



Automatic power factor controller, 8 relay steps, graphic display, for capacitive reactive power factor correction DCRG8IND

Product designation

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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		Shunt supplied
Turne of input		by external
Type of input		current transformer (low
		voltage). Max 5A
		0.0256A~ for
Measurement range		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		
Type of voltage and current measurement		True RMS value
Power factor adjustment		0.5ind0.5cap.
		Internal + PT100
		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	A	10
Maximum switching voltage	VAC	415
Electrical life (with rated load)	cycles	105
Mechanical life	cycles	30 x 10⁰
Static Outputs	,	
		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		
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

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USB communication in	torfood		Vee
RS232 communication			Yes Yes
			Yes
Ethernet communicatio	ommunication interface		Yes
Opto-isolated Profibus	DP Intenace		Yes
GPRS/GSM modem	ation and an facult		Yes
Optical USB communic			Yes
Optical Wi-Fi communi			Yes
Fast setting of current t			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			Yes
Calendar-clock with ba	ckup reserve power		Yes
Data logging memory			Yes
Event logging: alarms,			Yes
Customisable internal of	counters		Yes
Connections			
Type of terminal			Plug-in,
			removable
Conductor cross section		_	
	min	mm²	0.2
	Max	mm²	2.5
			24AWG (18AWG
	min	AWG	according to
	Max		UL/CSA)
Tichtening termine (Mari	Max	AWG	12
Tightening torque (Max	1	Niss	0.50
		Nm	0.56
		Ihin	5lbin (4-5lbin
		lbin	according to UL/CSA)
Ambient conditions			OL/OOK)
Temperature			
remperature			
	Operating temperature		
	Operating temperature	°C	-20
	min	°C °C	-20 +70
	min max	°C °C	-20 +70
	min max Storage temperature	°C	+70
	min   max   Storage temperature   min	°C °C	+70 -30
Relative humidity	min max Storage temperature	2° 2° 2°	+70 -30 +80
Relative humidity	Storage temperature min max	°C °C	+70 -30 +80 <80%
Maximum Pollution deg	Storage temperature min max	2° 2° 2°	+70 -30 +80 <80% 2
Maximum Pollution deg Overvoltage category	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3
Maximum Pollution deg	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III
Maximum Pollution deg Overvoltage category	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN
Maximum Pollution deg Overvoltage category Measurement category Climatic sequence	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61)
Maximum Pollution deg Overvoltage category Measurement category	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN
Maximum Pollution deg Overvoltage category Measurement category Climatic sequence Shock resistance	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27)
Maximum Pollution deg Overvoltage category Measurement category Climatic sequence	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27) 0.7g (IEC/EN
Maximum Pollution deg Overvoltage category Measurement category Climatic sequence Shock resistance Vibration resistance	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27)
Maximum Pollution deg     Overvoltage category     Measurement category     Climatic sequence     Shock resistance     Vibration resistance     Housing	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27) 0.7g (IEC/EN 60068-2-6)
Maximum Pollution deg Overvoltage category Measurement category Climatic sequence Shock resistance Vibration resistance	Storage temperature min max gree	2° 2° 2°	+70 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27) 0.7g (IEC/EN

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	Flush-moun	nt
Mounting	144x144mr	n
-	(5.67x5.67"	')
Degree of protection	IP65 on from	nt,
Degree of protection	IP20 termin	als
Dimensions (W x H x D)	mm 144 x 144 x	(53.2
Weight	g 980	
Dimensions		
	138.5 (5.45")	

144 (5.67")

9 (0.35")

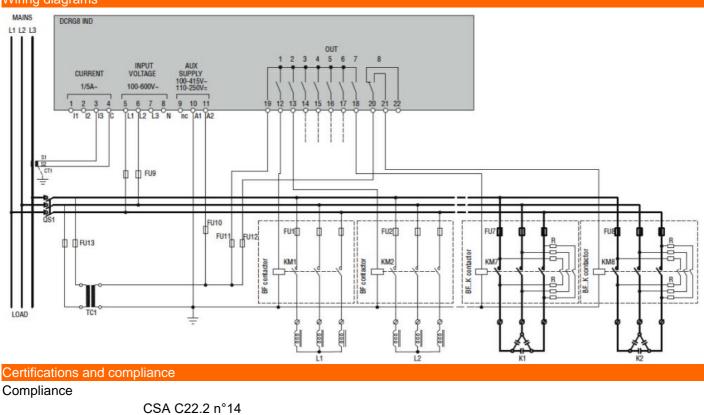
137 (5.39")

0 🗆 0

64.5 (2.54")

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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

138.5 (5.45")



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EAC

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay