DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0 1

Customer Product line : W22 IE3 Three-Phase Product code: 12862424 Frame : 63 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 : 8.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0002 kgm² Design : N Output [kW] 0.25 0.25 0.25 0.25 Poles 2 2 2 2 50 50 50 60 Frequency [Hz] Rated voltage [V] 220/380 230/400 240/415 460 Rated current [A] 1.16/0.673 1.17/0.672 1.17/0.674 0.606 L. R. Amperes [A] 6.16/3.57 6.43/3.70 6.64/3.84 4.00 LRC [A] 6.6 5.3 5.5 5.7 0.829/0.480 0.939/0.540 No load current [A] 1.00/0.580 0.470 Rated speed [RPM] 3440 2795 2820 2830 Slip [%] 4.44 6.83 6.00 5.67 Rated torque [Nm] 0.694 0.855 0.847 0.844 Locked rotor torque [%] 229 260 280 330 Breakdown torque [%] 240 270 290 350 Service factor 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 56.0 dB(A) 25% 50% 64.6 63.0 61.5 64.0 Efficiency (%) 75% 68.7 68.0 67.2 68.0 69.7 100% 69.7 69.7 70.0 25% 0.59 0.54 0.51 0.53 50% Power Factor 75% 0.72 0.68 0.64 0.65 100% 0.81 0.77 0.74 0.74 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 44.2 44.2 44.2 43.6 40.9 P2 (0,5;1,0) 40.9 40.9 40.3 P3 (0,25;1,0) 35.7 35.2 35.7 35.7 Losses (%) P4 (0,9;0,5) 26.9 26.9 26.9 26.5 P5 (0,5;0,5) 18.5 18.5 18.5 18.3 P6 (0,5;0,25) 15.1 15.1 15.1 14.8 P7 (0,25;0,25) 10.4 10.4 10.4 10.3 Drive end Non drive end Foundation loads Bearing type 6201 ZZ 6201 ZZ Max. traction : 57 N Sealing Oil Seal Lip Seal : 136 N 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

(4) At 100 /0 01 10	iii load.					
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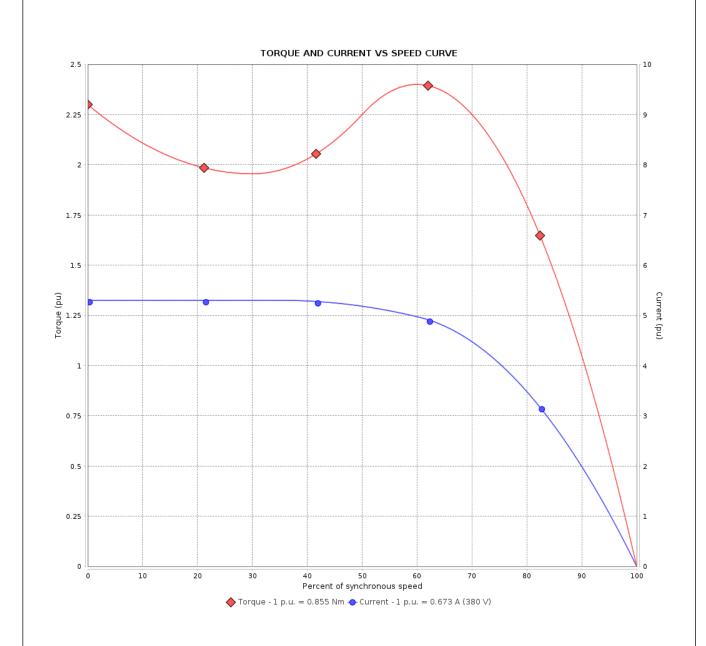
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 220/380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.16/0.673 A : 5.3 : 0.855 Nm : 229 % : 240 % : 2795 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0002 kgm² : S1 : F : 1.00 : 80 K : N	

