

Input current

Low input signal

High input signal Input signal delay

NTC probe input Terminals

Sensor type

THYRISTOR MODULE, 30KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH CURRENT CONTROL

			2
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	43
Step power at	400VAC	kvar	30
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 Max	VAC VAC	100 240
Auxiliary rated frequency		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
			440

≤10

≤0.8

≥3.2

≥50

NTC-NTC NTC (ordering

code NTC01)

mA VDC

VDC

ms





THYRISTOR MODULE, 30KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH CURRENT CONTROL

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
HI (004 HEQ/EN 000 (= 5 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /			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 ³ NC contact: 20x10 ³
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
T'. I (' ((A A)	Max	AWG	2 x 2
Tightening torque (Max)		N1	4.5
		Nm lbin/lbft	4-5
Connections relay output		IDIN/IDIT	2.95-3.69 lbft
Connections - relay output Type of terminal			Screw
Conductor cross section			Sciew
Conductor cross section	min	mm²	0.2
	Max	mm²	4
	min	AWG	26
	Max	AWG	10
Tightening torque (Max)			
3 - 3 - 1 - 1 - 1		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



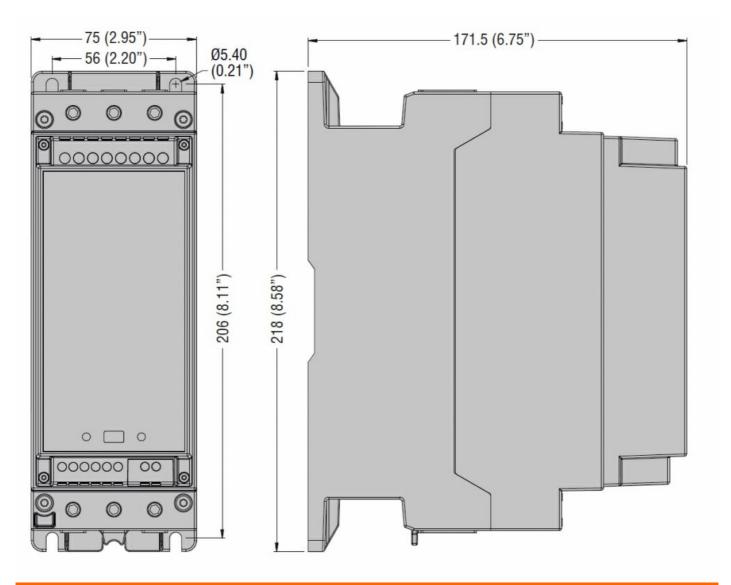


THYRISTOR MODULE, 30KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH **CURRENT CONTROL**

Tightening torque (Ma	ax)			
	•		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			ucrating)
	Otorage temperature	min	°C	-30
		max	°C	+80
Relative humidity		max	 %	<80%
Maximum Pollution de	egree		- , -	2
Overvoltage category				III
Max altitude				2000m wihtout
			m	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)
-				Internal panel
Execution				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	75 x 218 x 171.5
Weight			g	1740
Dimensions				

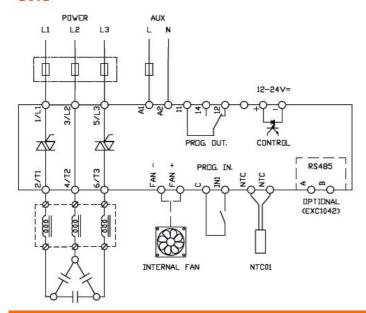
ENERGY AND AUTOMATION

THYRISTOR MODULE, 30KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH **CURRENT CONTROL**



Wiring diagrams

DCTL



Certifications and compliance

Compliance



DCTLA4000300

THYRISTOR MODULE, 30KVAR AT 400VAC, RATED OPERATING VOLTAGE 400VAC, WITH **CURRENT CONTROL**

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