REVO C 3PH







SIZE SR11 SIZE SR17 SIZE S14

Technical Specification

Dimensions: See size and dimensions page 8-9

Normal Resistance, Infrared Short, Medium and Long, Transformer Primary using Phase Angle, Cold resistance and SiC elements Load type:

Inputs:

4:20mA, 0:10V, SSR and Modbus® as std and different

Field Bus Listed in the Product Coding

Firing mode: Burst Firing, Delayed Triggering and Phase Angle with or without Soft Start **Control Mode:** Voltage, Current and Power or V2 and I2 with additional Transfer to VxI **Communication:** RS485 port. RTU Modbus® Protocol and other Field Bus available

USB: port integrated for configuration in safety mode

(No Load and Auxiliary Voltage needed) Unit Powered Through USB

Approvals: Comply with EMC, cUL us® 508 listed and cUL® listed 100 KA: Short Circuit Current rating (SCCR) up to 600V

Dual Current Limit: for peak and RMS value

Option

- See below the types of options and their combination for Code generation
- **Energy Totalizer**
- Data Logging
- WiFi
- HB Alarm to diagnose partial or Total Load Failure and Thyristor Short Circuit

Tools

- A very easy and Powerful Configurator Software is available Free of Charge on www.cdautomation.com
- CD Automation APP is also available free of charge to communicate via Wi-Fi

ability to change parameters to improve process and product quality with opening the cabinet door. I APP Free of charge download it from Google Play or Apple Store. K DATA LOGGER This feature is important to see the historical data of parameter like Current, Voltage and Power and can be useful to diagnose a fault. P Q ENERGY TOTALIZER This function totalize the energy consumption of the load allowing the calculation cost of heating treatment.	No op	tion	Option selected	l (ex code 3: Log	ging + Totalizer)		
1 2 3 3 4 4 5 5 6 6 6 6 6 6 6 6	I LIMIT	НВ	WIFI	LOGGING	TOTALIZER	CODE	NOTES
I LIMIT (CURRENT LIMIT) This option is used to keep the overcurrent inside setted limit. It's necessary to drive primary transformers and cold resistance. This option is not available on 30-35-40A units. HB Alarm for partial or total load failure and Short Circuit on SCR (relay output). BB CC WiFI Option that allows communication with a smart phone. From your smart phone via the CD Automation App, direct to your thyristor unit in the E cabinet to read current, voltage, power and energy totalization as well as a ability to change parameters to improve process and product quality without opening the cabinet door. APP Free of charge download it from Google Play or Apple Store. BATA LOGGER This feature is important to see the historical data of parameter like Current, Voltage and Power and can be useful to diagnose a fault. DATA LOGGER This feature is important to see the historical data of parameter like Current, Voltage and Power and can be useful to diagnose a fault. PP Q ENERGY TOTALIZER This function totalize the energy consumption of the load allowing the calculation cost of heating treatment.						Ø	
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S load allowing the calculation cost of heating treatment.							ENERGY TOTALIZER This function totalize the energy consumption of the
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CONNECTIVITY







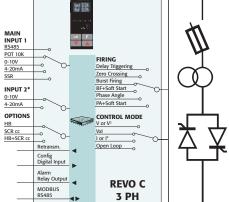


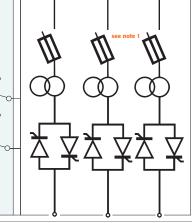












ORDER CODE:

REVO C 3PH	R C	3		_	_	
CURRENT	FUSES	4	5	6		
description	description		code		note	
30A	Fuse + Fuse Holder Included	0	3	0	2	
35A	Fuse + Fuse Holder Included	0	3	5	2	
40A	Fuse + Fuse Holder Included	0	4	0	2	
60A	Fixed Fuses Included	0	6	0		
90A	Fixed Fuses Included	0	9	0		
120A	Fixed Fuses Included	1	2	0		
150A	Fixed Fuses Included	1	5	0		
180A	Fixed Fuses Included	1	8	0		
210A	Fixed Fuses Included	2	1	0		
300A	Fixed Fuses Included	3	0	0		
400A	Fixed Fuses Included	4	0	0		
450A	Fixed Fuses Included	4	5	0		
500A	Fixed Fuses Included	5	0	0		
600A	Fixed Fuses Included	6	0	0	5	
700A	Fixed Fuses Included	7	0	0	5	
800A	Fixed Fuses Included	8	0	0	5	
For Extended version (from 1	100A to 2100A) see page 18					
MAX VOLTAGE			7			

MAX VOLTAGE	7	
description	code	note
480V	4	
600V	6	
690V	7	1

MAIN SUPPLY VOLTAGE	AUX VOLTAGE RANGE	8	
	V range	code	note
100/120Vac	90 to 135Vac	1	3
200/208/230/240Vac	180 to 265Vac	2	3
277Vac	238 to 330Vac	3	3
380/415/480Vac	342 to 528Vac	5	3
600Vac	540 to 759Vac	6	3
690Vac	540 to 759Vac	7	3

