

## AUTOMATIC POWER FACTOR CONTROLLER, DCRG SERIES, 8 STEPS, EXPANDABLE UP TO 24 STEPS

Product designation  Product type designation			Automatic power factor controller, 8 relay steps, graphic display DCRG8
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC	min	VAC	100
	Max	VAC	415
DC	IVICA	77.0	410
	min	VDC	110
	Max	VDC	250
Auxiliary operating range			90484VAC /
			93.5300VDC
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)
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L (rated max)
Operating range			50720VAC L-L (415VAC L-N)
Frequency range		Hz	4565 Hz / 360440 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  Current inputs			Single phase, two phase, three phase with or without neutral or balanced three phase system
Number of current input		Nr.	3
Tambor of ourion input		1 11.	Shunt supplied
Type of input			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

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Overload peak  Burden per phase  Measurement data  Type of voltage and current measurement  Power factor adjustment		A W	50A for 1s <0.6VA
Measurement data Type of voltage and current measurement Power factor adjustment		VV	V0.0 V A
Type of voltage and current measurement  Power factor adjustment			
Power factor adjustment			True RMS value
			0.5ind0.5cap.
Type of temperature sensor			Internal + PT100 with EXP1004 + NTC with EXP1016
Temperature measurement range		°C	0+212
Relay outputs			
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		Α	10
Maximum switching voltage		VAC	415
Electrical life (with rated load)		cycles	105
Mechanical life		cycles	30 x 106
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			
Tono of tono in al			Plug-in,
Type of terminal			removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
	min	AWG	24AWG (18AWG according to UL/CSA)
	Max	AWG	12
Tightening torque (Max)	IVIOA	0	_ · <del>_</del>
gg torque (man)		Nm	0.56 5lbin (4-5lbin
		lbin	according to UL/CSA)
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
	max	°C	+70
Storage temperature			
	min	°C	-30
	max	°C	+80
Relative humidity		%	<80%
Maximum Pollution degree			2



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Overvoltage category			3
Measurement category			III
Climatic sequence			Z/ABDM (IEC/EN
Olimatic Sequence			60068-2-61)
Shock resistance			15g (IEC/EN
			60068-2-27)
Vibration resistance			0.7g (IEC/EN
Housing			60068-2-6)
Housing Execution			Flush mount
Material			Polycarbonate
ivialeriai			Flush-mount
Mounting			144x144mm
Woulding			(5.67x5.67")
			IP65 on front,
Degree of protection			IP20 terminals
Dimensions (W x H x D		mm	144 x 144 x 53.2
Weight	,	g	980
Dimensions		Ţ.	
Wiring diagrams			
	Nienee		
Certifications and comp Compliance	ondrice		
Compliance	CCA C22.2 p°4.4		
	CSA C22.2 n°14 IEC 61010-1		
	IEC/EN 61000-6-2		
	IEC/EN 61000-6-2		
Certificates	UL 508		
Certificates	cULus		
	CULUS		
	EAC		
ETIM classification			
ETIM classification	EAC		EC004442
	EAC		EC001443 -
ETIM classification ETIM 8.0	EAC		Effective power
	EAC		