

RÉGULATEUR VARMÉTRIQUES, 1L+3L, 8 GRADINS EXTENSIBLE À 24 GRADINS, 100-440VAC



Product designation

Automatic power factor controller, 8 relay steps, graphic display DCRG8

Product type designation

Auxiliary supply			
Rated auxiliary supply voltage Us			
AC			
	min	VAC	100
	Max	VAC	415
DC			
	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 (220 415VAC)
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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Measurement range 0.0256A~ for 5A scale; 5A scale; 0.0251,2A~ for 1A scale Measurement method True RMS value Constant overload Ie 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 with EXP1004 + NTC with EXP1016 Temperature measurement range °C 0+212 Relay outputs 8 (up to 18 with EXP1007) Contact arrangement PXP10 06 - EXP10 07) Contact arrangement 5A 250V AC1 UL/CSA and IEC/EN 60947-5-1 designation B 300 Maximum current at common contact terminal A 10 Maximum switching voltage VAC 415 Electrical life (with rated load) cycles 30 x 10° Mechanical life cycles 30 x 10° Static Outputs 0 (up to 8 with EXP1001)
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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 Yes
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 No
Possibility of use in medium voltage Yes Possibility of phase poutral insertion on a three phase quaters Yes
Possibility of phase-neutral insertion on a three-phase system Yes
Analog outputs Input programmable as function or external temperature sensor Yes

ENERGY AND AUTOMATION

RÉGULATEUR VARMÉTRIQUES, 1L+3L, 8 GRADINS EXTENSIBLE À 24 GRADINS, 100-440VAC

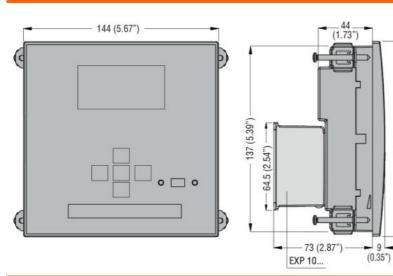
1100			
USB communication in			Yes
RS232 communication			Yes
_ 	communication interface		Yes
Ethernet communication			Yes
Opto-isolated Profibus	-DP interface		Yes
GPRS/GSM modem			Yes
Optical USB communic	·		Yes
Optical Wi-Fi commun	· · · · · · · · · · · · · · · · · · ·		Yes
Fast setting of current			Yes
	s configuration and remote control software		Yes
	gy and Synergy Cloud, supervision and energy management softwa	re	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

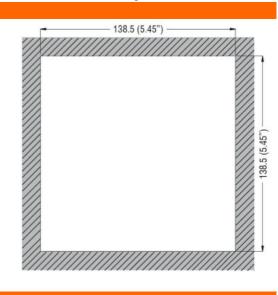


		Flush-mount
Mounting		144x144mm
		(5.67x5.67")
Dograp of protection		IP65 on front,
Degree of protection		IP20 terminals
Dimensions (W x H x D)	mm	144 x 144 x 53.2
Weight	g	980

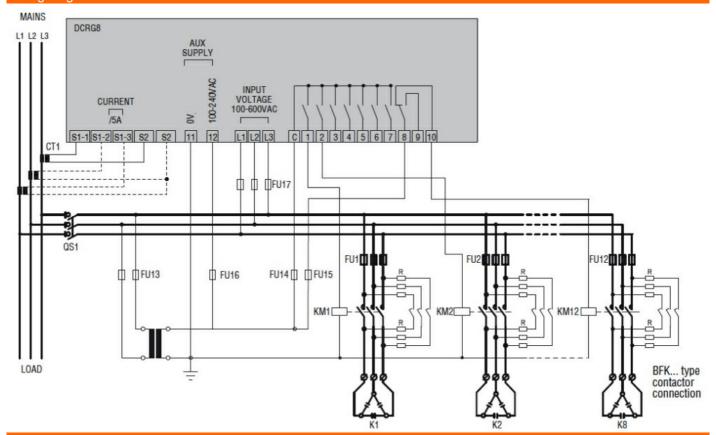
144 (5.67")

Dimensions





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°14

IEC 61010-1

IEC/EN 61000-6-2



DCRG8

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	IEC/EN 61000-6-3
	UL 508
Certificates	
	cULus
	EAC
	RCM
ETIM alassiciantis	

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay