DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 IE3 Three-Phase Product code: 15834847 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 : 13.5 kg : IP55 Moment of inertia (J) : 0.0008 kgm² Protection degree Design : N 0.75 Output [kW] 0.75 0.75 0.75 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 2.94/1.70 2.90/1.67 2.85/1.65 1.48 L. R. Amperes [A] 21.4/12.4 21.8/12.5 22.0/12.7 12.6 LRC [A] 7.3 7.7 8.5 7.5 1.55/0.900 No load current [A] 1.74/1.00 1.90/1.10 0.910 Rated speed [RPM] 3480 2840 2860 2870 Slip [%] 5.33 4.67 4.33 3.33 Rated torque [kgfm] 0.255 0.257 0.255 0.210 Locked rotor torque [%] 400 280 320 350 Breakdown torque [%] 280 320 350 400 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 28s (cold) 16s (hot) 28s (cold) 16s (hot) 27s (cold) 15s (hot) 32s (cold) 18s (hot) Noise level² 59.0 dB(A) 59.0 dB(A) 59.0 dB(A) 62.0 dB(A) 25% 0.000 0.000 0.000 0.000 50% 79.5 78.5 77.0 75.5 Efficiency (%) 75% 80.5 81.5 80.5 80.0 100% 80.7 81.0 81.0 81.5 25% 0.00 0.00 0.00 0.00 50% 0.65 0.60 0.56 0.58 Power Factor 75% 0.76 0.72 0.69 0.70 100% 0.83 0.80 0.78 0.78 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 22.8 22.4 22.4 21.7 P2 (0,5;1,0) 19.8 19.5 19.5 18.8 P3 (0,25;1,0) 19.9 19.5 19.5 18.9 Losses (%) P4 (0,9;0,5) 12.6 12.4 12.4 12.0 P5 (0,5;0,5) 8.4 8.2 8.2 8.0 P6 (0,5;0,25) 6.2 6.1 6.1 5.9 P7 (0,25;0,25) 4.3 4.2 4.2 4.1 Drive end Non drive end Foundation loads Bearing type 6204 77 6203 ZZ Max. traction : 20 kgf V'Ring Sealing V'Rina : 33 kaf 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 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

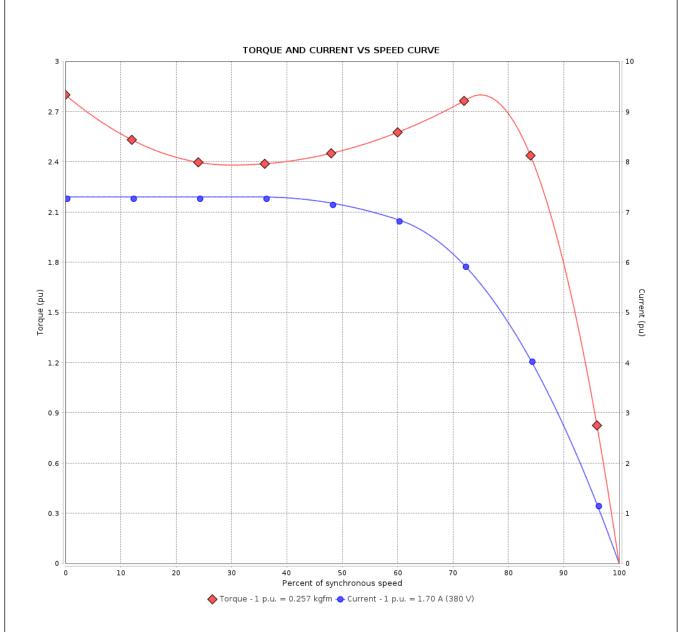
Voltage: 110 - 127 V

Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 15834847



: 220/380 V 50 Hz 2P		
: 2.94/1.70 A	Moment of inertia (J)	: 0.0008 kgm²
: 7.3	Duty cycle	: S1
: 0.257 kgfm	Insulation class	: F
: 280 %	Service factor	: 1.00
: 280 %	Temperature rise	: 80 K
: 2840 rpm	Design	: N
	: 2.94/1.70 A : 7.3 : 0.257 kgfm : 280 % : 280 %	: 2.94/1.70 A Moment of inertia (J) : 7.3 Duty cycle : 0.257 kgfm Insulation class : 280 % Service factor : 280 % Temperature rise

Locked rotor time : 28s (cold) 16s (hot)

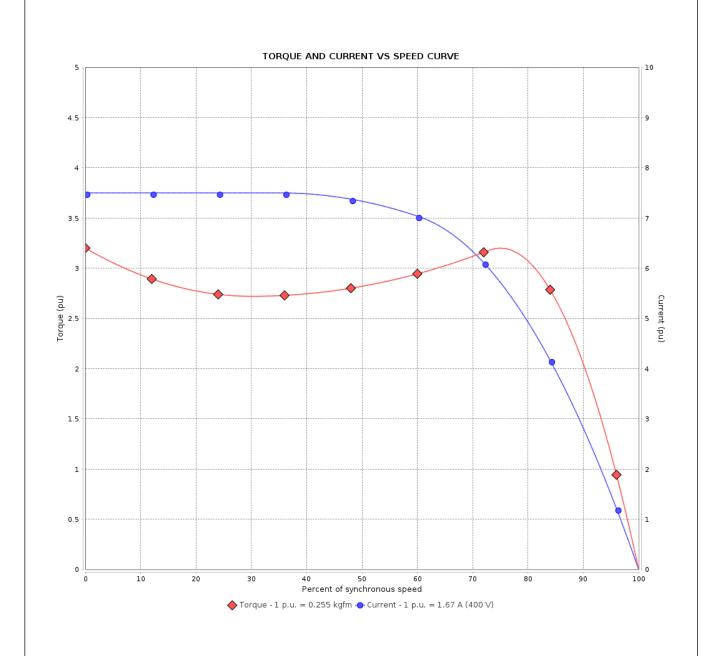
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15834847



Performance : 230/400 V 50 Hz 2P Rated current : 2.90/1.67 A Moment of inertia (J) : 0.0008 kgm² : S1 **LRC** : 7.5 Duty cycle : F : 0.255 kgfm Insulation class Rated torque : 320 % Service factor : 1.00 Locked rotor torque : 320 % : 80 K Breakdown torque Temperature rise : N Rated speed : 2860 rpm Design

Locked rotor time : 28s (cold) 16s (hot)

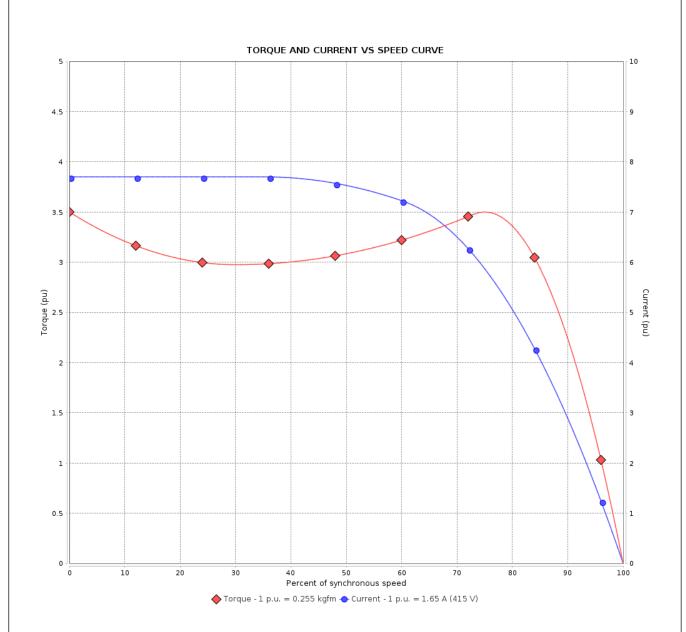
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Three Phase Induction Motor - Squirrel Cage



Customer	

Product line : W22 IE3 Three-Phase Product code : 15834847



Performance : 240/415 V 50 Hz 2P Rated current : 2.85/1.65 A Moment of inertia (J) : 0.0008 kgm² LRC : 7.7 Duty cycle : S1 Rated torque : 0.255 kgfm Insulation class : F : 350 % Service factor Locked rotor torque : 1.00 : 80 K Breakdown torque : 350 % Temperature rise

