

# AUTOMATIC DYNAMIC POWER FACTOR CONTROLLER, 8 STATIC STEPS, EXPANDABLE, AUXILIARY SUPPLY 100...415VAC



Automatic

Product designation  Product type designation			dynamic power factor controller, 8 static steps, graphic display DCRG8F
Auxiliary supply			DCRG61
Rated auxiliary supply voltage Us			
AC			
NO	min	VAC	100
	Max	VAC	415
DC	Wick	*/10	
	min	VDC	110
	Max	VDC	250
			90484VAC /
Auxiliary operating range			93.5300VDC
Auxiliary rated frequency		Hz	50/60 ±10%
Dougr concumption May		VA	27 (with 4 EXP
Power consumption Max		VA	modules)
Power dissipation Max		W	10.5 (with 4 EXP modules), 2.5 (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		kO	>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
Current inputs			
Number of current input		Nr.	3



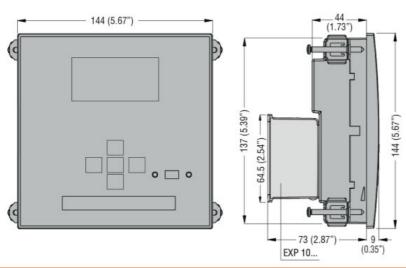
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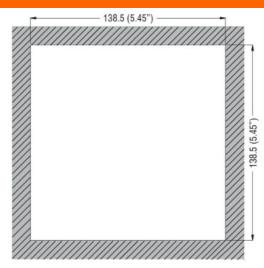
Type of input			Shunt supplied by external current transformer (low voltage). Max 5A
Measurement range			0.0256A~ for 5A scale; 0.0251.2A~ for 1A scale
Measurement method			True RMS value
Constant overload		le	1.2 le
Overload peak		A	50A for 1s
Burden per phase  Measurement data		W	<0.6VA
Type of voltage and current measurement			True RMS value
Power factor adjustment			0.5ind0.5cap.
Type of temperature sensor			Internal + PT100 with EXP1004
Temperature measurement range		°C	0+212
Relay outputs			
Number of relay output		Nr.	0 (up to 10 with EXP10 06 - EXP10 07)
UL/CSA and IEC/EN 60947-5-1 designation			B300
Static Outputs			
Number of static output			8 (up to 24 with EXP1001)
Rated current			120mA max 40VDC/30VAC
Insulations			
Rated insulation voltage Ui IEC/EN		V	600
Rated impulse withstand voltage Uimp		kV	9.5
Operating frequency withstand voltage  Connections		kV	5.2
Connections			Plug-in,
Type of terminal			removable
Conductor cross section			
	min	mm²	0.2
	Max	mm²	2.5
			24AWG (18AWG
	min	AWG	according to UL/CSA)
	Max	AWG	12
Tightening torque (Max)		N.I.	0.50
		Nm	0.56
		lbin	5lbin (4-5lbin according to UL/CSA)
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-20
-	max	°C	+70
Storage temperature	min	°C	-30



## AUTOMATIC DYNAMIC POWER FACTOR CONTROLLER, 8 STATIC STEPS, EXPANDABLE, AUXILIARY SUPPLY 100...415VAC

	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)
Housing			
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
Dimensions			



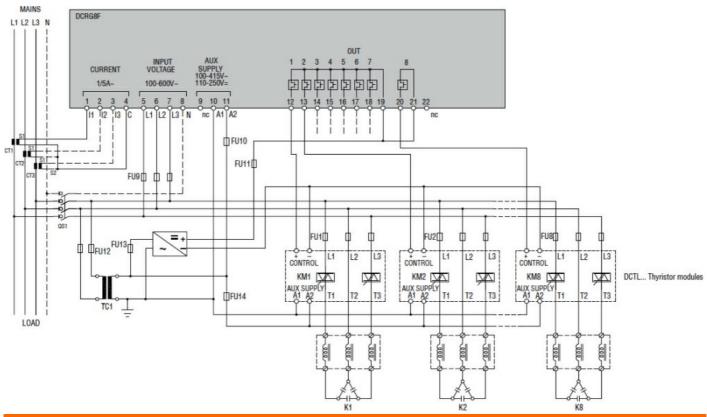


### Wiring diagrams

**ENERGY AND AUTOMATION** 

## AUTOMATIC DYNAMIC POWER FACTOR CONTROLLER, 8 STATIC STEPS, EXPANDABLE,

**AUXILIARY SUPPLY 100...415VAC** 



### Certifications and compliance

Compliance

CSA C22.2 N°14

IEC/EN 61000-6-2

IEC/EN 61000-6-4

IEC/EN 61010-1

**UL508** 

Certificates

cULus

EAC

**RCM** 

### ETIM classification

**ETIM 8.0** 

EC001443 -Effective power (cos phi) monitoring relay