown torque	: 500 %	Temperature rise	: 80 K	
Rated speed	: 3565 rpm	Design	: N	
Locked rotor time	· 10s (cold) 6s (hot)			

Locked rotor time : 10s (cold) 6s (hot)

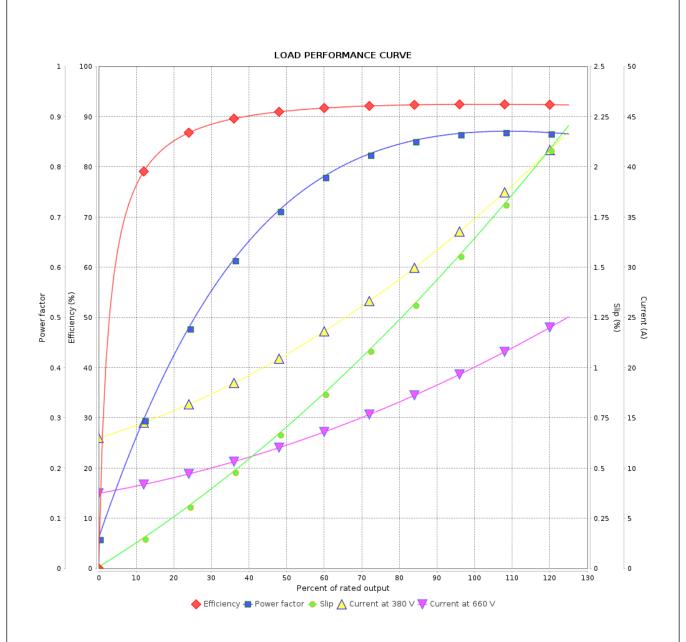
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 380/660 V 50 Hz 2P				
Rated current LRC	: 35.0/20.1 A : 8.5	Moment of inertia (J)		: 0.0663 kgm² : S1	
Rated torque	: 6.11 kgfm	Duty cycle Insulation class Service factor Temperature rise Design		: F : 1.00 : 80 K : N	
Locked rotor torque Breakdown torque	: 300 % : 380 %				
Rated speed	: 2950 rpm				
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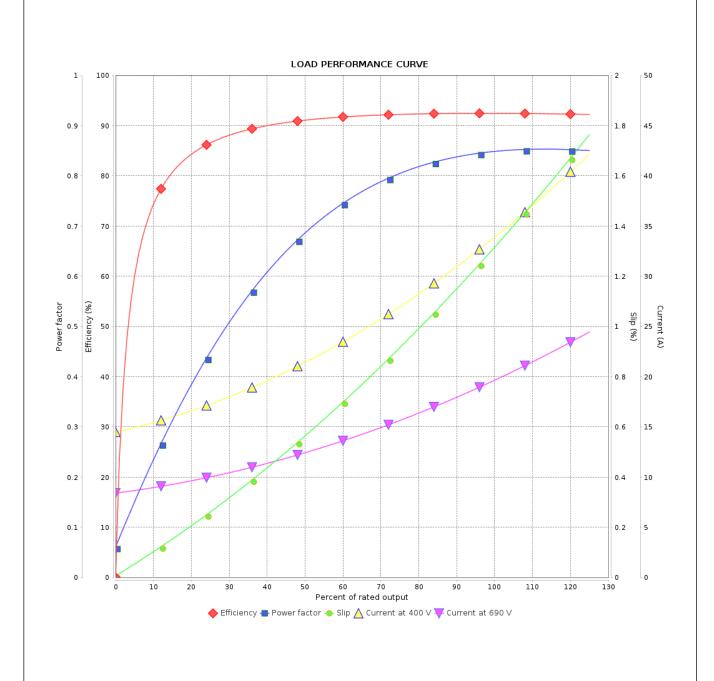
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