MAIN INPUT	9	
description	code	note
SSR	S	
0:20mA	В	
4:20mA	Α	
0:10V	V	
10KPot	K	

FIRING	START OPTION	10	
description	description	code	note
Burst Firing	No Soft Start	В	
3	Linear Soft Starter	J	
Dhasa Angla	No Soft Start	P	2
Phase Angle	Linear Soft Starter	E	2
Delayed Triggering	No Soft Start	D	2
Zero Crossing	No Soft Start	Z	
	Linear Soft Starter	R	

CONTROL MODE	11	
description	code	note
Open Loop	0	
Voltage	U	
Voltage Square	Q	
Current	I	
Current Square	Α	
Power VxI	W	

OPTION	12	
description	code	note
No Option	0	
Option code - see previous page table		

FAN VOLTAGE	13	
description	code	note
No Fan < 90A 480V/600V	0	
Fan 115Vac ≥ 90A 480V/600V - ≥ 60A 690V	1	
Fan 230Vac ≥ 90A 480V/600V - ≥ 60A 690V Std Version	2	
Fan 24Vdc ≥ 90A 480V/600V - ≥ 60A 690V	3	

APPROVALS	14	
description	code	note
CE EMC For European Market	0	
CIJI JJS® + CF FMC For American & Furopean Market	1	

LOAD TYPE	15	
description	code	note
Normal Resistive with 3 Phase Star Connection with neutral	0	
Normal Resistive with 3 Phase Delta or Star Connection	1	
IRSW Infrared Short wave with 3 Phase Star Connection with neutral	2	
IRSW Infrared Short wave with 3 Phase Delta or Star Connection	3	
3 Phase Transformer coupled with normal resistance	4	7
3 Phase Transformer coupled with cold resistance	5	7

COMMUNICATION AND RETRANSM	ISSION	16	
description	description	code	note
	No Retransmission	0	
N°1 Modbus® RTU	Retransmission 4:20mA	1	
	Retransmission 0:10V	2	
	No Retransmission	3	4
N°2 Modbus® RTU	Retransmission 4:20mA	4	4
	Retransmission 0:10V	5	4
	No Retransmission	6	4
N°1 Profibus® DP	Retransmission 4:20mA	7	4
	Retransmission 0:10V	8	4
	No Retransmission	9	4
N°1 Profinet* IO	Retransmission 4:20mA	Α	4
	Retransmission 0:10V	В	4
	No Retransmission	С	4
N°1 Modbus® TCP	Retransmission 4:20mA	D	4
	Retransmission 0:10V	E	4
	No Retransmission	F	6
N°1 Ethernet IP + N°1 Modbus® RTU	Retransmission 4:20mA	G	6
	Retransmission 0:10V	Н	6

Note (1): No cUL/UL approved Note (2): Phase Angle and Delayed Triggering not available on 30-35-40A

Note (4): Note CVDL approved Note (2): Priese Angle and Delayed inggening not available.

Note (3): Main Supply Voltage has to be included in Auxiliary Voltage range

Note (4): 24Vdc Backup Power for User Interface and Communications included

Note (5): Only CE and UL approved, not cUL Note (6): Available on unit ≥60A

Note (7): This configuration is possible only with Delayed Triggering or Phase Angle Firing

^{*}Secondary Input can be configured for external current limit reference, external feedback or secondary input reference. See the manual for more informations.



FEATURES

View with IP20 protection



Standard Version with IP0



TECHNICAL SPECIFICATION

OPERATING TEMPERATURE	from 0 to +40°C, over this temperature see derating curve at page 23
MAX VOLTAGE POWER SUPPLY	480V, 600V or 690V
AUXILIARY VOLTAGE SUPPLY	90÷265V, 20 VA power consumption. Fan voltage supply: 230±15% as a standard and 110V on request
ANALOG INPUT	1 main reference, 4÷20mA, 0÷10V, 10KPOT, RS485 port
ANALOG INPUT 2	Secondary reference, 0÷10V, 10KPOT
DIGITAL INPUT	Two optoisolated digital input (12/24Vdc), for Start, Stop, Enable, Calibration, Reset Alarm and External Alarm or other function that can be implemented (ex. Switch from one firing to another)
RELAY OUTPUT	Three configurable relay output and one critical alarm
UNIVERSAL FIRING	One of these firing modes can be configured burst firing BF, delayed triggering and phase angle on 1-3 PH units (see on left page)
COMMUNICATION	RS485 port. Modbus communication plus different FieldBus (see Order Code)
UNBALANCED LOAD	This protection allow to have REVO C working up to 20% of unbalance on one phase
CONTROL MODE	Voltage (V), Current (I), Power (VxI), external feed-back, Voltage Square and Current Square
HEATER BREAK	Alarm to diagnose partial or total load failure and short circuit on thyristor
THERMAL PROTECTION	Thermal switch 1 for Overtemperature Alarms std Thermal switch 2 for Alarm and Trip std

