





Product designation

Automatic power factor controller, 5 steps, icon display

Product type designation

Auxiliary supply

Auxiliary supply

Product type designation			DCRL5
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC			
	min	VAC	100
	Max	VAC	440
DC			
	min	VDC	110
	Max	VDC	250
Auxiliary operating range			90484VAC /
			93.5300VDC
Auxiliary rated frequency		Hz	50/60 ±10%
Power consumption Max		VA	9.5
Power dissipation Max		W	3.5
Immunity time for microbreakings		ms	<25
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L
			(rated max)
Operating range			50720VAC L-L
			(415VAC L-N)
Frequency range		Hz	4565
Type of measure			True RMS value
No-voltage release		ms	≥8
Measurement input impedance		kΩ	>1.10MΩ L-L,
· · · · · · · · · · · · · · · · · · ·			>0.55MΩ L-N
			Single phase, two
			phase, three phase with or
Type of connection			without neutral or
			balanced three
			phase system
Current inputs			
Number of current input		Nr.	1
			Shunt supplied
			by external
Type of input			current
			transformer (low
			voltage). Max 5A
			0.0256A~ for
Measurement range			5A scale;
			0.0251.2A~ for 1A scale
Measurement method			True RMS value
Measurement method			True INIVIO VAIUE



**ENERGY AND AUTOMATION** 

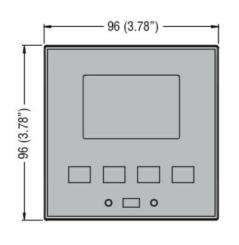
Occupations associated		1	4.0.1-
Constant overload		le ^	1.2 le
Overload peak		A	50A for 1s
Burden per phase  Measurement data		W	<0.6VA
			True RMS value
Type of voltage and current measurement			
Power factor adjustment			0.5ind0.5cap.
Type of temperature sensor		°C	Internal 0+212
Temperature measurement range Relay outputs		C	0+212
Relay outputs			5 (up to 8 with
Number of relay output		Nr.	EXP10 06 -
			EXP10 07)
Contact arrangement			4 NO-SPST + 1 C/O-SPDT
Rated current			5A 250V AC1
UL/CSA and IEC/EN 60947-5-1 designation			B300
Maximum current at common contact terminal		Α	10
Maximum switching voltage		VAC	415
Electrical life (with rated load)		cycles	10 <sup>5</sup>
Mechanical life		cycles	10 <sup>7</sup>
Insulations			
Rated insulation voltage Ui IEC/EN		V	600
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage		kV	5.2
Connections			
Type of terminal			Plug-in,
			removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
		A1A/O	24AWG (18AWG
	min	AWG	according to UL/CSA)
	Max	AWG	12
Tightening torque (Max)	IVIAA	AVVG	12
rigittering torque (wax)		Nm	0.56
		lbin	5
Ambient conditions		IDIII	3
Temperature			
Operating temperature			
Operating temperature	min	°C	-20
	max	°C	+60
Storage temperature	Пих		100
Clorago temporataro	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree		,,,	2
Overvoltage category			3
Measurement category			III
			Z/ABDM (IEC/EN
Climatic sequence			60068-2-61)
Shock resistance			15g (IEC/EN 60068-2-27)

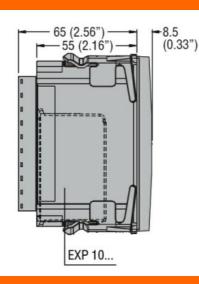


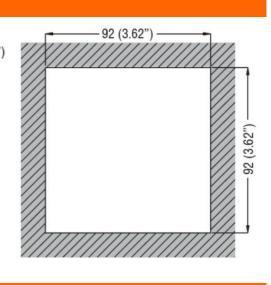
**ENERGY AND AUTOMATION** 

Vibration resistance		0.7g (IEC/EN 60068-2-6)
Housing		
Execution		Flush mount
Material		Polycarbonate
		Flush-mount
Mounting		96x96mm
		(3.78x3.78")
		IP54 on front with
		gasket, if
Degree of protection		mounted in class
		IP54 panel or
		better. IP20
		terminals
Dimensions (W x H x D)	mm	96 x 96 x 73.5
Weight	g	340

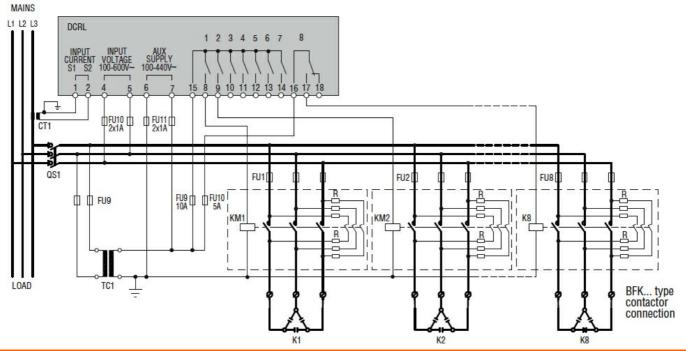
# **Dimensions**







### Wiring diagrams



#### Certifications and compliance





**ENERGY AND AUTOMATION** 

# AUTOMATIC POWER FACTOR CONTROLLER, DCRL SERIES, 5 STEPS

# Compliance

Certificates

CSA C22.2 n°14

IEC/EN 61000-6-2

IEC/EN 61000-6-4

IEC/EN 61010-1

IEC/EN 61010-2-030

UL 508

CULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay