

THYRISTOR MODULE, 36KVAR AT 480VAC, RATED OPERATING VOLTAGE 400...480VAC, WITH CURRENT CONTROL

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Product designation			Thyristor modules
Product type designation			DCTL
General characteristics			
Rated voltage		V	400480
Operating voltage range			340528
Rated frequency		Hz	50/60
Operating frequency range		Hz	4565
Rated current (le)		Α	43
Step power at			
40	00VAC	kvar	36
44	40VAC	kvar	33
48	30VAC	kvar	36
Peak inverse voltage (PIV)		VAC	2200
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	11.8
Power dissipation Max		W	4.6
Control input			OONITE OL /
Terminals			CONTROL +/-
Rated voltage			12-24VDC
Operating range			830VDC
Digital inputs			0.1114
Terminals			C-IN1
Applied voltage at contact (internal)			5VDC
Input current		mA	≤10
Low input signal		VDC	≤0.8
High input signal		VDC	≥3.2
Input signal delay		ms	≥50
NTC probe input			NEO NEO
Terminals			NTC-NTC





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Sensor type			NTC (ordering
		00	code NTC01)
Measuring range		°C	-25+85
Maximum connection lenght		mt	3
Fan power supply Terminals			FAN +/-
			5VDC (provided
Supply voltage (internal)			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
Type of terminal Conductor cross section			
	min	mm²	
	min Max	mm² mm²	lock clamp
	Max min	mm² AWG	2 x 2.5 2 x 35 2 x 18
Conductor cross section	Max	mm²	2 x 2.5 2 x 35
	Max min	mm² AWG AWG	2 x 2.5 2 x 35 2 x 18 2 x 2
Conductor cross section	Max min	mm² AWG AWG	2 x 2.5 2 x 35 2 x 18 2 x 2
Conductor cross section Tightening torque (Max)	Max min	mm² AWG AWG	2 x 2.5 2 x 35 2 x 18 2 x 2
Conductor cross section Tightening torque (Max) Connections - relay output	Max min	mm² AWG AWG	2 x 2.5 2 x 35 2 x 18 2 x 2 4-5 2.95-3.69 lbft
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Conductor cross section Tightening torque (Max) Connections - relay output	Max min Max	mm² AWG AWG Nm Ibin/lbft	2 x 2.5 2 x 35 2 x 18 2 x 2 4-5 2.95-3.69 lbft
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Conductor cross section Tightening torque (Max) Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input	Max min Max min Max min	mm² AWG AWG Nm Ibin/lbft mm² mm² AWG AWG Nm	2 x 2.5 2 x 35 2 x 18 2 x 2 4-5 2.95-3.69 lbft Screw 0.2 4 26 10 0.8 7
Conductor cross section Tightening torque (Max) Connections - relay output Type of terminal Conductor cross section Tightening torque (Max) Connections - fan and digital input Type of terminal	Max min Max min Max min	mm² AWG AWG Nm Ibin/lbft mm² mm² AWG AWG Nm	2 x 2.5 2 x 35 2 x 18 2 x 2 4-5 2.95-3.69 lbft Screw 0.2 4 26 10
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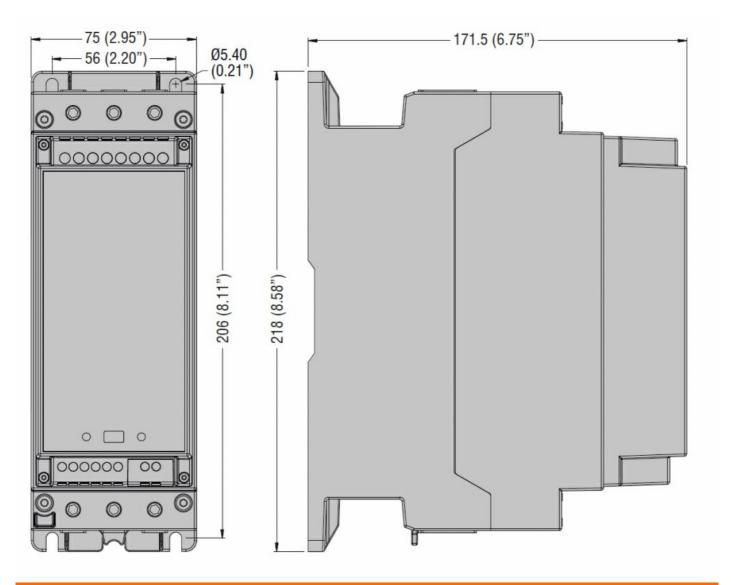


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		min Max	AWG AWG	24 12
Tightening torque (Ma	ax)	IVICA	71110	
	,		Nm	0.44
			lbin	4
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
				+45°C without
		max	°C	derating (up to
				55°C with
	Storage temperature			derating)
	Storage temperature	min	°C	-30
		max	°C	+80
Relative humidity		max	%	<80%
Maximum Pollution d	earee		70	2
Overvoltage category	-			
	,			2000m wihtout
Max altitude			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				lateral cond
Execution				Internal panel version
 Material				Polycarbonate
iviateriai				Screw fixing or
				DIN-rail (IEC/EN
NA C				60715) with
Mounting				optional
				accessory
				EXP8003
Degree of protection				IP00
Dimensions (W x H x	: D)		mm	75 x 218 x 171.5
Weight			g	1740
Dimensions				

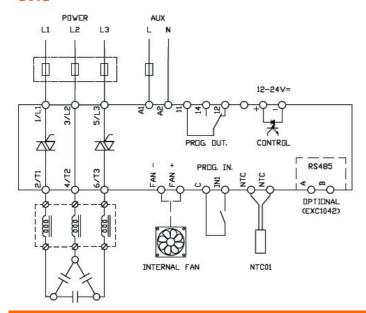
ENERGY AND AUTOMATION

THYRISTOR MODULE, 36KVAR AT 480VAC, RATED OPERATING VOLTAGE 400...480VAC, WITH CURRENT CONTROL



Wiring diagrams

DCTL



Certifications and compliance

Compliance



DCTLA4800360

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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