



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



Automatic power factor controller, 8 relay steps, Product designation graphic display, for capacitive reactive power factor correction Product type designation DCRG8IND Auxiliary supply Rated auxiliary supply voltage Us AC min VAC 100 VAC 415 Max DC **VDC** min 110 Max **VDC** 250 90...484VAC / Auxiliary operating range 93.5...300VDC 50/60 ±10% Auxiliary rated frequency Hz 27 (with 4 EXP VA Power consumption Max modules) 10.5 (with 4 EXP modules), 5.5 Power dissipation Max W (with no EXP modules) ≥35ms Immunity time for microbreakings (110VAC);≥80ms ms (220...415VAC) Voltage inputs 600VAC L-L VAC Rated voltage (Ue) (rated max) 50...720VAC L-L Operating range (415VAC L-N) 45...65 Hz / Frequency range Hz 360...440 Hz Type of measure True RMS value No-voltage release ms ≥8 $>1.10M\Omega$ L-L, Measurement input impedance kO >0.55MΩ L-N Single phase, two phase, three phase with or Type of connection 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
			5A scale;
Measurement range			0.0251.2A~ for
			1A scale
Measurement method			True RMS value
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.
			Internal + PT100
Type of temperature sensor			with EXP1004 +
			NTC with EXP1016
Temperature measurement range		°C	0+212
Relay outputs		C	U+212
ixelay outputs			8 (up to 18 with
Number of relay output		Nr.	EXP10 06 -
Trained of foldy edipar			EXP10 07)
			7 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	30 x 10 ⁶
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
Connections			D
Type of terminal			Plug-in, removable
Conductor cross section			Temovable
Conductor cross section	min	mm²	0.2
	Max	mm²	2.5
	IVICIX	111111	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)



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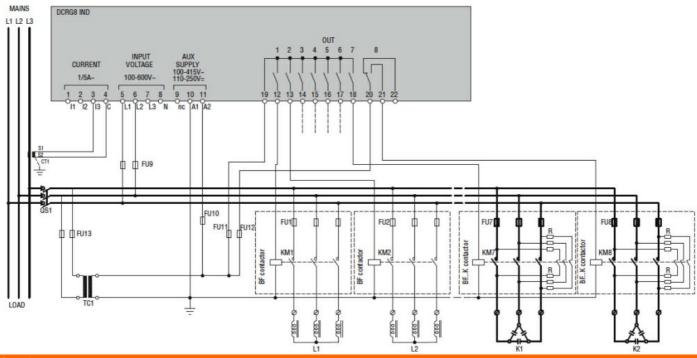
Ambient conditions					
Temperature					
	Operating temper	rature			
			min	°C	-20
			max	°C	+70
	Storage temperat	ure			
			min	°C	-30
			max	°C	+80
Relative humidity				%	<80%
Maximum Pollution de	gree				2
Overvoltage category					3
Measurement category	У				
Climatic sequence					Z/ABDM (IEC/EN
					60068-2-61)
Shock resistance					15g (IEC/EN
					60068-2-27)
Vibration resistance					0.7g (IEC/EN
I I a continue					60068-2-6)
Housing					Chuck many not
Execution					Flush mount
Material					Polycarbonate
Mounting					Flush-mount 144x144mm
Mounting					(5.67x5.67")
					IP65 on front,
Degree of protection					IP20 terminals
Dimensions (W x H x I	<u>)</u>			mm	144 x 144 x 53.2
Weight	- /			g	980
Dimensions				9	
			-	- 138.5 (5.45'	') —
144 (5.67")) —	44	1/1////////////////////////////////////	////////	
		(1.73")		////////	
(d					
	7,100				38.5 (5.45")
	27.5		(3.07)		288.5
	_ '	(2.5)	4		/// "
	─ o	64.5 (2.54"			
					///
(
		'		////////	
		73 (2.87") 9 (0.35")		///////////////////////////////////////	
		LAI TO.			

Wiring diagrams

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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

EAC

ETIM classification

ETIM 8.0

EC001443 -Effective power (cos phi) monitoring relay