: N

Rated speed : 2870 rpm Design

Locked rotor time : 27s (cold) 15s (hot)

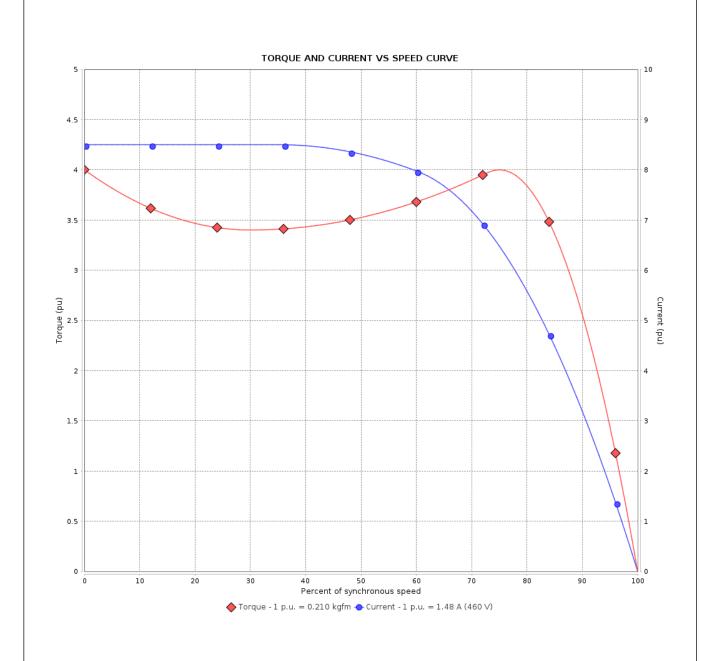
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15834847



Performance	: 460 V 60 Hz 2P		
Rated current	: 1.48 A	Moment of inertia (J)	: 0.0008 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 0.210 kgfm	Insulation class	: F
Locked rotor torque	: 400 %	Service factor	: 1.00
Breakdown torque	: 400 %	Temperature rise	: 80 K
Rated speed	: 3480 rpm	Design	: N

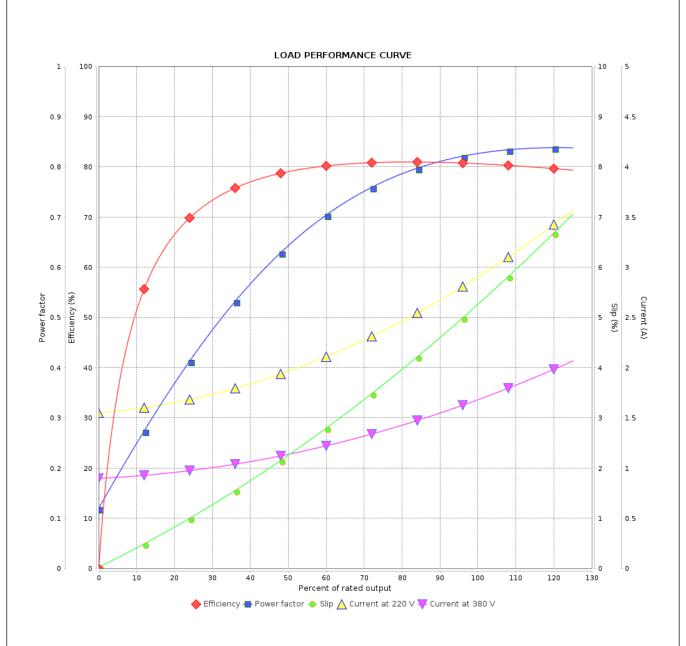
Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer :



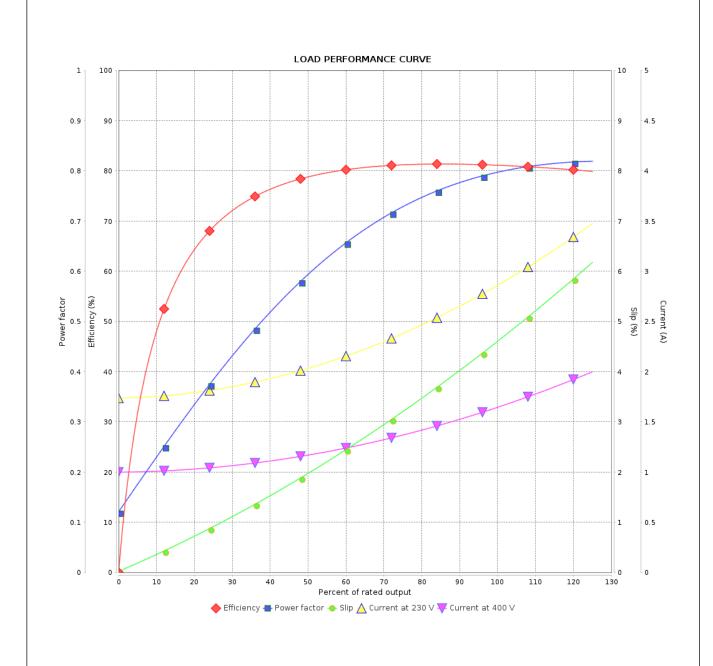
Performance		: 220/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 2.94/1.70 A : 7.3 : 0.257 kgfm : 280 % : 280 % : 2840 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	2
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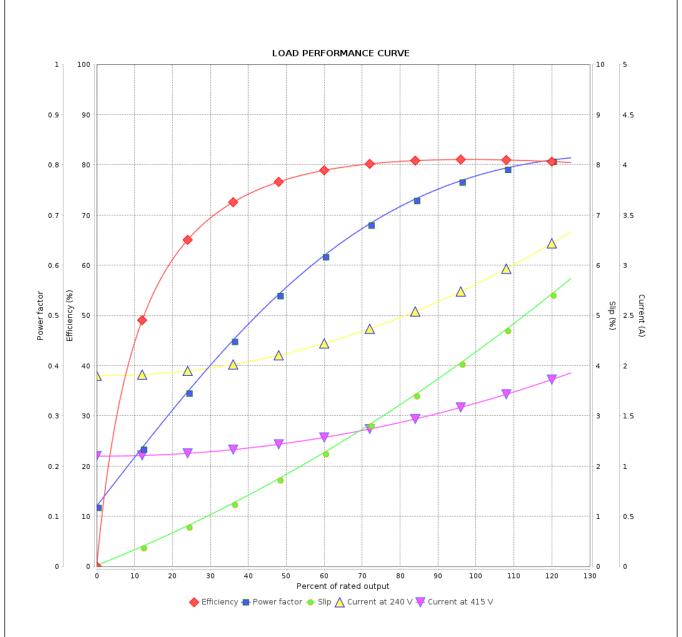
Performance	: 2	30/400 V 50 Hz 2P				
Rated current	: 2	.90/1.67 A	Moment o	of inertia (J)	: 0.0008 kgm²	2
LRC	: 7		Duty cycle	` '	: S1	
Rated torque	: 0	.255 kgfm	Insulation		: F	
Locked rotor torg		20 %	Service fa	ictor	: 1.00	
Breakdown torqu	•	20 %	Temperati	Temperature rise		
Rated speed	: 2	: 2860 rpm		Design		
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 15834847



Performance	: 240/415 V 50 Hz 2P	5 V 50 Hz 2P				
LRC : 7.7 Du Rated torque : 0.255 kgfm Ins Locked rotor torque : 350 % Se Breakdown torque : 350 % Te		Duty cycle : S1 Insulation class : F Service factor : 1.00		: F : 1.00 : 80 K	00	
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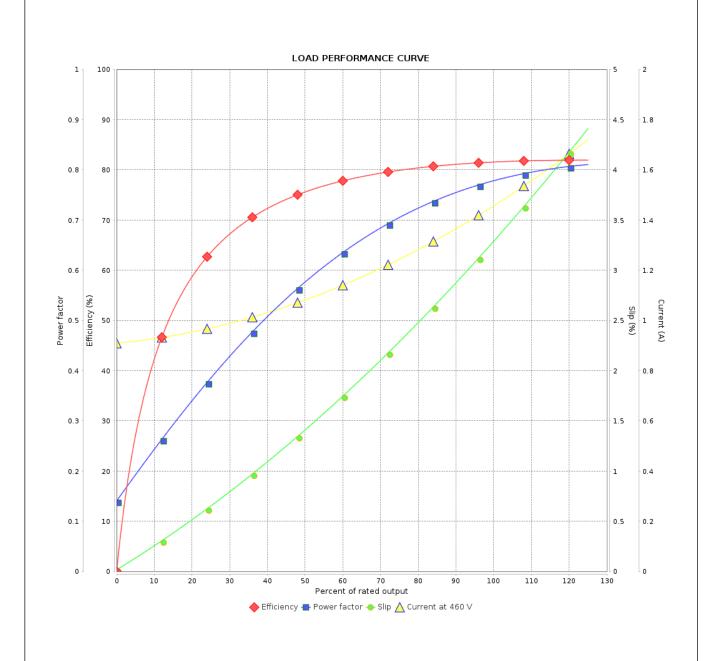
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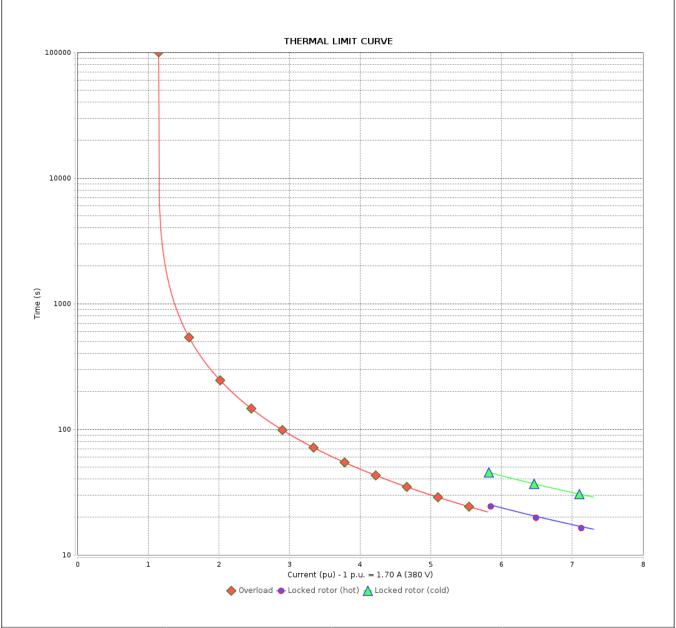


Performance	:	460 V 60 Hz 2P				
Rated current	:	1.48 A	Moment o	f inertia (J)	: 0.0008 kgm²	
LRC	:	8.5	Duty cycle		: S1	
Rated torque	:	0.210 kgfm	Insulation	class	: F	
Locked rotor torque	e :	400 %	Service fa	ctor	: 1.00	
Breakdown torque	:	400 %	Temperature rise		: 80 K : N	
Rated speed	:	: 3480 rpm Desig				
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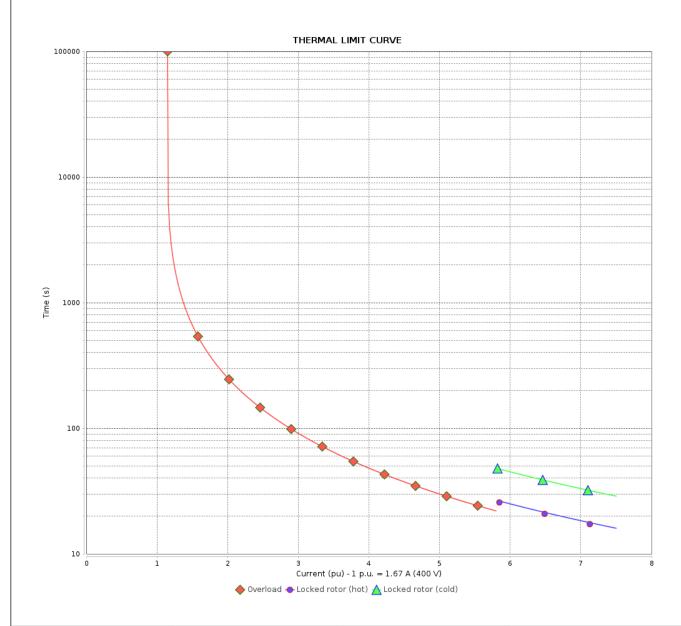
Performance	: 220/380 V 50 Hz 2P			
Rated current	: 2.94/1.70 A	Moment of inertia (J)	: 0.0008 kgm²	
LRC	: 7.3	Duty cycle	: S1	
Rated torque	: 0.257 kgfm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2840 rpm	Design	: N	
Heating constant				
Cooling constant				

