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Product designation Product type designation			Automatic power factor controller, 5 steps, icon display DCRL5	
Auxiliary supply				
Rated auxiliary supply voltage Us				
AC	min	VAC	100	
	Max	VAC	440	
DC	With	VAO		
	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				
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, tw 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~ fo	

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1A scale

True RMS value

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



DCRL5 RÉGULATEUR VARMÉTRIQUES, 400VAC, 5 GRADINS EXTENSIBLE À 8 GRADINS, 100-440VAC

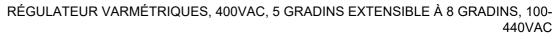
Constant overload	le	1.2 le
Overload peak	A	50A for 1s
Burden per phase	W	<0.6VA
Measurement data		
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
Type of temperature sensor		Internal
Temperature measurement range	°C	0+212
Relay outputs		
		5 (up to 8 with
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	А	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
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

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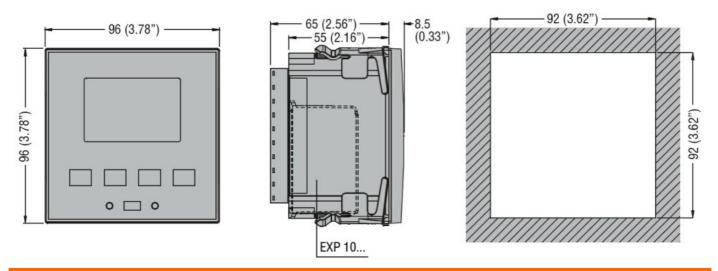


Customisable internal counters			No
Connections			
Type of terminal			Plug-in, removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5 24AWG (18AWG
	min	AWG	according to UL/CSA)
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.56
		lbin	5
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	+60
Storage temperature		° 0	
	min	°C °C	-30
Relative humidity	max	~ %	+80 <80%
Maximum Pollution degree		70	2
Overvoltage category			3
Measurement category			
			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
			Flush-mount
Mounting			96x96mm
			(3.78x3.78")
			IP54 on front with
			gasket, if mounted in class
Degree of protection			IP54 panel or
			better. IP20
			terminals
Dimensions (W x H x D)		mm	96 x 96 x 73.5
Weight		g	340
Dimensions			

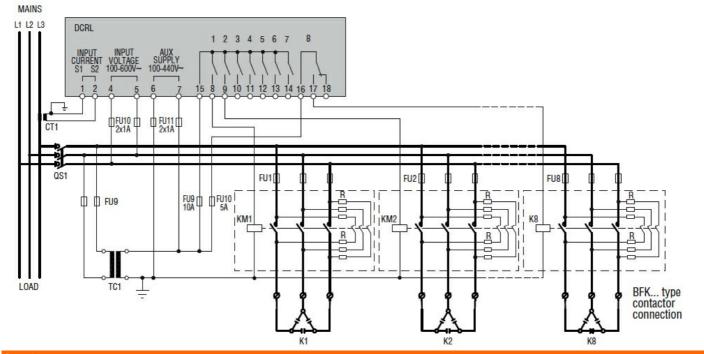
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Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°14	
IEC/EN 61000-6-2	
IEC/EN 61000-6-4	
IEC/EN 61010-1	
IEC/EN 61010-2-030	
UL 508	
cULus	
EAC	
RCM	
	EC001443 - Effective power (cos phi) monitoring relay
	IEC/EN 61000-6-2 IEC/EN 61000-6-4 IEC/EN 61010-1 IEC/EN 61010-2-030 UL 508 cULus EAC

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