



Product designation

Product type designation

Automatic power factor controller, 8 steps, icon display 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			
		\/AC	600VAC L-L
Rated voltage (Ue)		VAC	(rated max)
One station was as			50720VAC L-L
Operating range			(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
Type of connection			without neutral or
			balanced three
			phase system
Current inputs			· · · · ·
Number of current input		Nr.	1
<u> </u>			Shunt supplied
			by external
Type of input			current
71			transformer (low
			voltage). Max 5A
			0.0256A~ for
Maria and a second a second and			5A scale;
Measurement range			0.0251.2A~ for
			1A scale
Measurement method			True RMS value
Constant overload		le	1.2 le
John Carlo Volloud		.0	



Overload peak	Α	50A for 1s
Burden per phase	W	<0.6VA
Measurement data		
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
Type of temperature sensor		Internal
Temperature measurement range	°C	0+212
Relay outputs		
Number of relay output	Nr.	8 (up to 14 with EXP10 06 - EXP10 07)
Contact arrangement		7 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	10 ⁷
Insulations		
Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2
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
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

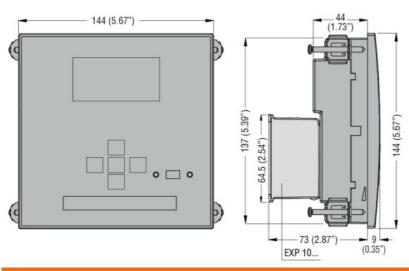


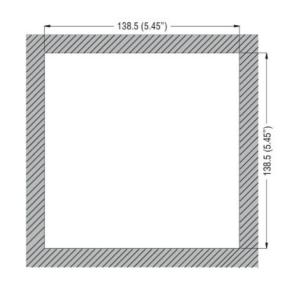
ENERGY AND AUTOMATION

Connections				
				Plug-in,
Type of terminal				removable
Conductor cross section	on			
		min	mm²	0.2
		Max	mm²	2.5
				24AWG (18AWG
		min	AWG	according to
		Max	AWG	UL/CSA) 12
Tightening torque (Max)	IVIAX	AWG	12
rigitioning torque (Max	,		Nm	0.56
			lbin	5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-20
	` -	max	°C	+60
	Storage temperature			
		min	°C	-30
Dolotivo humidity		max	°C %	+80 <80%
Relative humidity Maximum Pollution deg	NICA		70	2
Overvoltage category	gree			3
Measurement category	,			III
				Z/ABDM (IEC/EN
Climatic sequence				60068-2- 6 1)
Shock resistance				15g (IEC/EN
				60068-2-27)
Vibration resistance				0.7g (IEC/EN 60068-2-6)
Housing				60066-2-6)
Execution				Flush mount
Material				Polycarbonate
				Flush-mount
Mounting				144x144mm
				(5.67x5.67")
				IP65 on front with
				gasket, if mounted in class
Degree of protection				IP65 panel or
				better. IP20
				terminals
Dimensions (W x H x D	<u> </u>		mm	144 x 144 x 53.2
Weight			g	640
Dimensions				

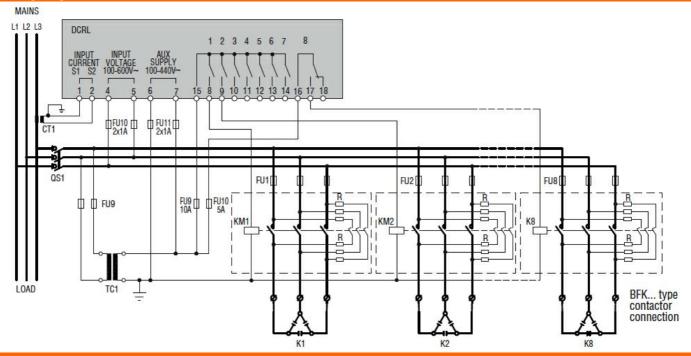








Wiring diagrams



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