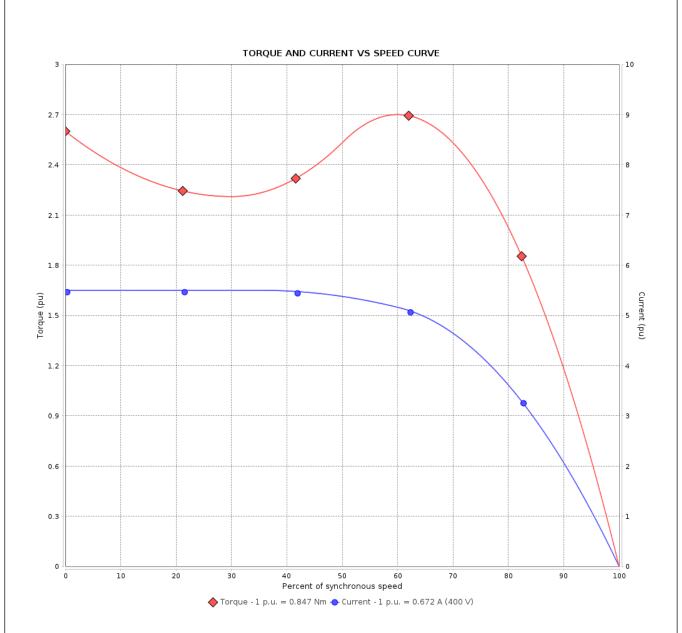
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 230/400 V 50 Hz 2P			
Rated current	: 1.17/0.672 A	Moment of inertia (J)	: 0.0002 kgm²	
LRC	: 5.5	Duty cycle	: S1	
Rated torque	: 0.847 Nm	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.00	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2820 rpm	Design	: N	
Locked rotor torque Breakdown torque	: 260 % : 270 %	Service factor Temperature rise	: 1.00 : 80 K	

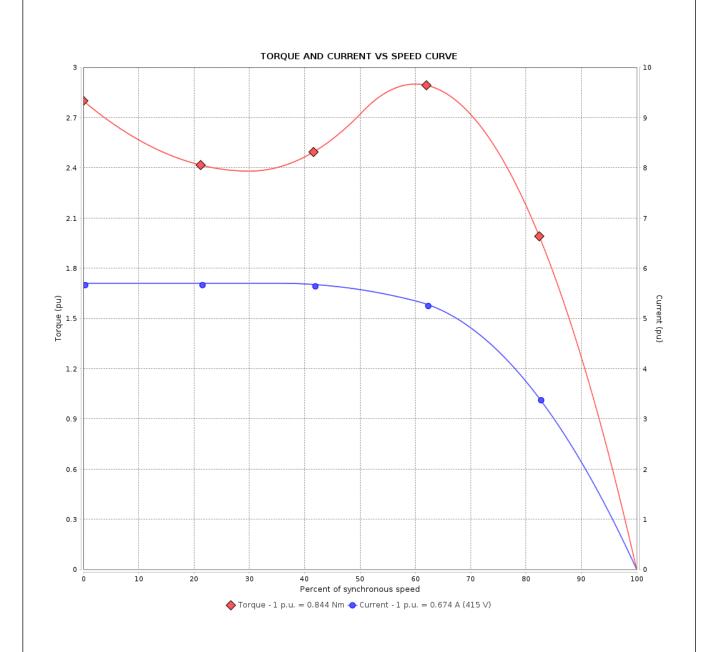
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance : 240/415 V 50 Hz 2P Rated current : 1.17/0.674 A Moment of inertia (J) : 0.0002 kgm² : S1 LRC : 5.7 Duty cycle : F : 0.844 Nm Insulation class Rated torque Locked rotor torque : 280 % Service factor : 1.00 : 290 % : 80 K Breakdown torque Temperature rise : N Rated speed : 2830 rpm Design

