

High input signal

Input signal delay

NTC probe input

Terminals

Sensor type

Product designation Product type designation General characteristics			Thyristor modules DCTL
Rated voltage		V	400
Operating voltage range		<u> </u>	340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		А	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	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			0000000
Terminals			C-IN1
Applied voltage at contact (internal)			5VDC
Input current		mA	<u>≤10</u>
Low input signal		VDC	≤0.8
			>> 0

VDC

ms

≥3.2

≥50

NTC-NTC

NTC (ordering

code NTC01)



DCTLA4000300 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 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 <sup>3</sup> NC contact: 20x10 <sup>3</sup>
Mechanical life		cycles	107
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
		lbin/lbft	2.95-3.69 lbft
Connections - relay output			
Type of terminal			Screw
Conductor cross section			
	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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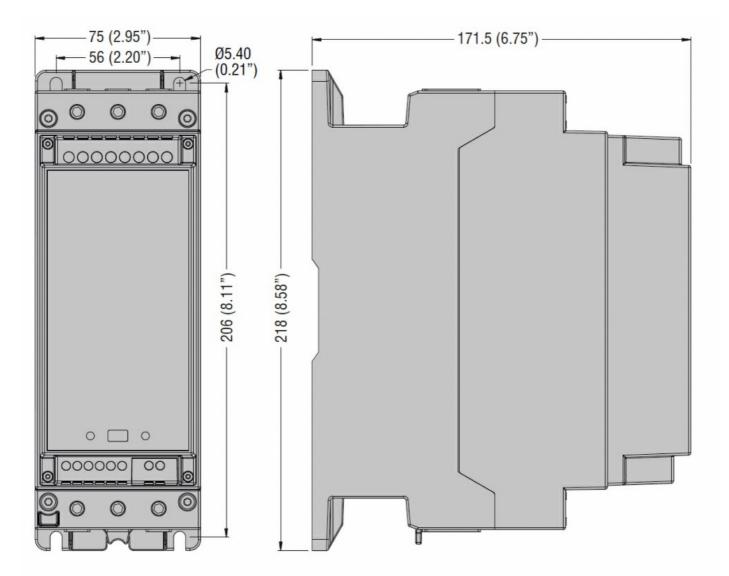
CURRENT CONTROL

Tightening torque (N	lax)			
			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	°Č	+80
Relative humidity			%	<80%
Maximum Pollution	degree			2
Overvoltage categor	·			
Max altitude	·		m	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)
Housing				Internal panel
Execution				version
Material				Polycarbonate
				Screw fixing or
				DIN-rail (IEC/EN
Mounting				60715) with
Mounting				optional
				accessory
<u> </u>				EXP8003
Degree of protection				IP00
Dimensions (W x H	x D)		mm	75 x 218 x 171.5
Weight			g	1740
Dimensions				

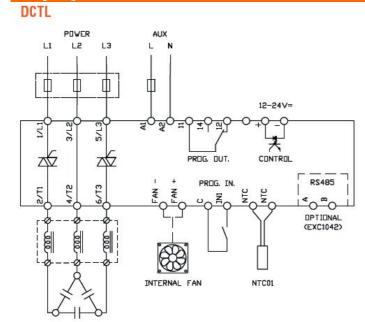
DCTLA4000300



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



Wiring diagrams



## 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		
ETIM 8.0		EC002055 -

Solid state relay