DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code: 12562180 Frame : 160M/L 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 : 110 kg Protection degree : IP55 Moment of inertia (J) : 0.0565 kgm² Design : N Output [kW] 15 15 15 15 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 380/660 400/690 415 460 Rated current [A] 28.8/16.6 28.4/16.5 28.4 24.9 L. R. Amperes [A] 239/138 256/148 270 256 LRC [A] 8.3 9.5 10.3 9.0 11.3/6.51 12.7/7.36 No load current [A] 14.1 11.5 Rated speed [RPM] 2945 2950 2955 3560 Slip [%] 1.83 1.67 1.50 1.11 Rated torque [kgfm] 4.94 4.10 4.96 4.95 Locked rotor torque [%] 250 310 320 280 Breakdown torque [%] 340 370 390 300 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 14s (cold) 8s (hot) Locked rotor time 14s (cold) 8s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) Noise level² 70.0 dB(A) 70.0 dB(A) 70.0 dB(A) 75.0 dB(A) 25% 50% 90.0 89.0 88.0 88.5 Efficiency (%) 75% 91.0 90.5 90.0 90.5 100% 91.9 91.9 91.9 91.0 25% 0.74 0.67 0.62 0.67 50% Power Factor 75% 0.83 0.78 0.74 0.77 100% 0.86 0.83 0.80 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.6 8.6 8.6 9.6 P2 (0,5;1,0) 7.0 7.0 7.0 7.9 P3 (0,25;1,0) 7.2 6.4 6.4 6.4 Losses (%) P4 (0,9;0,5) 4.6 4.6 4.6 5.1 P5 (0,5;0,5) 3.0 3.0 3.0 3.4 P6 (0,5;0,25) 2.1 2.1 2.1 2.4 P7 (0,25;0,25) 1.4 1.4 1.4 1.6 Drive end Non drive end Foundation loads Bearing type 6309 ZZ C3 6209 ZZ C3 Max. traction : 196 kgf V'Ring Sealing V'Rina : 307 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



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Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	155 °C

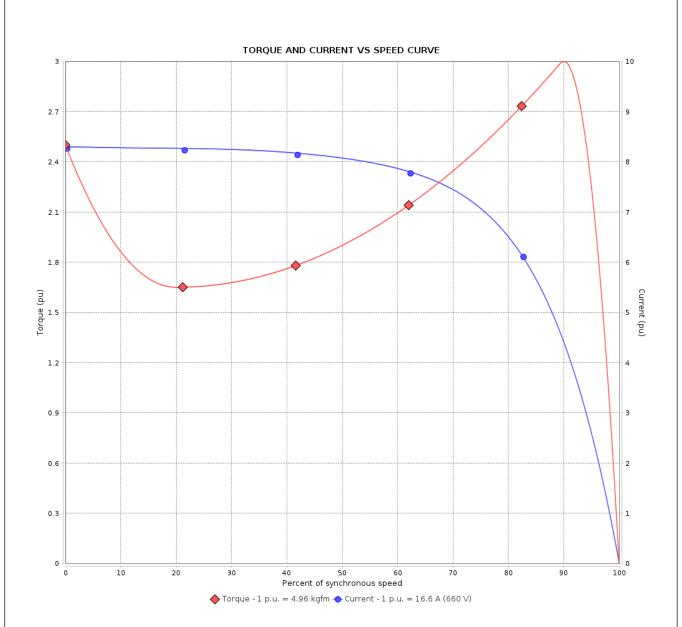
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Three Phase Induction Motor - Squirrel Cage



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Customer	
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Product line : MULTIMOUNTING Product code : 12562180



Performance	: 380/660 V 50 HZ 2P		
Rated current	: 28.8/16.6 A	Moment of inertia (J)	: 0.0565 kgm²

Duty cycle : S1 **LRC** : 4.96 kgfm Insulation class : F Rated torque : 250 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 300 % Temperature rise Rated speed : N : 2945 rpm Design

Locked rotor time : 14s (cold) 8s (hot)

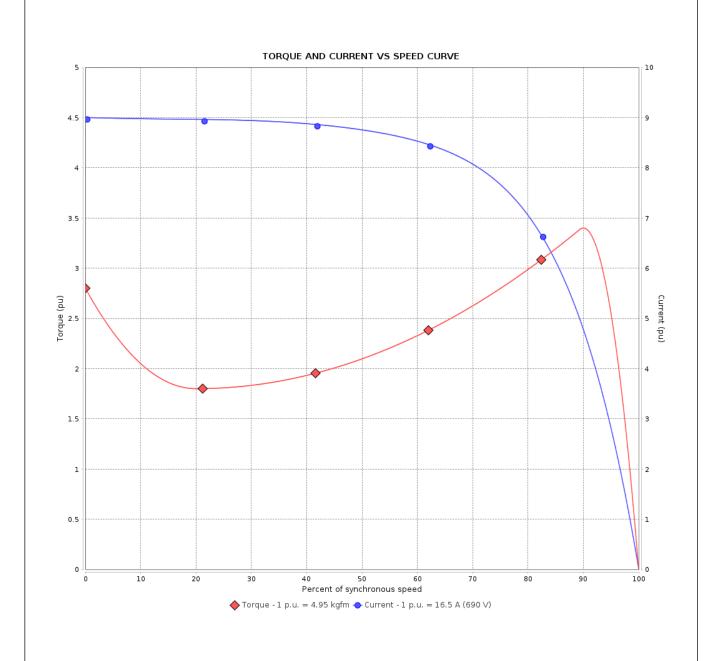
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 400/690 V 50 Hz 2P			
Rated current	: 28.4/16.5 A	Moment of inertia (J)	: 0.0565 kgm²	
LRC	: 9.0	Duty cycle	: S1	
Rated torque	: 4.95 kgfm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: N	

Locked rotor time : 14s (cold) 8s (hot)

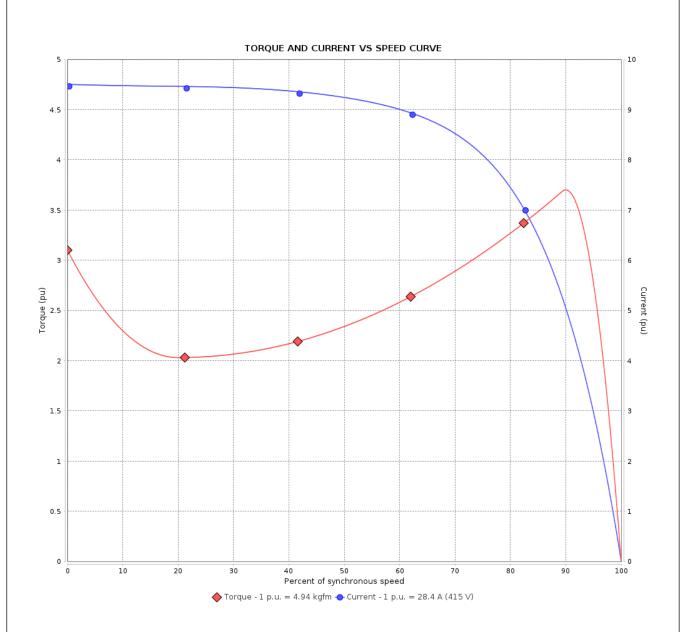
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 415 V 50 Hz 2P			
Rated current	: 28.4 A	Moment of inertia (J)	: 0.0565 kgm²	
LRC	: 9.5	Duty cycle	: S1	
Rated torque	: 4.94 kgfm	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.00	
Breakdown torque	: 370 %	Temperature rise	: 80 K	

Design

: N

Locked rotor time : 14s (cold) 8s (hot)

