

Product designation			Automatic power factor controller, 8 steps, icon display
Product type designation			DCRL8
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC	min	VAC	100
	Max	VAC	440
DC	IVIAA	VAC	440
DO	min	VDC	110
	Max	VDC	250
	TVICIA	120	90484VAC /
Auxiliary operating range			93.5300VDC
Auxiliary rated frequency		Hz	50/60 ±10%
Power consumption Max		VA	8.5
Power dissipation Max		W	3
Immunity time for microbreakings		ms	<25
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L (rated max)
Operating range			50720VAC L-L (415VAC L-N)
Frequency range		Hz	4565
Type of measure			True RMS value
No-voltage release		ms	≥8
Measurement input impedance		kΩ	>15MΩ
Type of connection  Current inputs			Single phase, two phase, three phase with or without neutral or balanced three phase system
Number of current input		Nr.	1
Type of input		INI.	Shunt supplied by external current transformer (low voltage). Max 5A
Measurement range			0.0256A~ for 5A scale; 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.
Type of temperature sensor			Internal
Temperature measurement range		°C	0+212



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Relay outputs			
			8 (up to 14 with
Number of relay output		Nr.	EXP10 06 -
			EXP10 07)
Contact arrangement			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	107
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		I V	5.2
Connections			Plug-in,
Type of terminal			removable
Conductor cross section			Terriovable
Conductor cross section		2	0.0
	min	mm²	0.2
	Max	mm²	2.5
		414/0	24AWG (18AWG
	min	AWG	according to
	N 4 -	414/0	UL/CSA)
	Max	AWG	12
Lightoning torque (May)			
Tightening torque (Max)			
rigitiening torque (Max)		Nm	0.56
		Nm Ibin	0.56 5
Ambient conditions			
Ambient conditions		lbin	5
Ambient conditions Temperature	min		
Ambient conditions Temperature	min max	lbin	5
Ambient conditions Temperature		lbin °C	-20
Ambient conditions Temperature Operating temperature		lbin °C	-20
Ambient conditions  Temperature  Operating temperature	max	°C °C	-20 +60
Ambient conditions Temperature Operating temperature	max min	°C °C	-20 +60 -30
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity	max min	°C °C °C	-20 +60 -30 +80 <80%
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree	max min	°C °C °C	-20 +60 -30 +80 <80%
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category	max min	°C °C °C	-20 +60 -30 +80 <80% 2
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category  Measurement category	max min	°C °C °C	-20 +60 -30 +80 <80% 2
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category  Measurement category  Climatic sequence	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61)
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category  Measurement category	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category  Measurement category  Climatic sequence  Shock resistance	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27)
Ambient conditions  Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree  Overvoltage category  Measurement category  Climatic sequence	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27) 0.7g (IEC/EN
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category Measurement category  Climatic sequence  Shock resistance  Vibration resistance	max min	°C °C °C	-20 +60 -30 +80 <80% 2 3 III Z/ABDM (IEC/EN 60068-2-61) 15g (IEC/EN 60068-2-27)
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category Measurement category Climatic sequence Shock resistance  Vibration resistance  Housing	max min	°C °C °C	-20 +60 -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)
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category Measurement category Climatic sequence Shock resistance Vibration resistance  Housing Execution	max min	°C °C °C	-20 +60 -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)
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category Measurement category Climatic sequence Shock resistance  Vibration resistance  Housing	max min	°C °C °C	-20 +60 -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) Flush mount Polycarbonate
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category  Measurement category  Climatic sequence  Shock resistance  Vibration resistance  Housing Execution  Material	max min	°C °C °C	-20 +60 -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) Flush mount Polycarbonate Flush-mount
Ambient conditions Temperature  Operating temperature  Storage temperature  Relative humidity  Maximum Pollution degree Overvoltage category Measurement category Climatic sequence Shock resistance Vibration resistance Housing Execution	max min	°C °C °C	-20 +60 -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) Flush mount Polycarbonate



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Degree of protect	ion		IP65 on front with gasket, if mounted in class IP65 panel or better. IP20 terminals
Dimensions (W x I	H x D)	mm	144 x 144 x 53.2
Weight		g	640
Dimensions			
Wiring diagrams			
Certifications and	compliance		
Compliance			
	CSA C22.2-N°14		
	IEC/EN 61000-6-2		
	IEC/EN 61000-6-3		
	IEC/EN 61010-1		
	IEC/EN 61010-2-030		
	UL508		
Certificates			
	cULus		
	EAC		
	RCM		
ETIM classification	n		
ETIM 8.0			EC001443 - Effective power (cos phi) monitoring relay