DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15839428 Frame : 80 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 : 17.7 kg : IP55 Moment of inertia (J) Protection degree : 0.0032 kgm² Design : N 0.75 Output [kW] 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] 8.5 6.7 7.0 7.3 1.73/1.00 No load current [A] 1.91/1.10 2.08/1.20 1.00 Rated speed [RPM] 1745 1430 1435 1440 Slip [%] 4.33 4.67 4.00 3.06 Rated torque [kgfm] 0.419 0.511 0.509 0.507 Locked rotor torque [%] 360 390 440 330 Breakdown torque [%] 360 390 440 330 1.00 Service factor 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) 30s (cold) 17s (hot) Noise level² 44.0 dB(A) 44.0 dB(A) 44.0 dB(A) 48.0 dB(A) 25% 50% 79.0 78.0 77.0 78.5 Efficiency (%) 75% 81.5 81.0 81.0 80.0 100% 82.5 82.5 82.5 84.0 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 kgf Max. compression Lubrication interval Lubricant amount 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 fu	ıll 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

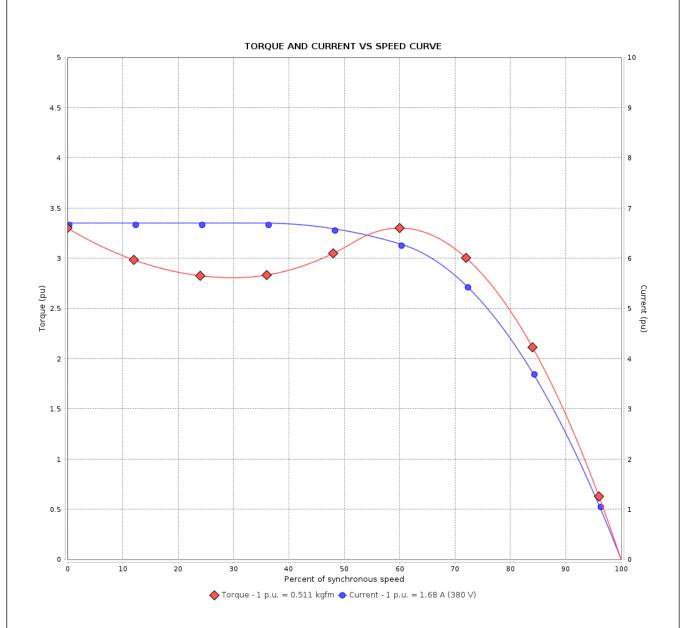
Voltage: 110 - 127 V

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Product line : W22 IE3 Three-Phase Product code : 15839428



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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TORQUE AND CURRENT VS SPEED CURVE Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15839428 TORQUE AND CURRENT VS SPEED CURVE Torque (pu) Current (pu)

Performance	: 230/400 V 50 Hz 4P		
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

Percent of synchronous speed ◆ Torque - 1 p.u. = 0.509 kgfm ◆ Current - 1 p.u. = 1.68 A (400 V)

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

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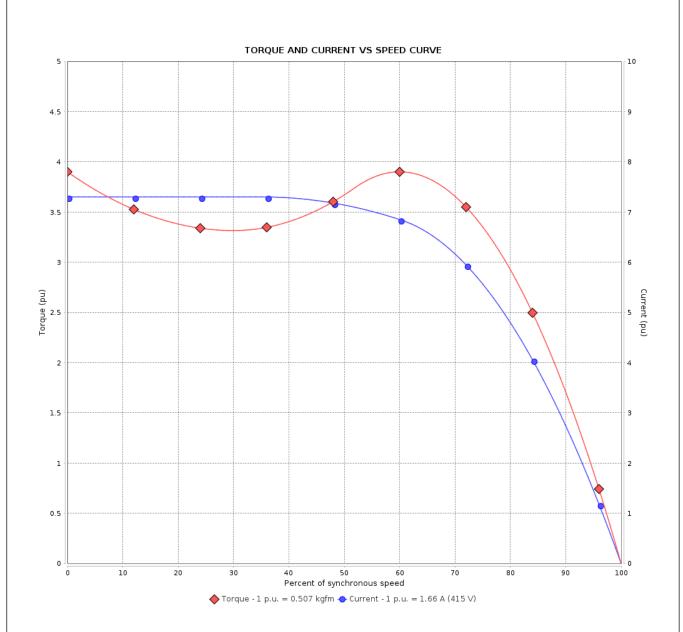
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 15839428



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

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

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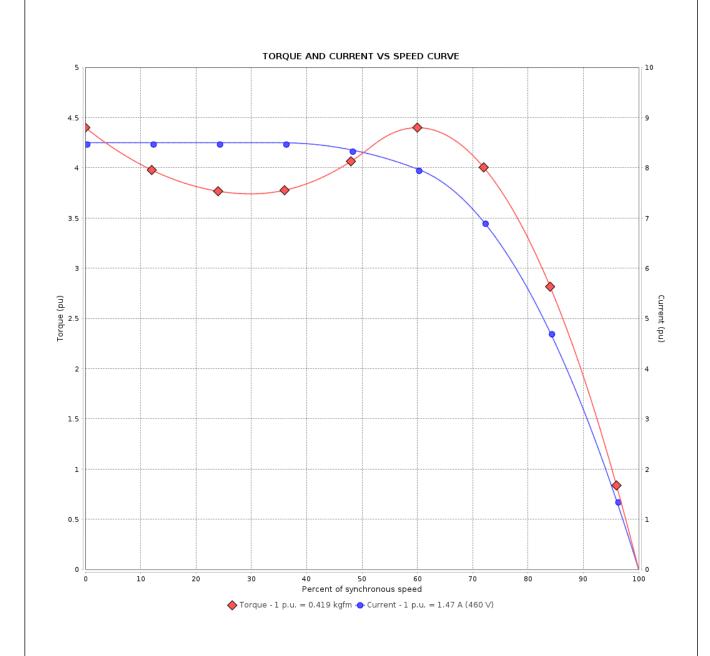
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839428



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

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

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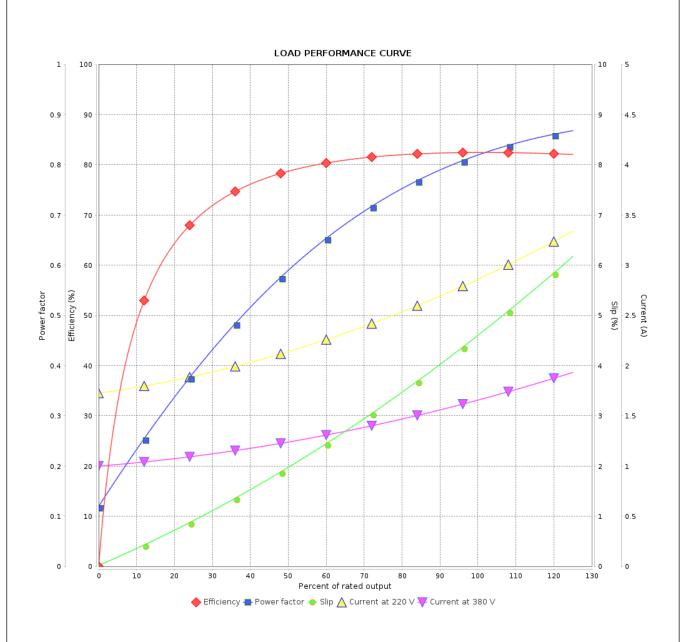
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Date

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Product line : W22 IE3 Three-Phase Product code : 15839428



Performance	:	220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	2.90/1.68 A 6.7 0.511 kgfm 330 % 330 % 1430 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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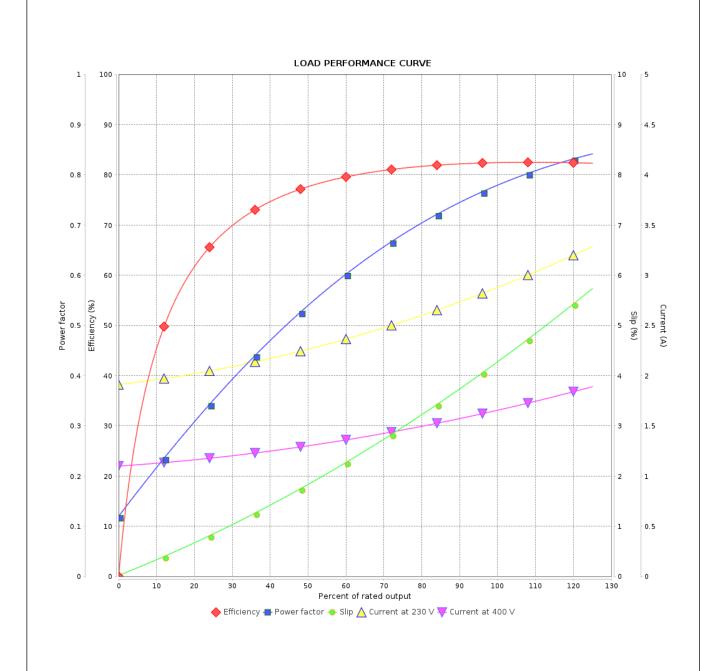
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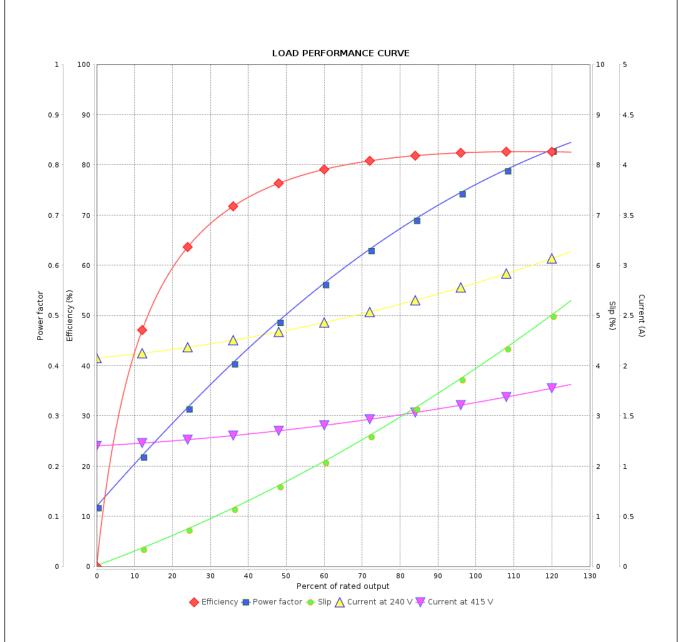
Performance	: 23	30/400 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	RC : 7.0 Duty cycle ated torque : 0.509 kgfm Insulation class ocked rotor torque : 360 % Service factor reakdown torque : 360 % Temperature rise		e class class	: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	2	
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Product line : W22 IE3 Three-Phase Product code : 15839428



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	2
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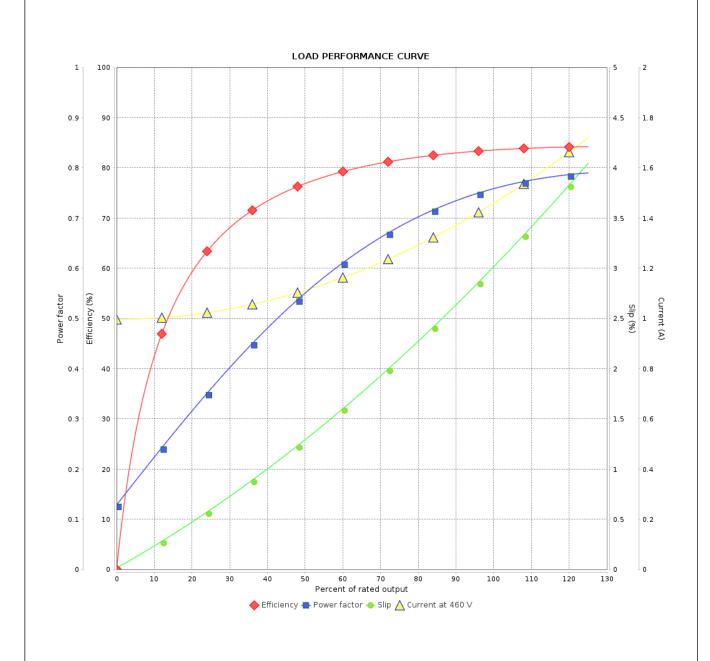
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Three Phase Induction Motor - Squirrel Cage



