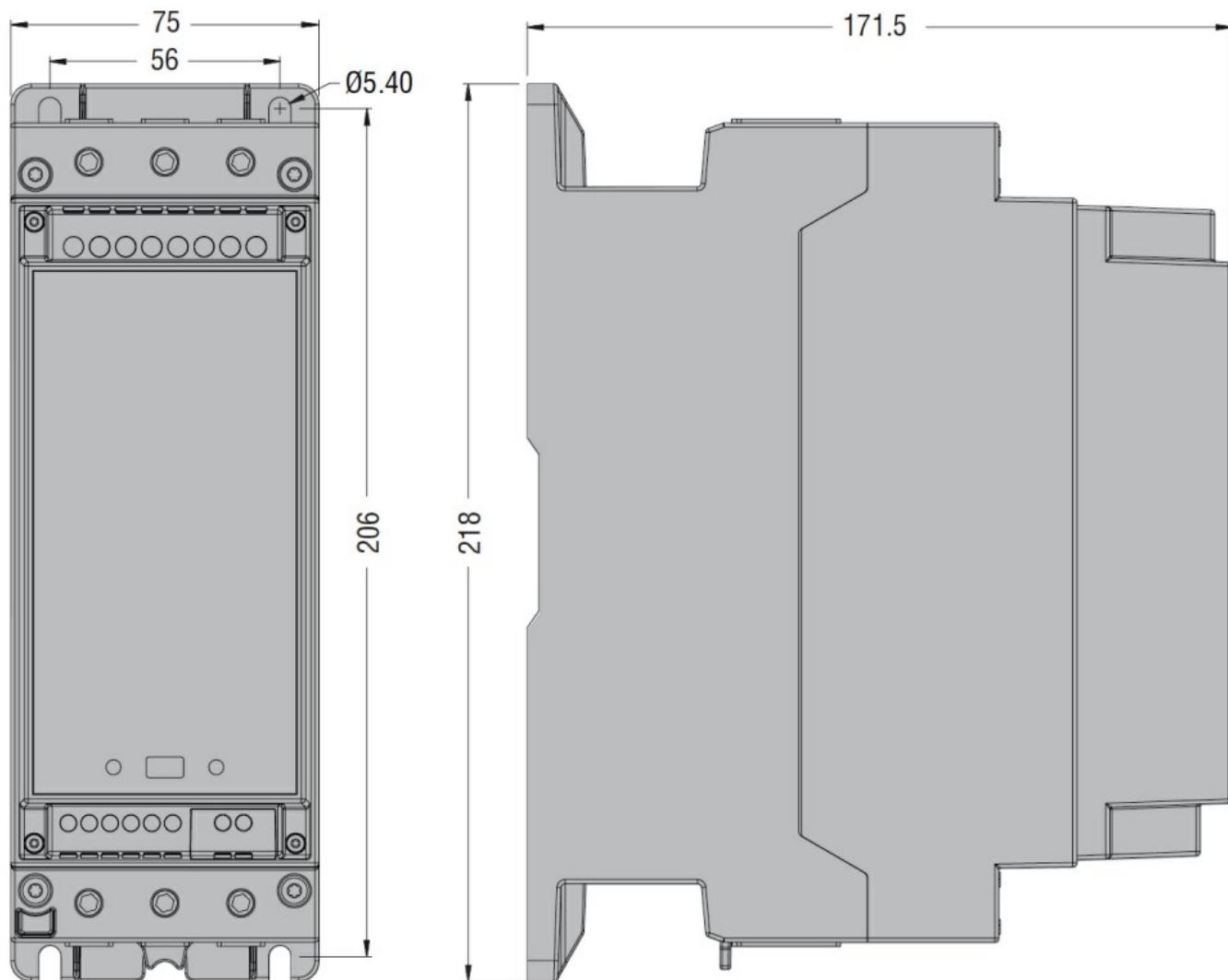




Product designation	Thyristor modules DCTL		
Product type designation	DCTL		
General characteristics			
Rated voltage	V	400	
Operating voltage range	VAC	340...440	
Rated frequency	Hz	50/60	
Operating frequency range	Hz	45...65	
Rated current (Ie)	A	11	
Step power at	400VAC	kvar	7.5
Peak inverse voltage (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)		

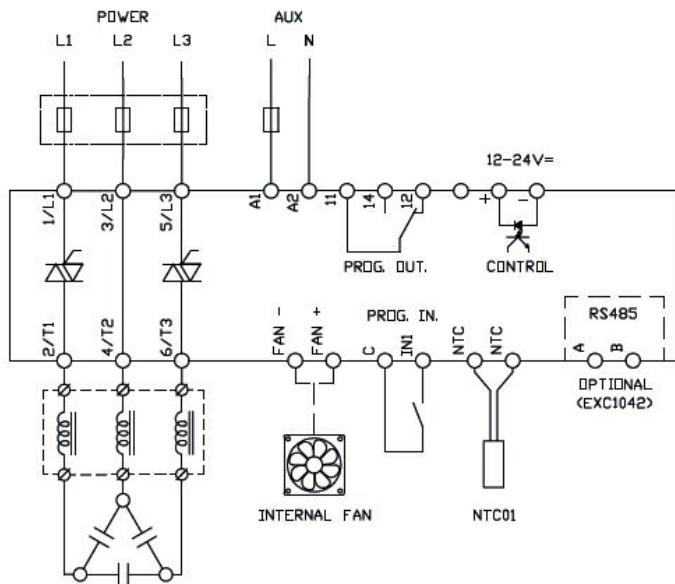
Measuring range	°C	-25...+85
Maximum connection lenght	mt	3
Fan power supply		FAN +/-
Terminals		5VDC (provided by DCTL)
Supply voltage (internal)		1 built-in fan type EXP8004
Relay outputs		
Number of relay output	Nr.	1
Contact arrangement		1 C/O-SPDT
		NO contact: AC1 5A 250VAC / 5A 30VDC NC
Rated current		contact: AC1 3A 250VAC / 3A 30VDC
UL/CSA and IEC/EN 60947-5-1 designation		D300
Maximum switching voltage	VAC	250
		NO contact: 10x10 ³ NC
Electrical life (with rated load)	cycles	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	+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