DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15838624 Frame : 132S 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 : 72.6 kg : 0.0234 kgm² Protection degree : IP55 Moment of inertia (J) Design : N Output [kW] 7.5 7.5 7.5 7.5 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 14.4/8.27 14.1/8.19 13.9 12.4 L. R. Amperes [A] 115/66.2 120/69.6 125 117 LRC [A] 9.0 9.4 8.0 8.5 6.05/3.51 No load current [A] 5.44/3.13 5.24 6.50 Rated speed [RPM] 2945 3550 2930 2940 Slip [%] 2.33 2.00 1.83 1.39 Rated torque [kgfm] 2.49 2.06 2.48 2.48 Locked rotor torque [%] 229 260 280 310 Breakdown torque [%] 300 330 350 370 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 16s (cold) 9s (hot) 16s (cold) 9s (hot) Locked rotor time 16s (cold) 9s (hot) 18s (cold) 10s (hot) 68.0 dB(A) Noise level² 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 89.2 88.5 87.9 86.9 Efficiency (%) 75% 89.7 90.1 89.8 89.3 90.2 100% 90.1 90.2 90.2 25% 0.73 0.68 0.63 0.67 50% Power Factor 75% 0.83 0.80 0.76 0.78 100% 0.88 0.85 0.83 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.8 10.6 10.6 10.6 9.2 P2 (0,5;1,0) 9.3 9.2 9.2 P3 (0,25;1,0) 8.9 8.8 8.8 8.8 Losses (%) P4 (0,9;0,5) 5.1 5.1 5.1 5.1 P5 (0,5;0,5) 3.5 3.5 3.5 3.5 P6 (0,5;0,25) 2.3 2.3 2.3 2.3 P7 (0,25;0,25) 1.6 1.5 1.5 1.5 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ Max. traction : 104 kgf V'Ring V'Ring Sealing : 177 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

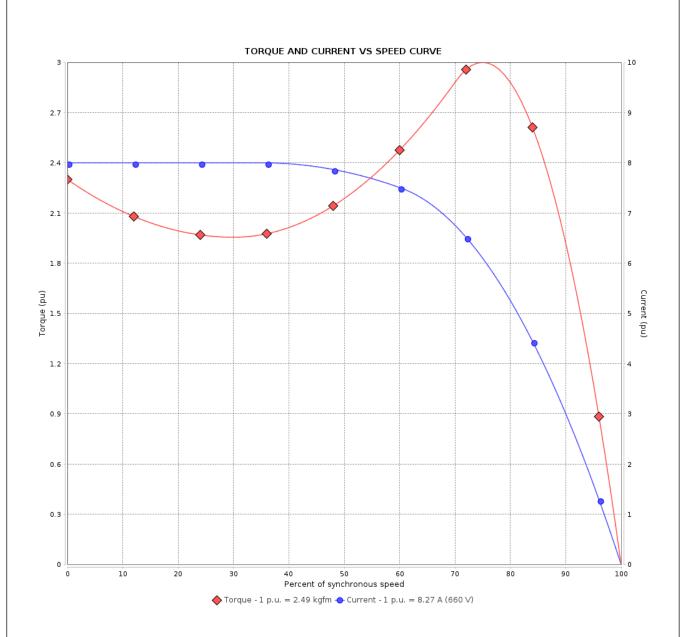
Voltage: 110-127/200-240 V

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code: 15838624



Performance	: 380/660 V 50 Hz 2P		
Rated current	: 14.4/8.27 A	Moment of inertia (J)	: 0.0234 kgm²
LRC	: 8.0	Duty cycle	: S1
Rated torque	: 2.49 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: N

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

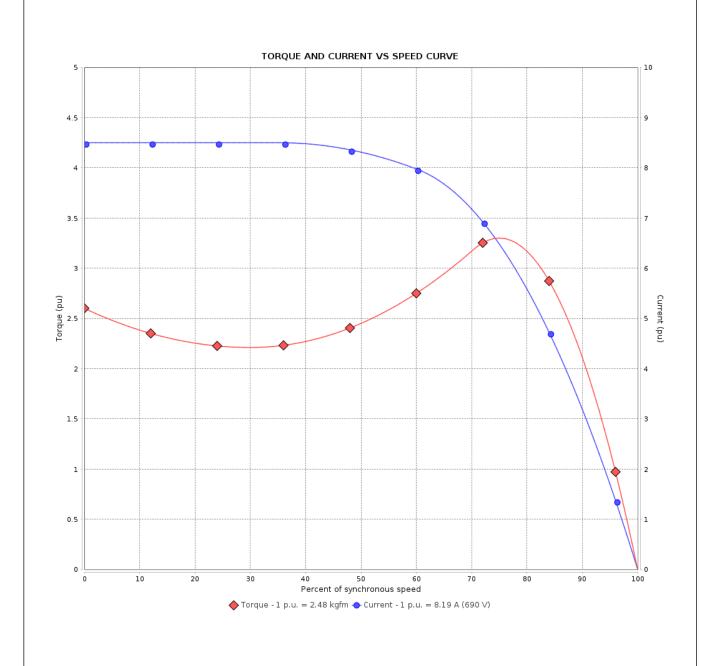
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 400/690 V 50 Hz 2P		
Rated current	: 14.1/8.19 A	Moment of inertia (J)	: 0.0234 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 2.48 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: N

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

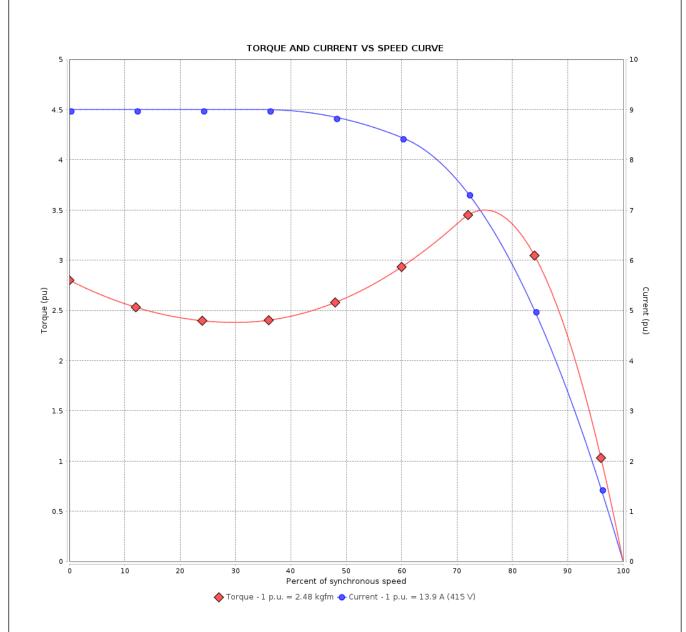
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Three Phase Induction Motor - Squirrel Cage



Customer		
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Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 415 V 50 Hz 2P			
Rated current	: 13.9 A	Moment of inertia (J)	: 0.0234 kgm²	
LRC	: 9.0	Duty cycle	: S1	
Rated torque	: 2.48 kgfm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 350 %	Temperature rise	: 80 K	

Rated speed : 2945 rpm | Design : N

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

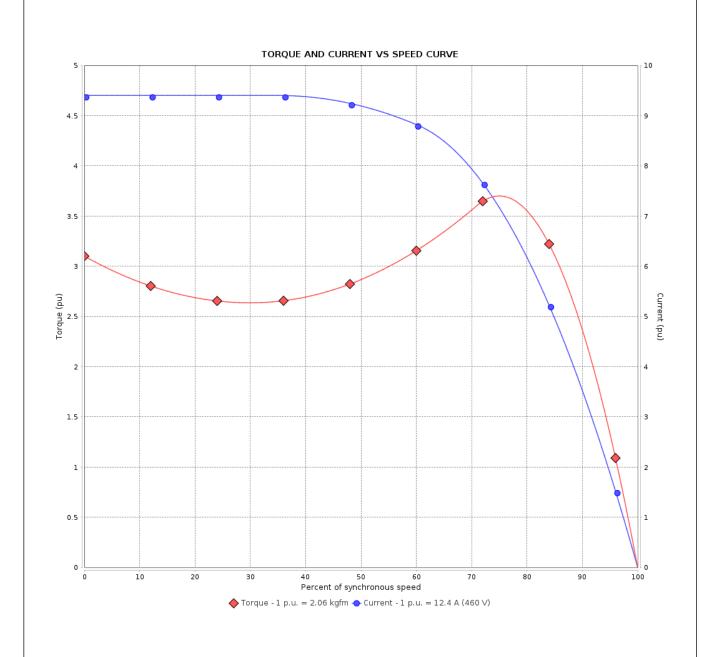
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance : 460 V 60 Hz 2P			
Rated current : 12.4 A LRC : 9.4 Rated torque : 2.06 kgfm Locked rotor torque : 310 % Breakdown torque : 370 % Rated speed : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	