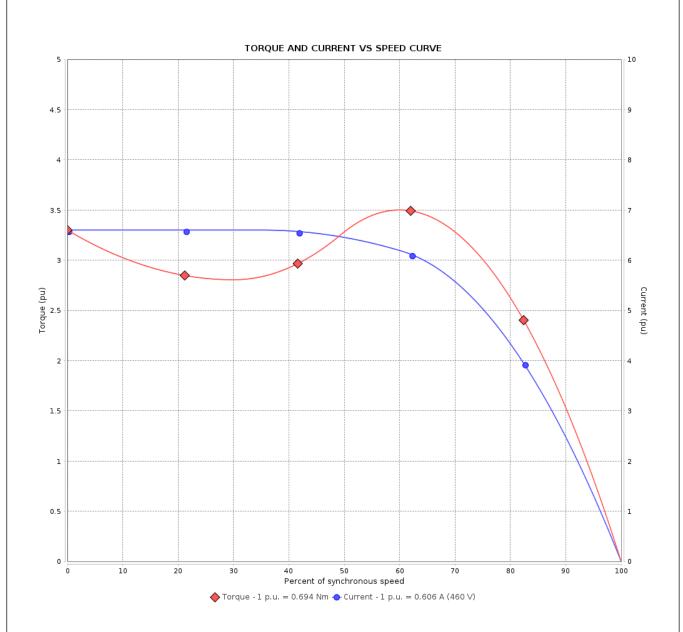
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Three Phase Induction Motor - Squirrel Cage



Customer	:				
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Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 460 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.606 A : 6.6 : 0.694 Nm : 330 % : 350 % : 3440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0002 kgm² : S1 : F : 1.00 : 80 K : N
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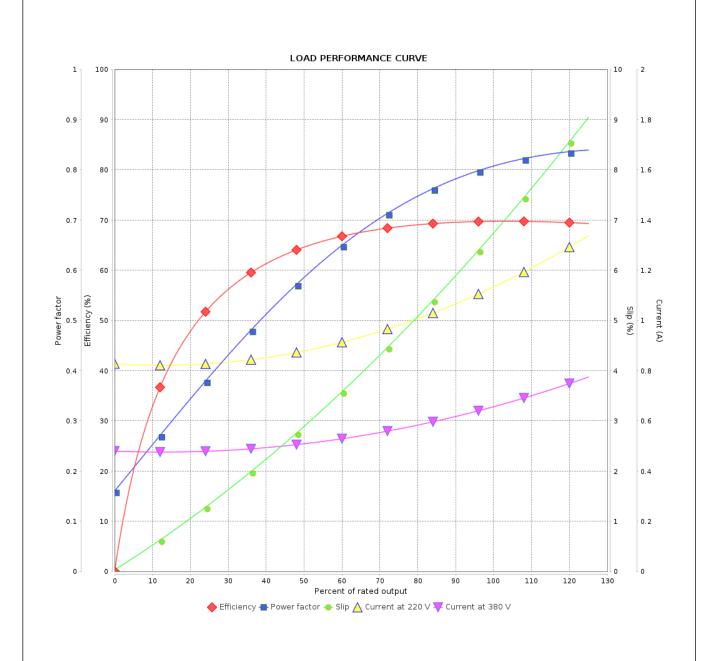
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Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



