



### General characteristics

Rated voltage	V	600...690
Operating voltage range		340...759
Rated frequency	Hz	50/60
Operating frequency range	Hz	45...65
Rated current (I <sub>e</sub> )	A	96
Step power at		
	400VAC	kvar 100
	440VAC	kvar 73
	480VAC	kvar 80
	525VAC	kvar 87
	600VAC	kvar 100
	690VAC	kvar 100
Peak inverse voltage (PIV)	VAC	3600
Number of controlled phases	Nr.	2

Control circuit		12-24VDC input or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012)
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### Auxiliary supply

Rated auxiliary supply voltage U <sub>s</sub>			
AC			
	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency		Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8

### Control input

Terminals	CONTROL +/-
Rated voltage	12-24VDC
Operating range	8...30VDC

### Digital inputs

Terminals	C-IN1
Applied voltage at contact (internal)	5VDC
Input current	mA ≤10
Low input signal	VDC ≤0.8
High input signal	VDC ≥3.2
Input signal delay	ms ≥50

### NTC probe input

Terminals	NTC-NTC
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Sensor type			NTC (ordering code NTC01)
Measuring range		°C	-25...+85
Maximum connection length		mt	3
<b>Fan power supply</b>			
Terminals			FAN +/-
Supply voltage (internal)			5VDC (provided by DCTL)
Fan type			2 built-in fans type EXP8004
<b>Relay outputs</b>			
Number of relay output		Nr.	1
Contact arrangement			1 C/O-SPDT
Rated current			NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC
UL/CSA and IEC/EN 60947-5-1 designation			D300
Maximum switching voltage		VAC	250
Electrical life (with rated load)		cycles	NO contact: 10x10 <sup>3</sup> NC contact: 20x10 <sup>3</sup>
Mechanical life		cycles	10 <sup>7</sup>
<b>Insulations</b>			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
<b>Connections - power terminals</b>			
Type of terminal			Bars - 25x5mm, hole diam. 11mm
Conductor cross section			
	Max	mm <sup>2</sup>	50
			1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02)
	Max	AWG	
Tightening torque (Max)			
		Nm	35Nm (42Nm for EXA01 lugs)
		lbin/lbft	309 in-lbs (375 in-lbs for EXA01 lugs)
<b>Connections - relay output</b>			
Type of terminal			Screw
Conductor cross section			
	min	mm <sup>2</sup>	0.2
	Max	mm <sup>2</sup>	4
	min	AWG	26
	Max	AWG	10

Tightening torque (Max)

Nm	0.8
lbin	7

Connections - fan and digital input

Type of terminal Screw

Conductor cross section

min	mm <sup>2</sup>	0.2
Max	mm <sup>2</sup>	2.5
min	AWG	24
Max	AWG	12

Tightening torque (Max)

Nm	0.44
lbin	4

Ambient conditions

Temperature

Operating temperature

min	°C	-20
max	°C	+45°C without derating (up to 55°C with derating)

Storage temperature

min	°C	-30
max	°C	+80

Relative humidity

% <80%

Maximum Pollution degree

2

Overvoltage category

III

Max altitude

m 2000m without derating

Climatic sequence

Z/ABDM (IEC/EN 60068-2-61)

Shock resistance

15g (IEC/EN 60068-2-27)

Vibration resistance

0.7g (IEC/EN 60068-2-6)

