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Product designation			Thyristor
Product type designation			modules DCTL
General characteristics			DCTL
Rated voltage	,	V	400480
Operating voltage range		<u> </u>	340528
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	11
Step power at			
• •	100VAC	kvar	9
	40VAC	kvar	8
4	180VAC	kvar	9
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			
AC	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency	IVICA	Hz	50/60
Power consumption Max		VA	11.8
Power dissipation Max		W	4.6
Control input			1.0
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



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Sensor type         King code NTCO1) code NTCO1           Measuring range         °C         -25+85           Maximum connection lenght         mt         3           Fan power supply         Image: connections of the part of the pa
Maximum connection lenght         mt         3           Fan power supply         FAN 4/-           Supply voltage (internal)         5VDC (provided by DCTL)           Supply voltage (internal)         1 built-in fan type EXP8004           Relay outputs         Nr. 1           Contact arrangement         1 C/O-SPDT NO contact: AC1 AC
Fan power supply   Terminals
FAN +/-   Supply voltage (internal)
Supply voltage (internal)   SVDC (provided by DCTL)   SUBSTILL
Supply Voltage (Intential)   Supply Voltage
Relay output
Number of relay output         Nr.         1         CO-SPDT           Contact arrangement         1         CO-SPDT         NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC         SOONAC /
Contact arrangement         1 C/O-SPDT           Rated current         NO contact: AC1 5A 250VAC / 5A 30VDC NC contact: AC1 3A 250VAC / 3A 30VDC NC           LUCSA and IEC/EN 60947-5-1 designation         D300           Maximum switching voltage         VAC 250           Electrical life (with rated load)         vycles 10x10³ NC contact: 20x10³           Mechanical life         cycles 10√           Insulations         V           Rated insulation voltage Ui IEC/EN         V           Rated impulse withstand voltage Uimp         kV           Connections - power terminals         Fixed - double lock clamp           Conductor cross section         min mm² 2x x 2.5 Max mm² 2x x 35 min AWG 2x 18 Max mm² 2x x 35 min AWG 2x 18 Max aWG 2x 2           Tightening torque (Max)         Nm AWG 2x 2           Connections - relay output         Nm AWG 2x 2           Type of terminal         Screw           Connections - relay output         Screw           Type of terminal         Screw
No contact: AC1
Rated current         5A 250VAC / 5A 30V/DC NC contact: AC1 3A 250VAC / 3A 250VAC / 3A 250VAC / 3A 250VAC / 3A 30V/DC NC contact: AC1 3A 250VAC / 3A 250VAC
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         10²           Insulations         Rated insulation voltage Ui IEC/EN         V         480           Rated impulse withstand voltage Uimp         kV         4           Connections - power terminals         Type of terminal         Insulations min         min         mm²         2 x 2.5           Max         min         mm²         2 x 2.5           Max         mm²         2 x 35           min         AWG         2 x 18           Max         AWG         2 x 18           Max         AWG         2 x 2.5           Max         AWG         2 x 2.5           Max         AWG         2 x 35           min         AWG         2 x 35           min         AWG         2 x 35           min <td< td=""></td<>
Maximum switching voltage         VAC         250           Electrical life (with rated load)         cycles         10x10³ NC contact: 20x10³           Mechanical life         cycles         10²           Insulations         Rated insulation voltage Ui IEC/EN         V         480           Rated impulse withstand voltage Uimp         kV         4           Connections - power terminals         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           Ibin/lbft         2.95-3.69 lbft           Connections - relay output         Screw           Type of terminal         Screw
Electrical life (with rated load)   cycles   lox10³ NC contact: 20x10³
Electrical life (with rated load)         cycles contact: 20x10³         10x10³ NC contact: 20x10³           Mechanical life         cycles         107           Insulations         V         480           Rated insulation voltage Ui IEC/EN         kV         4           Connections - power terminals         Fixed - double lock clamp           Type of terminal         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           Connections - relay output         Vm         4-5           Type of terminal         Screw
Rated insulation voltage Ui IEC/EN
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           Ibin/Ibft         2.95-3.69 lbft           Connections - relay output           Type of terminal         Screw           Conductor cross section
Rated impulse withstand voltage Uimp         kV 4           Connections - power terminals         Fixed - double lock clamp           Type of terminal         min mm² 2 2 x 2.5 Max mm² 2 x 35 min AWG 2 x 18 Max AWG 2 x 18 Max AWG 2 x 28           Tightening torque (Max)         Nm 4-5 lbin/lbft 2.95-3.69 lbft           Connections - relay output         Screw           Type of terminal         Screw
Connections - power terminals           Type of terminal         Fixed - double lock clamp           Conductor cross section         min mm² 2 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         Screw           Type of terminal         Screw           Conductor cross section         Screw
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Screw   Scre
Conductor cross section         min mm² 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         Screw           Type of terminal         Screw           Conductor cross section         Screw
Max mm² 2 x 35   min AWG 2 x 18   Max AWG 2 x 2
Max   AWG   2 x 18     Max   AWG   2 x 2     Tightening torque (Max)   Nm   4-5     Ibin/lbft   2.95-3.69 lbft     Type of terminal   Screw     Conductor cross section
Max         AWG         2 x 2           Tightening torque (Max)         Nm         4-5           Ibin/lbft         2.95-3.69 lbft           Connections - relay output         Screw           Type of terminal         Screw           Conductor cross section
Tightening torque (Max)  Nm 4-5  bin/lbft 2.95-3.69 lbft  Connections - relay output  Type of terminal  Conductor cross section
Nm 4-5  bin/lbft 2.95-3.69 lbft
Screw   Conductor cross section   Ibin/lbft   2.95-3.69 lbft
Connections - relay output Type of terminal Conductor cross section Screw
Type of terminal Screw Conductor cross section
Conductor cross section
min mm <sup>2</sup> 0.2
Max mm <sup>2</sup> 4
min AWG 26
Max AWG 10
Tightening torque (Max)
Nm 0.8 Ibin 7
Connections - fan and digital input
rybe orientala
Type of terminal Screw  Conductor cross section
Conductor cross section



