



		-	9 9 9
Draduat designation			Thyristor
Product designation			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	144
Step power at			
	400VAC	kvar	100
Peak inverse voltage (PIV)		VAC	1800
Number of controlled phases		Nr.	2
			12-24VDC input
			or free-voltage
			input or via
			RS485 serial port
Control circuit			(with optional card EXC1042 in
			combination with
			controller
			DCRG8F +
			EXP1012)
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC			
	min	VAC	100
	Max	VAC	240
Auxiliary rated frequency		Hz	50/60
Power consumption Max		VA	14.1
Power dissipation Max		W	5.8
Control input			
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
Input signal delay		ms	≥50
NTC probe input			
Terminals			NTC-NTC
Sensor type			NTC (ordering
Sensor type			



ENERGY AND AUTOMATION

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			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			
			Dava 05
Type of terminal			Bars - 25x5mm, hole diam. 11mm
Type of terminal Conductor cross section	Max	mm²	50 1 x AWG 3/0 (for cULus
	Max Max	mm²	hole diam. 11mm 50 1 x AWG 3/0 (for
			hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds
Conductor cross section			hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01
Conductor cross section Tightening torque (Max)		AWG Nm	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375
Conductor cross section Tightening torque (Max) Connections - relay output		AWG Nm	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs)
Connections - relay output Type of terminal		AWG Nm	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01
Conductor cross section Tightening torque (Max) Connections - relay output	Max	AWG Nm Ibin/lbft	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw
Connections - relay output Type of terminal	Max	AWG Nm Ibin/lbft	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2
Connections - relay output Type of terminal	Max min Max	AWG Nm Ibin/lbft mm² mm²	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4
Connections - relay output Type of terminal	Max	AWG Nm Ibin/lbft	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2
Connections - relay output Type of terminal	Max min Max min	AWG Nm Ibin/lbft mm² mm² AWG	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4 26
Conductor cross section Tightening torque (Max) Connections - relay output Type of terminal Conductor cross section	Max min Max min	AWG Nm Ibin/lbft mm² mm² AWG AWG	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4 26 10
Conductor cross section Tightening torque (Max) Connections - relay output Type of terminal Conductor cross section	Max min Max min	AWG Nm Ibin/lbft mm² mm² AWG AWG	hole diam. 11mm 50 1 x AWG 3/0 (for cULus compliance you must install n°2 lugs kit code EXA01 + n°2 terminal shrouds kit code EXA02) 35Nm (42Nm for EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4 26 10

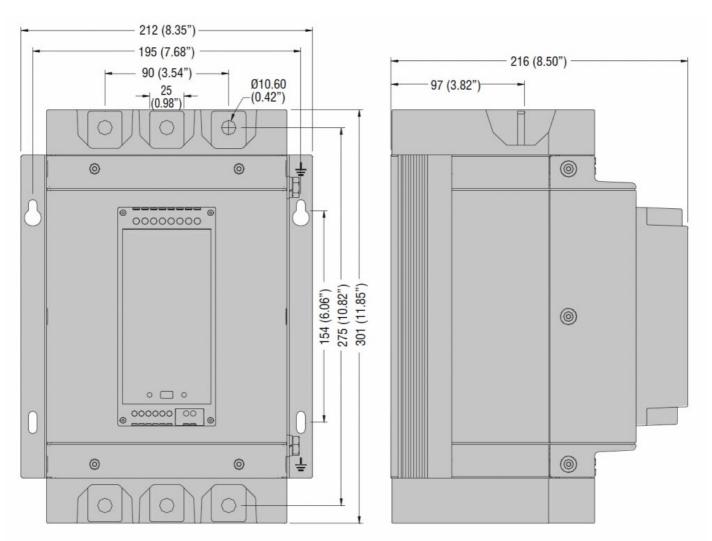


ENERGY AND AUTOMATION

Connections - fan and	digital input			
Type of terminal				Screw
Conductor cross sect	ion			
		min	mm²	0.2
		Max	mm²	2.5
		min	AWG	24
		Max	AWG	12
Tightening torque (Ma	x)			
			Nm	0.44
A 12 4 194			lbin	4
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
				+45°C without
		max	°C	derating (up to 55°C with
				derating)
	Storage temperature			derating)
	Otorago temporataro	min	°C	-30
		max	°C	+80
Relative humidity		THOX:	%	<80%
Maximum Pollution de			70	2
Overvoltage category				
				2000m wihtout
Max altitude			m	derating
01:				Z/ABDM (IEC/EN
Climatic sequence				60068-2-61)
Chaolaraoistanas				15g (IEC/EN
Shock resistance				60068-2-27)
Vibration resistance				0.7g (IEC/EN
VIDIALION TESISLANCE				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
				468 x 216)
Weight			g	6680
Dimensions			9	

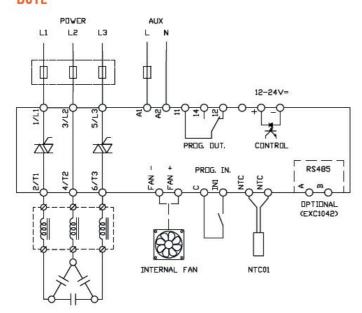


ENERGY AND AUTOMATION



Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2





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

IEC/EN 61000-6-4

Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -Solid state relay