

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : IE3 Three-Phase			Product code : 13760791			
Frame	: 63		Locked rotor time	: 39s (cold) 22s (hot)		
Output	: 0.12 kW (0.16 HP)		Temperature rise	: 80 K		
Poles	: 2		Duty cycle	: S1		
Frequency	: 50 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 220/380 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 0.696/0.403 A		Protection degree	: IP55		
L. R. Amperes	: 4.52/2.62 A		Cooling method	: IC411 - TEFC		
LRC	: 6.5		Mounting	: B3T		
No load current	: 0.553/0.320 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 2865 rpm		Noise level ²	: 52.0 dB(A)		
Slip	: 4.50 %		Starting method	: Direct On Line		
Rated torque	: 0.041 kgfm		Approx. weight ³	: 6.7 kg		
Locked rotor torque	: 430 %					
Breakdown torque	: 445 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 0.0002 kgm ²					
Design	: N					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	56.9	62.9	65.6	Max. traction : 5 kgf	
Power Factor	0.00	0.47	0.59	0.69	Max. compression : 12 kgf	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6201 ZZ			6201 ZZ	
Sealing	:	V'Ring			V'Ring	
Lubrication interval	:	0 h			0 h	
Lubricant amount	:	0 g			0 g	
Lubricant type	:	Mobil Polyrex EM				
Notes						
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (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.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.			
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Thermal protection

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

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TORQUE AND CURRENT VS SPEED CURVE

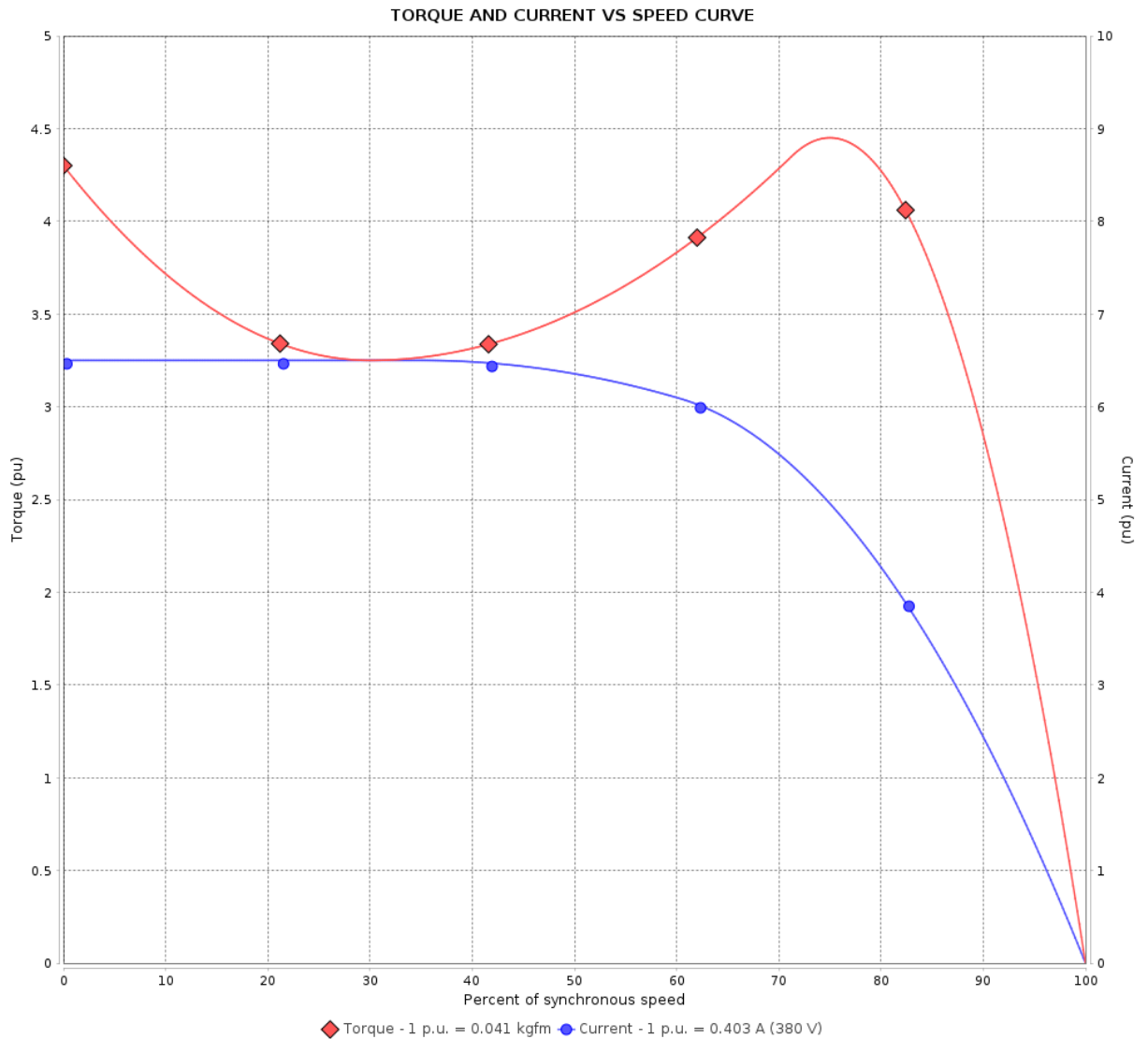
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : IE3 Three-Phase

Product code : 13760791



Performance : 220/380 V 50 Hz 2P

Rated current	: 0.696/0.403 A	Moment of inertia (J)	: 0.0002 kgm ²
LRC	: 6.5	Duty cycle	: S1
Rated torque	: 0.041 kgfm	Insulation class	: F
Locked rotor torque	: 430 %	Service factor	: 1.00
Breakdown torque	: 445 %	Temperature rise	: 80 K
Rated speed	: 2865 rpm	Design	: N

Locked rotor time : 39s (cold) 22s (hot)

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LOAD PERFORMANCE CURVE

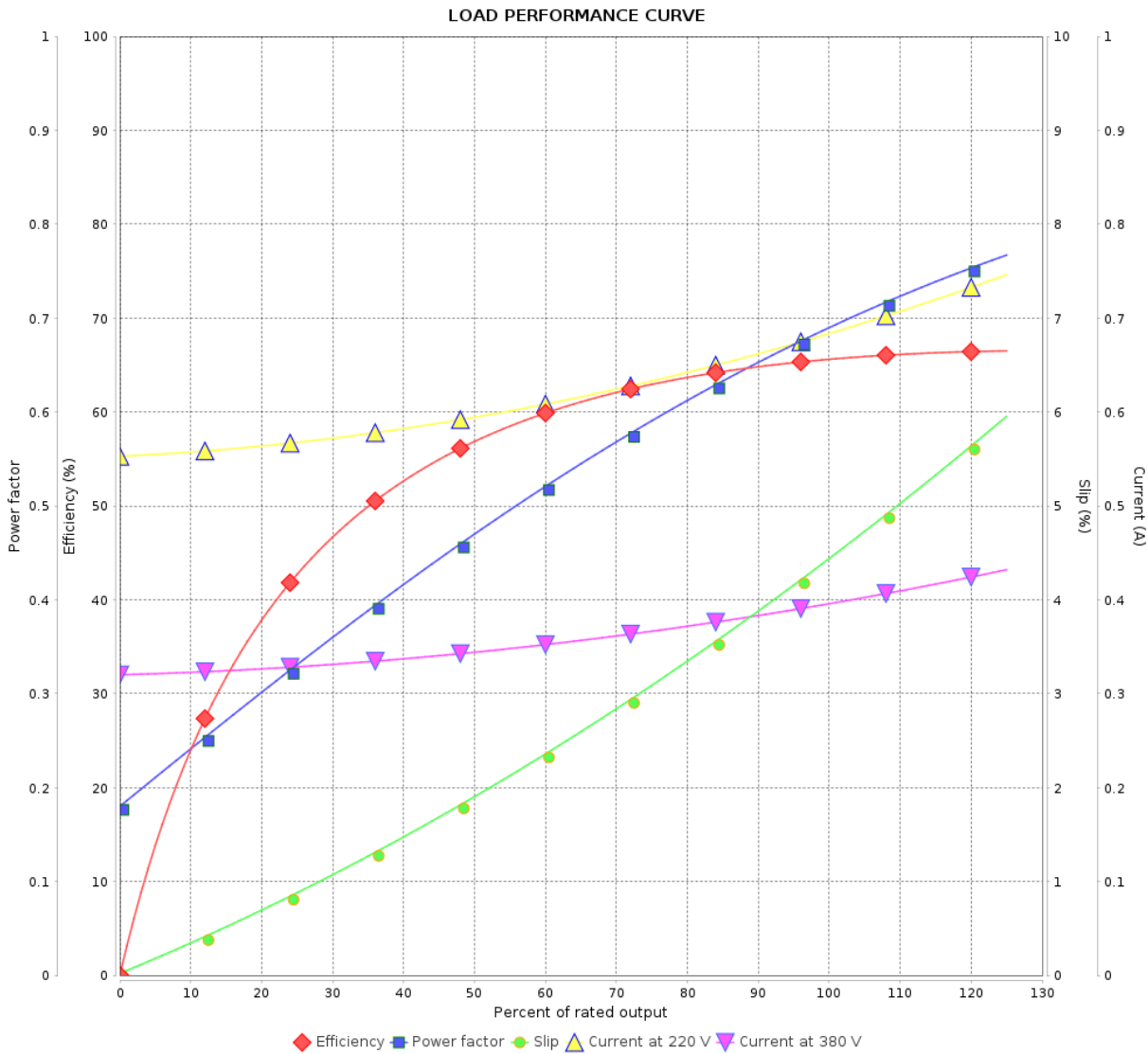
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Performance : 220/380 V 50 Hz 2P

