



			· 🖬 ·
Product designation			Automatic power factor controller, 5 steps, icon display
Product type designation			DCRL5
Auxiliary supply			
Rated auxiliary supply voltage Us AC			
AC	min	VAC	100
	Max	VAC	440
DC		110	
	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		1113	~2 5
			600VAC L-L
Rated voltage (Ue)		VAC	(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
Type of connection			phase with or
			without neutral or
			balanced three
Current inputs			phase system
Number of current input		Nr.	1
		1.11.	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

DCRL5

Measurement method

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

True RMS value



Constant overload le 1.2 le Overload peak А 50A for 1s Burden per phase W <0.6VA Measurement data Type of voltage and current measurement True RMS value 0.5ind...0.5cap. Power factor adjustment Type of temperature sensor Internal °C 0...+212 Temperature measurement range Relay outputs 5 (up to 8 with Number of relay output Nr. EXP10 06 -EXP10 07) 4 NO-SPST + 1 Contact arrangement C/O-SPDT 5A 250V AC1 Rated current UL/CSA and IEC/EN 60947-5-1 designation B300 Maximum current at common contact terminal А 10 VAC 415 Maximum switching voltage 10⁵ Electrical life (with rated load) cycles Mechanical life cycles 107 Insulations Rated insulation voltage Ui IEC/EN V 600 Rated impulse withstand voltage Uimp kV 9.5 5.2 Operating frequency withstand voltage kV Functions Automatic recognition of current flow direction Yes 4-quadrant operation Yes Master-Slave function No Independent auxiliary supply input Yes Three-phase voltage control No Current inputs 1 Dynamic (FAST) power factor correction No Power factor correction by single phase No Possibility of connecting inductive steps No Possibility of use in medium voltage Yes Yes Possibility of phase-neutral insertion on a three-phase system Analog outputs No Input programmable as function or external temperature sensor No USB communication interface No RS232 communication interface Yes Opto-isolated RS485 communication interface Yes Ethernet communication interface Yes Opto-isolated Profibus-DP interface No GPRS/GSM modem No Optical USB communication port on front No Optical Wi-Fi communication port on front Yes Fast setting of current transformer Yes Compatible with Xpress configuration and remote control software Yes Compatible with Synergy and Synergy Cloud, supervision and energy management software Yes Compatible with Sam1 App Yes Calendar-clock with backup reserve power No No Data logging memory Event logging: alarms, setup changes, etc. No

DCRL5



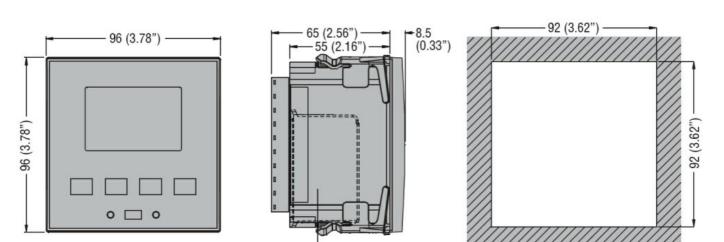
ENERGY AND AUTOMATION

A	UTOMATIC	POWER FAC	TOR CONTR	KOLLER, DCR	L SERIES, 5	STEPS

Customisable internal	counters			No
Connections				Dhua ia
Type of terminal				Plug-in, removable
Conductor cross section	on			
		min	mm²	0.2
		Max	mm²	2.5
				24AWG (18AWG
		min	AWG	according to UL/CSA)
		Max	AWG	12
Tightening torque (Max		IVIdX	ANG	12
rightening torque (max)		Nm	0.56
			lbin	5
Ambient conditions				5
Temperature				
romporatoro	Operating temperature			
	operating temperature	min	°C	-20
		max	°Č	+60
	Storage temperature			
		min	°C	-30
		max	°C	+80
Relative humidity			%	<80%
Maximum Pollution de	gree			2
Overvoltage category	<u> </u>			3
Measurement category	1			
				Z/ABDM (IEC/EN
Climatic sequence				60068-2-61)
Shock resistance				15g (IEC/EN
				60068-2-27)
Vibration resistance				0.7g (IEC/EN
				60068-2-6)
Housing				
Execution				Flush mount
Material				Polycarbonate
Mounting				Flush-mount 96x96mm
wounting				(3.78x3.78")
				IP54 on front with
				gasket, if
Dograp of protoction				mounted in class
Degree of protection				IP54 panel or
				better. IP20
				terminals
Dimensions (W x H x I))		mm	96 x 96 x 73.5
Weight			g	340
Dimensions				

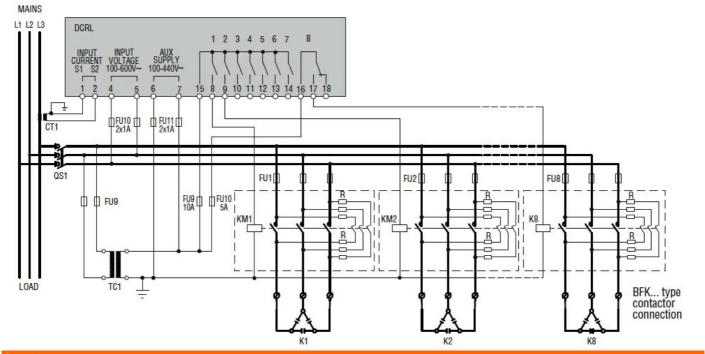


DCRL5 AUTOMATIC POWER FACTOR CONTROLLER, DCRL SERIES, 5 STEPS



EXP 10...

Wiring diagrams



Certifications and compliance

Compliance

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	
Certificates		
	cULus	
	EAC	
	RCM	
ETIM classification		
ETIM 8.0		EC001443 - Effective power (cos phi) monitoring relay

DCRL5