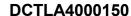




Product designation			Thyristor modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	22
Step power at			
4	00VAC	kvar	15
Peak inverse voltage (PIV)		VAC	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			
Auxiliary supply Rated auxiliary supply voltage Us			
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 11.8
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 11.8 4.6
Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals		VAC Hz VA	100 240 50/60 11.8 4.6
Rated auxiliary supply voltage Us AC  Auxiliary rated frequency Power consumption Max Power dissipation Max  Control input Terminals Rated voltage		VAC Hz VA	100 240 50/60 11.8 4.6 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 11.8 4.6
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 11.8 4.6 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 11.8 4.6 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 11.8 4.6 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us		VAC Hz VA W	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10
Rated auxiliary supply voltage Us		VAC Hz VA W  mA VDC	100 240 50/60 11.8 4.6 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 11.8 4.6 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 11.8 4.6 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 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2





# THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

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: 10x10³ NC contact: 20x10³
Mechanical life		cycles	10 <sup>7</sup>
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
	Max	AWG	2 x 2
Tightening torque (Max)			
		Nm	4-5
Open antique and an entropy		lbin/lbft	2.95-3.69 lbft
Connections - relay output			Corour
Type of terminal Conductor cross section			Screw
Conductor cross section	min	mama <sup>2</sup>	0.2
	min Max	mm² mm²	0.2 4
	min	AWG	26
	Max	AWG	10
Tightening torque (Max)	IVICA	7,1110	10
rigitioning 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

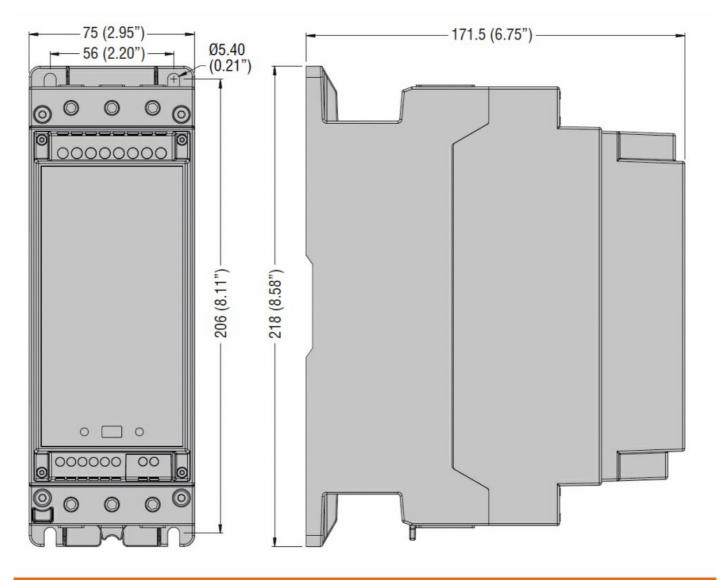




# THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

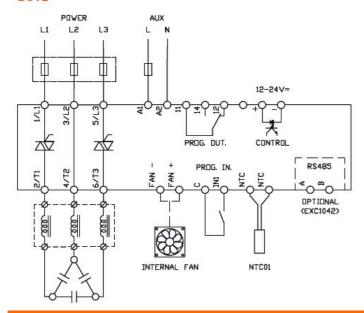
perature Operating temperature  Min  Storage temperature  min  max  Storage temperature  min  max  tive humidity  imum Pollution degree  rvoltage category  altitude  atic sequence  ck resistance	Nm Ibin	0.44 4
Operating temperature  Min  Max  Storage temperature  min  max  Itive humidity  imum Pollution degree rvoltage category  altitude  atic sequence	lbin	4
Operating temperature  Min  Max  Storage temperature  min  max  Itive humidity  imum Pollution degree rvoltage category  altitude  atic sequence		
Operating temperature  min  Storage temperature  min  max  attive humidity  imum Pollution degree  rvoltage category  altitude  attic sequence		
Storage temperature  min max  Storage temperature  min max  stive humidity imum Pollution degree rvoltage category altitude  atic sequence		
Storage temperature  min max  tive humidity imum Pollution degree rvoltage category altitude atic sequence	0.0	22
Storage temperature  min max  tive humidity imum Pollution degree rvoltage category altitude atic sequence	°C	-20
Storage temperature  min max  tive humidity imum Pollution degree rvoltage category altitude atic sequence		+45°C without
min max ative humidity imum Pollution degree rvoltage category altitude atic sequence	°C	derating (up to 55°C with
min max ative humidity imum Pollution degree rvoltage category altitude atic sequence		derating)
min max ative humidity imum Pollution degree rvoltage category altitude atic sequence		
atic sequence	°C	-30
imum Pollution degree rvoltage category altitude atic sequence	°C	+80
altitude atic sequence	%	<80%
altitude atic sequence		2
atic sequence		III
atic sequence	m	2000m wihtout
		derating
		Z/ABDM (IEC/EN
ck resistance		60068-2-61)
on regional regions		15g (IEC/EN 60068-2-27)
		0.7g (IEC/EN
ation resistance		60068-2-6)
sing		,
cution		Internal panel
,uiion		version
erial		Polycarbonate
		Screw fixing or
		DIN-rail (IEC/EN
nting		60715) with optional
		accessory
		EXP8003
ree of protection		IP00
ensions (W x H x D)	mm	75 x 218 x 171.5
ght		
ensions	g	1740





### Wiring diagrams

# DCTL



## Certifications and compliance

## Compliance



### **DCTLA4000150**

# THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

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