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 LRC : 6.5
 Rated torque : 0.041 kgfm
 Locked rotor torque : 430 %
 Breakdown torque : 445 %
 Rated speed : 2865 rpm

Moment of inertia (J) : 0.0002 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

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THERMAL LIMIT CURVE

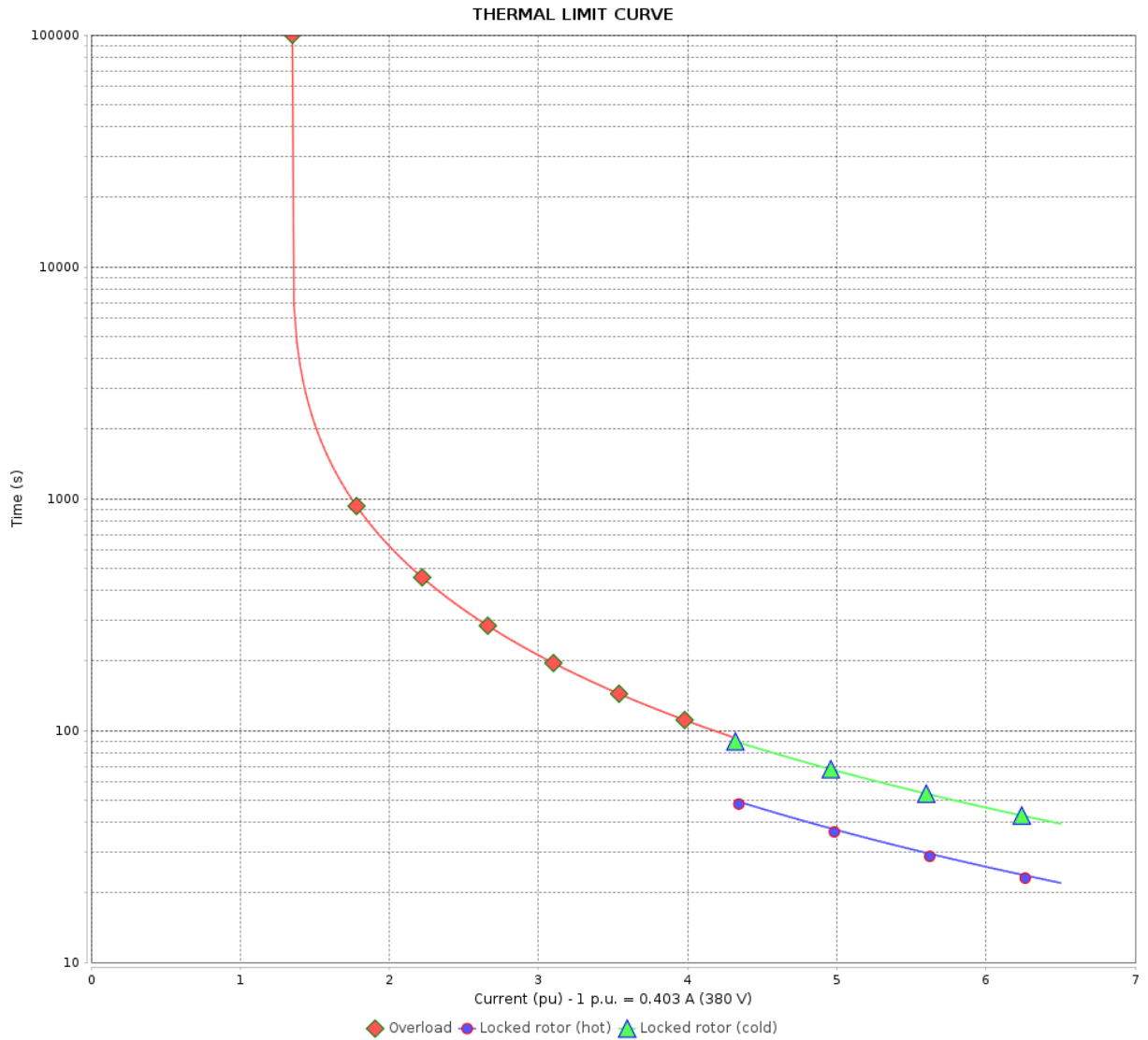
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 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : N