: 2955 rpm

Rated speed

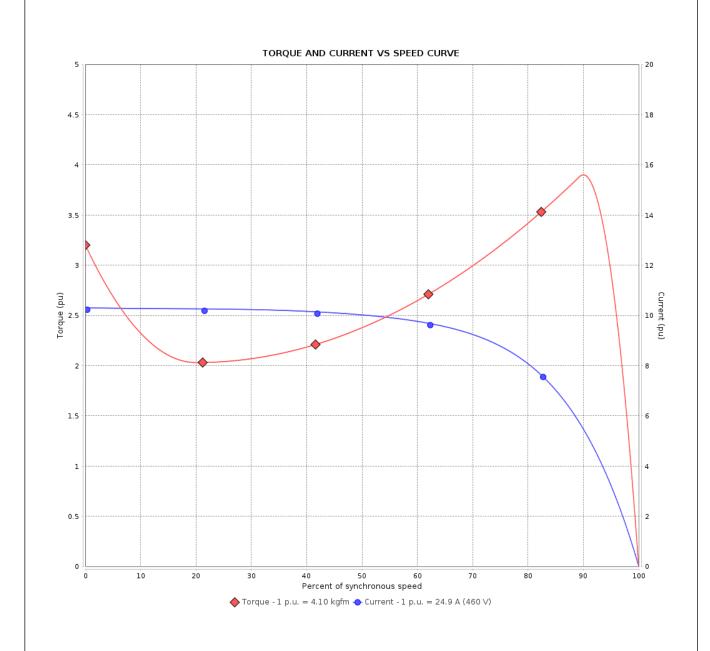
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance : 460 V 60 Hz 2P Rated current : 24.9 A Moment of inertia (J) : 0.0565 kgm² : S1 LRC : 10.3 Duty cycle : F Rated torque : 4.10 kgfm Insulation class : 320 % Locked rotor torque Service factor : 1.00 : 390 % : 80 K Breakdown torque Temperature rise : N Rated speed : 3560 rpm Design

Locked rotor time : 14s (cold) 8s (hot)

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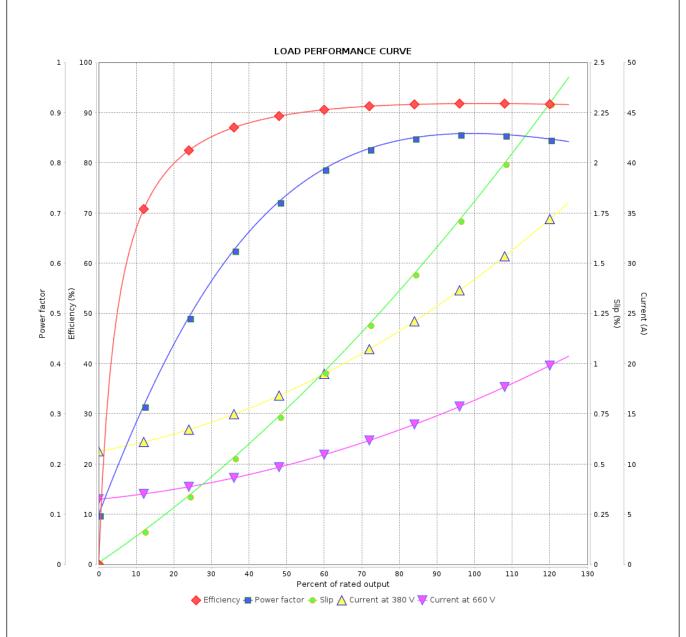
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Date

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Product line : MULTIMOUNTING Product code : 12562180



					1	
Performance		: 380/660 V 50 Hz 2F	•			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 28.8/16.6 A : 8.3 : 4.96 kgfm : 250 % : 300 % : 2945 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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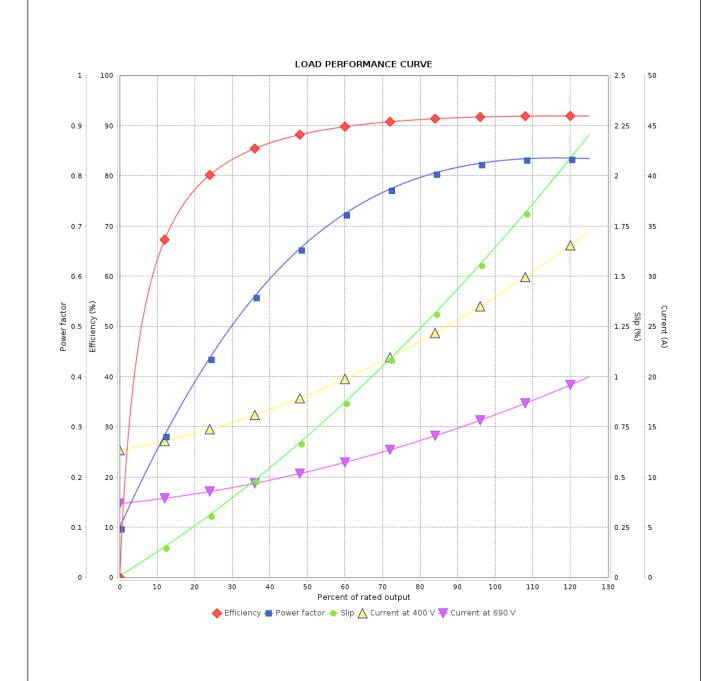
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 40	00/690 V 50 Hz 2P				
LRC : 9.0		Duty cycle	Moment of inertia (J) Duty cycle Insulation class			
Locked rotor torq Breakdown torqu Rated speed	e : 34	80 % 40 % 950 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : N	
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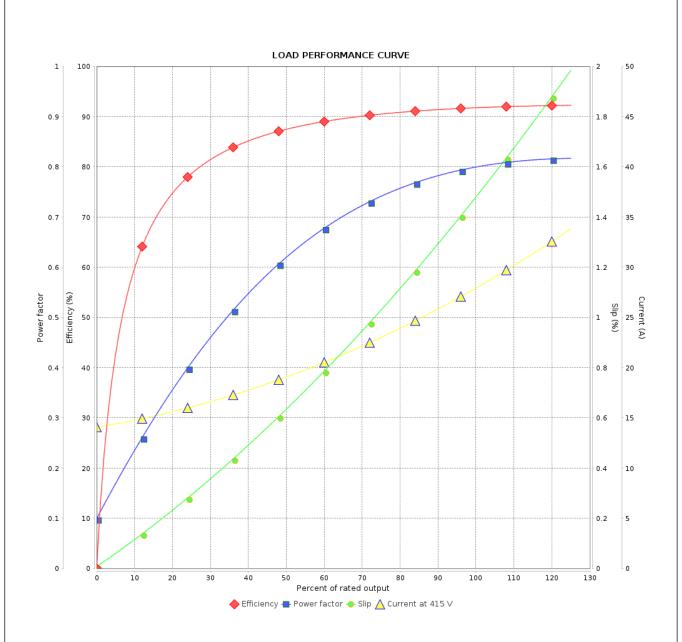


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Product line : MULTIMOUNTING Product code: 12562180