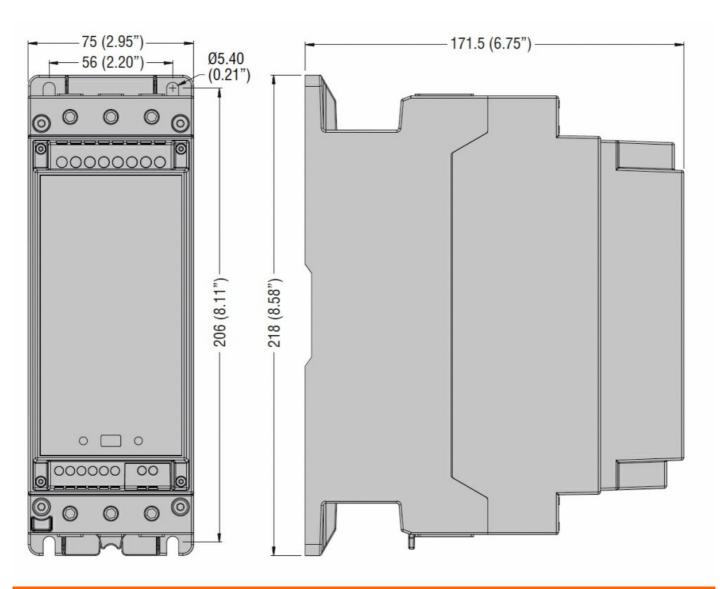




	min Max	AWG AWG	24 12
Tightening torque (Max)			
		Nm	0.44
		lbin	4
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
			+45°C without
	max	°C	derating (up to 55°C with
			derating)
Storage temperature			derailing)
Storage temperature	min	°C	-30
	max	°C	+80
Relative humidity	Пах	<u> </u>	<80%
Maximum Pollution degree		70	2
Overvoltage category			III
			2000m wihtout
Max altitude		m	derating
Climatic coguence			Z/ABDM (IEC/EN
Climatic sequence			60068-2-61)
Shock resistance			15g (IEC/EN
OHOCK resistance			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 60715) with
Mounting			optional
			accessory
			EXP8003
Degree of protection			IP00
Dimensions (W x H x D)		mm	75 x 218 x 171.5
Weight		g	1740
Dimensions		<u> </u>	

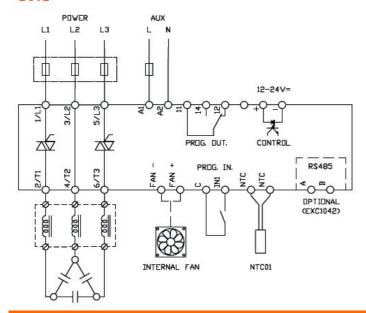


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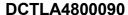
## Wiring diagrams

## DCTL



## Certifications and compliance

## Compliance





晶闸管, 9KVAR/400VAC, 额定工作电压400VAC, 带电流检测

IEC/EN 60947-4-3 IEC/EN 61000-6-2 IEC/EN 61000-6-4

Certificates

cULus

ETIM classification

EC002055 -ETIM 8.0 Solid state relay