

Product designation Product type designation			Thyristor modules DCTL
General characteristics			
Rated voltage		V	400480
Operating voltage range			340528
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		А	11
Step power at			
4	00VAC	kvar	9
4	40VAC	kvar	8
	80VAC	kvar	9
Peak inverse voltage (PIV)		VAC	2200
Number of controlled phases		Nr.	2 12-24VDC input
Control circuit			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			
AC	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency	Max	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			830VDC
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

DCTLA4800090 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



electric THYRISTOR MODULE, 9KVAR AT 480VAC, RATED OPERATING VOLTAGE 400...480VAC, WITH

ENERGY AND AUTOMATION

CURRENT CONTROL

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 <sup>3</sup> NC contact: 20x10 <sup>3</sup>
Mechanical life		cycles	107
Insulations		0,0.00	
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	mm²	2 x 2.5
	Max	mm²	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	mm²	0.2
	Max	mm²	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	mm²	0.2
	Max	mm²	2.5
			-



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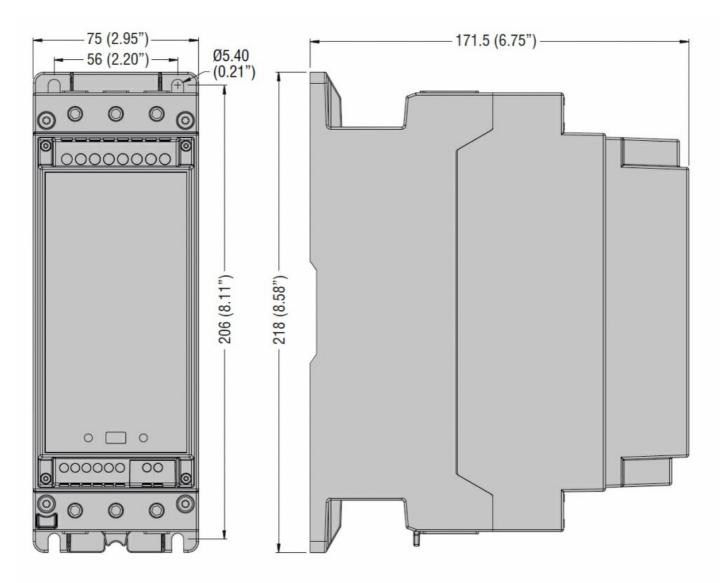
CURRENT CONTROL

		min	AWG	24
		Max	AWG	12
Tightening torque	(Max)		NL	0.44
			Nm	0.44
Ambient condition			lbin	4
Temperature	15			
remperature	Operating temperature			
	Operating temperature	min	°C	-20
		11111	0	+45°C without
				derating (up to
		max	°C	55°C with
				derating)
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollutio	n degree			2
Overvoltage categ	gory			III
Max altitude			m	2000m wihtout
				derating
Climatic sequence	<u>a</u>			Z/ABDM (IEC/EN
				60068-2-61)
Shock resistance				15g (IEC/EN
				60068-2-27)
Vibration resistance	ce			0.7g (IEC/EN
Llouding				60068-2-6)
Housing				Internal panal
Execution				Internal panel version
Material				Polycarbonate
Material				Screw fixing or
				DIN-rail (IEC/EN
Mounting				60715) with
Mounting				optional
				accessory
				EXP8003
Degree of protect				IP00
Dimensions (W x	H x D)		mm	75 x 218 x 171.5
Weight			g	1740
Dimensions				

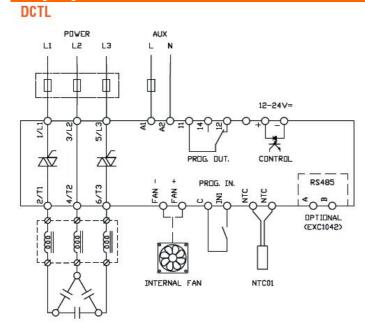


ENERGY AND AUTOMATION

CURRENT CONTROL



Wiring diagrams



## Certifications and compliance Compliance



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ENERGY AND AUTOMATION

CURRENT CONTROL

	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