Performance	: 4	15 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 4 jue : 3	28.4 A 0.5 0.94 kgfm 110 % 170 % 1955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0565 kgm² : S1 : F : 1.00 : 80 K : N	
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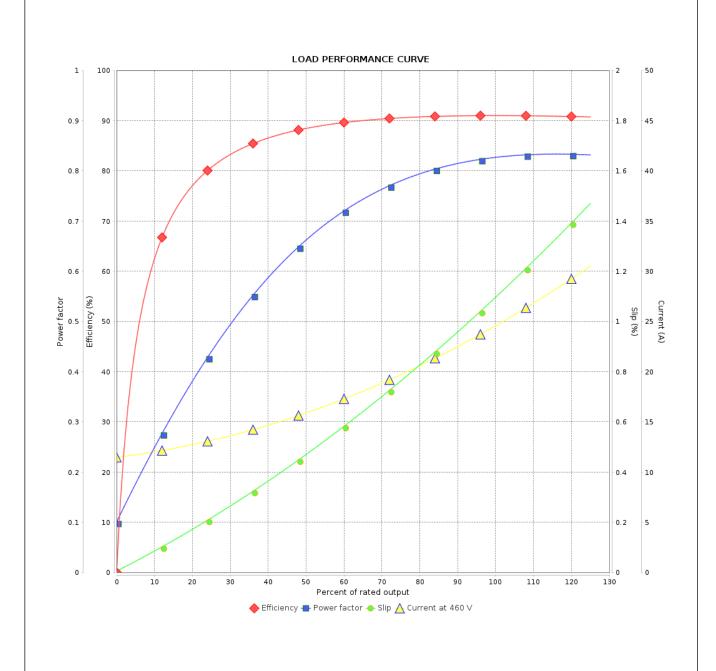
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 460 V 60 H	Hz 2P			
Rated current LRC	: 24.9 A : 10.3		Moment of inertia (J) Duty cycle		2
Rated torque Locked rotor torc	: 4.10 kgfm jue : 320 %	Insulation Service fa	Insulation class Service factor		
Breakdown torqu Rated speed	: 390 % : 3560 rpm	Design	Temperature rise Design		
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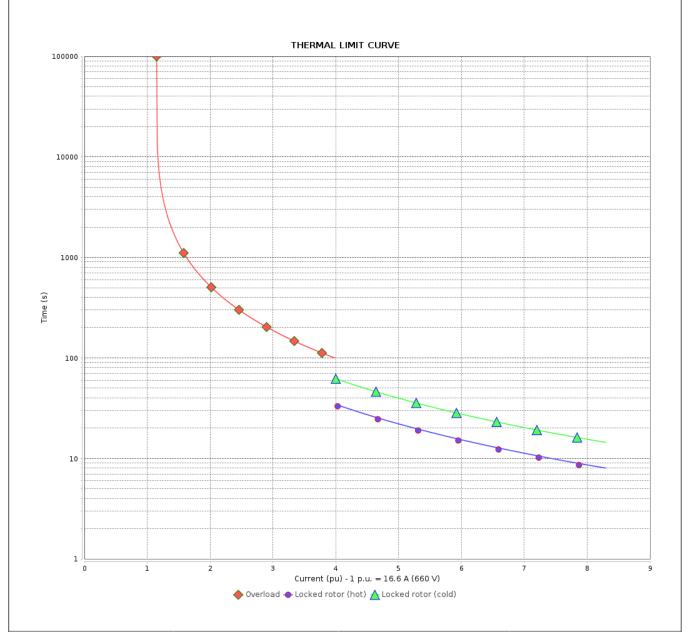
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : MULTIMOUNTING Product code : 12562180



Performance : 380/660 V 50 Hz 2P Rated current : 28.8/16.6 A Moment of inertia (J) : 0.0565 kgm² **LRC** : 8.3 Duty cycle : S1 Insulation class Rated torque : 4.96 kgfm : F : 250 % Service factor : 1.00 Locked rotor torque Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2945 rpm Design

Heating constant Cooling constant

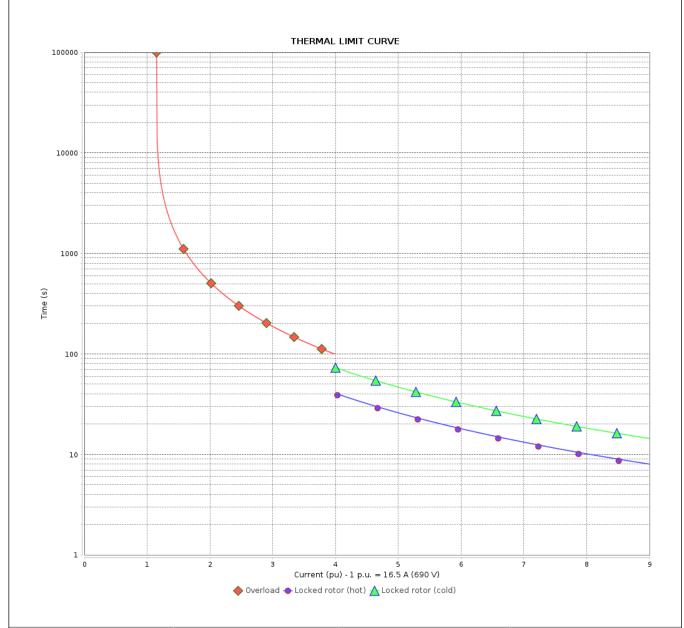
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance : 400/690 V 50 Hz 2P : 28.4/16.5 A Moment of inertia (J) : 0.0565 kgm² Rated current **LRC** : 9.0 Duty cycle : S1 Insulation class : F Rated torque : 4.95 kgfm : 280 % : 1.00 Locked rotor torque Service factor Breakdown torque : 340 % : 80 K Temperature rise Rated speed : 2950 rpm Design : N Heating constant

