



General characteristics

Rated voltage	V	600...690
Operating voltage range		340...759
Rated frequency	Hz	50/60
Operating frequency range	Hz	45...65
Rated current (Ie)	A	48
Step power at		
	400VAC	kvar 50
	440VAC	kvar 37
	480VAC	kvar 40
	525VAC	kvar 44
	600VAC	kvar 50
	690VAC	kvar 50
Peak inverse voltage (PIV)	VAC	3600
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

Terminals	CONTROL +/-
Rated voltage	12-24VDC
Operating range	8...30VDC

Digital inputs

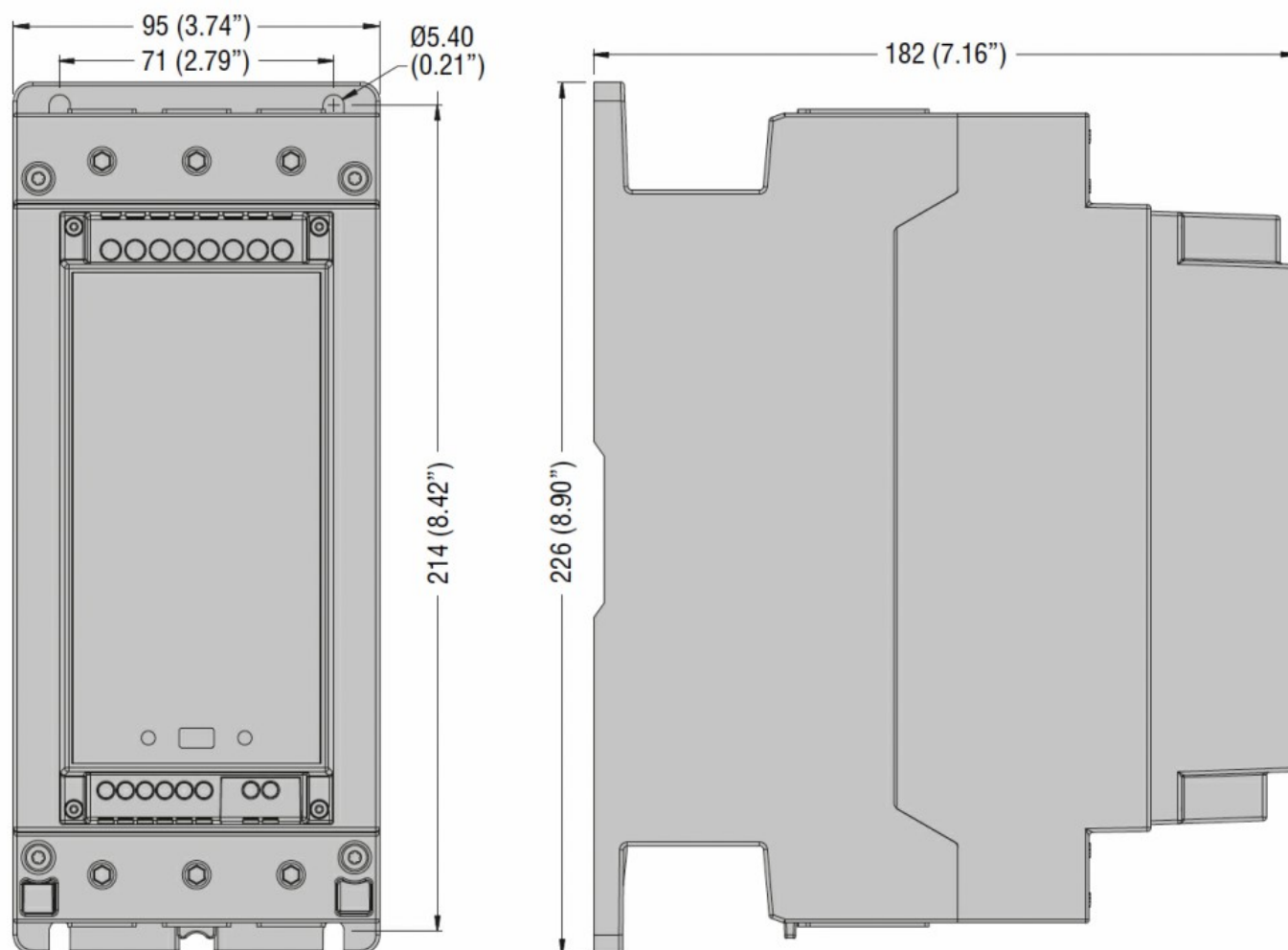
Terminals	C-IN1
Applied voltage at contact (internal)	5VDC
Input current	mA ≤10
Low input signal	VDC ≤0.8
High input signal	VDC ≥3.2
Input signal delay	ms ≥50

NTC probe input

Terminals	NTC-NTC
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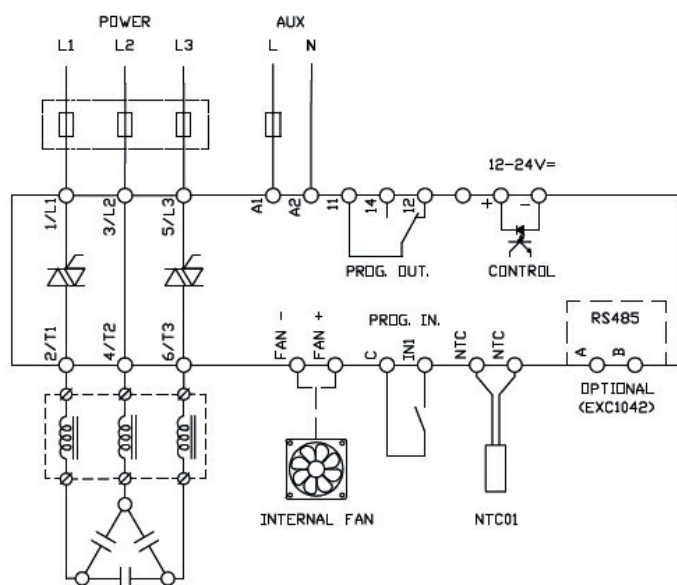
Sensor type	NTC (ordering code NTC01)		
Measuring range	°C	-25...+85	
Maximum connection lenght	mt	3	
Fan power supply			
Terminals	FAN +/-		
Supply voltage (internal)	5VDC (provided by DCTL)		
Fan type	2 built-in fans type EXP8004		
Relay outputs			
Number of relay output	Nr.	1	
Contact arrangement	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	690	
Rated impulse withstand voltage Uimp	kV	6	
Connections - power terminals			
Type of terminal	Fixed - double lock clamp		
Conductor cross section	min	mm ²	2 x 2.5
	Max	mm ²	2 x 35
	min	AWG	2 x 18
	Max	AWG	2 x 2
Tightening torque (Max)	Nm	5.5-6.5	
	lbin/lbft	4.06-4.79 lbft	
Connections - relay output			
Type of terminal	Screw		
Conductor cross section	min	mm ²	0.2
	Max	mm ²	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	mm ²	0.2

		Max	mm ²	2.5
		min	AWG	24
		Max	AWG	12
Tightening torque (Max)				
			Nm	0.44
			lbin	4
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
				+45°C without derating (up to 55°C with derating)
		max	°C	
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution degree				2
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 60068-2-6)
Housing				
Execution				Internal panel version
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
Dimensions				



Wiring diagrams

DCTL



Certifications and compliance

Compliance

IEC/EN 60947-4-3

IEC/EN 61000-6-2

IEC/EN 61000-6-4

Certificates

cULus

ETIM classification

ETIM 8.0

EC002055 -
Solid state relay