



AUTOMATICKÝ REGULÁTOR VÝKONU, ŘADA DCRG, 8 RELEOVÝCH STUPŇŮ, ROZŠIŘITELNÉ AŽ NA 24 STUPŇŮ, 100...415VAC, PRO KOMPENZACI KAPACITNÍHO JALOVÉHO ÚČINÍKU



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	IVICA	77.0	
	min	VDC	110
	Max	VDC	250
Auxiliary operating range			90484VAC / 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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Type of input		Shunt supplied by external current transformer (low
Measurement range		voltage). Max 5A 0.0256A~ for 5A scale; 0.0251.2A~ for 1A scale
Measurement method		True RMS value
Constant overload	le	1.2 le
Overload peak	A	50A for 1s
Burden per phase	W	<0.6VA
Measurement data	• • • • • • • • • • • • • • • • • • • •	40.0771
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
Type of temperature sensor		Internal + PT100 with EXP1004 + NTC with EXP1016
Temperature measurement range	°C	0+212
Relay outputs		
Number of relay output	Nr.	8 (up to 18 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	30 x 10 <sup>6</sup>
Static Outputs		
Number of static output		0 (up to 8 with 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		
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 use in modium voltage		Yes Yes
Possibility of use in medium voltage  Possibility of phase-neutral insertion on a three-phase system		Yes
Analog outputs		Yes
Input programmable as function or external temperature sensor		Yes





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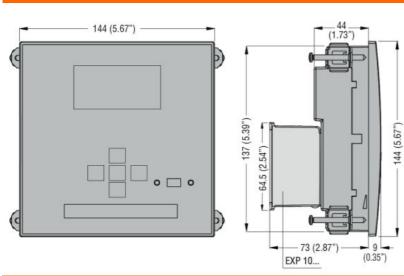
USB communication interface		Yes
RS232 communication interface		Yes
Opto-isolated RS485 communication interface		Yes
Ethernet communication interface		Yes
Opto-isolated Profibus-DP interface		Yes
GPRS/GSM modem		Yes
Optical USB communication port on front		Yes
Optical Wi-Fi communication port on front		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 softwar	Э	Yes
Compatible with Sam1 App		Yes
Calendar-clock with backup reserve power		Yes
Data logging memory		Yes
Event logging: alarms, setup changes, etc.		Yes
Customisable internal counters		Yes
Connections		
Time of terminal		Plug-in,
Type of terminal		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
		5lbin (4-5lbin
	lbin	according to
		UL/CSA)
Ambient conditions		
Temperature		
Operating temperature		
min	°C	-20
max	°C	+70
Storage temperature		
min	°C	-30
max	°C	+80
Relative humidity	%	<80%
Maximum Pollution degree		2
Overvoltage category		3
Measurement category		III
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		
Execution		Flush mount
Material		Polycarbonate

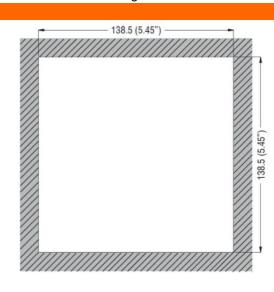


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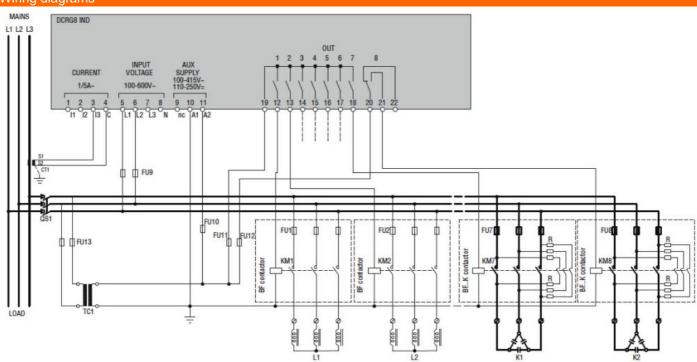
		Flush-mount
Mounting		144x144mm
		(5.67x5.67")
Degree of protection		IP65 on front,
		IP20 terminals
Dimensions (W x H x D)	mm	144 x 144 x 53.2
Weight	g	980

#### **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