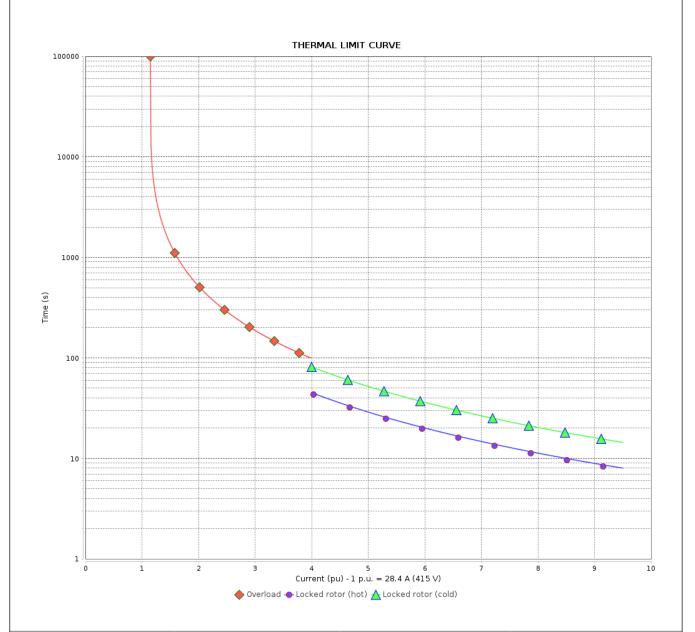
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : MULTIMOUNTING Product code : 12562180



Dorformonoo	. 445 V 50 Hz 2D
Performance	: 415 V 50 Hz 2P

Rated current : 28.4 A Moment of inertia (J) : 0.0565 kgm²

LRC : 9.5 Duty cycle : S1 Insulation class : F Rated torque : 4.94 kgfm : 310 % Service factor : 1.00 Locked rotor torque Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2955 rpm Design

Heating constant

Cooling constant

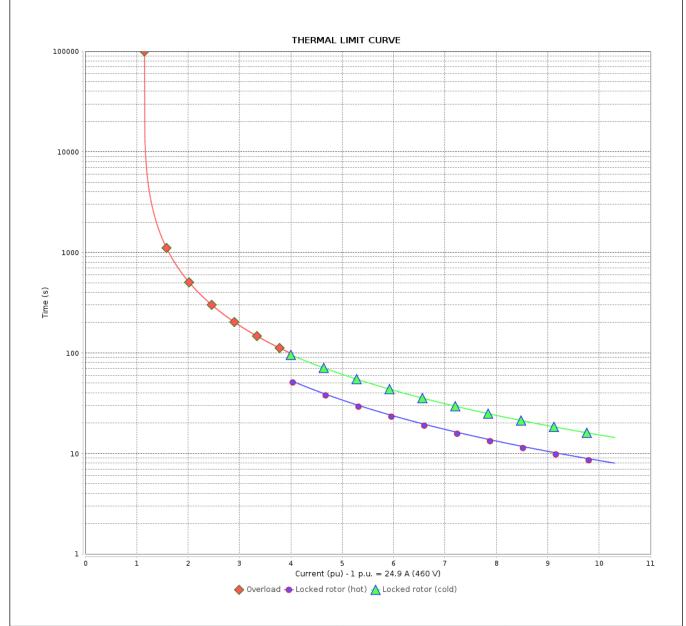
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance : 460 V 60 Hz 2P Rated current : 24.9 A Moment of inertia (J) : 0.0565 kgm² **LRC** : 10.3 Duty cycle : S1 Insulation class : F Rated torque : 4.10 kgfm : 320 % : 1.00 Locked rotor torque Service factor : 390 % Temperature rise Breakdown torque : 80 K Rated speed : 3560 rpm Design : N Heating constant Cooling constant

Cooling constant	L				
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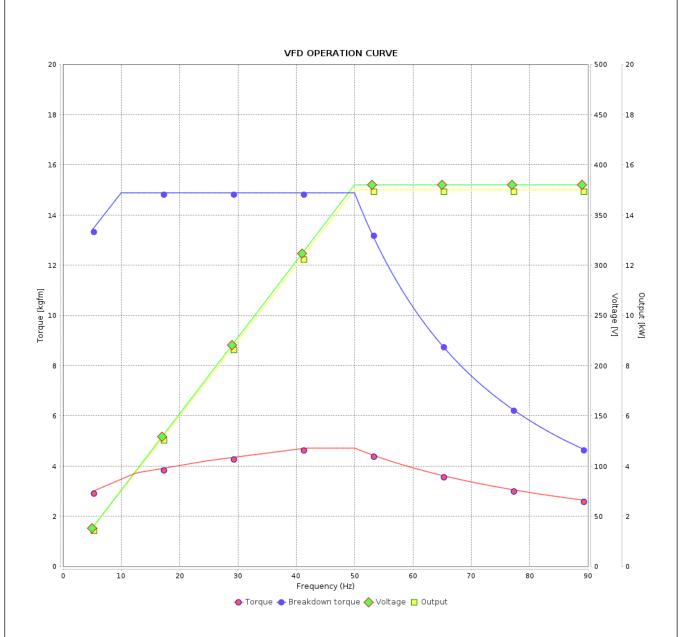
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Performance		: 380/660 V 50 Hz	2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 28.8/16.6 A : 8.3 : 4.96 kgfm : 250 % : 300 % : 2945 rpm	Duty of Insula Service	cycle ition o ce fac eratu	class	: 0.0565 kgm ² : S1 : F : 1.00 : 80 K : N	2
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Three Phase Induction Motor - Squirrel Cage



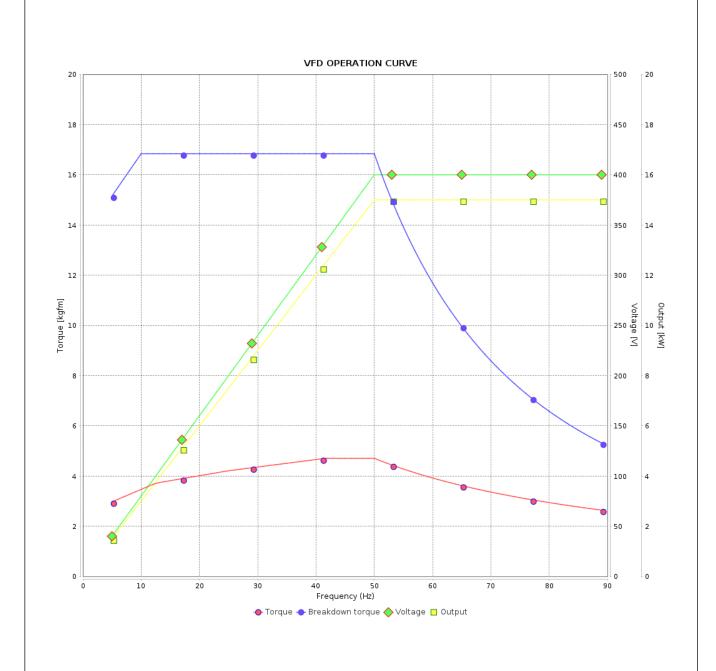
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Performance	: 400/690 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0565 kgm² : S1 : F : 1.00 : 80 K : N	
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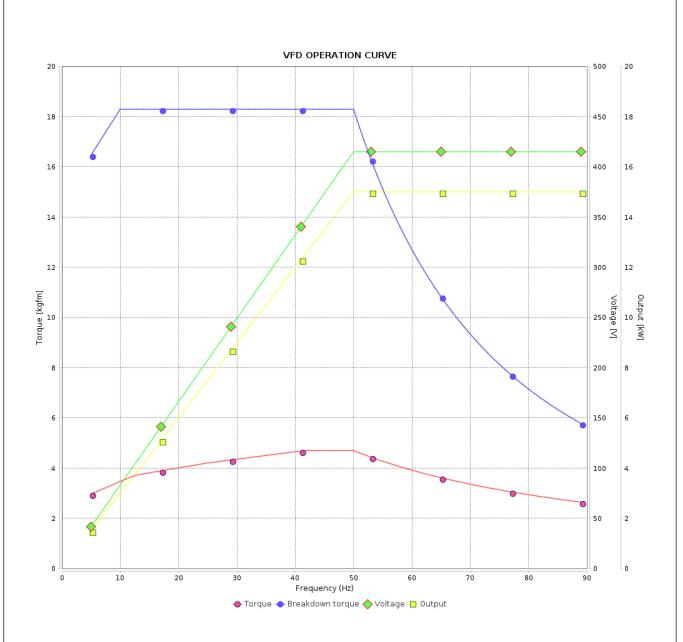
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Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 415 V 50 Hz 2P				
Rated current	: 28.4 A	Moment o	f inertia (J)	: 0.0565 kgm²	2
LRC	: 9.5	Duty cycle)	: S1	
Rated torque	: 4.94 kgfm	Insulation	class	: F	
Locked rotor torque	: 310 %	Service fa	ctor	: 1.00	
Breakdown torque	: 370 %	Temperature rise		: 80 K	
Rated speed	: 2955 rpm	Design		: N	
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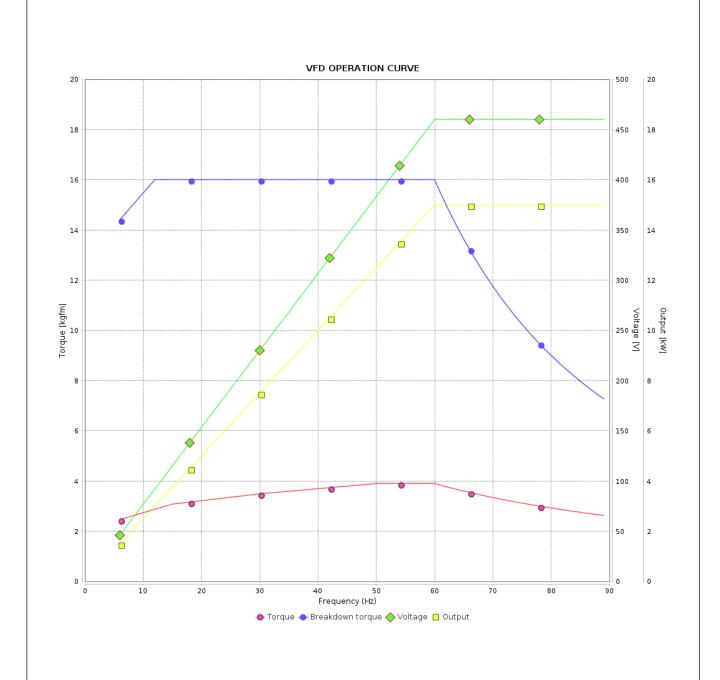
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : MULTIMOUNTING Product code : 12562180



Performance	: 40	60 V 60 Hz 2P					
Rated current	: 24	4.9 A	Moment of	of inertia (J)	: 0.0565 kgm²	2	
LRC	: 10	0.3	Duty cycle	Э	: S1		
Rated torque	: 4.	.10 kgfm	Insulation	class	: F		
Locked rotor torq	ue : 32	20 %	Service fa	actor	: 1.00		
Breakdown torqu	ie : 39	90 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 39	560 rpm	Design		: N		
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