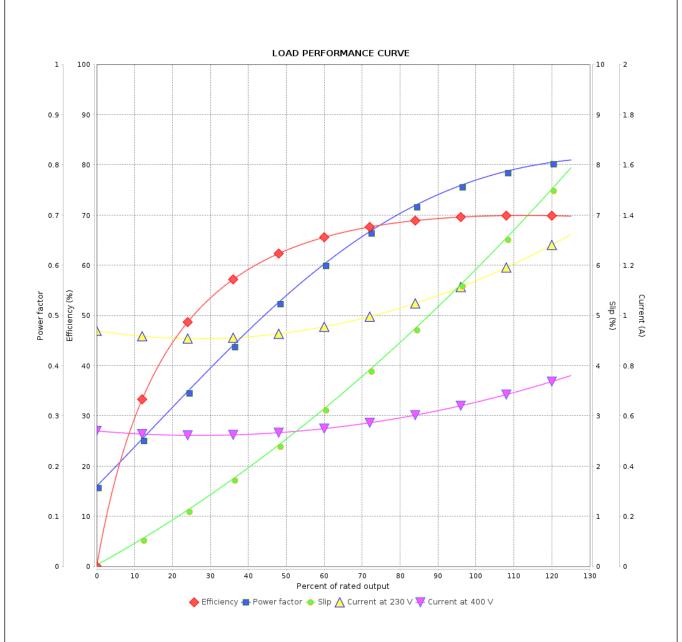
Performance	: 22	20/380 V 50 Hz 2P				
LRC : 8 Rated torque : 0		.16/0.673 A .3 .855 Nm 29 %	Duty cycle Insulation	Moment of inertia (J) Duty cycle Insulation class Service factor		2
Breakdown torque Rated speed	e : 24	40 % 795 rpm	Temperati Design	Temperature rise Design		
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 230/400 V 50 Hz 2P				
Rated current	: 1.17/0.672 A	Moment of	Moment of inertia (J) : 0.0002 kgm²		:
LRC	: 5.5	Duty cycle	• •	: S1	
Rated torque			class	: F	
Locked rotor torque	: 260 %	Service factor		: 1.00	
Breakdown torque	: 270 %	Temperature rise		: 80 K	
Rated speed	: 2820 rpm	Design		: N	
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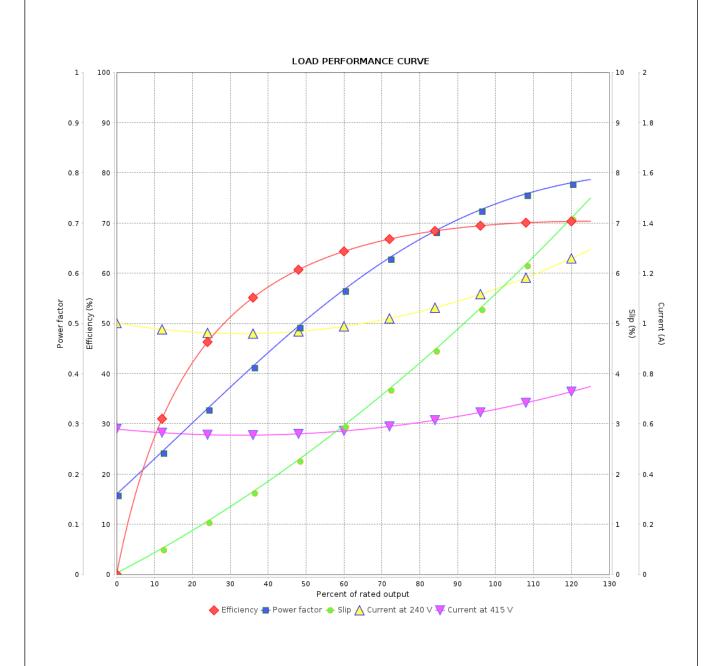
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



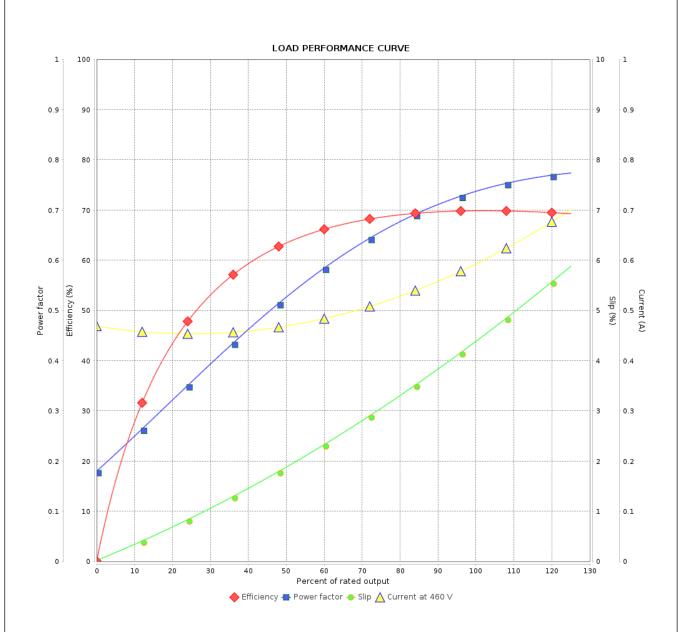
Performance	: 2	240/415 V 50 Hz 2P				
Rated current	: 1	1.17/0.674 A	Moment o	f inertia (J)	: 0.0002 kgm²	
LRC	: 5	5.7	Duty cycle	}	: S1	
Rated torque	: ().844 Nm	Insulation	class	: F	
Locked rotor torq	ue : 2	280 %	Service factor		: 1.00	
Breakdown torqu	ie : 2	290 %	Temperatu	Temperature rise		
Rated speed	: 2	30 rpm Design		: N		
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Product line : W22 IE3 Three-Phase Product code: 12862424



