



	Automatic power
Product designation	factor controller,
	3 steps, icon
	display
Product type designation	DCRL3
A DOMESTIC OF THE PROPERTY OF	

Product type designation			DCRL3
Auxiliary supply			20.120
Rated auxiliary supply voltage Us			
AC			
,	min	VAC	100
	Max	VAC	440
DC			
	min	VDC	110
	Max	VDC	250
Auxilian capaciting reage			90484VAC /
Auxiliary operating range			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
Traied voltage (de)		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
Number of current input		TNI.	Shunt supplied
			by external
Type of input			current
1 yes of hiput			transformer (low
			voltage). Max 5A
			0.0256A~ for
			5A scale;
Measurement range			0.0251.2A~ for
			1A scale
Measurement method			True RMS value



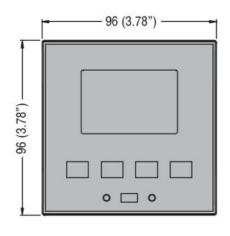
ENERGY AND AUTOMATION

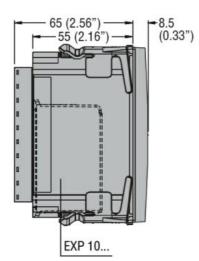
Constant available	l a	4.0.15
Constant overload	le	1.2 le
Overload peak	Α	50A for 1s
Burden per phase	W	<0.6VA
Measurement data		T 5140 1
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
Type of temperature sensor		Internal
Temperature measurement range	°C	0+212
Relay outputs		
M. of conform of the form	NI.	3 (up to 6 with
Number of relay output	Nr.	EXP10 06 -
		EXP10 07) 2 NO-SPST + 1
Contact arrangement		2 NO-SPST + T C/O-SPDT
Rated current		5A 250V AC1
		B300
UL/CSA and IEC/EN 60947-5-1 designation	Λ	
Maximum current at common contact terminal	A	10
Maximum switching voltage	VAC	415
Electrical life (with rated load)	cycles	105
Mechanical life	cycles	10 ⁷
Insulations		000
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		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
Data logging memory		No
Event logging: alarms, setup changes, etc.		No
		. 10

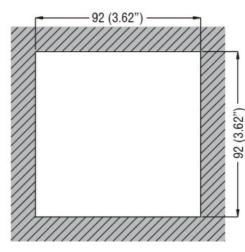


Customisable intern	nal counters			No
Connections				
Type of terminal				Plug-in, removable
Conductor cross se	ection			101110144010
		min	mm²	0.2
		Max	mm²	2.5
				24AWG (18AWG
		min	AWG	according to UL/CSA)
		Max	AWG	12
Tightening torque (N	Max)			
			Nm	0.56
			lbin	5 (4-5 according
			IDIII	to UL/CSA)
Ambient conditions				
Temperature				
	Operating temperature	_		
		min	°C	-20
		max	°C	+60
	Storage temperature		20	
		min	°C	-30
Deletive by anidity		max	°C	+80
Relative humidity	damaa		%	<80%
Maximum Pollution	-			3
Overvoltage catego				III
Measurement categ	gory			
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				00000 2 0)
Execution				Flush mount
Material				Polycarbonate
				Flush-mount
Mounting				96x96mm
				(3.78x3.78")
				IP54 on front with
				gasket, if
Degree of protectio	n			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			3	

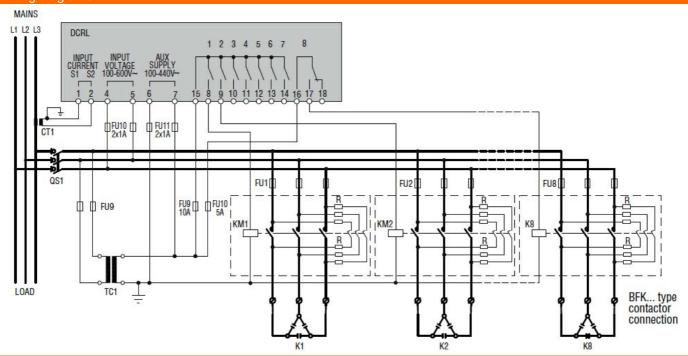








Wiring diagrams



Certifications and 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