Housing

Execution

Internal panel version

Material

Polycarbonate

Degree of protection

IP00

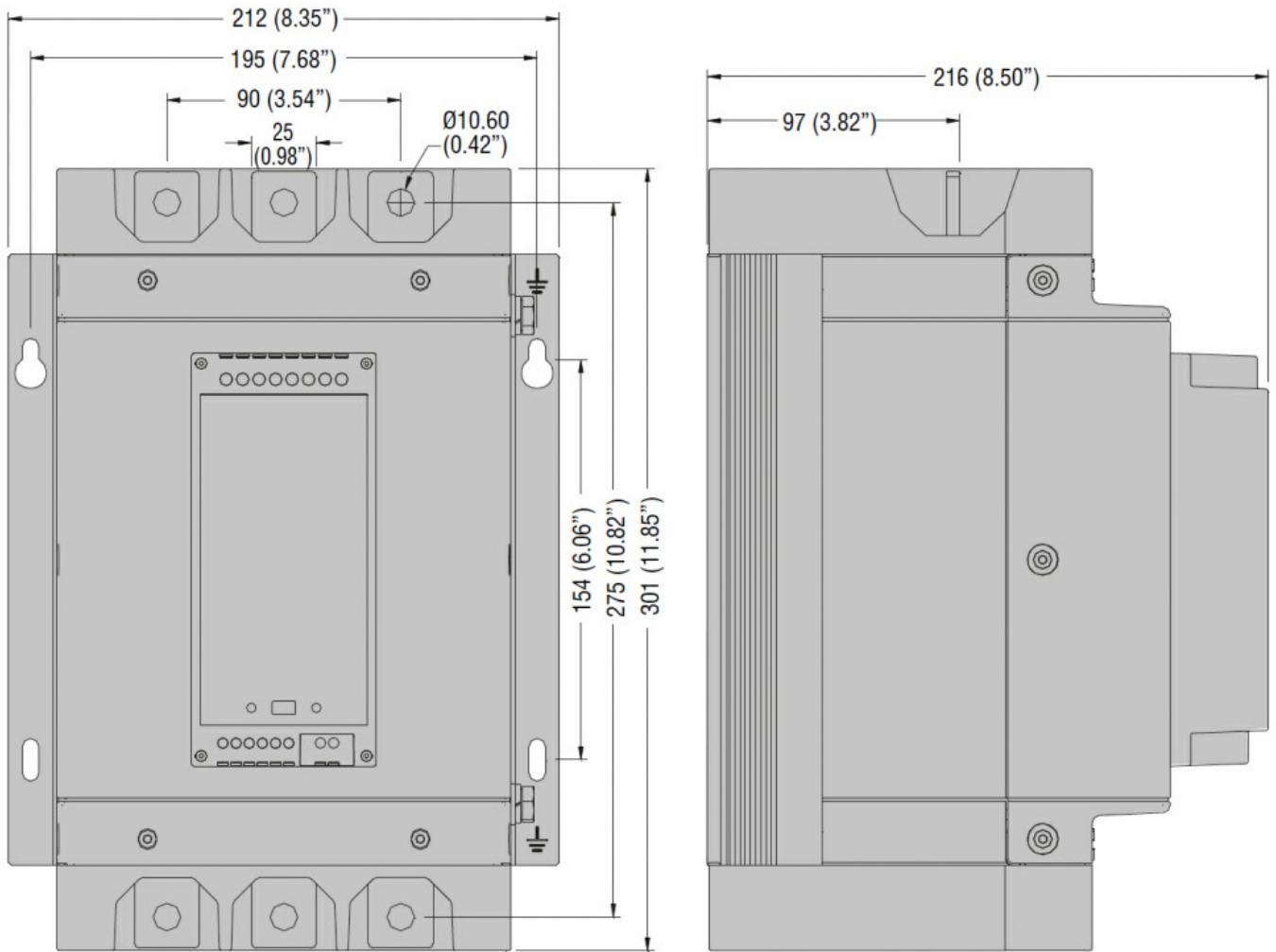
Dimensions (W x H x D)

mm 212 x 301 x 216 (with EXA01 lugs and EXA02 terminals protection: 212 x 468 x 216)

Weight

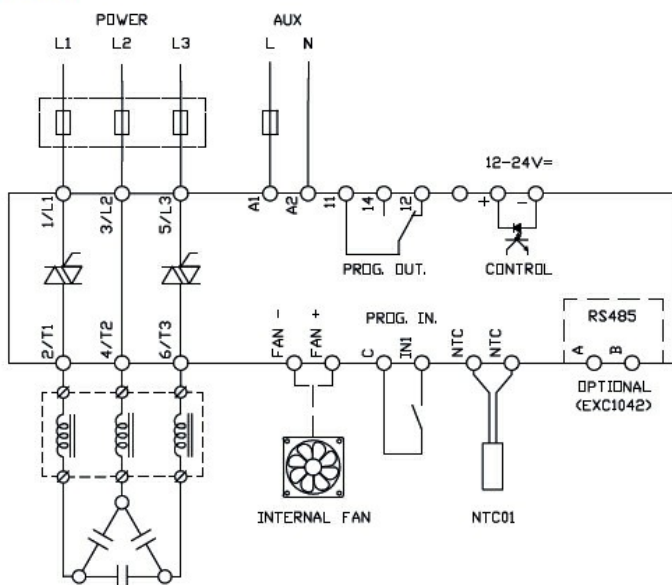
g 6680

Dimensions



**Wiring diagrams**

**DCTL**



**Certifications and compliance**

**Compliance**

IEC/EN 60947-4-3  
IEC/EN 61000-6-2

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IEC/EN 61000-6-4

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Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -  
Solid state relay