Heating constant

Cooling constant

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VFD OPERATION CURVE

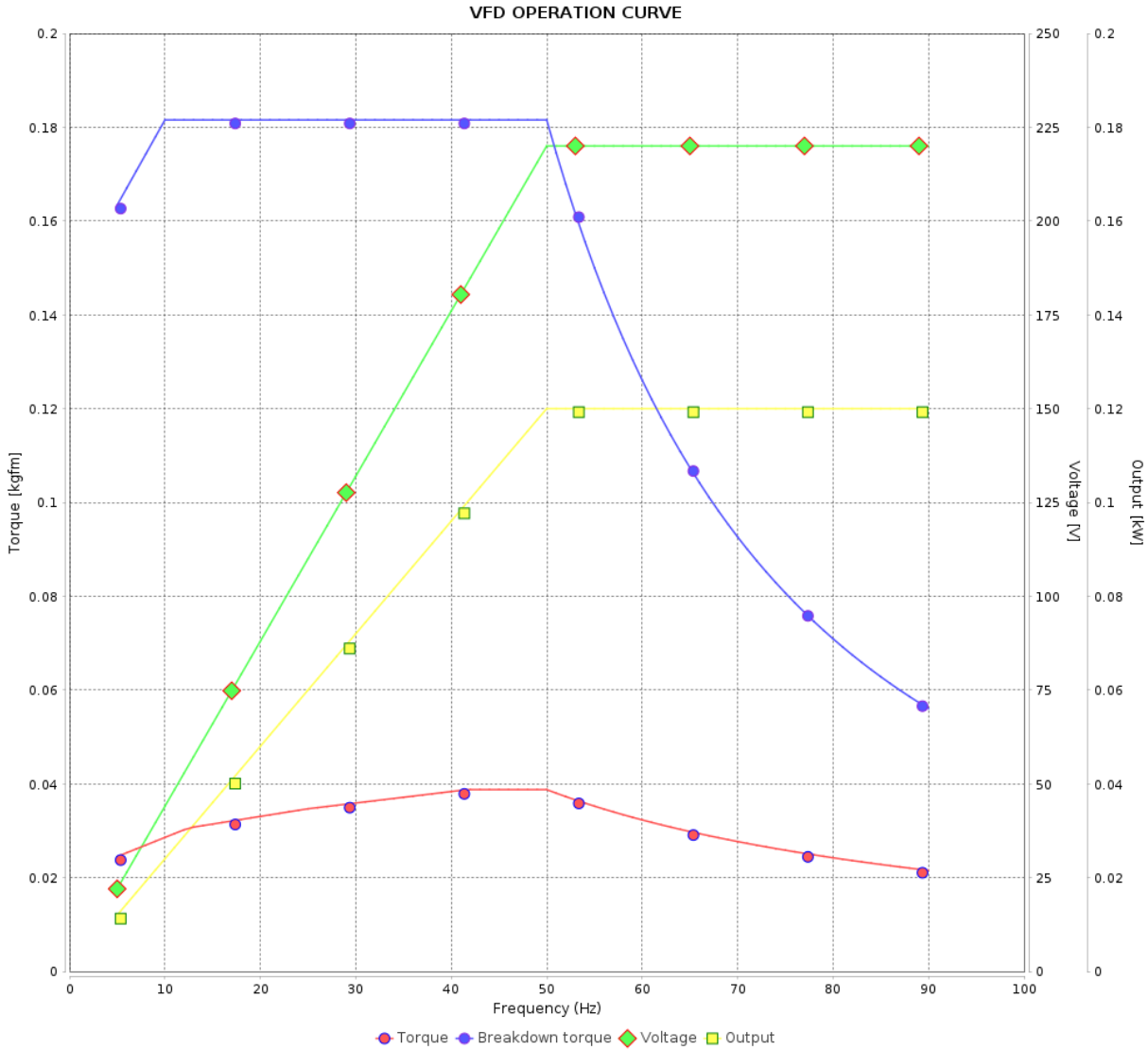
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Moment of inertia (J) : 0.0002 kgm²
 Duty cycle : S1
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
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