



			and a
Product designation			Thyristor modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	600690
Operating voltage range			340759
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	29
Step power at			
	400VAC	kvar	30
	440VAC	kvar	22
	480VAC	kvar	24
	525VAC	kvar	26
	600VAC	kvar	30
	690VAC	kvar	30
Peak inverse voltage (PIV)		VAC	3600
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			EXPTUIZ)
Rated auxiliary supply voltage Us			
AC			
AO	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency	Wich	Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8
Control input		**	0.0
Terminals			CONTROL +/-
Rated voltage			12-24VDC
Operating range			830VDC
Digital inputs			000 1 1 0
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



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L. (251 III.			>50
Input signal delay		ms	≥50
NTC probe input Terminals			NITC NITC
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: 10x10 ³ NC contact: 20x10 ³
Mechanical life		cycles	107
Insulations			
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
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)		AWG	2 x 2
Tightening torque (Max)		AWG Nm	2 x 2 5.5-6.5
		AWG	2 x 2
Connections - relay output		AWG Nm	2 x 2 5.5-6.5 4.06-4.79 lbft
Connections - relay output Type of terminal		AWG Nm	2 x 2 5.5-6.5
Connections - relay output	Max	AWG Nm lbin/lbft	2 x 2 5.5-6.5 4.06-4.79 lbft Screw
Connections - relay output Type of terminal	Max	AWG Nm Ibin/lbft mm²	2 x 2 5.5-6.5 4.06-4.79 lbft Screw
Connections - relay output Type of terminal	Max	AWG Nm lbin/lbft	2 x 2 5.5-6.5 4.06-4.79 lbft Screw
Connections - relay output Type of terminal	Max min Max	AWG Nm Ibin/Ibft mm² mm²	2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4
Connections - relay output Type of terminal	Max min Max min	AWG Nm Ibin/lbft mm² mm² AWG	2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26
Connections - relay output Type of terminal Conductor cross section	Max min Max min	AWG Nm Ibin/lbft mm² mm² AWG	2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26
Connections - relay output Type of terminal Conductor cross section Tightening torque (Max)	Max min Max min	Nm Ibin/lbft mm² mm² AWG AWG	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	Max min Max min	Nm Ibin/Ibft mm² mm² AWG AWG	2 x 2 5.5-6.5 4.06-4.79 lbft Screw 0.2 4 26 10 0.8

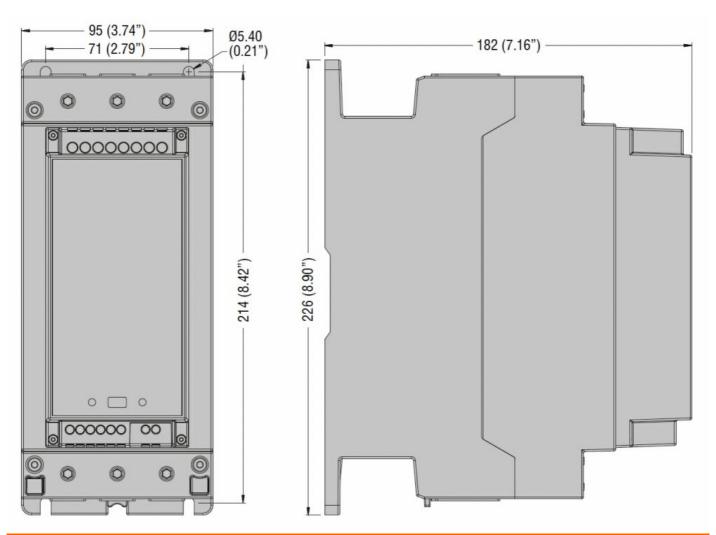


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Conductor cross sectio	n			
		min	mm²	0.2
		Max	mm²	2.5
		min	AWG	24
		Max	AWG	12
Tightening torque (Max)				
			Nm	0.44
			lbin	4
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
				+45°C without
		max	°C	derating (up to
		max	O	55°C with
				derating)
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution deg	ree			2
Overvoltage category				III
Max altitude			m	2000m wihtout
			1111	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
				Screw fixing or
				DIN-rail (IEC/EN
Mounting				60715) with optional
				accessory
				EXP8003
Degree of protection				IP00
Dimensions (W x H x D			mm	95 x 226 x 182
Weight	J.			2840
Dimensions			g	20 4 0
Dilliensions				

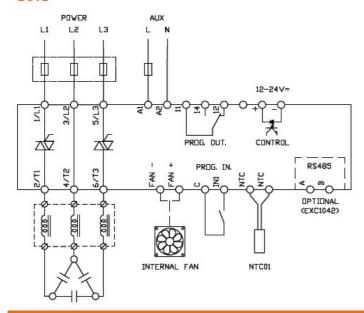


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Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4



EC002055 -

Solid state relay



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晶闸管, 30KVAR/400VAC, 额定工作电压690VAC, 带电流检测

Certificates

cULus

ETIM classification

ETIM 8.0