

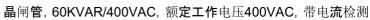


			E de grand a
Product designation			Thyristor modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400480
Operating voltage range			340528
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	72
Step power at			
	100VAC	kvar	60
	40VAC	kvar	55
	180VAC	kvar	60
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	_		
	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			
NTC probe input Terminals			NTC-NTC



• • • • • • • • • •			NTC (ordering
Sensor type			code NTC01)
Measuring range		°C	-25+85
Maximum connection lenght		mt	3
Fan power supply			
Terminals			FAN +/-
Supply voltage (internal)			5VDC (provided by DCTL)
Fan type			2 built-in fans 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 ⁷
Insulations		Cycles	10
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
			- x0
	Max	mm²	2 x 35
	min	AWG	_
			2 x 35
Tightening torque (Max)	min	AWG	2 x 35 2 x 18
	min	AWG AWG	2 x 35 2 x 18 2 x 2
Connections - relay output	min	AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft
Connections - relay output Type of terminal	min	AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5
Connections - relay output	min Max	AWG AWG Nm Ibin/lbft	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft
Connections - relay output Type of terminal	min Max min	AWG AWG Nm lbin/lbft	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft Screw
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Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input	min Max min Max min	AWG AWG Nm Ibin/lbft mm² mm² AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26 10
Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input Type of terminal	min Max min Max min	AWG AWG Nm Ibin/lbft mm² mm² AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26 10
Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input	min Max min Max min Max	AWG AWG Nm Ibin/lbft mm² mm² AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26 10 0.8 7
Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input Type of terminal	min Max min Max min	AWG AWG Nm Ibin/lbft mm² mm² AWG AWG	2 x 35 2 x 18 2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26 10

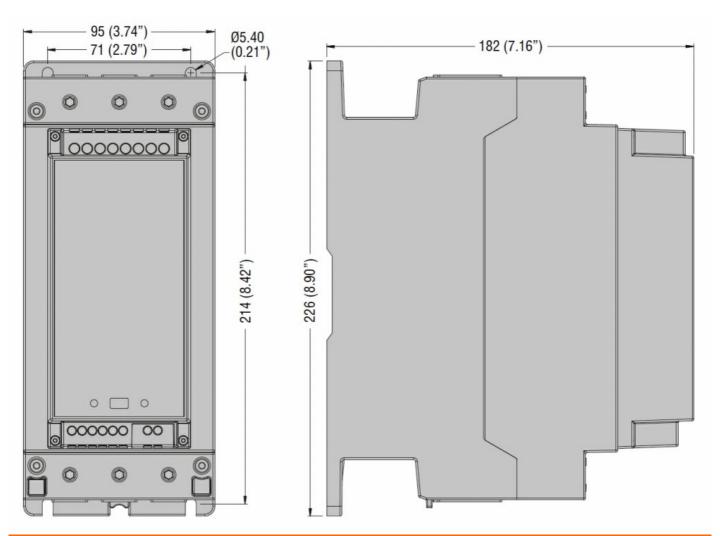






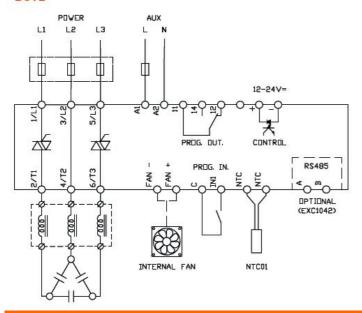
		min Max	AWG AWG	24 12
Tightening torque (M	ax)	IVIOX	7,000	12
			Nm	0.44
			lbin	4
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
				+45°C without
		max	°C	derating (up to 55°C with
				derating)
	Storage temperature			derating)
	Glorage temperature	min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution of	degree			2
Overvoltage categor	· ·			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
Mounting				Screw fixing or DIN-rail (IEC/EN 60715) with
wounting				optional accessory EXP8003
Degree of protection	1			IP00
Dimensions (W x H x	x D)		mm	95 x 226 x 182
Weight			g	2840
Dimensions				





Wiring diagrams

DCTL



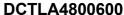
Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4





Certificates

cULus

ETIM classification

EC002055 -ETIM 8.0 Solid state relay