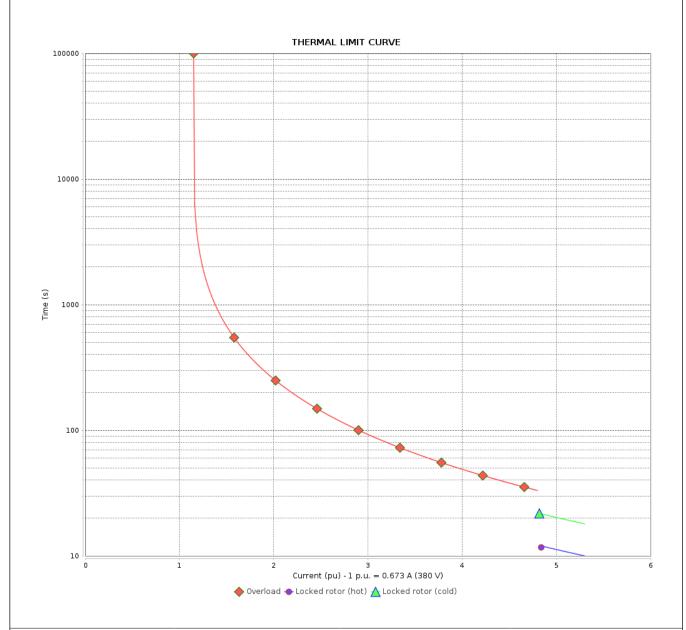
Performance	: 4	60 V 60 Hz 2P				
Rated current	: 0	.606 A	Moment of	of inertia (J)	: 0.0002 kgm	2
LRC	: 6	5.6	Duty cycle	е	: S1	
Rated torque	: 0	.694 Nm	Insulation	class	: F	
Locked rotor tord	que : 3	30 %	Service fa	Service factor		
Breakdown torqu	ie : 3	50 %	Temperature rise Design		: 80 K : N	
Rated speed	: 3	440 rpm				
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Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance : 220/380 V 50 Hz 2P : 1.16/0.673 A Moment of inertia (J) : 0.0002 kgm² Rated current **LRC** : 5.3 Duty cycle : S1 : 0.855 Nm Insulation class : F Rated torque : 1.00 Locked rotor torque : 229 % Service factor : 240 % Breakdown torque : 80 K Temperature rise Rated speed : 2795 rpm Design : N Heating constant Cooling constant

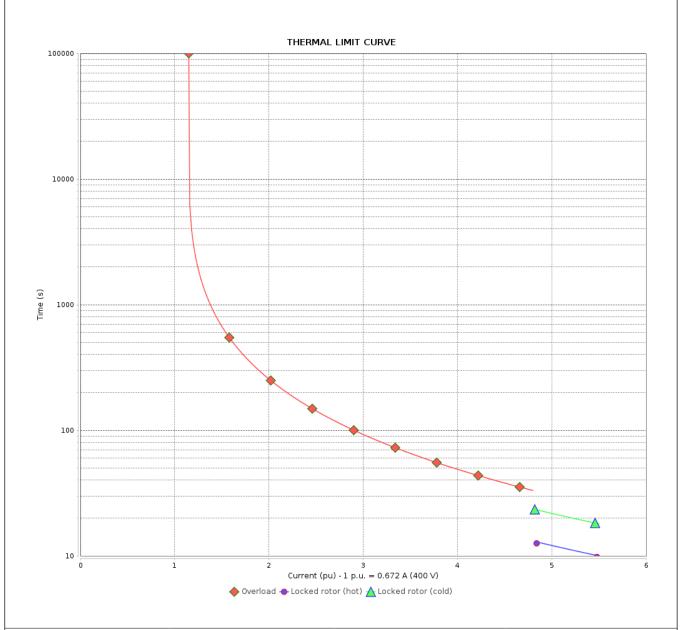
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Customer	