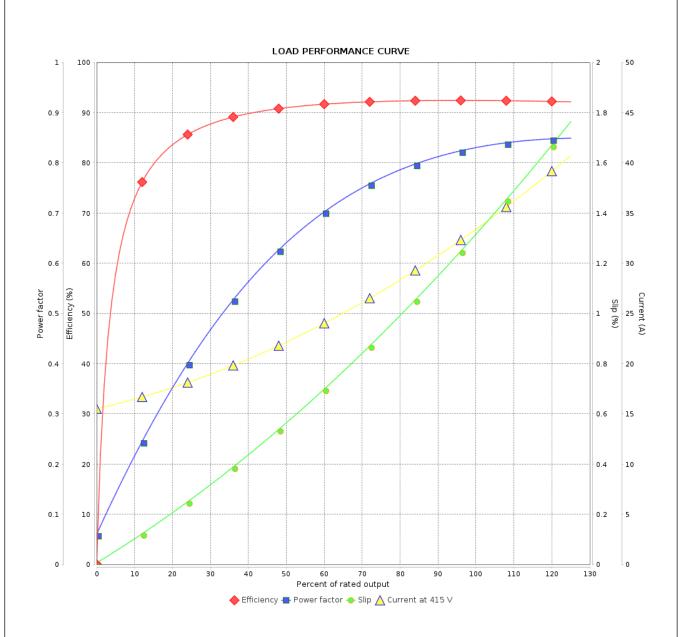
Performance	: 4	00/690 V 50 Hz 2P				
Rated current	: 3	4.0/19.7 A	Moment o	f inertia (J)	: 0.0663 kgm²	!
LRC	: 9	.0	Duty cycle)	: S1	
Rated torque	: 6	.09 kgfm	Insulation	class	: F	
Locked rotor torqu	e : 3	30 %	Service fa	Service factor		
Breakdown torque	: 4	09 %	Temperati	Temperature rise		
Rated speed	: 2	Design		: N		
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Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.6 A : 9.5 : 6.09 kgfm : 360 % : 440 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0663 kgm² : S1 : F : 1.00 : 80 K : N	
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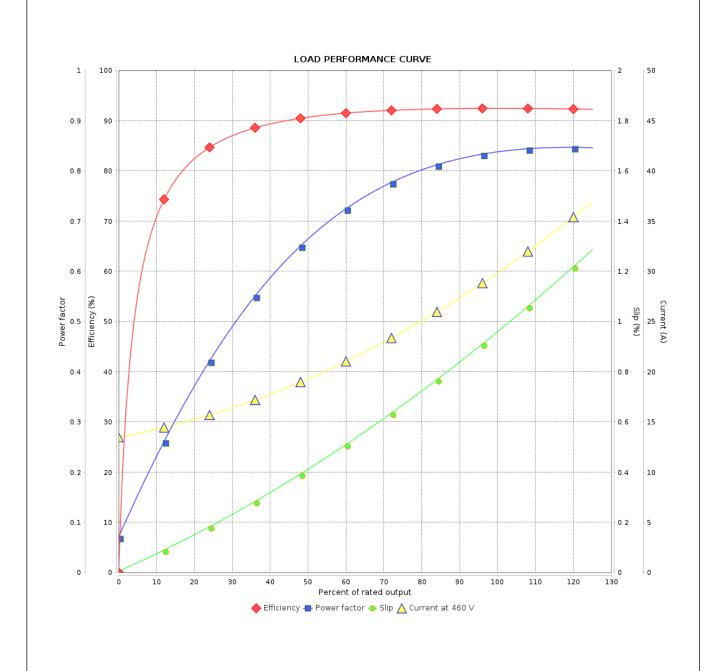
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



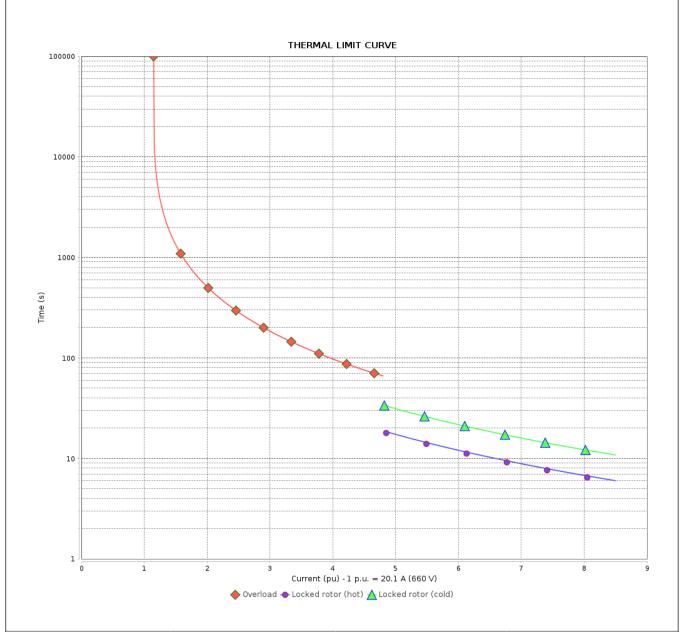
Performance	: 4	60 V 60 Hz 2P					
Rated current	: 2	29.9 A	Moment o	f inertia (J)	: 0.0663 kgm²		
LRC	: 1	0.2	Duty cycle		: S1		
Rated torque	: 5	5.05 kgfm	Insulation	class	: F		
Locked rotor torqu	ie : 4	20 %	Service fa	Service factor			
Breakdown torque	: : 5	500 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	3565 rpm	rpm Design		: N		
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Three Phase Induction Motor - Squirrel Cage



