

Product designation	Automatic power factor controller, 3 steps, icon display		
Product type designation	DCRL3		
<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.	3 (up to 6 with EXP10 06 - EXP10 07)
Contact arrangement		2 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 (4-5 according to UL/CSA)
<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