



Product designation

Automatic power factor controller, 5 steps, icon display

Product type designation

DCRL5

			display
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		1110	120
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
Type of connection			Single phase, two phase, three phase with or without neutral or balanced three phase system
Current inputs			
Number of current input		Nr.	1
Type of input			Shunt supplied by external current transformer (low voltage). Max 5A
Measurement range			0.0256A~ for 5A scale; 0.0251.2A~ for 1A scale
Measurement method			True RMS value



ENERGY AND AUTOMATION

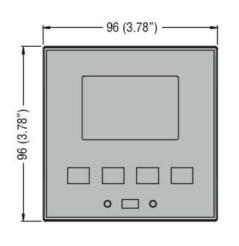
Occapionist supplies d		1	4.0.1-
Constant overload		le	1.2 le
Overload peak		Α	50A for 1s
Burden per phase		W	<0.6VA
Measurement data			True RMS value
Type of voltage and current measurement			
Power factor adjustment			0.5ind0.5cap.
Type of temperature sensor		°C	Internal 0+212
Temperature measurement range Relay outputs		C	U+212
inclay 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	105
Mechanical life		cycles	107
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,
Type of terminal			removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
			24AWG (18AWG
	min	AWG	according to
			UL/CSA)
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.56
		lbin	5
Ambient conditions			
Temperature			
Operating temperature	!	° C	00
	min	°C	-20
Otana na tama anatura	max	°C	+60
Storage temperature	!	° C	20
	min	°C	-30
Deletive hymidity	max		+80
Relative humidity		%	<80%
Maximum Pollution degree			3
Overvoltage category			
Measurement category			7/APDM (IEC/EN
Climatic sequence			Z/ABDM (IEC/EN 60068-2-61)
Shock resistance			15g (IEC/EN 60068-2-27)
			,

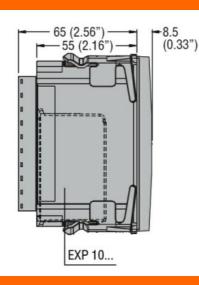


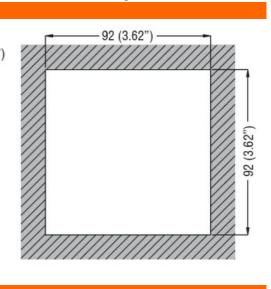
ENERGY AND AUTOMATION

Vibration resistance		0.7g (IEC/EN 60068-2-6)
Housing		
Execution		Flush mount
Material		Polycarbonate
		Flush-mount
Mounting		96x96mm
Degree of protection		(3.78x3.78")
		IP54 on front with
		gasket, if
		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

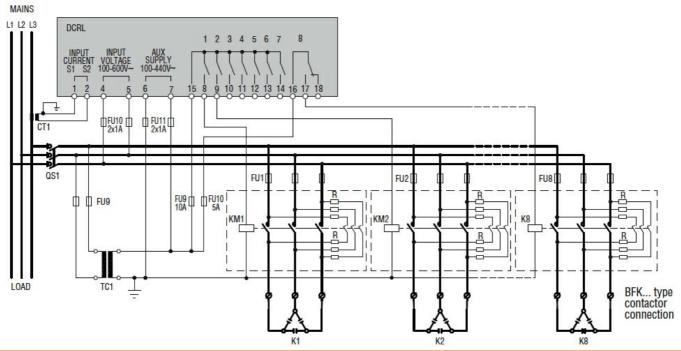
Dimensions







Wiring diagrams



Certifications and compliance







ENERGY AND AUTOMATION

Compliance

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

Certificates

RCM

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay