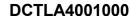




			9 9 9
Product designation			Thyristor
Floduct designation			modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	144
Step power at			
	400VAC	kvar	100
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			





MODULES À THYRISTOR, POUR CORRECT.FACTEUR DE PUISSANCE. 100KVAR 400VAC

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	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)			
		Nm	35Nm (42Nm for EXA01 lugs)
		Nm lbin/lbft	
Connections - relay output			EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs)
Type of terminal			EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01
		lbin/lbft	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw
Type of terminal	min	lbin/lbft	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2
Type of terminal	Max	lbin/lbft mm² mm²	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4
Type of terminal	Max min	lbin/lbft mm² mm² AWG	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4 26
Type of terminal Conductor cross section	Max	lbin/lbft mm² mm²	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4
Type of terminal	Max min	lbin/lbft mm² mm² AWG	EXA01 lugs) 309 in-lbs (375 in-lbs for EXA01 lugs) Screw 0.2 4 26



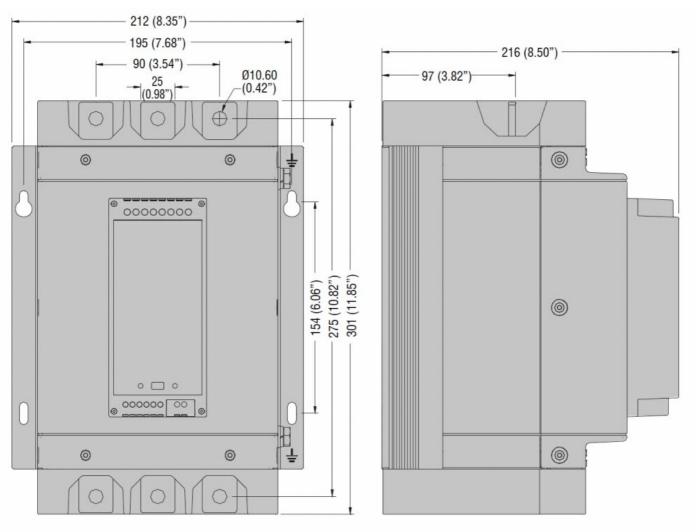


MODULES À THYRISTOR, POUR CORRECT.FACTEUR DE PUISSANCE. 100KVAR 400VAC

Connections for and	digital input			
Connections - fan and	digital input			Screw
Type of terminal Conductor cross secti	· · ·			Screw
Conductor cross secti	ION	min	mm²	0.2
		Max	mm² mm²	2.5
		iviax min	AWG	2.5
		Max	AWG	12
Tightening torque (Ma	w)	IVIAX	AWG	12
rigitieriirig torque (ivia	^)		Nm	0.44
			lbin	4
Ambient conditions			IDITI	4
Temperature				
remperature	Operating temperature			
	Operating temperature	min	°C	-20
		111111	C	+45°C without
				derating (up to
		max	°C	55°C with
				derating)
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution de	gree			2
Overvoltage category	-			III
Max altitude			m	2000m wihtout
wax aiiilude			m	derating
Climatic sequence				Z/ABDM (IEC/EN
Cilinatic Sequence				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
Degree of protection				IP00
				212 x 301 x 216
				(with EXA01 lugs and EXA02
Dimensions (W x H x	D)		mm	terminals
				protection: 212 x
				468 x 216)
Weight			g	6680
Dimensions				
	<u> </u>			

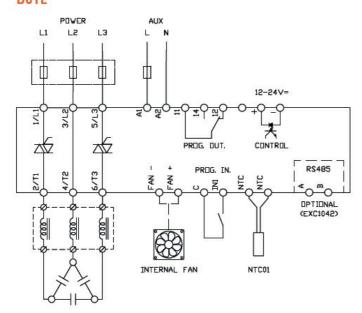


ENERGY AND AUTOMATION



Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2



DCTLA4001000

MODULES À THYRISTOR, POUR CORRECT.FACTEUR DE PUISSANCE. 100KVAR 400VAC

IEC/EN 61000-6-4

Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -Solid state relay