

THYRISTOR MODULE, 50KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH CURRENT CONTROL



			2 6 00000 =
Product decignation			Thyristor
Product designation			modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	72
Step power at			
	00VAC	kvar	50
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			EXPIUIZ)
Rated auxiliary supply voltage Us			EXP1012)
1 11 1			,
Rated auxiliary supply voltage Us	min	VAC	100
Rated auxiliary supply voltage Us AC	min Max	VAC	100 240
Rated auxiliary supply voltage Us AC Auxiliary rated frequency		VAC Hz	100 240 50/60
Auxiliary rated frequency Power consumption Max		VAC Hz VA	100 240 50/60 14.1
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max		VAC Hz	100 240 50/60
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input		VAC Hz VA	100 240 50/60 14.1 5.8
Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals		VAC Hz VA	100 240 50/60 14.1 5.8
Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage		VAC Hz VA	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range		VAC Hz VA	100 240 50/60 14.1 5.8
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs		VAC Hz VA	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs Terminals		VAC Hz VA	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs Terminals Applied voltage at contact (internal)		VAC Hz VA W	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us		VAC Hz VA W	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2 ≥50
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2





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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: 10x10³ NC contact: 20x10³
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	mm²	2 x 2.5
	Max	mm²	2 x 35
	min	AWG	2 x 18
Tightoning tours (Mov)	Max	AWG	2 x 2
Tightening torque (Max)		Nimo	EEGE
		Nm lbin/lbft	5.5-6.5 4.06-4.79 lbft
Connections - relay output		IDII I/IDIT	4.00-4.79 IDIL
Type of terminal			Screw
Conductor cross section			
Conductor cross conton	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
	min	AWG	24
	Max	AWG	12



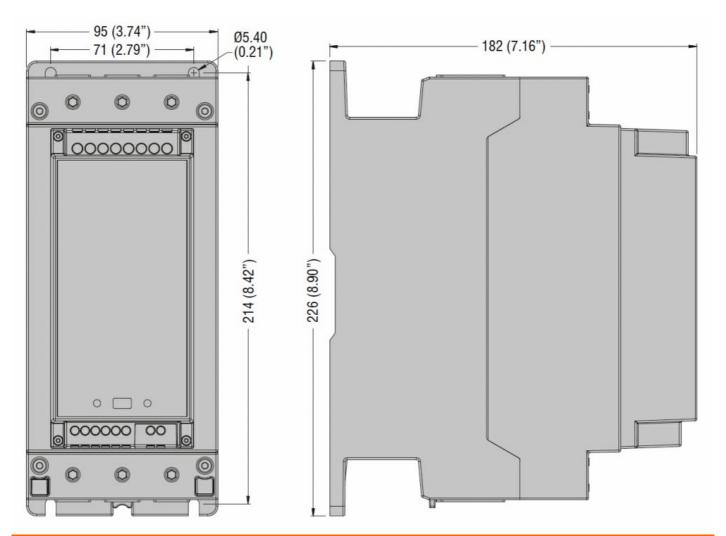


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Tightening torque (M	ax)			
			Nm	0.44
A 1 2 4 194			lbin	4
Ambient conditions				
Temperature	0			
	Operating temperature	min	°C	-20
		min	C	+45°C without
				derating (up to
		max	°C	55°C with
				derating)
	Storage temperature			<u> </u>
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution of	degree			2
Overvoltage categor	у			III
Max altitude			m	2000m wihtout
				derating
Climatic sequence				Z/ABDM (IEC/EN
				60068-2-61)
Shock resistance				15g (IEC/EN
				60068-2-27)
Vibration resistance				0.7g (IEC/EN
Housing				60068-2-6)
Housing				Internal nanal
Execution				Internal panel version
Material				Polycarbonate
Material				Screw fixing or
Mounting				DIN-rail (IEC/EN
				60715) with
				optional
				accessory
				EXP8003
Degree of protection	1			IP00
Dimensions (W x H >			mm	95 x 226 x 182
Weight			g	2840
Dimensions				

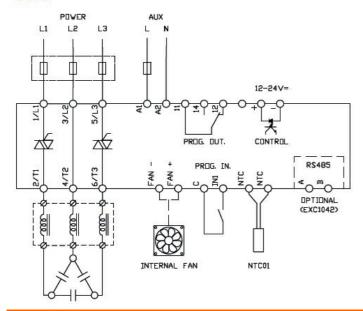
ENERGY AND AUTOMATION

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Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4



ENERGY AND AUTOMATION

DCTLA4000500

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Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -Solid state relay