

Product designation	Automatic power factor controller, 5 steps, icon display		
Product type designation	DCRL5		
<b>Auxiliary supply</b>			
Rated auxiliary supply voltage $U_s$			
AC	min	VAC	100
	Max	VAC	440
DC	min	VDC	110
	Max	VDC	250
Auxiliary operating range	90...484VAC / 93.5...300VDC		
Auxiliary rated frequency	Hz	50/60 $\pm$ 10%	
Power consumption Max	VA	9.5	
Power dissipation Max	W	3.5	
Immunity time for microbreakings	ms	<25	
<b>Voltage inputs</b>			
Rated voltage ( $U_e$ )	VAC	600VAC L-L (rated max)	
Operating range	50...720VAC L-L (415VAC L-N)		
Frequency range	Hz	45...65	
Type of measure	True RMS value		
No-voltage release	ms	$\geq$ 8	
Measurement input impedance	k $\Omega$	>1.10M $\Omega$ L-L, >0.55M $\Omega$ 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.	1	
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	$I_e$	1.2 $I_e$	
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		

Temperature measurement range		°C	0...+212
<b>Relay outputs</b>			
Number of relay output		Nr.	5 (up to 8 with EXP10 06 - EXP10 07)
Contact arrangement			4 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	107
<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	5
<b>Ambient conditions</b>			
Temperature			
	Operating temperature		
		min	°C -20
		max	°C +60
	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 96x96mm (3.78x3.78")

Degree of protection		IP54 on front with gasket, if mounted in class IP54 panel or better. IP20 terminals
Dimensions (W x H x D)	mm	96 x 96 x 73.5
Weight	g	340
<b>Dimensions</b>		
<b>Wiring diagrams</b>		
<b>Certifications and compliance</b>		
Compliance		CSA C22.2 n°14
		IEC/EN 61000-6-2
		IEC/EN 61000-6-4
		IEC/EN 61010-1
		IEC/EN 61010-2-030
		UL 508
Certificates		cULus
		EAC
		RCM
<b>ETIM classification</b>		
ETIM 8.0		EC001443 - Effective power (cos phi) monitoring relay