



Product designation			Thyristor
-			modules DCTL
Product type designation General characteristics			DCTL
Rated voltage		V	400
Operating voltage range		v	340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (Ie)		A	144
Step power at			144
• •	00VAC	kvar	100
	OVAC	VAC	1800
Peak inverse voltage (PIV)		Nr.	2
Number of controlled phases		INI.	
			12-24VDC input or free-voltage
			input or via
			RS485 serial port
Constant singuit			(with optional
Control circuit			card EXC1042 in
			combination with
			controller
			DCRG8F +
			EXP1012)
Auvilory cupply			
Auxiliary supply			
Rated auxiliary supply voltage Us			
		\/A.O	100
Rated auxiliary supply voltage Us	min	VAC	100
Rated auxiliary supply voltage Us AC	min Max	VAC	240
Rated auxiliary supply voltage Us AC Auxiliary rated frequency		VAC Hz	240 50/60
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max		VAC Hz VA	240 50/60 14.1
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max		VAC Hz	240 50/60
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input		VAC Hz VA	240 50/60 14.1 5.8
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals		VAC Hz VA	240 50/60 14.1 5.8 CONTROL +/-
Rated auxiliary supply voltage Us AC Auxiliary rated frequency Power consumption Max Power dissipation Max Control input Terminals Rated voltage		VAC Hz VA	240 50/60 14.1 5.8 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	240 50/60 14.1 5.8 CONTROL +/-
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	240 50/60 14.1 5.8 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	240 50/60 14.1 5.8 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	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC
Rated auxiliary supply voltage Us		VAC Hz VA W	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MA VDC VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2
Rated auxiliary supply voltage Us		VAC Hz VA W mA VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8
Rated auxiliary supply voltage Us		MA VDC VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2 ≥50
Rated auxiliary supply voltage Us		MA VDC VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2 ≥50 NTC-NTC
Rated auxiliary supply voltage Us		MA VDC VDC	240 50/60 14.1 5.8 CONTROL +/- 12-24VDC 830VDC C-IN1 5VDC ≤10 ≤0.8 ≥3.2 ≥50





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THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

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			
Rated insulation voltage Ui IEC/EN		V	480
Rated impulse withstand voltage Uimp		kV	4
Connections - power terminals			_
Type of terminal			Bars - 25x5mm, hole diam. 11mm
Conductor cross section	Max	mm²	50 1 x AWG 3/0 (for cULus
	Max	AWG	compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02)
Tightening torque (Max)			35Nm (42Nm for
Connections - relay output		Nm lbin/lbft	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs)
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			
Type of terminal			Screw
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 temper			
	min	°C	-20
			+45°C without
	max	°C	derating (up to 55°C with
			derating)
Storage temperat	ITA		ucrating)
Clorage temperat	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree			2
Overvoltage category			III
			2000m wihtout
Max altitude		m	derating
Climatic sequence			Z/ABDM (IEC/EN
Climatic sequence			60068-2-61)
Shock resistance			15g (IEC/EN
			60068-2-27)
Vibration resistance			0.7g (IEC/EN
			60068-2-6)
Housing			late well-result
Execution			Internal panel version
Material			Polycarbonate
Degree of protection			IP00
Degree of protection			212 x 301 x 216
			(with EXA01 lugs
D: (M 11 D)			and EXA02
Dimensions (W x H x D)		mm	terminals
			protection: 212 x
			468 x 216)
NA7 - 1 - 1 - (0000

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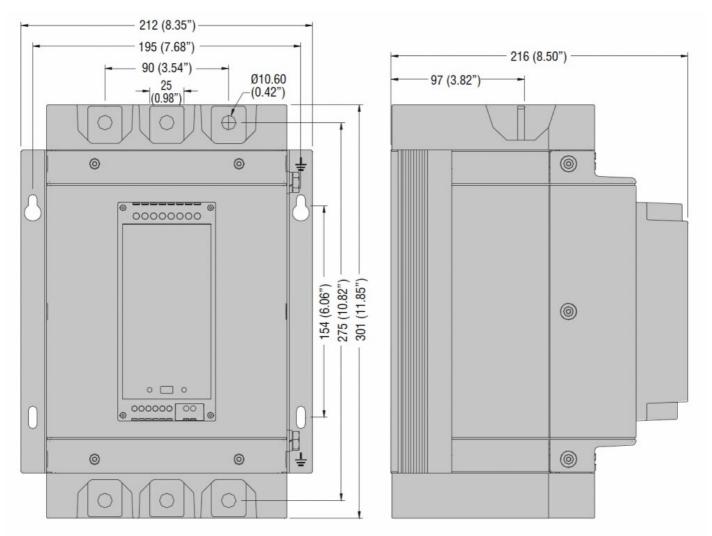
Weight

Dimensions

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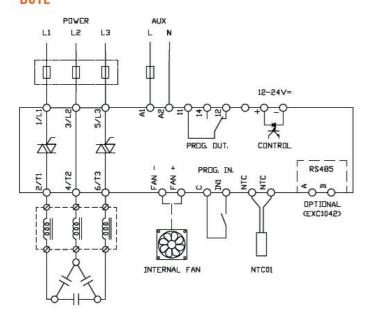


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Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2



ETIM classification

DCTLA4001000

THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

IEC/EN 61000-6-4 cULus

ETIM 8.0

Certificates

EC002055 -Solid state relay