40 Sept.

REVO C FEATURES AND DIMENSIONS

	DESCRIPTION	REVO	REVO C 1PH		REVO C 2PH		REVO C 3PH	
	CODE	CODE RC1		RC2		RC3		
LOAD TYPE	Max voltage 480V		•			•		
	Max voltage 600V		•		•		•	
	Max voltage 690V		•		•		•	
	Single phase	•	•					
	3 phase load star no neutral or delta)	
	3 phase load star with neutral)	
	3 phase load open delta	•	• (1)					
INPUT TYPE	SSR 4:30VDC		•				•	
	4:20 mA	•		•		•		
	0:10 Vdc	•				•		
	Potentiometer	•		•		•		
	Single Cycle		•					
FIRING	Half Cycle							
	Burst Firing		•		•		•	
	Phase Angle		•		•		•	
	Delayed Triggering		•				•	
	Zero Crossing						•	
	Open Loop		•		•			
CONTROL MODE	Voltage		•		•		•	
	Voltage Voltage square					•		
	Current		•			•		
			•		•		•	
8	Current Square							
	Power V x I		•					
COMM. OPTIONS	Current Limit CL		0			(
	Heater Break Alarm + SCR Short Circuit		0		0		0	
	WiFi		0		0		0	
	Logging		0		0		0	
	Totalizer		0		0		0	
	Modbus® RTU		0		0		0	
	ProfiBus® DP + 1 Modbus® RTU		0		0		0	
	2 Profinet® IO + 1 Modbus® RTU		0		0		0	
	2 Modbus® TCP + 1 Modbus® RTU		0		0		0	
	CURRENT	SIZ		SI		SI		
		600V Max	690V	600V Max	690V	600V Max	690V	
	30	SR9		SR10		SR11		
	35	SR9		SR10		SR11		
	40	SR9		SR10		SR11		
	60	SR12	S11	SR13	S11	SR14	S11	
	90	SR15	S11	SR16	S11	SR17	S11	
	120	SR15	S11	SR16	S13	SR17	S13	
CURRENT	150	SR15	S11	SR16	S13	SR17	S13	
	180	SR15	S11	SR16	S13	SR17	S13	
	210	SR15	S11	SR16	S13	SR17	S13	
	300	S12		S14	S14	S14	S14	
	400	S12	S12	S14	S14	S14	S14	
	450			S14	S14	\$14	S14	
	500	S12	S12	\$14	S14	\$14	S14	
	600	S12	S12	S14	S14	S17*	S17	
	700	S12	S12	S14	S14	S17*	S17	
	800	S15*	S15	\$16*	\$16	S17*	S17	
	1100	SR18*	SR18	SR19*	SR19	SR20*	SR20	
	1400	SR21*	SR21	SR22*	SR22	SR23*	SR23	
	1600	SR21*	SR21	SR22*	SR22	SR23*	SR23	
	1800	SR21*	SR21	SR22*	SR22	SR23*	SR23	
	2100	SR21*	SR21	SR22*	SR22	SR23*	SR23	



REVO C FAMILY SIZE AND DIMENSIONS

REVO Connect is a fully universal product range based upon powerful microprocessor technology. Available from 30A to 2100A and single phase (1PH) plus 2PH & 3PH to drive 3 phase loads, its key benefit is its connectivity with the outside world, through Wi-Fi and the most popular Field Bus Protocols. Its universality allows inputs, all firing and control modes to be configured via Smart phone using CD Automation's Connect-APP or via your personal computer and CD Automation's Configurator Software.

CD Automation's APP and Configurator Software are available free of charge.

When you buy REVO-C, you also buy CD Automation's experience and know-how to drive your application.



SR9 H 121 x W 72 x D 185 - 1,15kg.



SR10 H 121 x W 108 x D 185 - 1,76kg.



SR11 H 121 x W 144 x D 185 - 2,4kg.



SR12 H 269 x W 93 x D 170 - 3,4kg. **SR15** H 273 x W 93 x D 170 - 3,6kg.



SR13 H 269 x W 186 x D 170 - 6,8kg. **SR16** H 273 x W 186 x D 170 - 7,0kg.



SR14 H 269 x W 279 x D 170 - 10,2kg. **SR17** H 273 x W 279 x D 170 - 10,6kg.



S11 H 440 x W 137 x D 270 - 10,5kg.



\$12 H 520 x W 137 x D 270 - 15kg.



\$13/\$14 H 440/520 x W 262 x D 270 - 18/22kg.



S15 H 560 x W 137 x D 270 - 17,2kg.



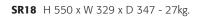
\$16 H 560 x W 275 x D 270 - 34,4kg.



S17 H 560 x W 411 x D 270 - 51,6kg.









SR19 H 550 x W 523 x D 347 - 49kg.



SR20 H 550 x W 717 x D 347 - 72kg.



SR21 H 730 x W 329 x D 347 - 34kg.



SR22 H 730 x W 523 x D 347 - 65kg.



SR23 H 730 x W 717 x D 347 - 98kg.