

# REVO C 3PH



SIZE SR11



SIZE SR17



SIZE S14

## Technical Specification

- Dimensions:** See size and dimensions page 8-9
- Load type:** Normal Resistance, Infrared Short, Medium and Long, Transformer Primary using Phase Angle, Cold resistance and SiC elements
- 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
- CD Automation APP is also available free of charge to communicate via Wi-Fi

No option     Option selected (ex code 3: Logging + Totalizer)

I LIMIT	HB	WIFI	LOGGING	TOTALIZER	CODE	NOTES
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	D	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	G	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	K	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	L	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	M	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Q	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	R	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	T	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V	

**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).

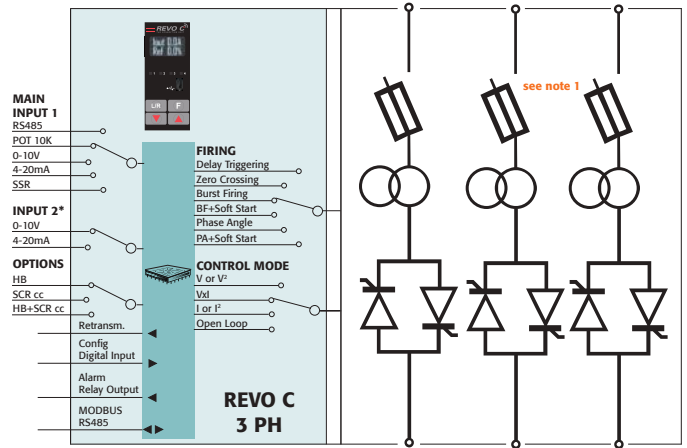
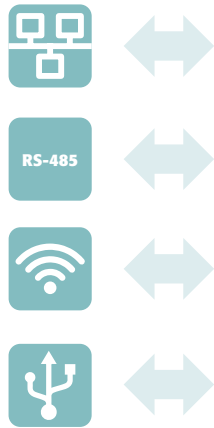
**WiFi** Option that allows communication with a smart phone. From your smart phone via the CD Automation App, direct to your thyristor unit in the cabinet to read current, voltage, power and energy totalization as well as the ability to change parameters to improve process and product quality without opening the cabinet door.

**APP** Free of charge download it from Google Play or Apple Store.

**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.

**ENERGY TOTALIZER** This function totalize the energy consumption of the load allowing the calculation cost of heating treatment.

# CONNECTIVITY



## ORDER CODE:

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>		<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>
<b>REVO C 3PH</b>	<b>R</b>	<b>C</b>	<b>3</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 1100A to 2100A) see page 18*

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		B	
4:20mA		A	
0:10V		V	
10KPot		K	

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

CONTROL MODE		11	
description		code	note
Open Loop		0	
Voltage		U	
Voltage Square		Q	
Current		I	
Current Square		A	
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	
CUL us* + CE EMC For American & European Market		L	

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 RETRANSMISSION		16	
description	description	code	note
N°1 Modbus® RTU	No Retransmission	0	
	Retransmission 4:20mA	1	
	Retransmission 0:10V	2	
N°2 Modbus® RTU	No Retransmission	3	4
	Retransmission 4:20mA	4	4
	Retransmission 0:10V	5	4
N°1 Profibus® DP	No Retransmission	6	4
	Retransmission 4:20mA	7	4
	Retransmission 0:10V	8	4
N°1 Profinet® IO	No Retransmission	9	4
	Retransmission 4:20mA	A	4
	Retransmission 0:10V	B	4
N°1 Modbus® TCP	No Retransmission	C	4
	Retransmission 4:20mA	D	4
	Retransmission 0:10V	E	4
N°1 Ethernet IP + N°1 Modbus® RTU	No Retransmission	F	6
	Retransmission 4:20mA	G	6
	Retransmission 0:10V	H	6

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