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

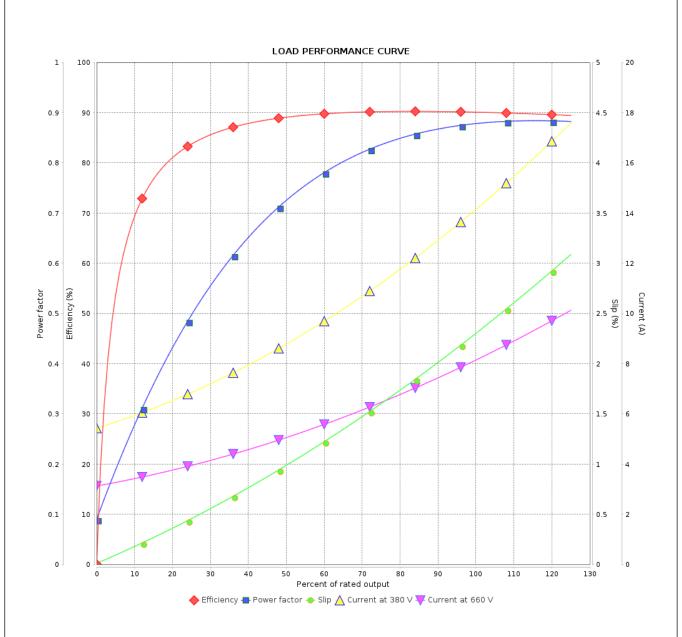
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Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 380/660 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.4/8.27 A : 8.0 : 2.49 kgfm : 229 % : 300 % : 2930 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	•
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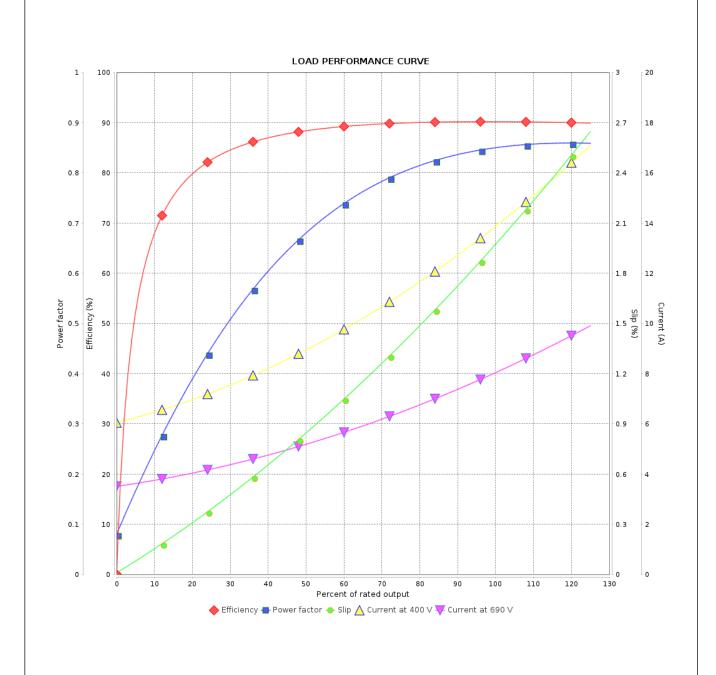
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 400/690 V 50 Hz 2P			
Rated current : 14.1/8.19 A Moment of inertia (J)		: 0.0234 kgm²		
LRC	` '		: S1	
Rated torque	: 2.48 kgfm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: N	
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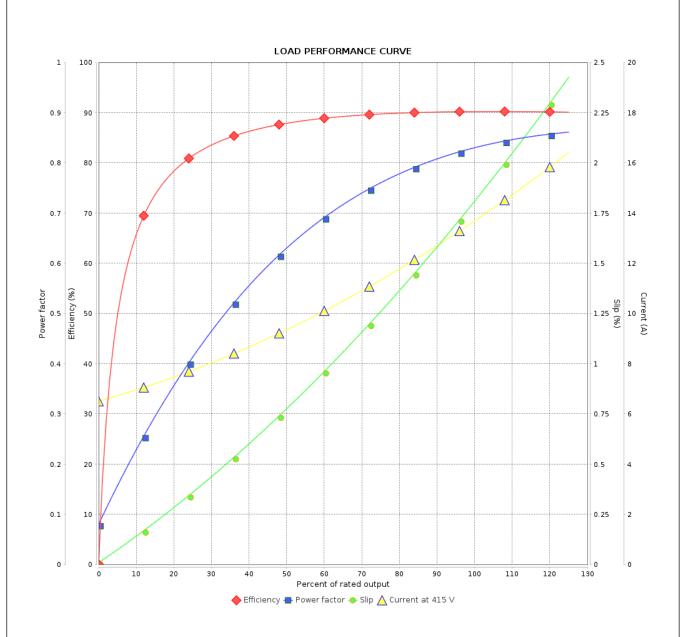
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Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.9 A : 9.0 : 2.48 kgfm : 280 % : 350 % : 2945 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ictor	: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	2
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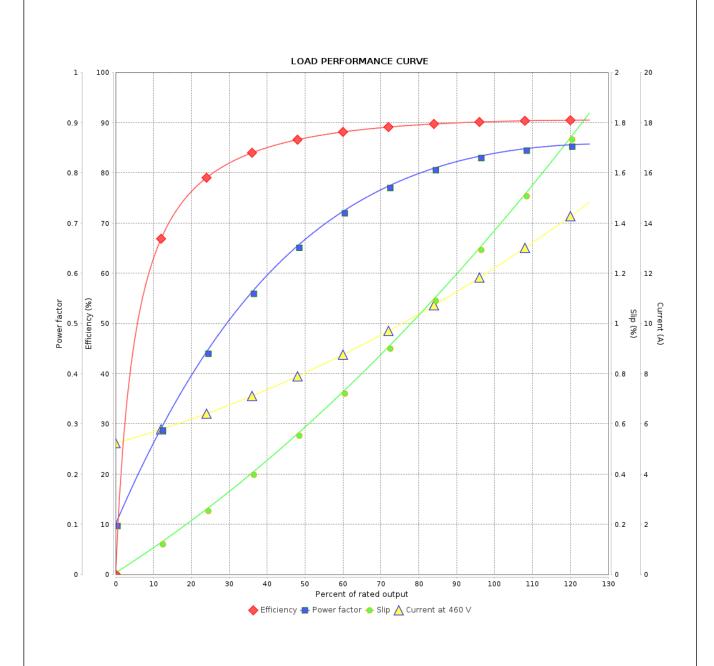
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



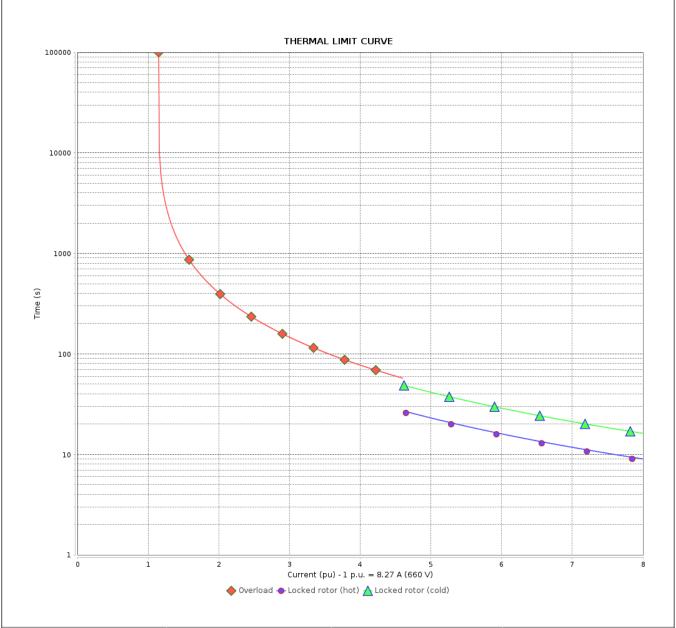
Performance	: 4	160 V 60 Hz 2P				
Rated current	: '	12.4 A	Moment o	f inertia (J)	: 0.0234 kgm²	!
LRC	: (9.4	Duty cycle	;	: S1	
Rated torque	: 2	2.06 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 3	310 %	Service factor Temperature rise		: 1.00 : 80 K	
Breakdown torqu	e :3	370 %				
Rated speed	: 3	3550 rpm	Design		: N	
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Customer	:	

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 380/660 V 50 Hz 2P			
Rated current	: 14.4/8.27 A	Moment of inertia (J)	: 0.0234 kgm²	
LRC	: 8.0	Duty cycle	: S1	
Rated torque	: 2.49 kgfm	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2930 rpm	Design	: N	
Heating constant				
Cooling constant				

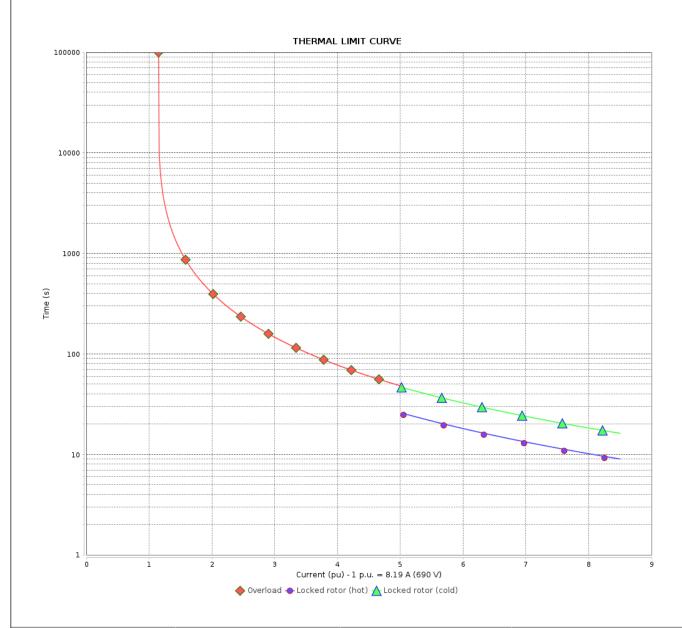
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Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 400/690 V 50 Hz 2P			
Rated current	: 14.1/8.19 A	Moment of inertia (J)	: 0.0234 kgm	2
LRC	: 8.5	Duty cycle	: S1	
Rated torque	: 2.48 kgfm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: N	
Heating constant				
Cooling constant				
_				

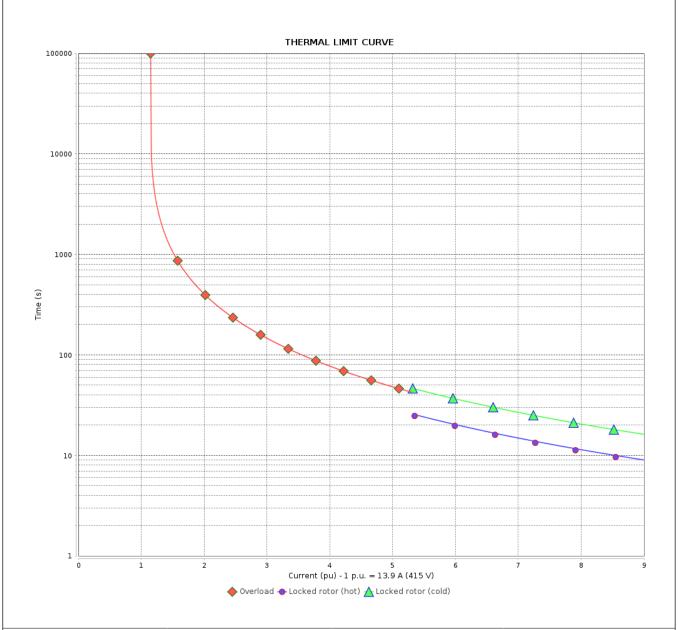
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Product line : W22 IE3 Three-Phase Product code : 15838624



: 415 V 50 Hz 2P Performance Rated current : 13.9 A Moment of inertia (J) : 0.0234 kgm² **LRC** : 9.0 Duty cycle : S1 Insulation class : 2.48 kgfm : F Rated torque : 280 % : 1.00 Locked rotor torque Service factor Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2945 rpm Design Heating constant Cooling constant