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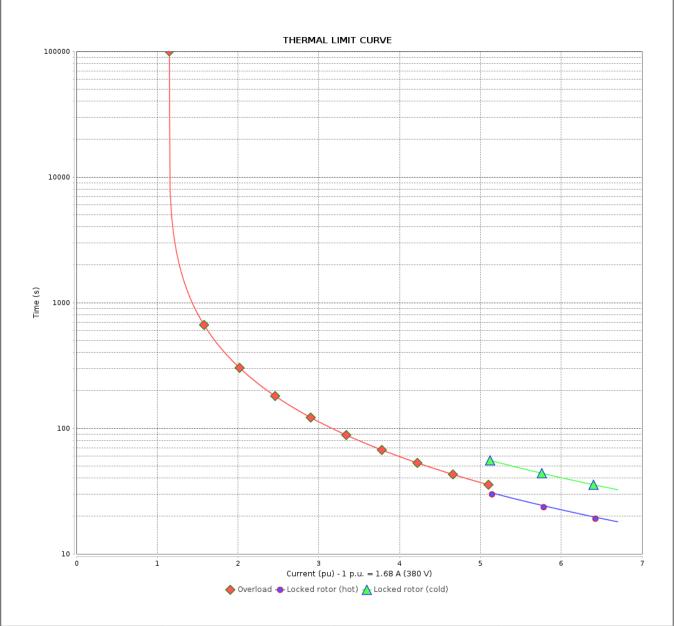


Performance	: 4	60 V 60 Hz 4P				
Rated current	: 1	.47 A	Moment of	of inertia (J)	: 0.0032 kgm²	
LRC	: 8	.5	Duty cycle	e `´	: S1	
Rated torque	: 0	.419 kgfm	Insulation class		: F	
Locked rotor tord	que : 4	40 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 4	40 %	Temperati	ure rise	: 80 K	
Rated speed			Design		: N	
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Three Phase Induction Motor - Squirrel Cage



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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				
Cooling constant				

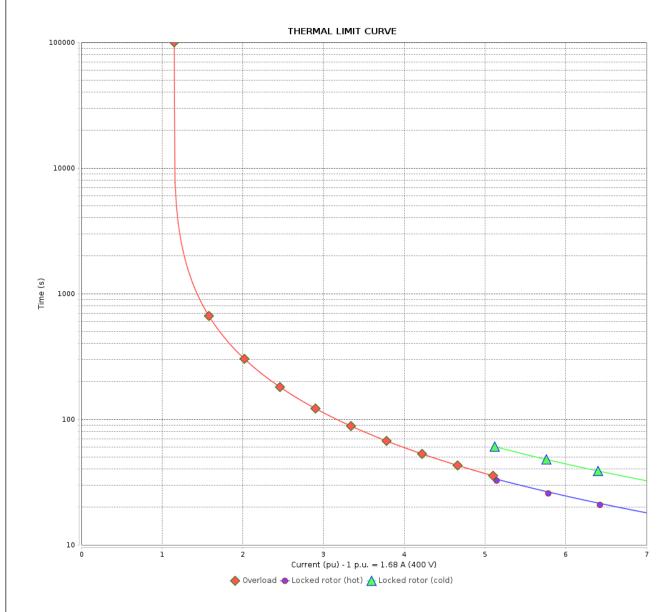
Cooling constant	•					
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839428



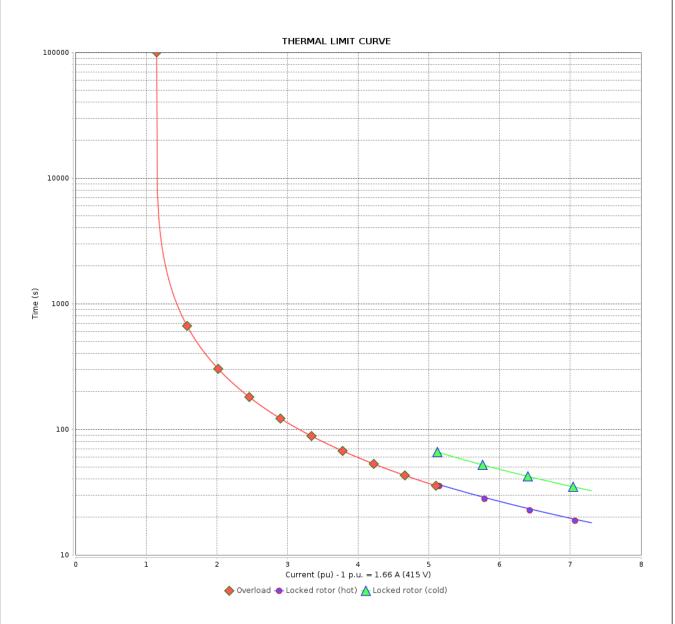
Performance : 230/400 V 50 Hz 4P : 2.92/1.68 A Moment of inertia (J) : 0.0032 kgm² Rated current **LRC** Duty cycle : S1 : 7.0 Insulation class : 0.509 kgfm : F Rated torque Locked rotor torque : 360 % Service factor : 1.00 : 360 % Breakdown torque : 80 K Temperature rise Rated speed : 1435 rpm Design : N Heating constant Cooling constant