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Product line : W22 IE3 Three-Phase Product code : 15838627



Performance : 380/660 V 50 Hz 2P Rated current : 35.0/20.1 A Moment of inertia (J) : 0.0663 kgm² **LRC** Duty cycle : S1 : 8.5 Insulation class : F Rated torque : 6.11 kgfm : 300 % : 1.00 Locked rotor torque Service factor Breakdown torque : 380 % : 80 K Temperature rise Rated speed : 2950 rpm Design : N Heating constant

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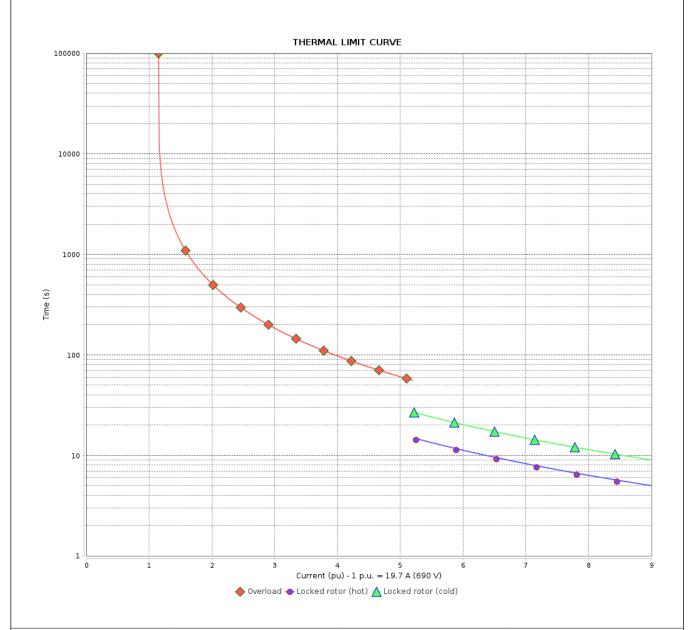
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance : 400/690 V 50 Hz 2P Rated current : 34.0/19.7 A Moment of inertia (J) : 0.0663 kgm² **LRC** : 9.0 Duty cycle : S1 Insulation class : F Rated torque : 6.09 kgfm : 330 % : 1.00 Locked rotor torque Service factor Breakdown torque : 409 % Temperature rise : 80 K Rated speed : 2960 rpm Design : N Heating constant Cooling constant

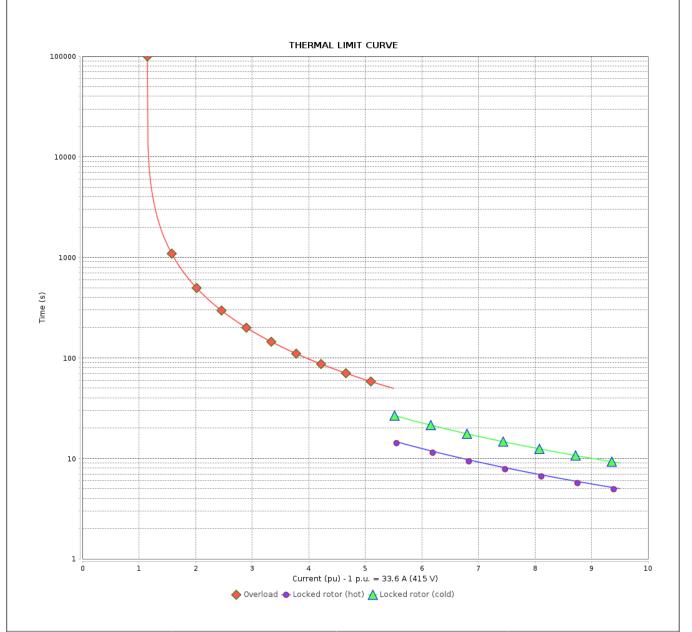
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Customer	

Product line : W22 IE3 Three-Phase Product code: 15838627



: 415 V 50 Hz 2P Performance Rated current : 33.6 A Moment of inertia (J) : 0.0663 kgm² **LRC** : 9.5 Duty cycle : S1 Insulation class : 6.09 kgfm : F Rated torque : 360 % : 1.00 Locked rotor torque Service factor Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2960 rpm Design Heating constant

Cooling constant

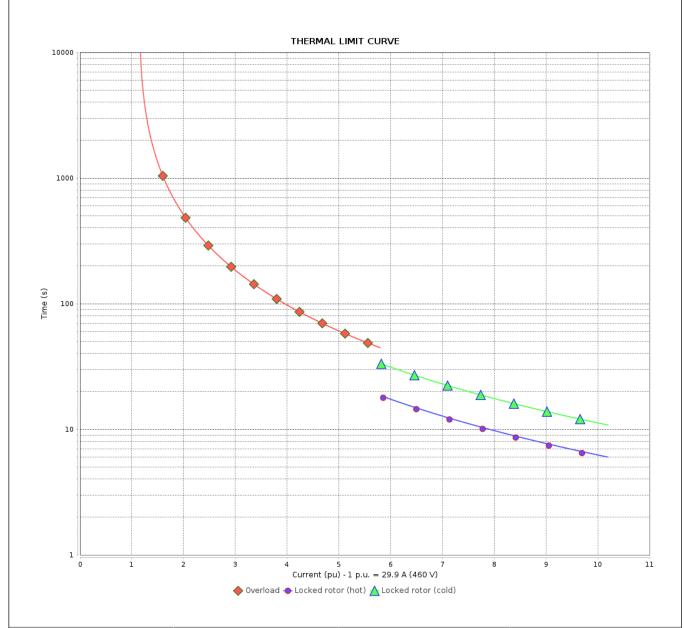
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Customer

Product line : W22 IE3 Three-Phase Product code: 15838627



Performance : 460 V 60 Hz 2P Rated current : 29.9 A Moment of inertia (J) : 0.0663 kgm² **LRC** : 10.2 Duty cycle : S1 Insulation class : 5.05 kgfm : F Rated torque : 420 % : 1.00 Locked rotor torque Service factor Temperature rise Breakdown torque : 500 % : 80 K Rated speed : 3565 rpm Design : N Heating constant Cooling constant

