



General characteristics			
Rated voltage	V	400...480	
Operating voltage range		340...528	
Rated frequency	Hz	50/60	
Operating frequency range	Hz	45...65	
Rated current (I <sub>e</sub> )	A	144	
Step power at		400VAC	kvar 100
		440VAC	kvar 110
		480VAC	kvar 120
Peak inverse voltage (PIV)	VAC	2200	
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)	
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	
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	480
Rated impulse withstand voltage Uimp		kV	4
<b>Connections - power terminals</b>			
Type of terminal			Bars - 25x5mm, hole diam. 11mm
Conductor cross section			
	Max	mm <sup>2</sup>	50
	Max	AWG	1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02)
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

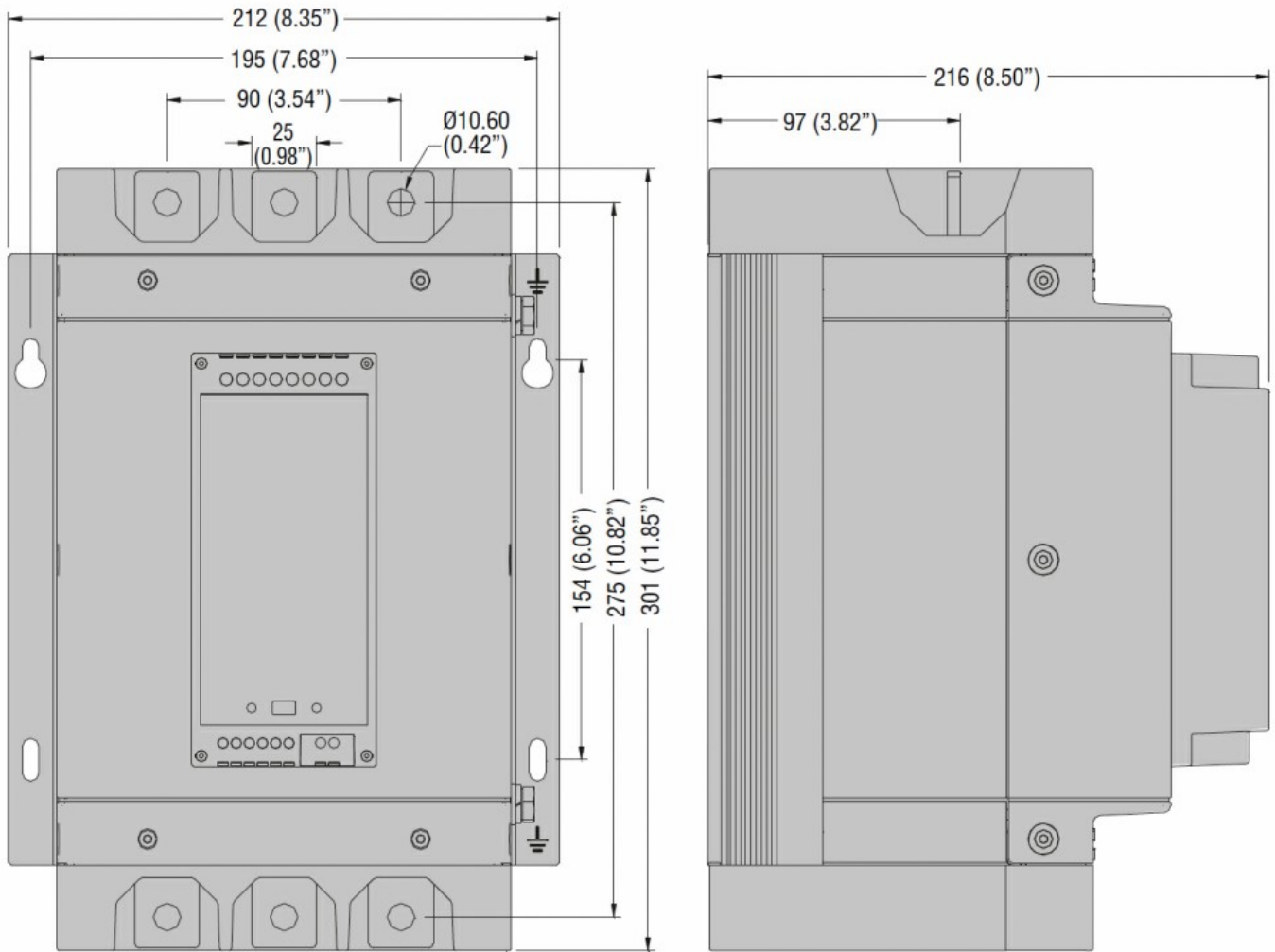
Temperature	Operating temperature		
	min	°C	-20
	max	°C	+45°C without derating (up to 55°C with derating)
	Storage temperature		
	min	°C	-30
	max	°C	+80

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

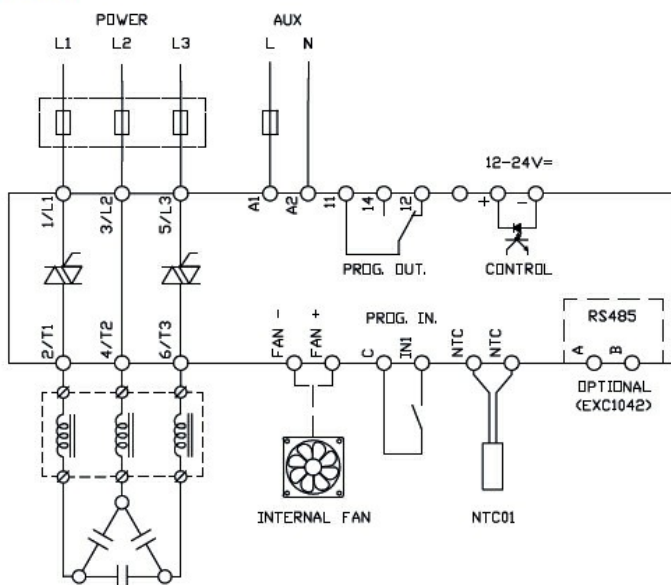
Execution	Internal panel version			
Material	Polycarbonate			
Degree of protection	IP00			
Dimensions (W x H x D)			mm	212 x 301 x 216 (with EXA01 lugs and EXA02 terminals protection: 212 x 468 x 216)
Weight			g	6680

### 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