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance : 230/400 V 50 Hz 2P Rated current : 1.17/0.672 A Moment of inertia (J) : 0.0002 kgm² **LRC** Duty cycle : S1 : 5.5 : 0.847 Nm Insulation class : F Rated torque : 260 % : 1.00 Locked rotor torque Service factor : 270 % : 80 K Breakdown torque Temperature rise Rated speed : 2820 rpm Design : N Heating constant Cooling constant

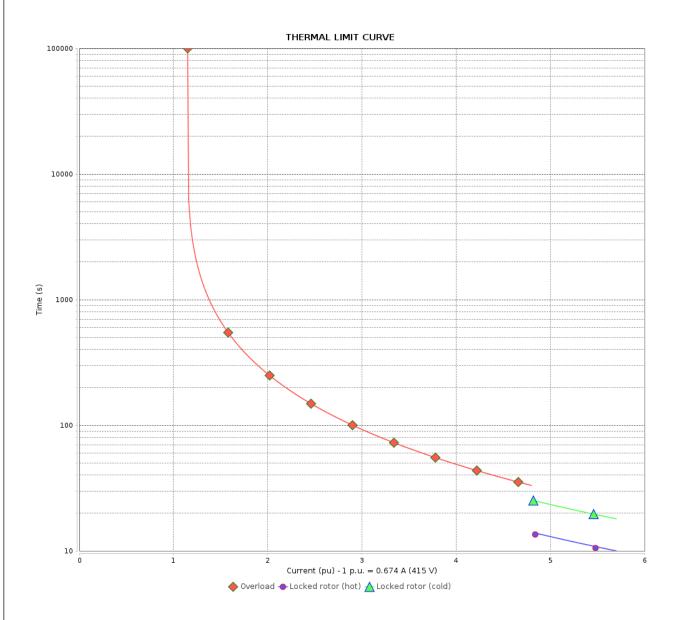
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Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance : 240/415 V 50 Hz 2P : 1.17/0.674 A Moment of inertia (J) : 0.0002 kgm² Rated current **LRC** Duty cycle : S1 : 5.7 Insulation class : F Rated torque : 0.844 Nm Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 290 % : 80 K Temperature rise Rated speed : 2830 rpm Design : N Heating constant Cooling constant

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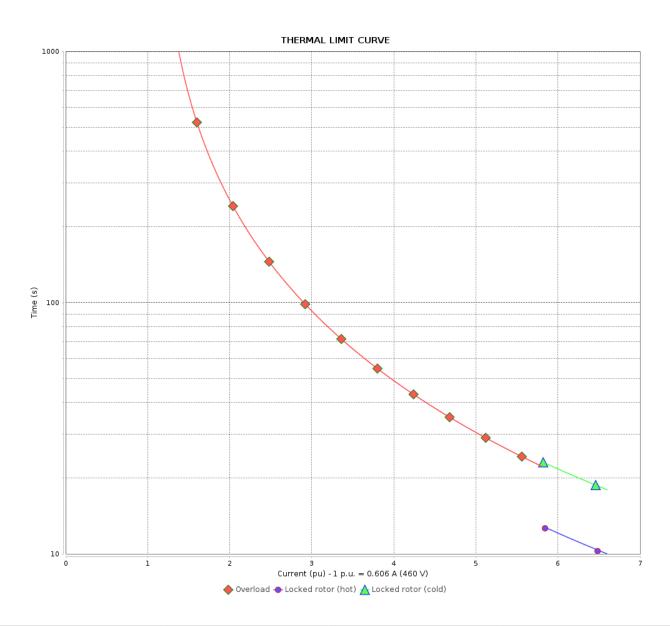
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Three Phase Induction Motor - Squirrel Cage



