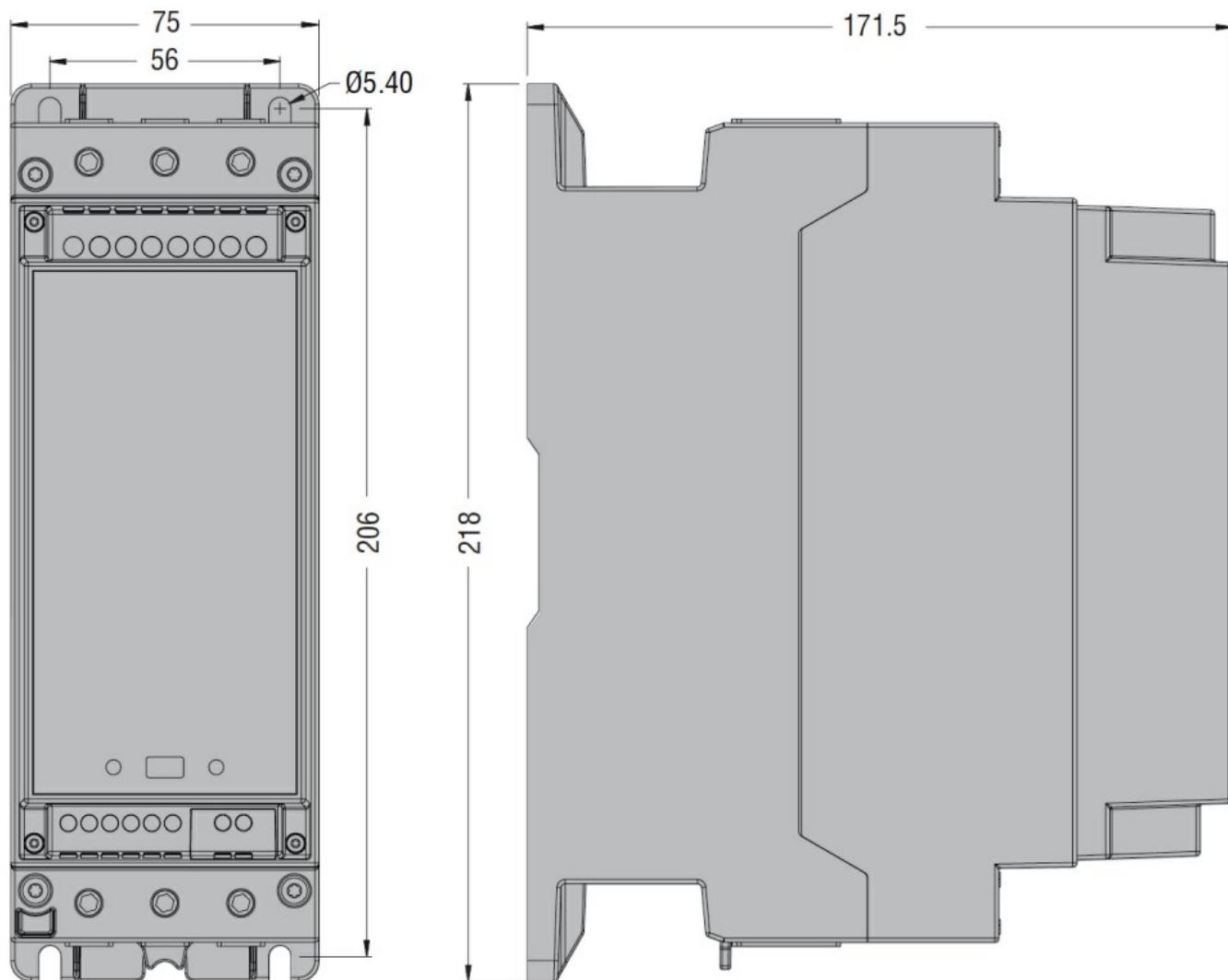




Product designation	Thyristor modules DCTL		
Product type designation	General characteristics		
General characteristics			
Rated voltage	V 400...480		
Operating voltage range	340...528		
Rated frequency	Hz 50/60		
Operating frequency range	Hz 45...65		
Rated current (Ie)	A 43		
Step power at	400VAC	kvar	36
	440VAC	kvar	33
	480VAC	kvar	36
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 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 \leq 10		
Low input signal	VDC \leq 0.8		
High input signal	VDC \geq 3.2		
Input signal delay	ms \geq 50		
NTC probe input			
Terminals	NTC-NTC		

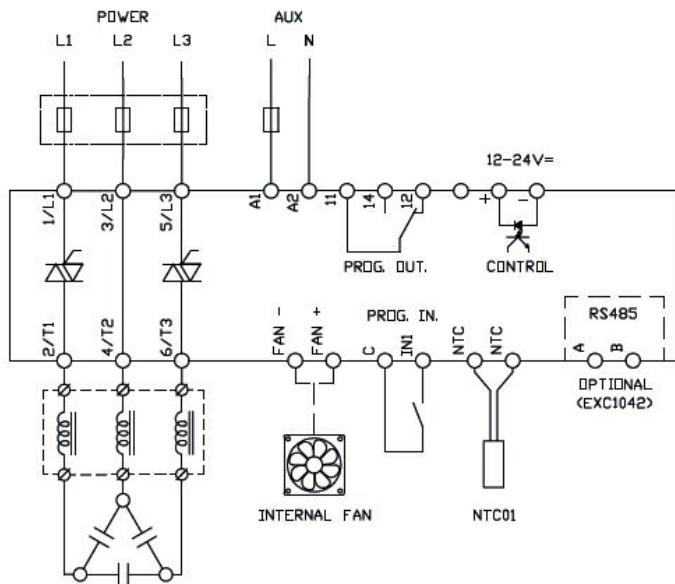
Sensor type	NTC (ordering code NTC01)				
Measuring range	°C	-25...+85			
Maximum connection lenght	mt	3			
Fan power supply					
Terminals	FAN +/-				
Supply voltage (internal)	5VDC (provided by DCTL)				
Fan type	1 built-in fan type EXP8004				
Relay outputs					
Number of relay output	Nr.	1			
Contact arrangement	1 C/O-SPDT				
NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC					
Rated current					
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			
	Ibin/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			
	Ibin	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
			+45°C without derating (up to 55°C with derating)
	max	°C	
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