Three Phase Induction Motor - Squirrel Cage



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Product line : W22 IE3 Three-Phase Product code : 15839428



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

Cooling constant

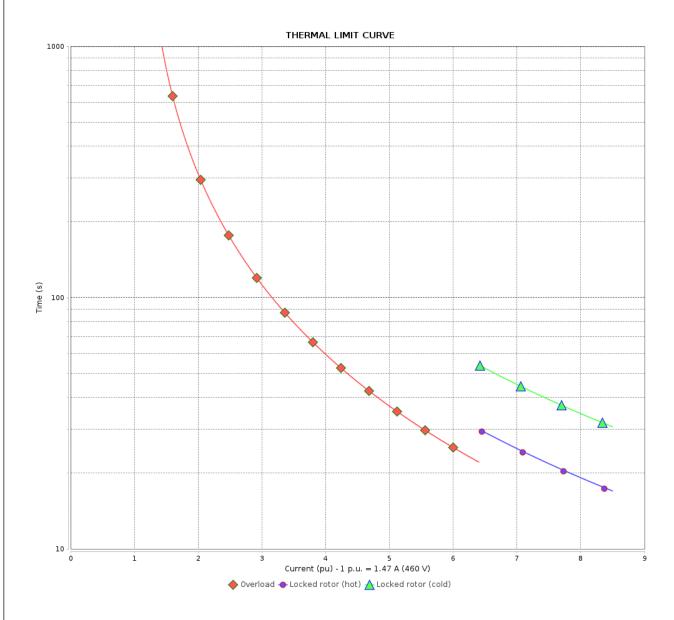
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15839428



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

Three Phase Induction Motor - Squirrel Cage



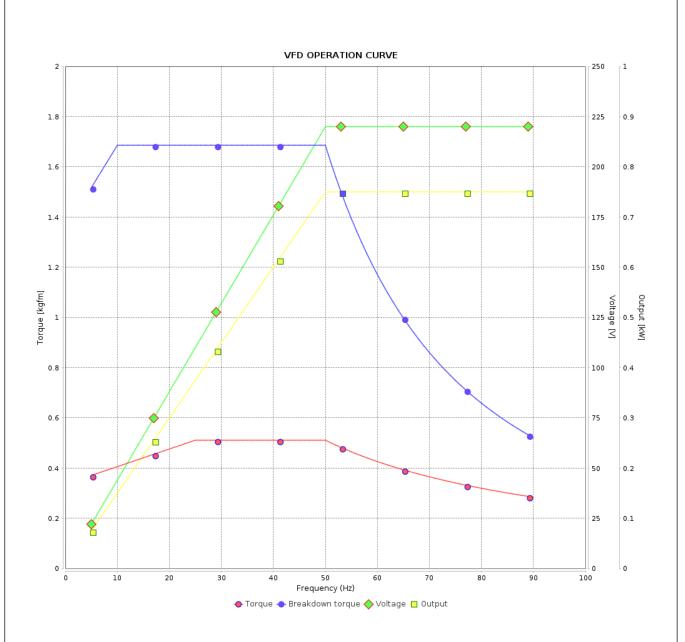
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Product line : W22 IE3 Three-Phase Product code : 15839428