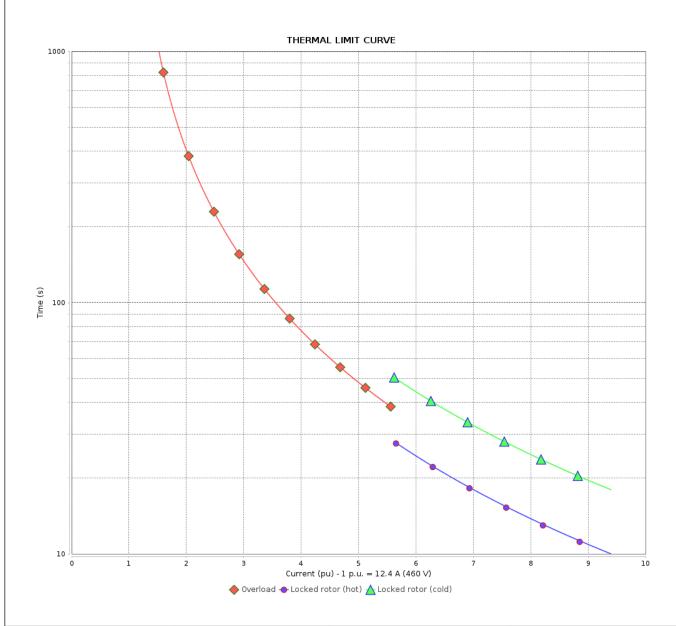
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15838624



Performance : 460 V 60 Hz 2P Rated current : 12.4 A Moment of inertia (J) : 0.0234 kgm² **LRC** : 9.4 Duty cycle : S1 Insulation class : F Rated torque : 2.06 kgfm Locked rotor torque : 310 % Service factor : 1.00 Breakdown torque : 370 % : 80 K Temperature rise Rated speed : 3550 rpm Design : N Heating constant Cooling constant

Three Phase Induction Motor - Squirrel Cage



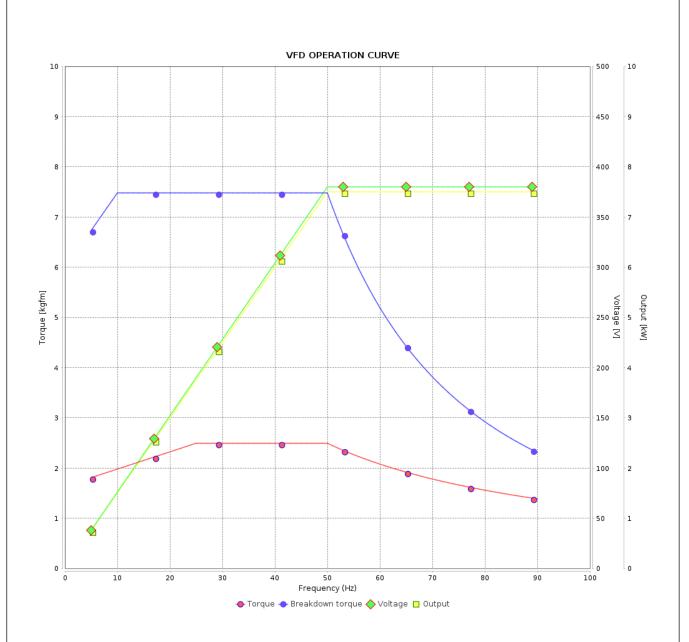
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Product line : W22 IE3 Three-Phase Product code : 15838624



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Performance		: 380/660 V 50 Hz	2P				
Rated current		: 14.4/8.27 A	l l		f inertia (J)	: 0.0234 kgm²	
LRC Rated torque		: 8.0 : 2.49 kgfm		Outy cyclensulation		: S1 : F	
Locked rotor torq		: 229 %		Service fa		: 1.00	
Breakdown torqu Rated speed	е	: 300 % : 2930 rpm	l l	ēmperatu Design	ire rise	: 80 K : N	
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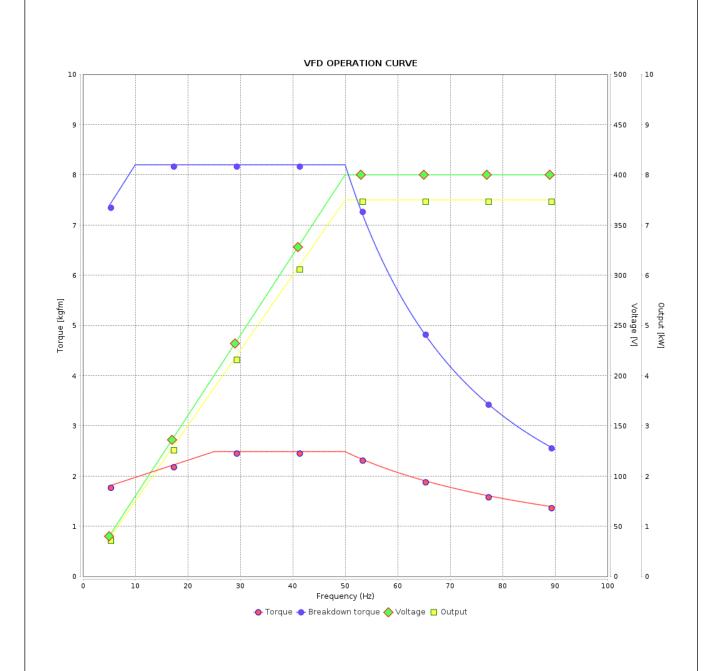
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Product line : W22 IE3 Three-Phase Product code : 15838624