Cooling Constant						
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Customer :



Performance	: 230/400 V 50 Hz 2P			
Rated current	: 2.90/1.67 A	Moment of inertia (J)	: 0.0008 kgm²	
LRC	: 7.5	Duty cycle	: S1	
Rated torque	: 0.255 kgfm	Insulation class	: F	
Locked rotor torque	: 320 %	Service factor	: 1.00	
Breakdown torque	: 320 %	Temperature rise	: 80 K	
Rated speed	: 2860 rpm	Design	: N	
Heating constant				
Cooling constant				
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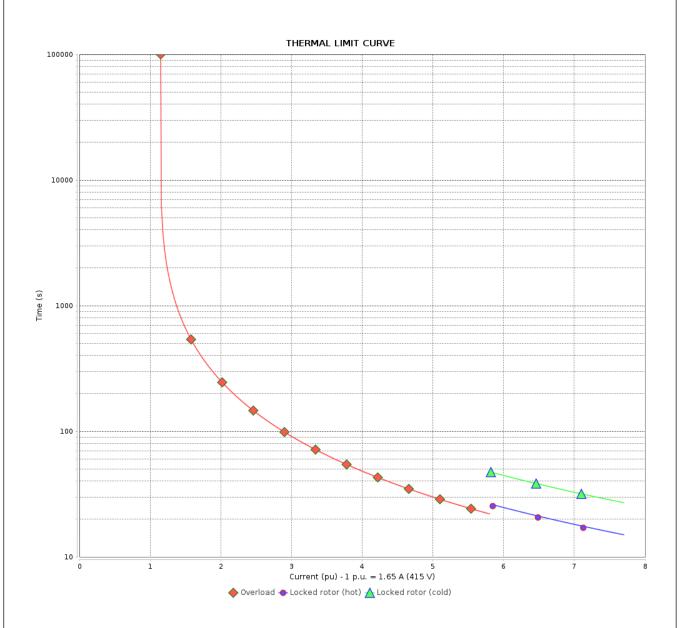
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Product line : W22 IE3 Three-Phase Product code : 15834847



Performance : 240/415 V 50 Hz 2P Rated current : 2.85/1.65 A Moment of inertia (J) : 0.0008 kgm² **LRC** : 7.7 Duty cycle : S1 Insulation class : 0.255 kgfm : F Rated torque : 1.00 Locked rotor torque : 350 % Service factor Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2870 rpm Design Heating constant Cooling constant

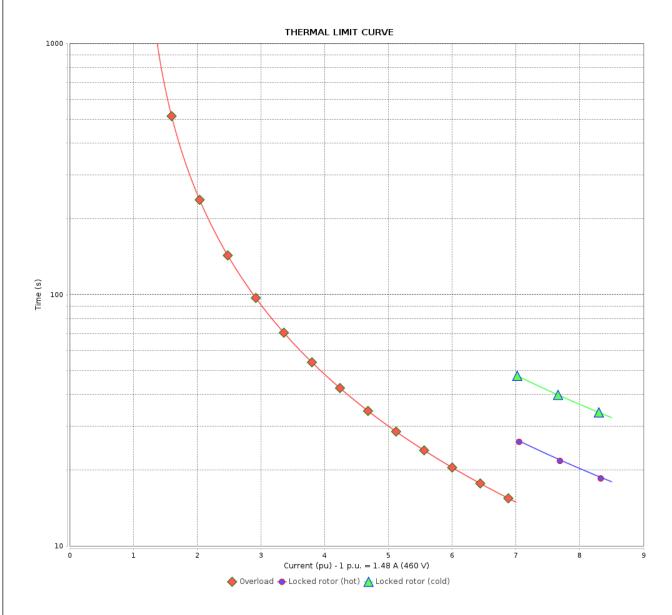
Cooling constant	.					
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IE3 Three-Phase Product code: 15834847



Performance : 460 V 60 Hz 2P : 1.48 A Moment of inertia (J) : 0.0008 kgm² Rated current **LRC** : 8.5 Duty cycle : S1 Insulation class : F Rated torque : 0.210 kgfm : 1.00 Locked rotor torque : 400 % Service factor Breakdown torque : 400 % : 80 K Temperature rise Rated speed : 3480 rpm Design : N Heating constant

Cooling constan	L				
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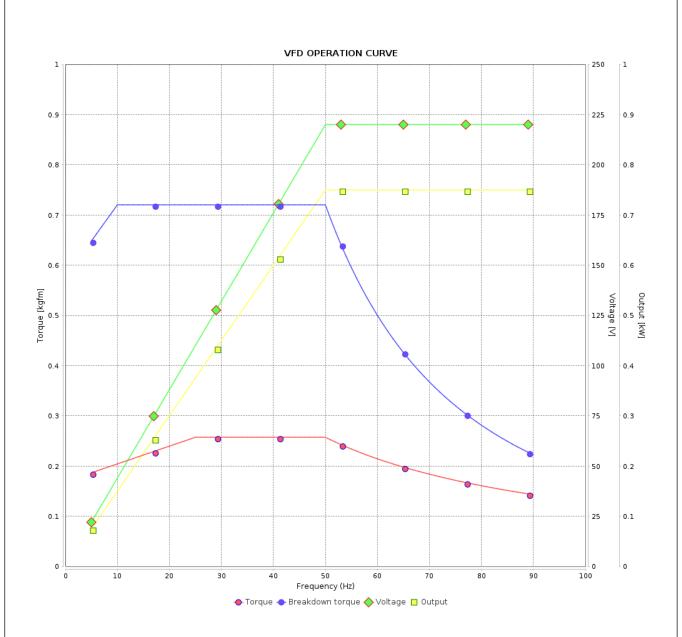
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Product line : W22 IE3 Three-Phase Product code : 15834847



Performance : 220/380 V 50 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.94/1.70 A : 7.3 : 0.257 kgfm : 280 % : 280 % : 2840 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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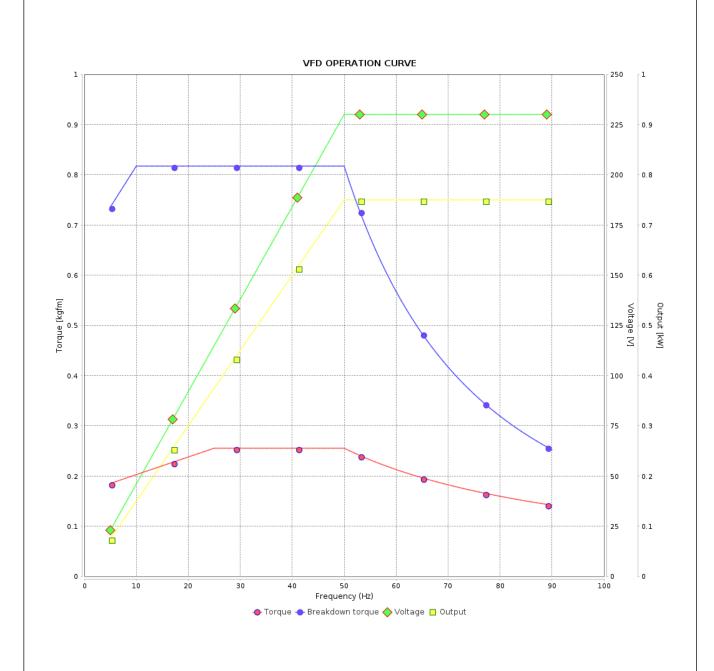
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Product line : W22 IE3 Three-Phase Product code : 15834847



Performance	: 2	230/400 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :(ue ::(e	2.90/1.67 A 7.5 0.255 kgfm 320 % 320 % 2860 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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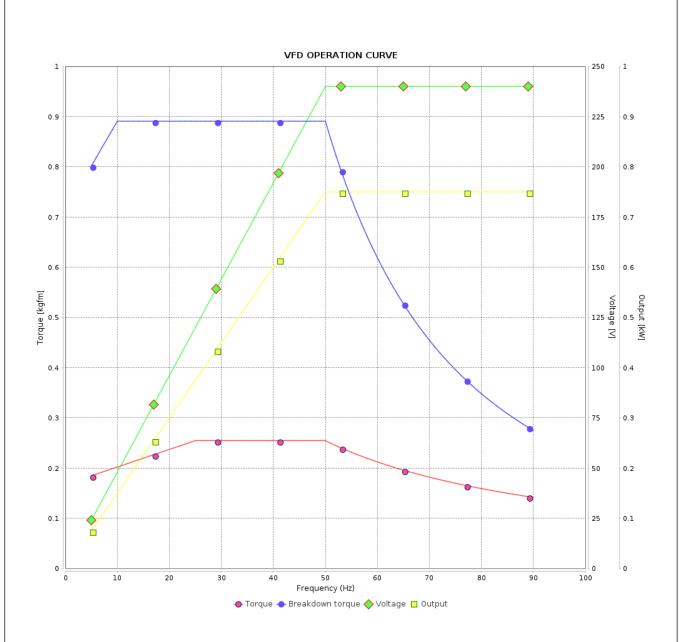
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Product line : W22 IE3 Three-Phase Product code : 15834847



Performance	: 240/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.85/1.65 A : 7.7 : 0.255 kgfm : 350 % : 350 % : 2870 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0008 kgm² : S1 : F : 1.00 : 80 K : N	
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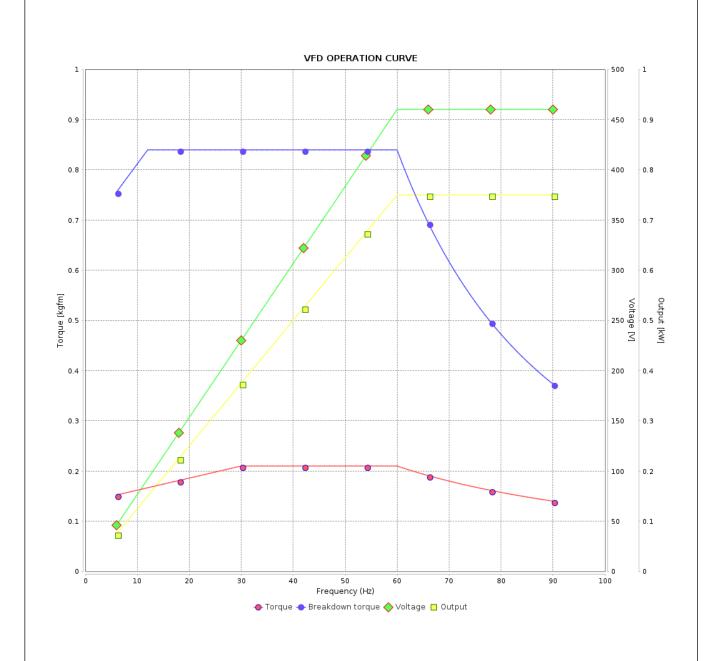
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Three Phase Induction Motor - Squirrel Cage



Customer :



Performance	: 40	60 V 60 Hz 2P					
		48 A Moment of inertia (J)		: 0.0008 kgm²	!		
LRC	: 8.5 Duty cycle			: S1			
Rated torque	ed torque : 0.210 kgfm Insulation class		class	: F			
Locked rotor tord	ocked rotor torque : 400 % Service factor		ictor	: 1.00			
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 34	480 rpm Design		: N			
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