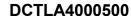




			and the second
Product designation			Thyristor
Floduct designation			modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400
Operating voltage range			340440
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	72
Step power at			
	00VAC	kvar	50
Peak inverse voltage (PIV)		VAC	1800
Number of controlled phases		Nr.	2
Control circuit			12-24VDC input or free-voltage input or via RS485 serial port (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			OONTDOL ./
Terminals Personal Programme Terminals			CONTROL +/-
Rated voltage			12-24VDC
Operating range			830VDC
Digital inputs			0.1014
Terminals			C-IN1
Applied voltage at contact (internal)		A	5VDC
Input current		mA	≤10
Low input signal		VDC	≤0.8
I Bala Sana da alama al		1/00	> 0 0
High input signal		VDC	≥3.2
Input signal delay		VDC ms	≥3.2 ≥50
Input signal delay NTC probe input			≥50
Input signal delay			





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: 10x10 ³ NC contact: 20x10 ³
Mechanical life		cycles	107
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	AWG	2 x 18
	Max	AWG	2 x 2
Tightening torque (Max)			
		Nm	5.5-6.5
Orange stiene and account out		lbin/lbft	4.06-4.79 lbft
Connections - relay output			Corour
Type of terminal Conductor cross section			Screw
Conductor cross section	min	mama ²	0.2
	min Max	mm² mm²	0.2 4
	min	AWG	26
	Max	AWG	10
Tightening torque (Max)	IVICA	71110	10
rightering 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



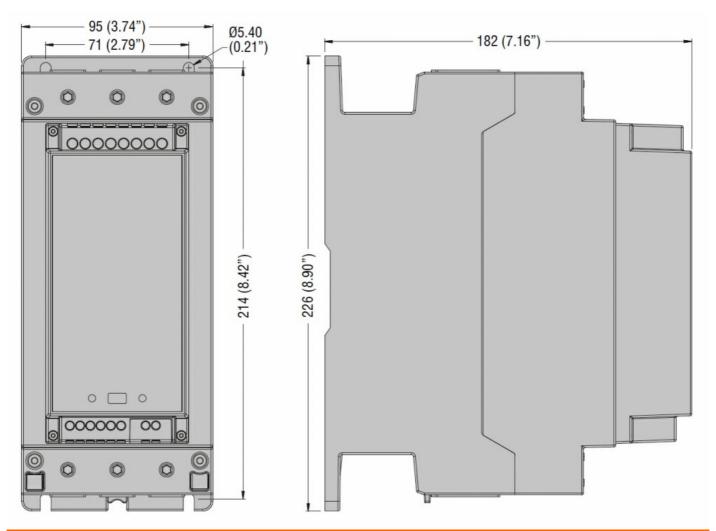


THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

Nm	Tightening torque (Max	x)			
Ambient conditions Temperature Tempera					0.44
Public				lbin	4
Part					
Max "C -20	Temperature				
transport to the transp		Operating temperature		0.0	00
max °C derating (up to 55°°C with derating) Storage temperature min °C -30 max °C +80 Relative humidity % <80% Maximum Pollution degree 2 2 Overvoltage category III m 2000m wihtout derating derating 2 ABDM (IEC/EN 60068-2-61) 5 CE/EN 60068-2-61) 60068-2-61) 60068-2-61) 5 Generating (up to 50°C in the second of the sec			min	°C	
Storage temperature					
Storage temperature			max	°C	
Storage temperature min o C max o C max -30 max o C max Relative humidity % < 80%					
Relative humidity % <80 % Maximum Pollution degree 2 Overvoltage category III Max altitude m 2000m wintout derating Climatic sequence 27/ABDM (IEC/EN 60068-2-61) Shock resistance 15g (IEC/EN 60068-2-27) Vibration resistance 0.7g (IEC/EN 60068-2-27) Housing Internal panel version Execution Polycarbonate 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 95 x 226 x 182 Weight g 2840		Storage temperature			<u> </u>
Relative humidity % <80% Maximum Pollution degree 2 Overvoltage category III Max altitude m 2000m wintout derating derati		5 1	min	°C	-30
Maximum Pollution degree 2 Overvoltage category III Max altitude m 2000m wintout derating Climatic sequence Z/ABDM (IEC/EN 60068-2-61) Shock resistance 15g (IEC/EN 60068-2-67) Vibration resistance 0.7g (IEC/EN 60068-2-7) Housing Internal panel version Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840			max	°C	+80
Overvoltage category III Max altitude m 2000m without derating Climatic sequence Z/ABDM (IEC/EN 60068-2-61) Shock resistance 15g (IEC/EN 60068-2-27) Vibration resistance 0.7g (IEC/EN 60068-2-27) Housing Internal panel version Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Relative humidity			%	<80%
Max altitude m 2000m without derating Climatic sequence Z/ABDM (IEC/EN 60068-2-61) Shock resistance 15g (IEC/EN 60068-2-27) Vibration resistance 0.7g (IEC/EN 60068-2-27) Housing Internal panel version Execution Polycarbonate Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Maximum Pollution de	gree			2
Max attitude 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 Internal panel version Execution Polycarbonate 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 95 x 226 x 182 Weight g 2840	Overvoltage category				III
Climatic sequence	Max altitude			m	
Climatic sequence 60068-2-61) Shock resistance 15g (IEC/EN 60068-2-27) Vibration resistance 0.7g (IEC/EN 60068-2-6) Housing Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	- Iviax aiiitaac				
Shock resistance 15g (IEC/EN 60068-2-27)	Climatic sequence				
Shock resistance 60068-2-27) Vibration resistance 0.7g (IEC/EN 60068-2-6) Housing Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840					
Vibration resistance 0.7g (IEC/EN 60068-2-6) Housing Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Shock resistance				
Housing Internal panel version Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Dimensions (W x H x D) Polycarbonate Polyca					
Housing Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Vibration resistance				
Execution Internal panel version Material Polycarbonate Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Housing				00000 2 0)
Naterial Polycarbonate					Internal panel
Mounting Screw fixing or DIN-rail (IEC/EN 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Execution				
$\begin{array}{c} & \begin{array}{c} DIN\text{-rail (IEC/EN} \\ 60715) \text{ with} \\ \text{optional} \\ \text{accessory} \\ \text{EXP8003} \end{array} \\ \hline \text{Degree of protection} \\ \hline Dimensions (W x H x D) \\ \hline \text{Weight} \end{array}$	Material				Polycarbonate
Mounting 60715) with optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840					
Mounting optional accessory EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840					
Degree of protection P00	Mounting				
EXP8003 Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	· ·				
Degree of protection IP00 Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840					
Dimensions (W x H x D) mm 95 x 226 x 182 Weight g 2840	Degree of protection				
Weight g 2840		D)		mm	
	'	,			
				J	

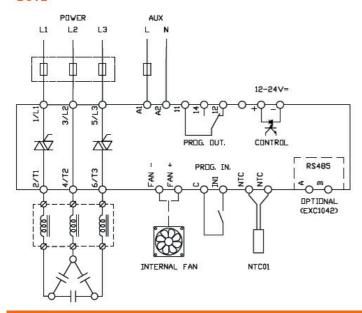


ENERGY AND AUTOMATION



Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4





THYRISTORMODUL 7.5KVAR 400VAC MIT SPANNUNGSREGLER SERIE DCTL NFC

Certificates

cULus

ETIM classification

EC002055 -ETIM 8.0 Solid state relay