

Product designation	Automatic power factor controller, 8 relay steps, graphic display, for capacitive reactive power factor correction		
Product type designation	DCRG8IND		
<b>Auxiliary supply</b>			
Rated auxiliary supply voltage Us			
AC	min	VAC	100
	Max	VAC	415
DC	min	VDC	110
	Max	VDC	250
Auxiliary operating range			90...484VAC / 93.5...300VDC
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)
<b>Voltage inputs</b>			
Rated voltage (Ue)		VAC	600VAC L-L (rated max)
Operating range			50...720VAC L-L (415VAC L-N)
Frequency range		Hz	45...65 Hz / 360...440 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
<b>Current inputs</b>			
Number of current input		Nr.	3
Type of input			Shunt supplied by external current transformer (low voltage). Max 5A

Measurement range			0.025...6A~ for 5A scale; 0.025...1.2A~ for 1A scale
Measurement method			True RMS value
Constant overload		Ie	1.2 Ie
Overload peak		A	50A for 1s
Burden per phase		W	<0.6VA
<b>Measurement data</b>			
Type of voltage and current measurement			True RMS value
Power factor adjustment			0.5ind...0.5cap.
Type of temperature sensor			Internal + PT100 with EXP1004 + NTC with EXP1016
Temperature measurement range		°C	0...+212
<b>Relay outputs</b>			
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		A	10
Maximum switching voltage		VAC	415
Electrical life (with rated load)		cycles	105
Mechanical life		cycles	30 x 106
<b>Static Outputs</b>			
Number of static output			0 (up to 8 with EXP1001)
<b>Insulations</b>			
Rated insulation voltage Ui IEC/EN		V	600
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage		kV	5.2
<b>Connections</b>			
Type of terminal			Plug-in, removable
Conductor cross section			
	min	mm <sup>2</sup>	0.2
	Max	mm <sup>2</sup>	2.5
	min	AWG	24AWG (18AWG according to UL/CSA)
	Max	AWG	12
Tightening torque (Max)			
		Nm	0.56
		lbin	5lbin (4-5lbin according to UL/CSA)
<b>Ambient conditions</b>			
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)
<b>Housing</b>			
Execution			Flush mount
Material			Polycarbonate
Mounting			Flush-mount 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
<b>Dimensions</b>			
<b>Wiring diagrams</b>			
<b>Certifications and compliance</b>			
Compliance			CSA C22.2 n°14
			IEC 61010-1
			IEC/EN 61000-6-2
			IEC/EN 61000-6-3
			UL 508
Certificates			cULus
			EAC
<b>ETIM classification</b>			
ETIM 8.0			EC001443 - Effective power (cos phi) monitoring relay