



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	43
Step power at	400VAC	kvar 30
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 Us
AC

	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency	Hz		50/60
Power consumption Max	VA		11.8
Power dissipation Max	W		4.6

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			1 built-in fan 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	Fixed - double lock clamp		
Conductor cross section	min	mm ²	2 x 2.5
	Max	mm ²	2 x 35
	min	AWG	2 x 18
	Max	AWG	2 x 2
Tightening torque (Max)		Nm	4-5
		lbin/lbft	2.95-3.69 lbft
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

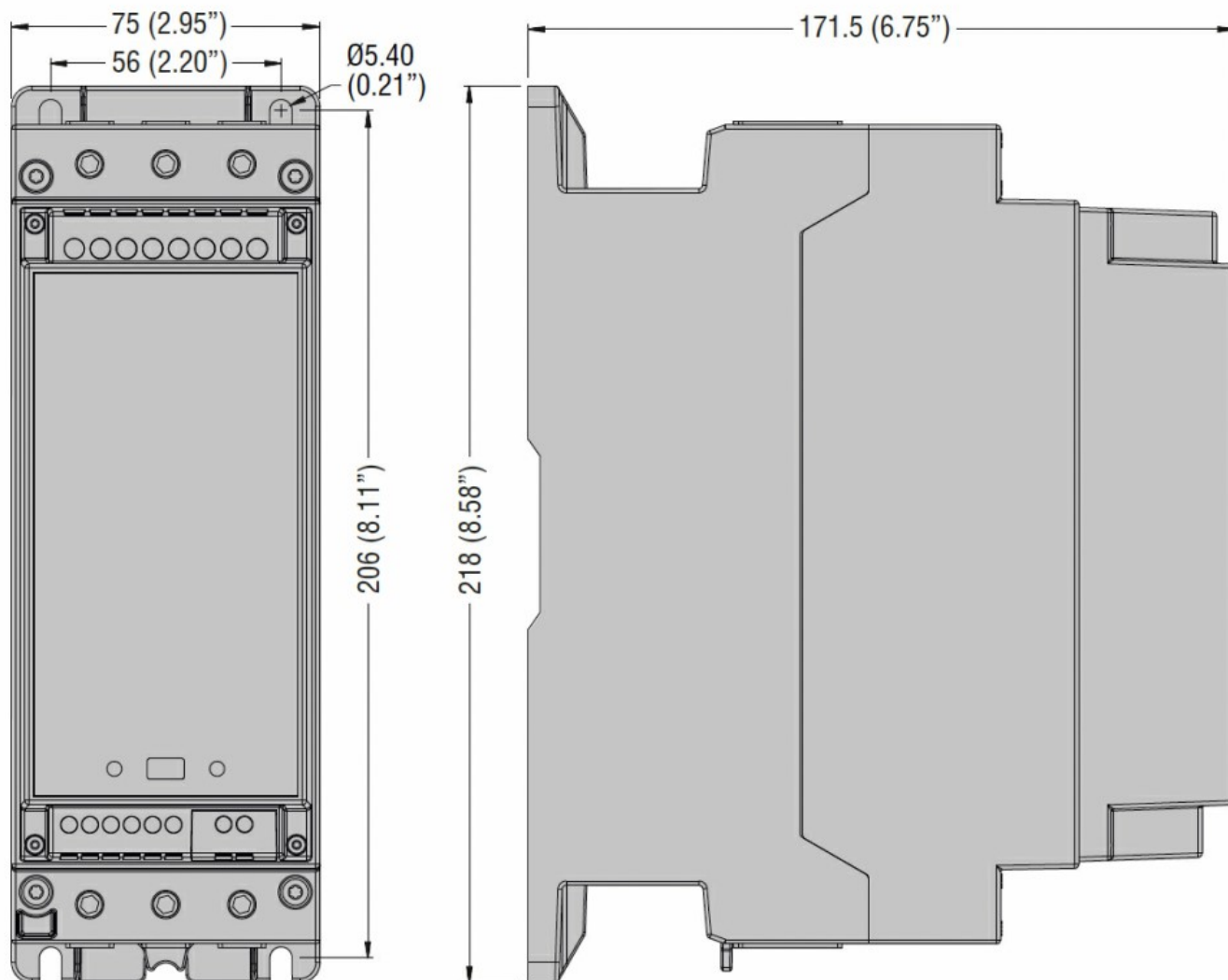
min	°C	-30
max	°C	+80

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

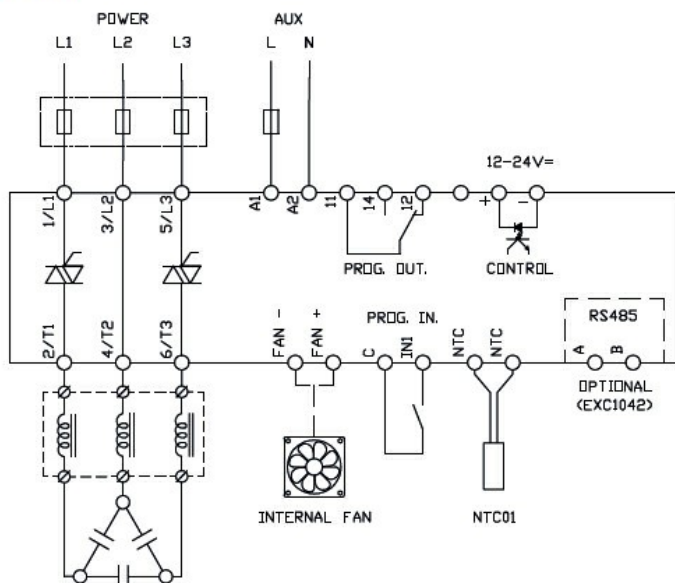
Execution		Internal panel version
Material		Polycarbonate
Mounting		Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003
Degree of protection		IP00
Dimensions (W x H x D)	mm	75 x 218 x 171.5
Weight	g	1740

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