



Product designation

Automatic power factor controller, 8 steps, icon display

Product type designation

DCRL8

Product type designation			DCRL8
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 /
Auxiliary operating range			93.5300VDC
Auxiliary rated frequency		Hz	50/60 ±10%
Power consumption Max		VA	8.5
Power dissipation Max		W	3
Immunity time for microbreakings		ms	<25
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L
Nated Voltage (Oe)		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	>15MΩ
			Single phase, two
			phase, three
Type of connection			phase with or
			without neutral or
			balanced three phase system
Current inputs			priase system
Number of current input		Nr.	1
Number of current input		INI.	Shunt supplied
			by external
Type of input			current
, , p = 0p = 0.			transformer (low
			voltage). Max 5A
			0.0256A~ for
Measurement range			5A scale;
ineasurement range			0.0251.2A~ for
			1A scale
Measurement method			True RMS value
Constant overload		le	1.2 le



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Overload peak	A	50A for 1s
Burden per phase	W	<0.6VA
Measurement data	VV	Q0.0VA
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
Type of temperature sensor		Internal
	°C	0+212
Temperature measurement range	U	0+212
Relay outputs		O /vm to 4.4 with
Number of relay output	Nr.	8 (up to 14 with EXP10 06 -
Number of relay output	INI.	EXP10 07)
		7 NO-SPST + 1
Contact arrangement		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	Cycles	10
Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2
Functions	KV	5.2
		Yes
Automatic recognition of current flow direction		Yes
4-quadrant operation		
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
Possibility of phase-neutral insertion on a three-phase system		Yes
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		Yes
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
Data logging memory		No
Event logging: alarms, setup changes, etc.		No
Customisable internal counters		No
		- -

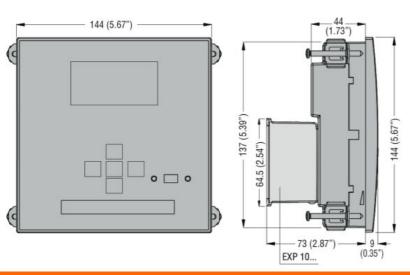


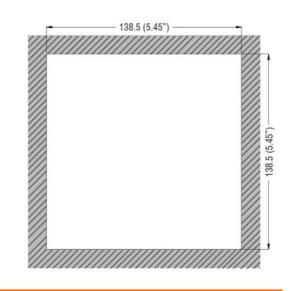
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Type of terminal Conductor cross section mi Ma Tightening torque (Max)	x mm² n AWG	Plug-in, removable 0.2 2.5 24AWG (18AWG according to UL/CSA) 12 0.56 5
mi Ma 	x mm² n AWG x AWG Nm	2.5 24AWG (18AWG according to UL/CSA) 12
Ma	x mm² n AWG x AWG Nm	2.5 24AWG (18AWG according to UL/CSA) 12
mi Ma	n AWG x AWG Nm	24AWG (18AWG according to UL/CSA) 12
Ma	x AWG	according to UL/CSA) 12 0.56
Ma	x AWG	UL/CSA) 12 0.56
	Nm	0.56
	Nm	0.56
rightening torque (iviax)		
	IDIII	3
Ambient conditions		
Temperature		
Operating temperature		
mi	n °C	-20
ma		+60
Storage temperature		
mi	n °C	-30
ma	x °C	+80
Relative humidity	%	<80%
Maximum Pollution degree		2
Overvoltage category		3
Measurement category		III
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		Flush mount
Material		Polycarbonate
		Flush-mount
Mounting		144x144mm
		(5.67x5.67")
		IP65 on front with
		gasket, if
Degree of protection		mounted in class IP65 panel or
		better. IP20
		terminals
Dimensions (W x H x D)	mm	144 x 144 x 53.2
Weight	g	640
Dimensions		

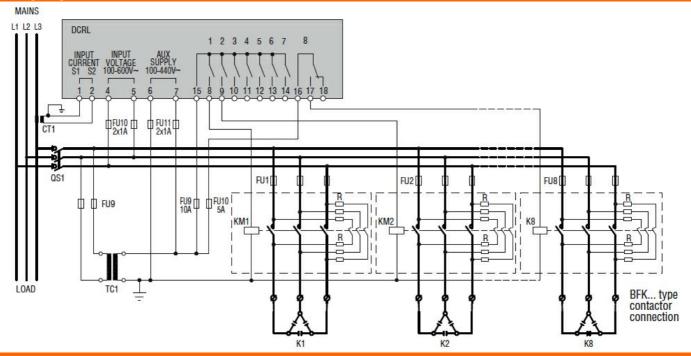


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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2-N°14

IEC/EN 61000-6-2

IEC/EN 61000-6-3

IEC/EN 61010-1 IEC/EN 61010-2-030

UL508

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay