



Automatic

Product designation			dynamic power factor controller, 8 static steps, graphic display
Product type designation			DCRG8F
Auxiliary supply			
Rated auxiliary supply voltage Us			
AC			400
	min	VAC	100
<u></u>	Max	VAC	415
DC			440
	min	VDC	110
	Max	VDC	250
Auxiliary operating range			90484VAC / 93.5300VDC
Auviliant rated fraguenou		Hz	50/60 ±10%
Auxiliary rated frequency		ΠΖ	27 (with 4 EXP
Power consumption Max		VA	modules)
			10.5 (with 4 EXP
			modules), 2.5
Power dissipation Max		W	(with no EXP
			modules)
			≥35ms (110VAC);
Immunity time for microbreakings		ms	≥80ms (220…
			415VAC)
Voltage inputs			
Rated voltage (Ue)		VAC	600VAC L-L
		17.00	(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
			Single phase, two
			phase, three
Type of connection			phase with or
<i></i>			without neutral or balanced three
			phase system
Current inputs			phase system
ourrent inputs			

Number of current input

Nr. 3



		Shunt supplied
Time of least		by external
Type of input		current transformer (low
		voltage). Max 5A
		0.0256A~ for
		5A scale;
Measurement range		0.0251.2A~ for
		1A scale
Measurement method		True RMS value
Constant overload	le	1.2 le
Overload peak	А	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.
		Internal + PT100
Type of temperature sensor		with EXP1004
Temperature measurement range	°C	0+212
Relay outputs		
		0 (up to 10 with
Number of relay output	Nr.	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		40VDC/30VAC
Rated insulation voltage Ui IEC/EN	V	600
Rated impulse withstand voltage Uimp	kV	9.5
Operating frequency withstand voltage	kV	5.2
Functions	κv	5.2
Automatic recognition of current flow direction		Yes
4-quadrant operation		Yes
Master-Slave function		Yes
Independent auxiliary supply input		Yes
Three-phase voltage control		Yes
Current inputs		3
Dynamic (FAST) power factor correction		Yes
Power factor correction by single phase		Yes
Possibility of connecting inductive steps		No
		Yes
Possibility of use in medium voltage Possibility of phase-neutral insertion on a three-phase system		Yes
Analog outputs		Yes
		Yes
Input programmable as function or external temperature sensor USB communication interface		Yes
RS232 communication interface		Yes
Opto-isolated RS485 communication interface		Yes
Ethernet communication interface		Yes
Opto-isolated Profibus-DP interface		Yes
GPRS/GSM modem		Yes
Optical USB communication port on front		Yes

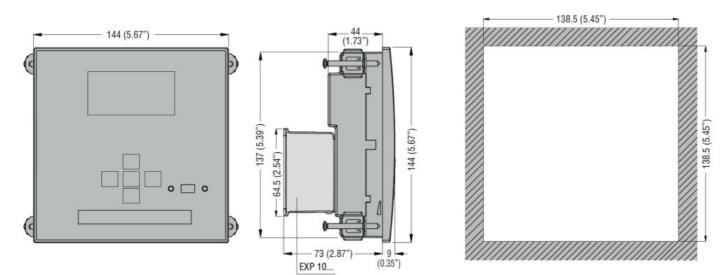


Optical Wi-Fi communication port on front		Yes	
Fast setting of current transformer		Yes	
Compatible with Xpress configuration and remote c	ontrol software	Yes	
Compatible with Synergy and Synergy Cloud, superv	vision and energy management software	Yes	
Compatible with Sam1 App		Yes	
Calendar-clock with backup reserve power		Yes	
Data logging memory		Yes	
Event logging: alarms, setup changes, etc.		Yes	
Customisable internal counters		Yes	
Connections		100	
		Plug-in,	
Type of terminal		removable	
Conductor cross section			
		nm² 0.2	
	Max r	nm² 2.5	
		24AWG (18AW	/G
	min A	WG according to	
		UL/CSA)	
	Max A	WG 12	
Tightening torque (Max)			
		Nm 0.56	
		5lbin (4-5lbin	
		Ibin 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	
Overvoltage category		3	
Measurement category			
		Z/ABDM (IEC/E	ΞN
Climatic sequence		60068-2-61)	
		15g (IEC/EN	
Shock resistance		60068-2-27)	
Vibration registers		0.7g (IEC/EN	
Vibration resistance		60068-2-6)	
Housing			
Execution		Flush mount	
Material		Polycarbonate	
		Flush-mount	—
Mounting		144x144mm	
U U		(5.67x5.67")	
		IP65 on front,	
Degree of protection		IP65 on front, IP20 terminals	
Degree of protection Dimensions (W x H x D)			.2
Dimensions (W x H x D)		IP20 terminals mm 144 x 144 x 53	.2
		IP20 terminals mm 144 x 144 x 53	.2

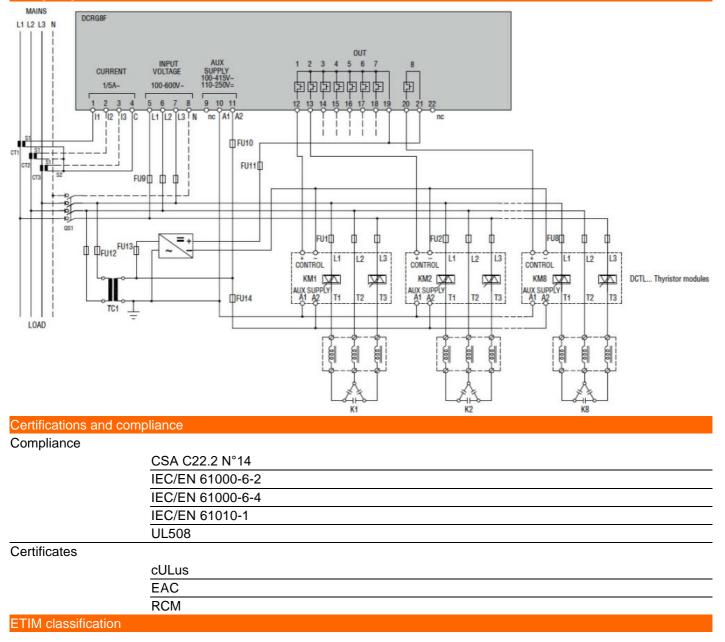
## DCRG8F



## RÉGULATEUR VARMÉTRIQUES, 1L+3L, 8 GRADINS EXTENSIBLE À 24 GRADINS, 100-440VAC, CONN. RJ485



## Wiring diagrams



## DCRG8F



RÉGULATEUR VARMÉTRIQUES, 1L+3L, 8 GRADINS EXTENSIBLE À 24 GRADINS, 100-440VAC, CONN. RJ485

**ETIM 8.0** 

EC001443 -Effective power (cos phi) monitoring relay