Performance		: 400/690 V 50 Hz	z 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 14.1/8.19 A : 8.5 : 2.48 kgfm : 260 % : 330 % : 2940 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	
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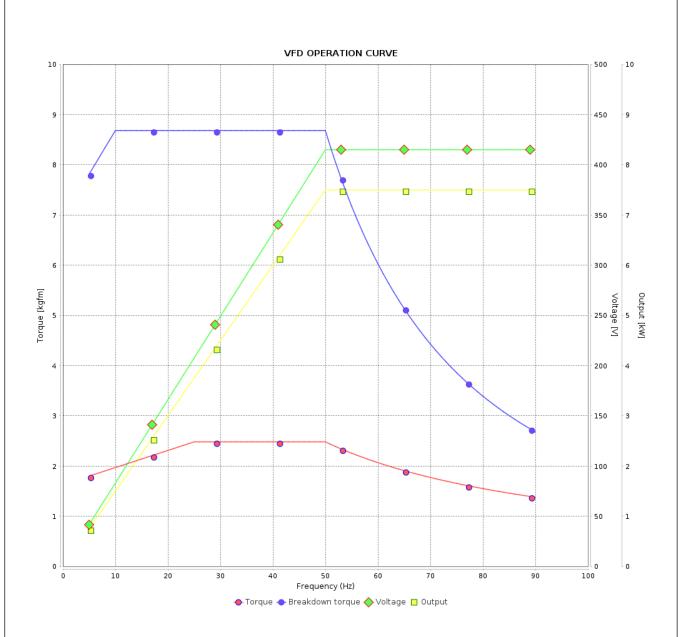
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Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 4	415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 ; 2 ; 2 ; 3 ; 3	13.9 A 9.0 2.48 kgfm 280 % 350 % 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	
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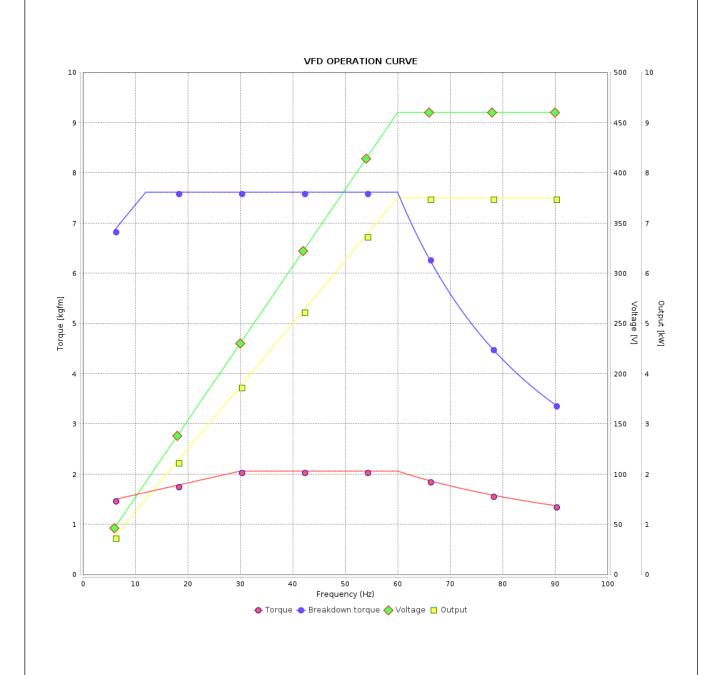
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Product line : W22 IE3 Three-Phase Product code : 15838624



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 12.4 A : 9.4 : 2.06 kgfm : 310 % : 370 % : 3550 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0234 kgm² : S1 : F : 1.00 : 80 K : N	
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