

THYRISTOR MODULE, 30KVAR AT 690VAC, RATED OPERATING VOLTAGE 600...690VAC, WITH CURRENT CONTROL



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Draduat designation			Thyristor
Product designation			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			
4	00VAC	kvar	30
4	40VAC	kvar	22
4	80VAC	kvar	24
5	25VAC	kvar	26
6	00VAC	kvar	30
6	90VAC	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			
Rated auxiliary supply voltage Us			
AC			400
	min	VAC	100
A 111	Max	VAC	240
Auxiliary rated frequency		Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8
Control input			CONTROL /
Terminals			CONTROL +/-
Rated voltage			12-24VDC
Operating range			830VDC
Digital inputs			
Terminals			C-IN1
Applied voltage at contact (internal)			5VDC
Input current		mΑ	≤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
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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



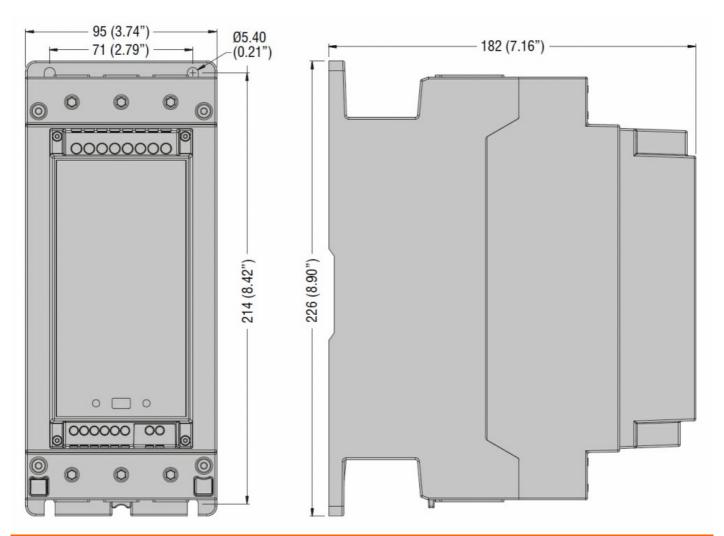


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Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
	min	AWG	24
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.44
		lbin	4
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
			+45°C without
	max	°C	derating (up to
	max	O	55°C with
			derating)
Storage temperature			
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree			2
Overvoltage category			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 optional
			accessory EXP8003
Degree of protection			IP00
Dimensions (W x H x D)		mm	95 x 226 x 182
Weight		g	2840
Dimensions			

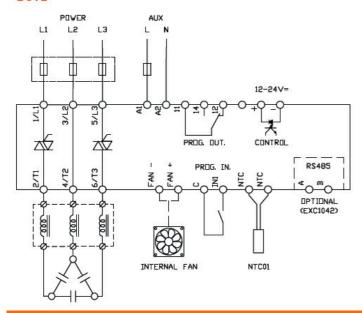
ENERGY AND AUTOMATION

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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



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DCTLA6900300

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Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -Solid state relay