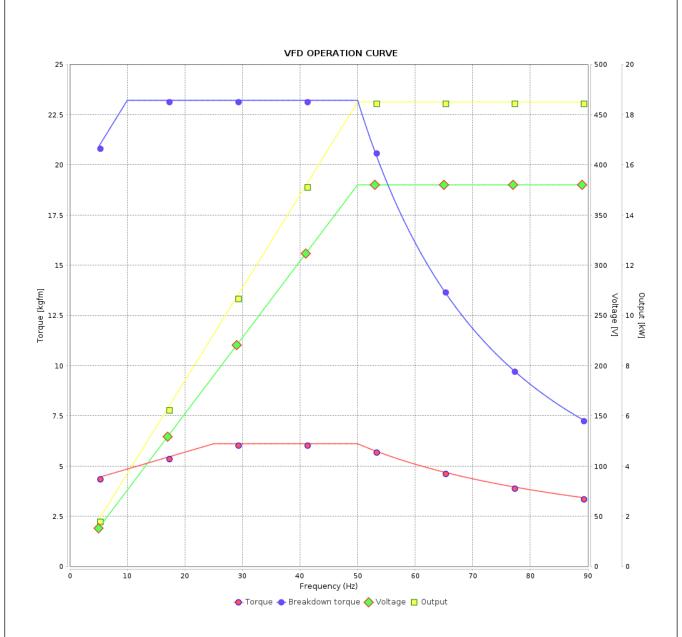
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Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 380/660 V 50 Hz 2P			,	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.0/20.1 A : 8.5 : 6.11 kgfm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0663 kgm² : S1 : F : 1.00 : 80 K : N	
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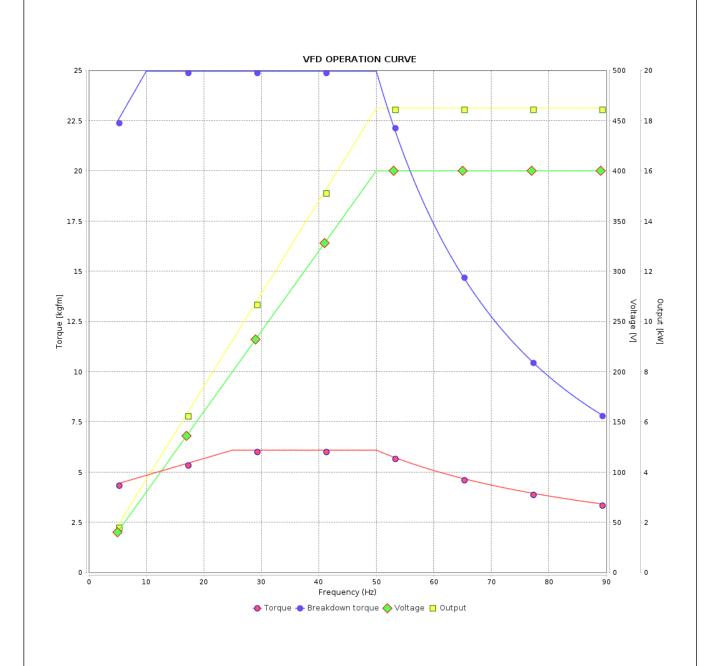
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 40	00/690 V 50 Hz 2P				
Rated current LRC		34.0/19.7 A Moment of inerti 9.0 Duty cycle		, ,	: 0.0663 kgm² : S1	
Rated torque Locked rotor torque	ue : 30	09 kgfm 30 %	Service fa	Insulation class Service factor		
Breakdown torque Rated speed		09 % 960 rpm	Temperati Design	ure rise	: 80 K : N	
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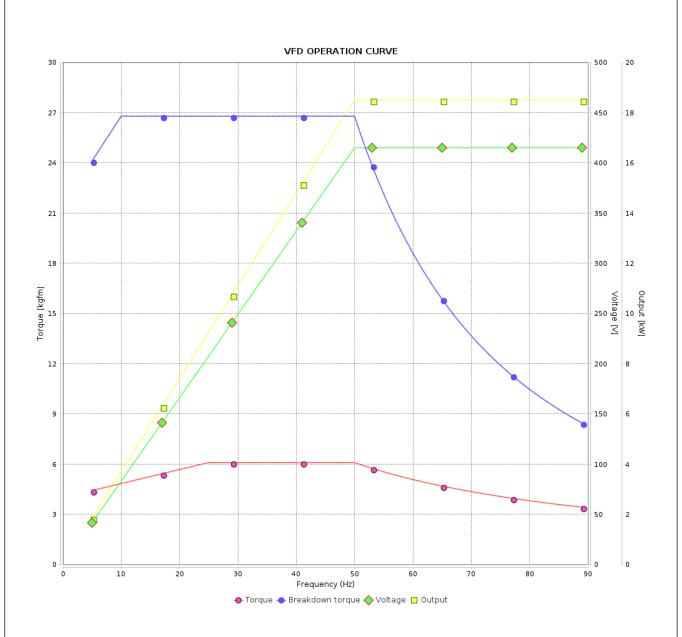
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Product line : W22 IE3 Three-Phase Product code : 15838627



Performance		: 415 V 50	Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 33.6 A : 9.5 : 6.09 kgfm : 360 % : 440 % : 2960 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0663 kgm² : S1 : F : 1.00 : 80 K : N	2
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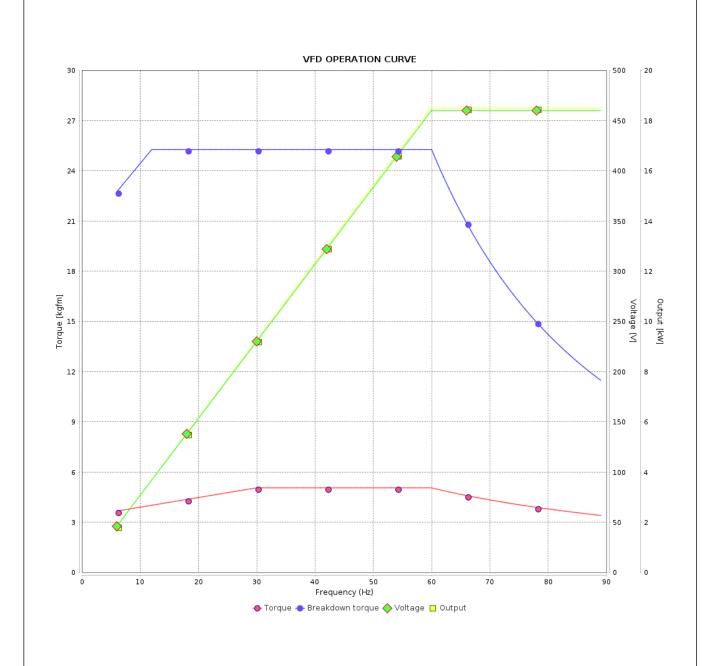
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838627



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.9 A : 10.2 : 5.05 kgfm : 420 % : 500 % : 3565 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0663 kgm² : S1 : F : 1.00 : 80 K : N	
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