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Product line : W22 IE3 Three-Phase Product code : 12862424



Performance : 460 V 60 Hz 2P Rated current : 0.606 A Moment of inertia (J) : 0.0002 kgm² **LRC** Duty cycle : S1 : 6.6 Insulation class : 0.694 Nm : F Rated torque : 330 % : 1.00 Locked rotor torque Service factor : 350 % : 80 K Breakdown torque Temperature rise Design Rated speed : 3440 rpm Heating constant Cooling constant

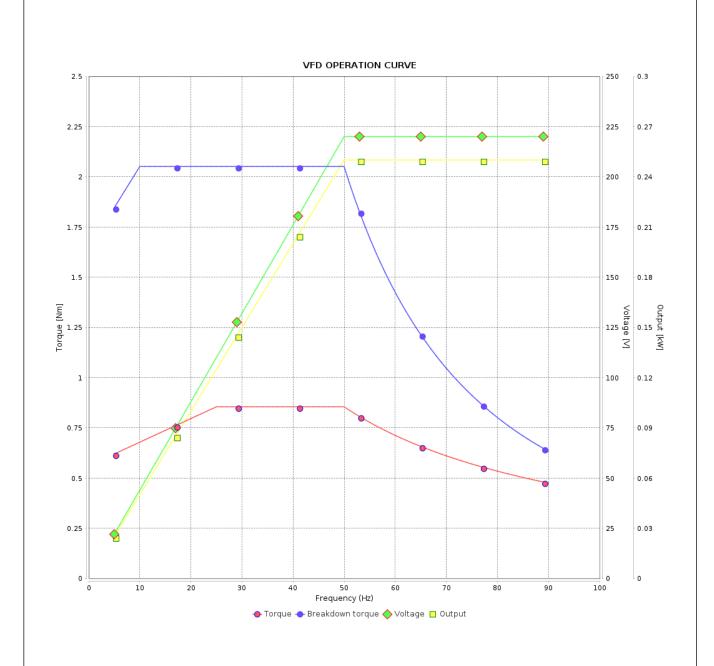
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance		: 220/380 V 50 Hz 2P				
Rated current : 1.16/0.673 A Moment of LRC : 5.3 Duty cycle Rated torque : 0.855 Nm Insulation Locked rotor torque : 229 % Service far Breakdown torque : 240 % Temperature Rated speed : 2795 rpm Design		n class : F actor : 1.00		2		
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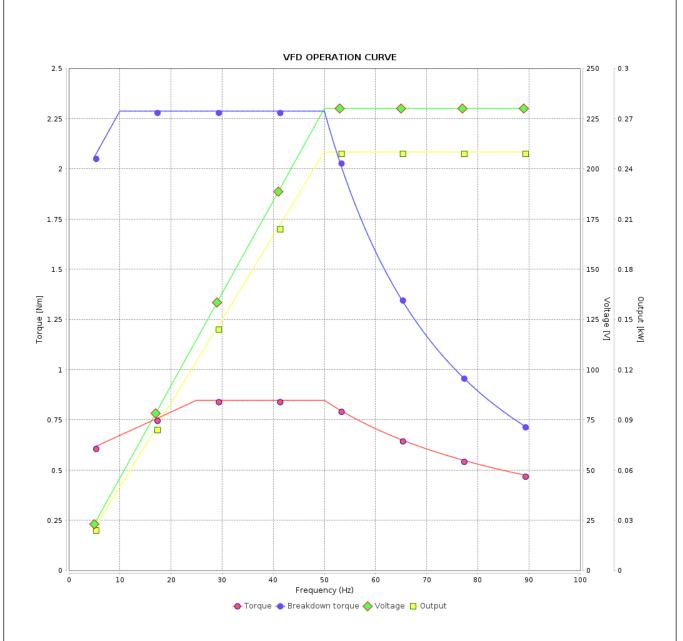
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Customer :

Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 2	: 230/400 V 50 Hz 2P				
Rated current	: 1	.17/0.672 A	0.672 A Moment of inertia (J)		: 0.0002 kgm²	
LRC	: 5	.5	Duty cycle)	: S1	
Rated torque	: 0	.847 Nm	Insulation	Insulation class		
Locked rotor tord	que : 20	60 %	Service fa	Service factor		
Breakdown torqu	ue : 2°	70 %	Temperati	Temperature rise		
Rated speed	: 2	820 rpm	Design	Design		
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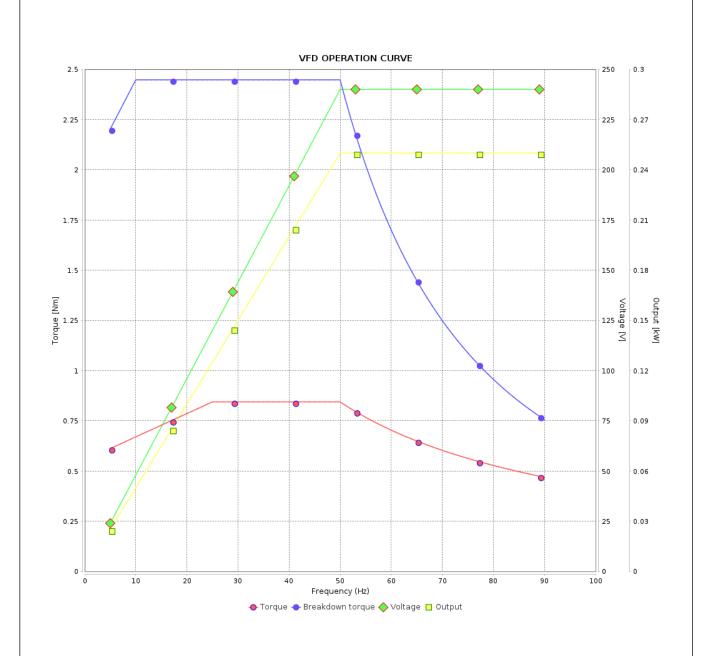
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Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 240/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque	: 1.17/0.674 A		class	: 0.0002 kgm² : S1 : F : 1.00	
Breakdown torque Rated speed	: 290 % : 2830 rpm	Temperati Design	ure rise	: 80 K : N	
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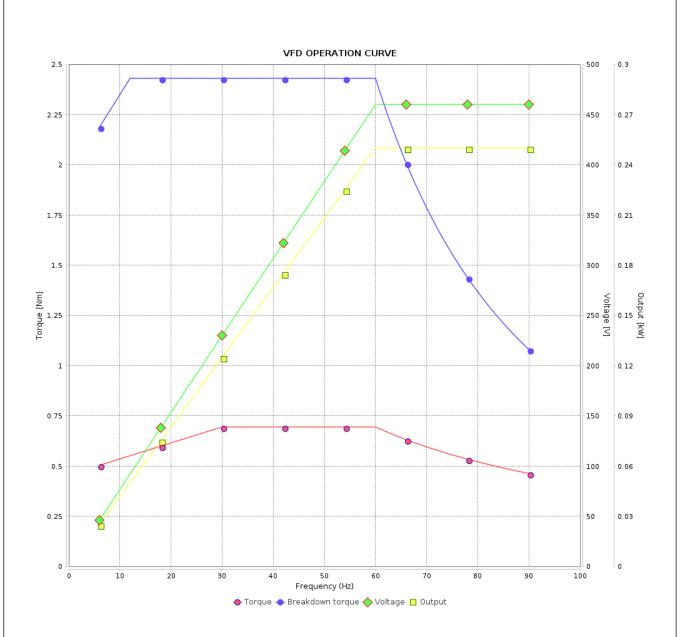
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Product line : W22 IE3 Three-Phase Product code : 12862424



Performance	: 460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.606 A : 6.6 : 0.694 Nm : 330 % : 350 % : 3440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0002 kgm² : S1 : F : 1.00 : 80 K : N		
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