



General characteristics

Rated voltage	V	400
Operating voltage range		340...440
Rated frequency	Hz	50/60
Operating frequency range	Hz	45...65
Rated current (Ie)	A	144
Step power at	400VAC	kvar 100
Peak inverse voltage (PIV)	VAC	1800
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_s
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 lenght	mt 3

Fan power supply

Terminals			FAN +/-
Supply voltage (internal)			5VDC (provided by DCTL)
Fan type			2 built-in fans type EXP8004
Relay outputs			
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 ³ NC contact: 20x10 ³	
Mechanical life	cycles	10 ⁷	
Insulations			
Rated insulation voltage Ui IEC/EN	V	480	
Rated impulse withstand voltage Uimp	kV	4	
Connections - power terminals			
Type of terminal	Bars - 25x5mm, hole diam. 11mm		
Conductor cross section	Max	mm ²	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)
Connections - relay output			
Type of terminal	Screw		
Conductor cross section	min	mm ²	0.2
	Max	mm ²	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 ²	0.2
Max	mm ²	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

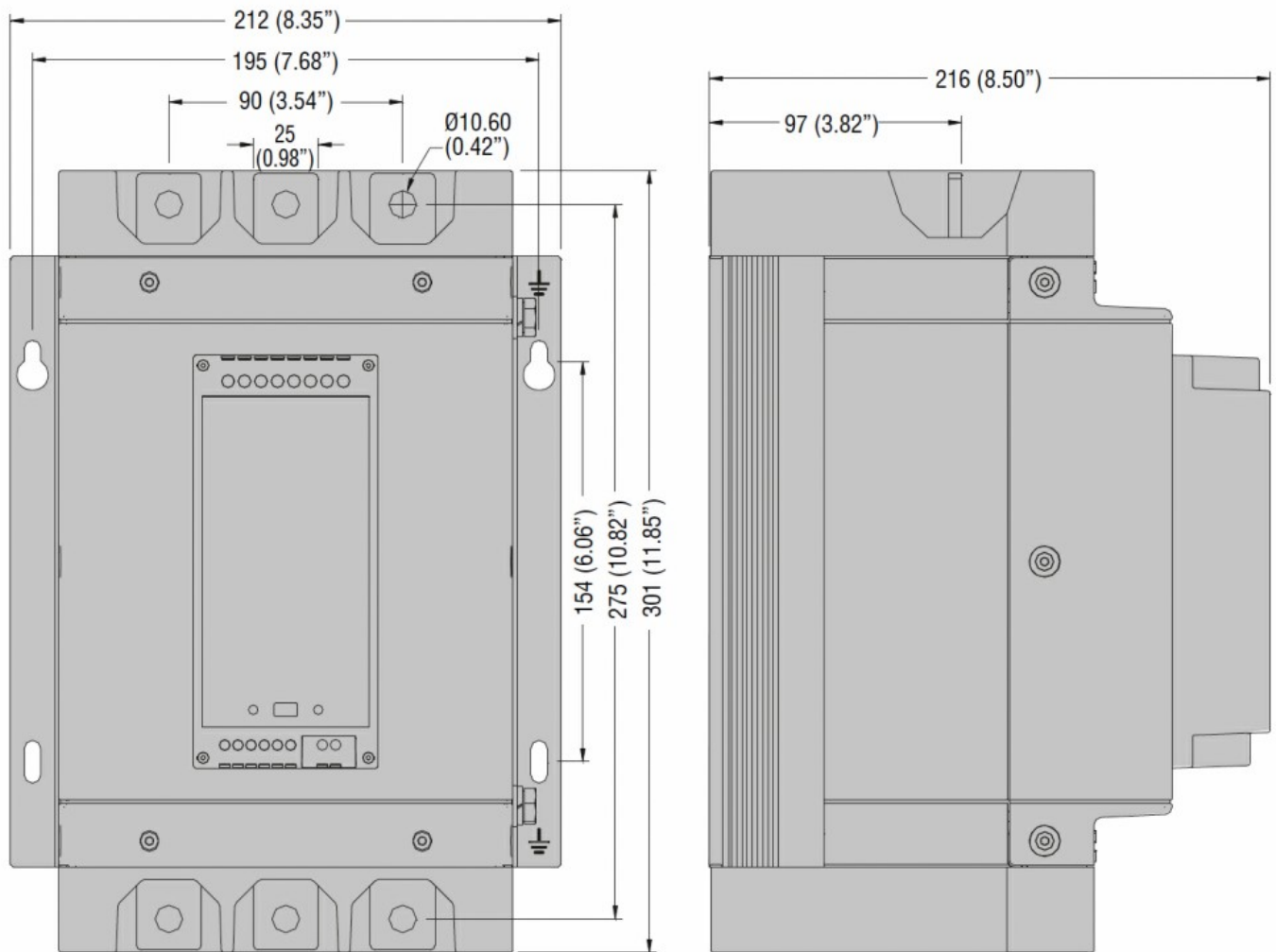
Dimensions (W x H x D)

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

Weight

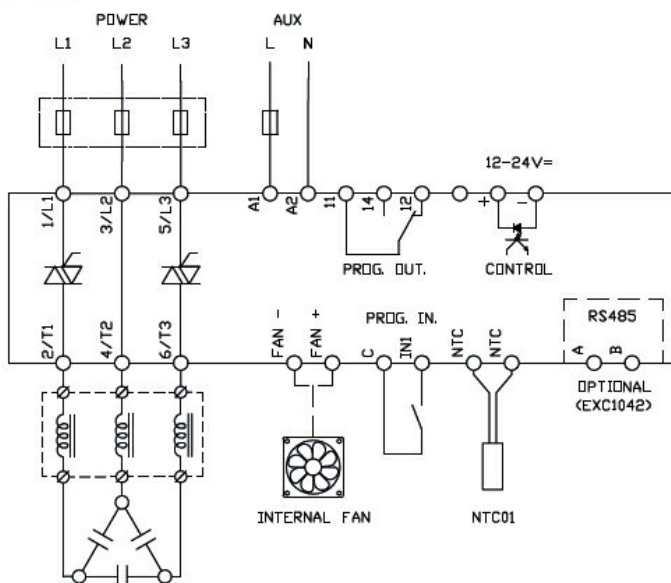
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Dimensions



Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4

Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -
Solid state relay