Performance		: 220/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que le	: 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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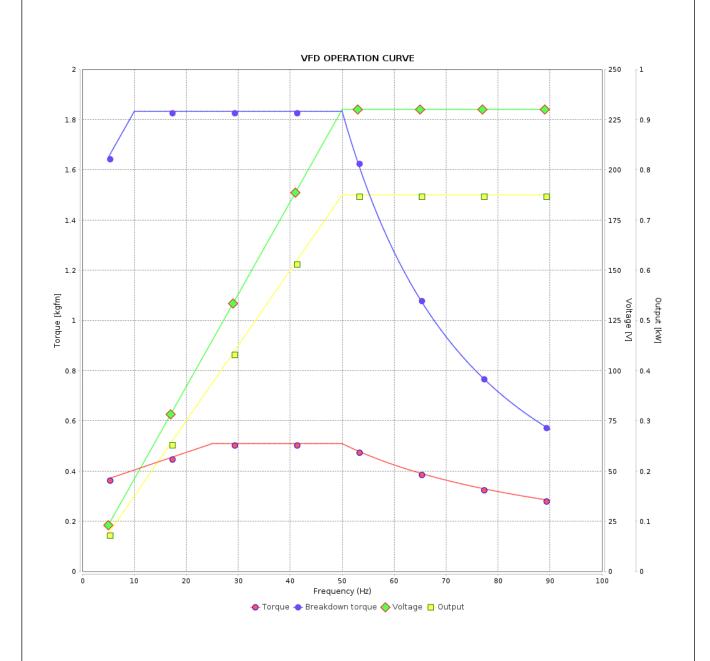
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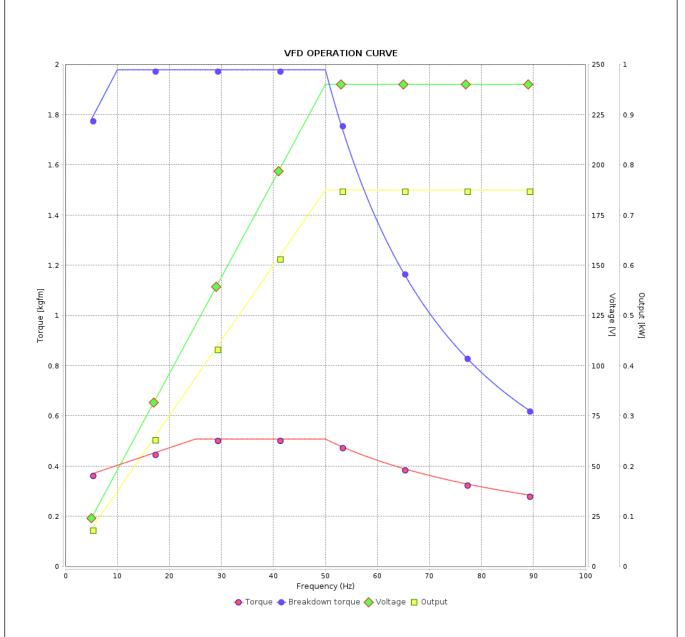
Performance	: 23	30/400 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 0. ue : 36 e : 36	92/1.68 A 0 509 kgfm 60 % 60 % 435 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0032 kgm² : S1 : F : 1.00 : 80 K : N	
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Customer	

Product line : W22 IE3 Three-Phase Product code : 15839428



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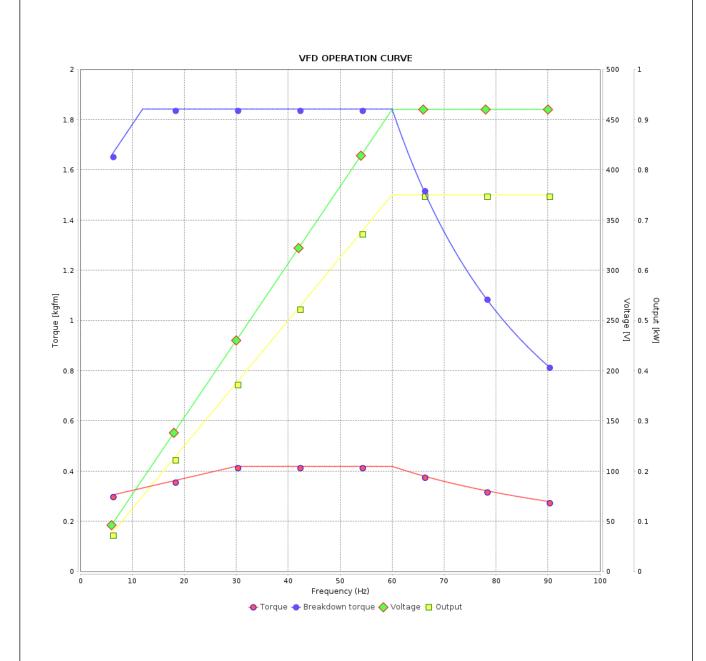
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15839428



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