



			E . martin -
Product designation			Thyristor
-			modules
Product type designation			DCTL
General characteristics			100
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		A	72
Step power at			
	400VAC	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			
Rated auxiliary supply voltage Us			
AC			
	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency		Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8
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
Sensor type			NTC (ordering

Sensor type

code NTC01)



Maximum connection lenght mt 3 Fan powor supply Fan powor supply Fan powor supply Supply voltage (internal) Fan type Fan	Measuring range		°C	-25+85
Terminals FAN +/. Supply voltage (internal) FAN +/. Supply voltage (internal) FAN +/. Supply voltage (internal) FAN +/. Fan type FAN +/. Fan t	Maximum connection lenght		mt	3
Supply voltage (internal) SVDC (provided by DCTL) Fan type 2 bulli-In fans type EXP8004 Relay output Nr. Contact arrangement Nr. Contact arrangement 1 C/O-SPDT NO contact: AC1 5A 250VAC / 3A 30VDC NC contact: AC1 5A 250VAC / 3A 30VDC C UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC Electrical life (with rated load) cycles Voc ontact: 20x10* No contact: 10x10*NC Rated insulation voltage Ui IEC/EN V Rated insulation voltage Uimp kV Connections - power terminals Fixed - double lock clamp Type of terminal Scies. Connections - power terminals Screw Connections - relay output Nm Tightening torque (Max) Screw Connections - relay output Max Type of terminal Screw Connections - relay output Screw Connections - relay output Max Type of terminal Screw Connections - relay output Max Type of terminal Screw Connections - fan and	Fan power supply			
Supply Voltage (Internal) Py DCTL) Pan type Pa	Terminals			FAN +/-
Fan type type EXP8004 Relay outputs Nr. 1 Number of relay output Nr. 1 Contact arrangement 1 C/O-SPDT Rated current 30VDC Secondard Action UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC 250 Maximum switching voltage VAC 250 NO contact: 20(7) Secondard Action	Supply voltage (internal)			
Number of relay output Nr. 1 Contact arrangement 1 C/O-SPDT Rated current 5A 250VAC / 5A 30VOC NC SA 250VAC / 5A 30VOC NC Rated current 300 Contact: AC1 3A 250VAC / SA 30VDC SA 250VAC / SA 30VDC NC UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC 250 Maximum switching voltage VAC 250 NO contact: NO contact: 20X10 ⁰ NC contact: 20X10 ⁰ NC Iectrical life (with rated load) cycles 10 ⁷ NO contact: 20X10 ⁰ NC	Fan type			
Contact arrangement 1 C/O-SPDT NO contact: AC1 SA 250VAC / 3A 30VDC NC contact: AC1 30VDC UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC Electrical life (with rated load) cycles If electrical life (with rated load) cycles Rated insulation voltage UI IEC/EN V Connections - power terminal Fixed - double lock clamp Conductor cross section min min mm ² Ype of terminal Screw Connections - relay output Type of terminal Conductor cross section min min AWG 2 x 2 Max Tightening torque (Max) min Conductor cross section min min AWG Conductor cross section min Max mm ² Conductor cross section min Max min Max Max Conductor cross section min M	Relay outputs			
Rated current NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 30VDC Maximum switching voltage VAC Electrical life (with rated load) cycles Insultations cycles Rated insulation voltage UI IEC/EN V Rated insulation setup kV Rated insulation voltage UI IEC/EN V Rated insulation voltage UI IEC/EN V Rated insulation voltage UI IEC/EN V Type of terminal Fixed - double lock clamp Connections - power terminals Fixed - double lock clamp Type of terminal Fixed - double lock clamp Conductor cross section min AWG 2 x 18 Max AWG 2 x 2 Tightening torque (Max) Nm 5.5-6.5 Ibin/Ibit Type of terminal Screw Conductor cross section min AWG 26 Max AWG 26 Max AWG 10 Tightening torque (Max) Nm 0.8 Ibin Type of terminal Screw Conductor cross section min AWG 26 Max AWG 10 Tightening torque (Max) Nm 0.8 Ibin Type of terminal Screw Conductor cross section min mm² 0.2 Max mm² 4 min AWG 26 Max mm² 2.5 min AWG 24 Screw </td <td>Number of relay output</td> <td></td> <td>Nr.</td> <td>1</td>	Number of relay output		Nr.	1
Rated current SA 250VAC / SA 30VDC NC 2001att: AC1 3A 250VAC / 3A 30VDC UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC Electrical life (with rated load) cycles Insulations NO contact: 20x10 ^a 0x10 ^a NC contact: 20x10 ^a Rated insulation voltage Ui IEC/EN V Connections - power terminals Fixed - double lock clamp Conductor cross section min Max <mm<sup>2 2 x 2.5 Max Max<mm<sup>2 2 x 35 min Connections - relay output 5-5-6.5 bibin/Ubit Connections - relay output Screw Conductor cross section min min Mm² Max Mm² Connections - relay output Screw Conductor cross section min min Mm² Type of terminal Screw Connections - relay output Screw Conductor cross section</mm<sup></mm<sup>	Contact arrangement			1 C/O-SPDT
Maximum switching voltage VAC 250 Electrical life (with rated load) cycles 100 contact: Mechanical life cycles 107 Insulations r r Rated insulation voltage Ui IEC/EN V 480 Rated insulation voltage Ui IEC/EN V 480 Rated insulation voltage Uinp kV 4 Connections - power terminals Fixed - double lock clamp Conductor cross section min mm² 2 x 2.5 Max mm² 2 x 35 min Max AWG 2 x 2 107 100 contact: Tightening torque (Max) Nm 5.5-6.5 5 100 contact: 100 contact: 100 contact: 100 contact: 200 contact:	Rated current			5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC
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min mm² 0.2 Max mm² 2.5 min AWG 24				SCIEW
Max mm² 2.5 min AWG 24		min	mm ²	0.2
min AWG 24				
		Max	AWG	12



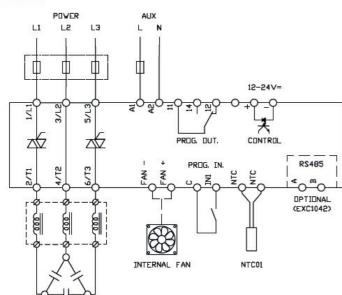
Tightening torque (Max)			0.44
		Nm Ibin	0.44 4
Ambient conditions		1.0.11	
Temperature			
Operating temperature			
	min	°C	-20
			+45°C without
		°C	derating (up to
	max	C	55°C with
			derating)
Storage temperature			
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree			2
Overvoltage category			III
Max altitude		m	2000m 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 60068-2-6)
Housing			,
Execution			Internal panel version
Material			Polycarbonate
			Screw fixing or DIN-rail (IEC/EN
Mounting			60715) with
			optional accessory
			EXP8003
Degree of protection			IP00
Dimensions (W x H x D)		mm	95 x 226 x 182
Weight		g	2840
Dimensions		Э	



95 (3.74") Ø5.40 182 (7.16") 71 (2.79") (0.21") ATT-0 0 0 0 0 0 00000000 214 (8.42") 226 (8.90") 0 0 0 00 000000 0 0 0 O 0 0

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