



Product designation			Thyristor
-			modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	11
Step power at			
	00VAC	kvar	7.5
Peak inverse voltage (PIV)		VAC	1800
Number of controlled phases		Nr.	2
			12-24VDC input or free-voltage
			input or via
			RS485 serial port (with optional
Control circuit			card EXC1042 in
			combination with
			controller
			DCRG8F +
			EVD1013\
			EXP1012)
Auxiliary supply			EXP1012)
Rated auxiliary supply voltage Us			EXP1012)
Rated auxiliary supply voltage Us	min	VAC	100
Rated auxiliary supply voltage Us AC	min Max	VAC	100 240
Rated auxiliary supply voltage Us AC Auxiliary rated frequency		VAC Hz	100 240 50/60
Auxiliary rated frequency Power consumption Max		VAC Hz VA	100 240 50/60 11.8
Auxiliary rated frequency Power consumption Max Power dissipation Max		VAC Hz	100 240 50/60
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input		VAC Hz VA	100 240 50/60 11.8 4.6
Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals		VAC Hz VA	100 240 50/60 11.8 4.6
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage		VAC Hz VA	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range		VAC Hz VA	100 240 50/60 11.8 4.6
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs		VAC Hz VA	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs Terminals		VAC Hz VA	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage Operating range Digital inputs Terminals Applied voltage at contact (internal)		VAC Hz VA W	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC
Rated auxiliary supply voltage Us		VAC Hz VA W	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2 ≥50
Rated auxiliary supply voltage Us		MAC Hz VA W mA VDC VDC	100 240 50/60 11.8 4.6 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2



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Measuring range		°C	-25+85
Maximum connection lenght		mt	3
Fan power supply		1110	
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: 10x10³ NC contact: 20x10³
Mechanical life		cycles	10 ⁷
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 Max	AWG	2 x 18
Tightoning torque (Mov)	Max	AWG	2 x 2
Tightening torque (Max)		Nm	4-5
		lbin/lbft	2.95-3.69 lbft
Connections - relay output		IDIII/IDIC	2.55 5.65 IDIT
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			Сатам
Type of terminal			Screw
Conductor cross section	min	mm²	0.2
	min Max	mm² mm²	0.2 2.5
	min	AWG	2.5 24
	Max	AWG	12
			-

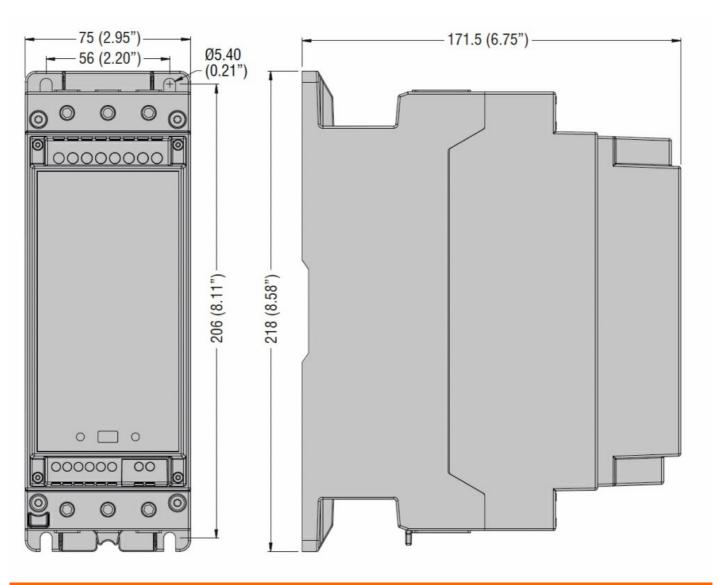


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Ambient conditions Temperature Operating temperature Storage temperature	min max min max	°C °C °C	-20 +45°C without derating (up to 55°C with derating)
Temperature Operating temperature	max min	°C °C	-20 +45°C without derating (up to 55°C with derating)
Temperature Operating temperature	max min	°C	+45°C without derating (up to 55°C with derating)
Operating temperature	max min	°C	+45°C without derating (up to 55°C with derating)
	max min	°C	+45°C without derating (up to 55°C with derating)
Storage temperature	min	°C	derating (up to 55°C with derating)
Storage temperature	min	°C	55°C with derating)
Storage temperature	min	°C	derating)
Storage temperature			
Storage temperature			20
	παλ	~(:	+80
Relative humidity		 %	<80%
Maximum Pollution degree		70	2
Overvoltage category			III
Max altitude			2000m wihtout
ax allitude		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 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	75 x 218 x 171.5
Weight		g	1740
Dimensions			

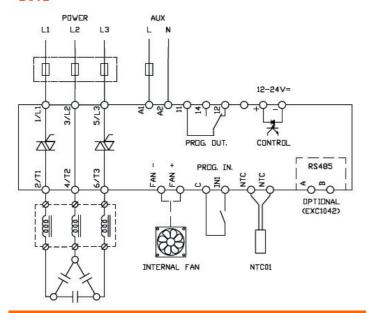


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Wiring diagrams

DCTL



Certifications and compliance

Compliance





晶闸管, 7.5KVAR/400VAC, 额定工作电压400VAC, 带电流检测

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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