

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)		А	96
Step power at	4001/4.0		100
	400VAC	kvar	100
	440VAC	kvar	73
	480VAC	kvar	80
	525VAC	kvar kvor	87
	600VAC 690VAC	kvar kvar	100 100
	690VAC	kvar VAC	3600
Peak inverse voltage (PIV) Number of controlled phases		Nr.	2
Number of controlled phases		INI.	2 12-24VDC input
Control circuit			or free-voltage input or via RS485 serial port (with optional card EXC1042 in combination with controller DCRG8F + EXP1012)
Rated auxiliary supply voltage Us			
AC			
AC	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency	IVIAA	Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8
Control input		vv	5.0
Terminals			CONTROL +/-
Rated voltage			12-24VDC
Operating range			830VDC
Digital inputs			0
Terminals			C-IN1
Applied voltage at contact (internal)			5VDC
Input current		mA	<u>≤10</u>
Low input signal		VDC	<u>≤10</u> ≤0.8
High input signal		VDC	≥3.2
		.00	-0.2

DCTLA6901000 The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



Input signal delay ≥50 ms 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 +/-5VDC (provided Supply voltage (internal) by DCTL) 2 built-in fans Fan type type EXP8004 Relay outputs Number of relay output Nr. 1 Contact arrangement 1 C/O-SPDT NO contact: AC1 5A 250VAC / 5A 30VDC NC Rated current contact: AC1 3A 250VAC / 3A 30VDC UL/CSA and IEC/EN 60947-5-1 designation D300 Maximum switching voltage VAC 250 NO contact: Electrical life (with rated load) cycles 10x103 NC contact: 20x10³ Mechanical life cycles 107 Insulations Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp kV 6 Connections - power terminals Bars - 25x5mm, Type of terminal hole diam. 11mm Conductor cross section Max mm² 50 1 x AWG 3/0 (for cULus compliance you must install n°2 AWG Max lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) Tightening torque (Max) 35Nm (42Nm for Nm EXA01 lugs) 309 in-lbs (375 lbin/lbft in-lbs for EXA01 lugs) Connections - relay output Type of terminal Screw Conductor cross section mm² 0.2 min

Max

mm²

4



晶闸管, 100KVAR/400VAC, 额定工作电压690VAC, 带电流检测

	min	AWG	26
Tightoning torque (Max)	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 Max	AWG AWG	24 12
Tightening torque (Max)	IVIAX	AWG	12
rightening torque (Max)		Nm	0.44
		lbin	4
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
			+45°C without
	max	°C	derating (up to
			55°C with
Storage temperature			derating)
Storage temperature	min	°C	-30
	max	°C	+80
Relative humidity	Пах	%	<80%
Maximum Pollution degree		70	2
Overvoltage category			
Max altitude		m	2000m wihtout
			derating
Climatic sequence			Z/ABDM (IEC/EN 60068-2-61)
			15g (IEC/EN
Shock resistance			60068-2-27)
Vibration resistance			0.7g (IEC/EN
			60068-2-6)
Housing			
Execution			Internal panel version
Material			Polycarbonate
Degree of protection			IP00
			212 x 301 x 216
			(with EXA01 lugs
Dimensions (W x H x D)		mm	and EXA02
			terminals
			protection: 212 x
Weight			468 x 216) 6680
Dimensions		g	

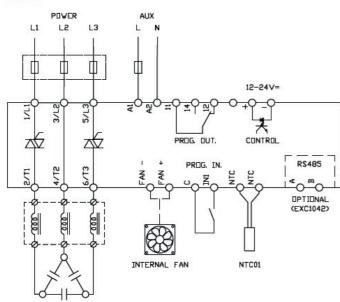


DCTLA6901000 晶闸管, 100KVAR/400VAC, 额定工作电压690VAC, 带电流检测

212 (8.35") 195 (7.68") 216 (8.50") 90 (3.54") Ø10.60 97 (3.82") 25 (0.98") (0.42") Ó 0 0 0 00000000 154 (6.06") -275 (10.82") 301 (11.85") 0 0 🗆 0 000000 00 1 0 0 0 0

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