



Product designation Product type designation			Automatic power factor controller, 3 steps, icon display DCRL3
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 /
			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			0001/401
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 Current inputs			Single phase, two phase, three phase with or without neutral or balanced three phase system
Number of current input		Nr.	1
Number of current input		INI.	Shunt supplied
Type of input			by external current transformer (low voltage). Max 5A
Measurement range			0.0256A~ for 5A scale; 0.0251.2A~ for 1A scale
Measurement method			True RMS value



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Constant overload	le	1.2 le
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		
		3 (up to 6 with
Number of relay output	Nr.	EXP10 06 - EXP10 07)
		2 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	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	IX V	5.2
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

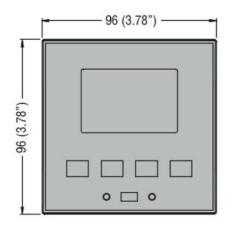


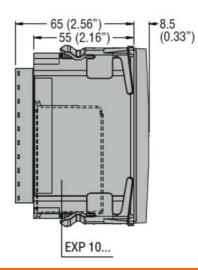
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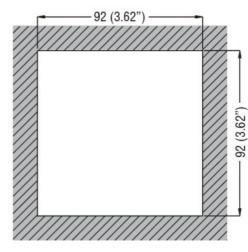
Customisable internal counters			No
Connections			Di
Type of terminal			Plug-in, removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
		414/0	24AWG (18AWG
	min	AWG	according to
	Mov	AWG	UL/CSA) 12
Tightoning torque (May)	Max	AVVG	12
Tightening torque (Max)		Nm	0.56
		INIII	5 (4-5 according
		lbin	to UL/CSA)
Ambient conditions			to objoort)
Temperature			
Operating temperature			
oporating temperature	min	°C	-20
	max	°C	+60
Storage temperature			
Storage temperature	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree			2
Overvoltage category			3
Measurement category			III
			Z/ABDM (IEC/EN
Climatic sequence			60068-2-61)
Charle variations			15g (IEC/EN
Shock resistance			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
Degree of protection			mounted in class IP54 panel or
			better. IP20
			terminals
Dimensions (W x H x D)		mm	96 x 96 x 73.5
		g	340
Weight			



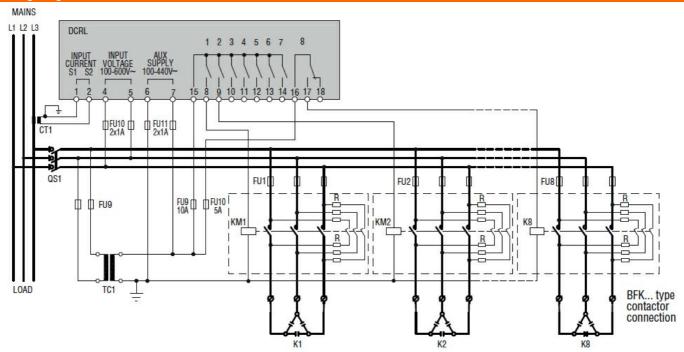
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Wiring diagrams



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

Certificates

cULus

EAC

RCM

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay