



AUTOMATIC POWER FACTOR CONTROLLER, DCRG SERIES, 8 STEPS, EXPANDABLE UP TO 24 STEPS FOR CAPACITIVE REACTIVE POWER FACTOR CORRECTION



Product designation Product type designation			Automatic power factor controller, 8 relay steps, graphic display, for capacitive reactive power factor correction DCRG8IND
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC			
	min	VAC	100
	Max	VAC	415
DC	min	VDC	110
	min Max	VDC	110 250
	IVIAX	VDC	90484VAC /
Auxiliary operating range			93.5300VDC
Auxiliary rated frequency		Hz	50/60 ±10%
Power consumption Max		VA	27 (with 4 EXP modules)
Power dissipation Max		W	10.5 (with 4 EXP modules), 5.5 (with no EXP modules)
Immunity time for microbreakings		ms	≥35ms (110VAC);≥80ms (220415VAC)
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L (rated max)
Operating range			50720VAC L-L (415VAC L-N)
Frequency range		Hz	4565 Hz / 360440 Hz
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, two phase, three phase with or without neutral or balanced three phase system
Current inputs			
Number of current input		Nr.	3





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		Shunt supplied
		by external
Type of input		current
		transformer (low
		voltage). Max 5A
		0.0256A~ for
Measurement range		5A scale;
•		0.0251.2A~ for 1A scale
Management and bad		
Measurement method	1 -	True RMS value
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.
		Internal + PT100
Type of temperature sensor		with EXP1004 +
Type of temperature sensor		NTC with
		EXP1016
Temperature measurement range	°C	0+212
Relay outputs		
		8 (up to 18 with
Number of relay output	Nr.	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	10 ⁵
Mechanical life	cycles	30 x 10 ⁶
Static Outputs	, i	
		0 (up to 8 with
Number of static output		EXP1001)
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	I.V	0.2
Automatic recognition of current flow direction		Yes
4-quadrant operation		Yes
Master-Slave function		
		No
Independent auxiliary supply input		Yes
Three-phase voltage control		Yes
Current inputs		3
Dynamic (FAST) power factor correction		Yes
Power factor correction by single phase		Yes
Possibility of connecting inductive steps		Yes
Possibility of use in medium voltage		Yes
Possibility of phase-neutral insertion on a three-phase system		Yes
Analog outputs		Yes
Input programmable as function or external temperature sensor		Yes
1 - 1 - 3g		





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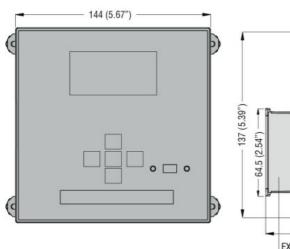
1100			
USB communication in			Yes
RS232 communication			Yes
_ 	communication interface		Yes
Ethernet communication			Yes
Opto-isolated Profibus	-DP interface		Yes
GPRS/GSM modem			Yes
Optical USB communication port on front			Yes
Optical Wi-Fi communication port on front			Yes
Fast setting of current 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	Арр		Yes
Calendar-clock with ba	ckup reserve power		Yes
Data logging memory			Yes
Event logging: alarms,	setup changes, etc.		Yes
Customisable internal	counters		Yes
Connections			
Type of terminal			Plug-in,
Type of terminal			removable
Conductor cross section	on		
	mir	n mm²	0.2
	Ma	c mm²	2.5
			24AWG (18AWG
	mir	n AWG	according to
			UL/CSA)
	Ma:	(AWG	12
Tightening torque (Max	()		
		Nm	0.56
			5lbin (4-5lbin
		lbin	according to
A 1.1 4 194			UL/CSA)
Ambient conditions			
Temperature			
	Operating temperature	0.0	00
	mir	_	-20
	max max	(°C	+70
	Storage temperature	0.0	0.0
	mir		-30
Date Continue Pr	max		+80
Relative humidity		%	<80%
Maximum Pollution de	gree		2
Overvoltage category			3
Measurement category	<u> </u>		III
Climatic sequence			Z/ABDM (IEC/EN 60068-2-61)
Shock resistance			15g (IEC/EN 60068-2-27)
Vibration registeres			0.7g (IEC/EN
Vibration resistance			60068-2-6)
Housing			
Execution			Flush mount
Material			Polycarbonate

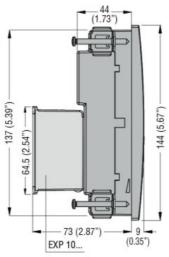
ENERGY AND AUTOMATION

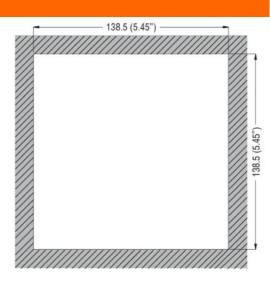
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		Flush-mount
Mounting		144x144mm
		(5.67x5.67")
Degree of protection		IP65 on front,
		IP20 terminals
Dimensions (W x H x D)	mm	144 x 144 x 53.2
Weight	g	980

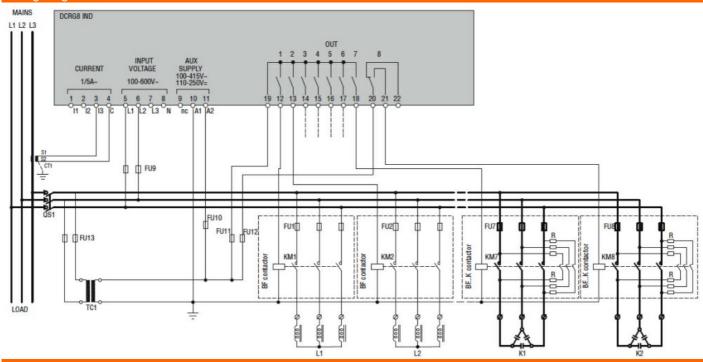
Dimensions







Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°14

IEC 61010-1

IEC/EN 61000-6-2

IEC/EN 61000-6-3

UL 508

Certificates

cULus



DCRG8IND

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EAC

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay