- Internal Fuses on complete range from 30 to 800A
- 100 kA Short Circuit Current (SCCR) up to 600V
- Voltage Supply 480-600-690V
- OLED Display for easy Diagnostic & Configuration
- All Firing & Control Mode available
- All popular Field Bus available
- APP for communication via Apple or Android™
- Remote Service
- Comply with EMC, cULus® 508 listed and cUL® listed

CD AUTOMATION

POWERED BY INNOVATION

REVO C

THE CONNECTING UNIT

Innovation in Power Control

www.cdautomation.com

Revo C Catalog 2025

WITH REVO C "YOU WILL NEVER BE ALONE"

CD AUTOMATION OFFERS REMOTE SERVICE SUPPORT FROM ANYWHERE IN THE WORLD VIA SMARTPHONE APP

Wide range of communication protocols:

Keep your REVO C connected with the outside world via popular protocols including Modbus® RTU, Ethernet TCP, Profibus®, Profinet® plus Bluetooth and USB port for local data transfer.

Industrial Communication
- Profinet
- Modbus TCP
- Ethernet IP
- EtherCAT
- 2nd modbus RTU (485)

SD Memory

Analog Retransmission
- 0 to 10 V
- 4 to 20 mA

DC Power Supply
- Dry contact switches
- Potentiometers

Backup Power
- User interface
- Communications

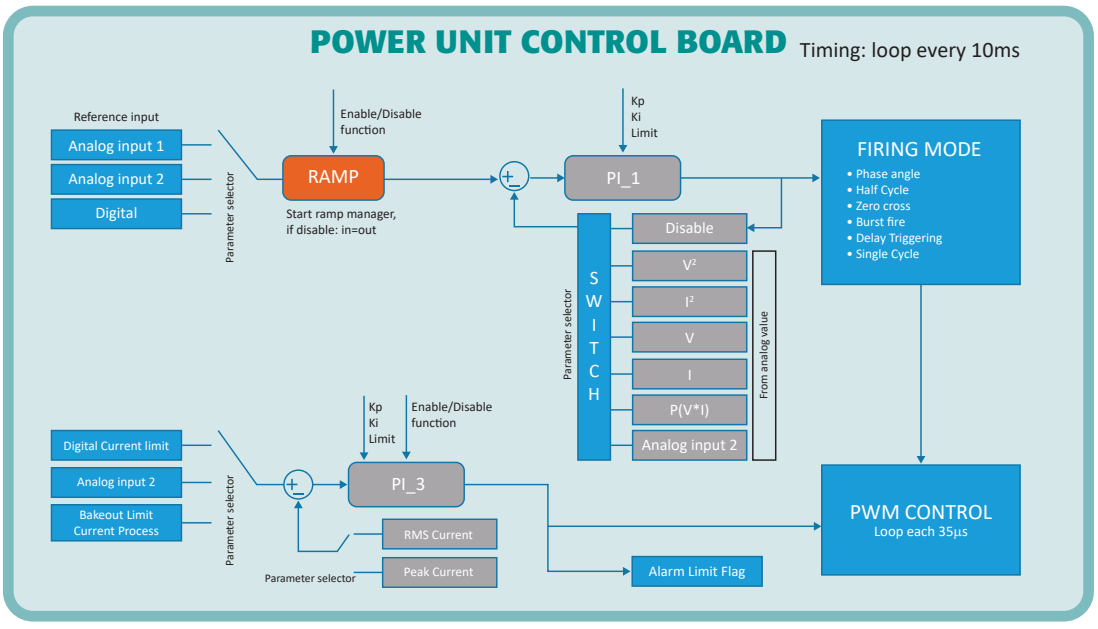
USB Device
- Configuration
- Software connections
- Data log file transfer

Fan Power
- 120 or 240 VAC
- Monitor operation

Mechanical RelayOutput
- Alarm Annunciation

Bluetooth
- Configuration
- Monitor operation

RS-485 | DATA LOGGING | RETRANSMIT | +10 VDC OUTPUT | +24 VDC OUTPUT | FAN



ANALOG INPUT

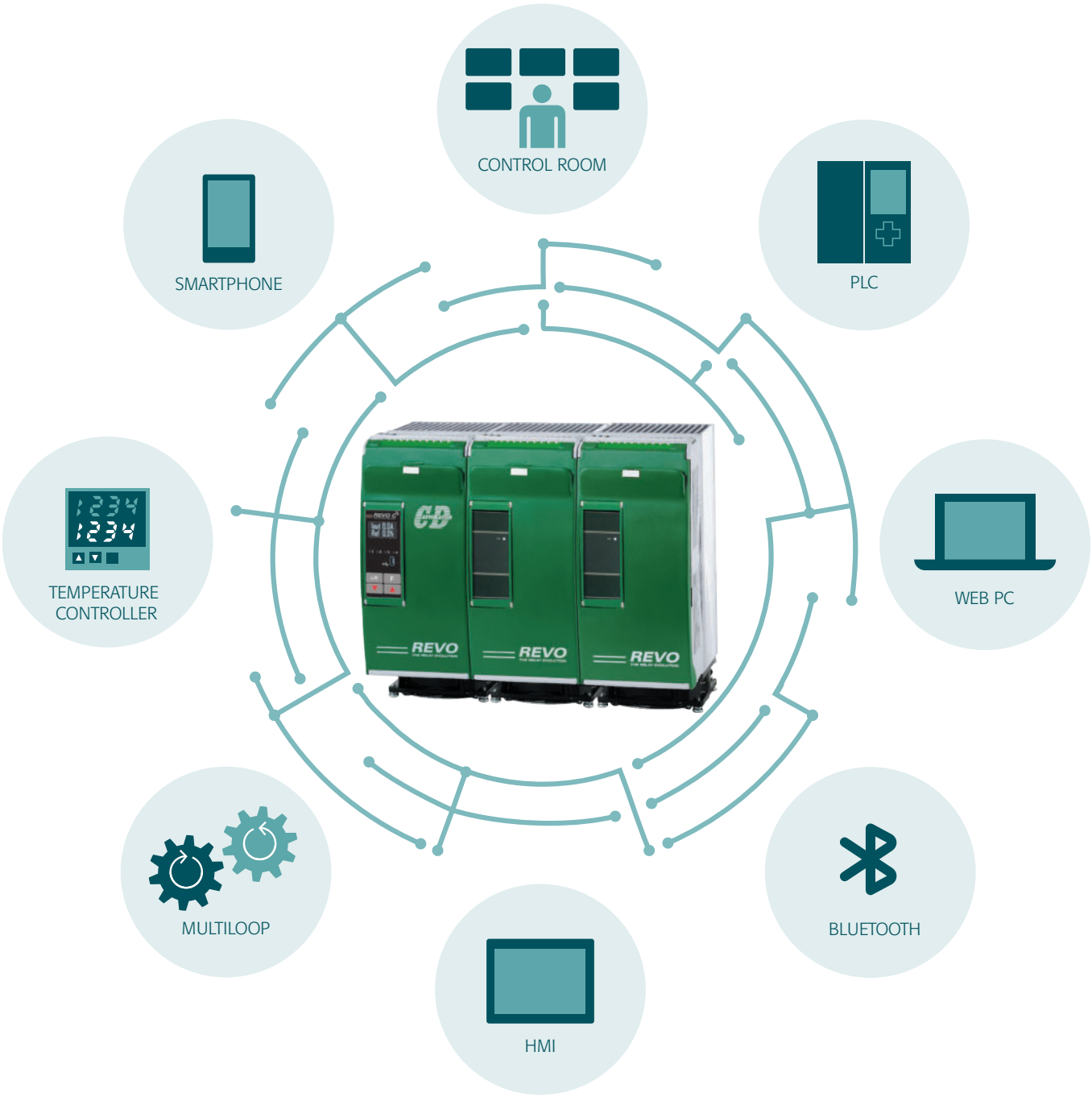
2 Analog Input
- Set point
- Feedback
- Current limit

ANALOG INPUT

2 Digital Input
- Enable
- Select feedback
- Local remote
- Set firing mode

Auxiliary Power
- Controller
- Electronics
- Voltage sensing
- Zero cross sensing

CONNECTIVITY AND CONFIGURATION



READ	WRITE
Set Point	Set Point
Alarm	Configuration Parameters
Voltage	
Power	
Current	
Heater Break Alarm	
SCR Short Circuit Alarm	

CD AUTOMATION APP DOWNLOAD IT FREE OF CHARGE

APP RevoBLE

YOU WILL NEVER BE ALONE...

..WE GIVE YOU OUR REMOTE APP SERVICE!

THE CD AUTOMATION APP WILL WORK WITH BOTH APPLE AND ANDROID SYSTEMS

Shown are a few of the most important screen shots that provide key process information, easy product setup and product remote control:

APP Download: Go to Google Play Store or Apple Store and download "CD Automation Revo BLE" app.
Monitor: You can monitor the status of the REVO-C by selecting the Overview screen.
Configuration: Configure your unit by selecting the Setting menu, choose your load connection and simply download.
Remote Service: Need assistance? Download the configuration, add any comments and email automatically. Our engineers will respond with recommendations.
Connection: The unit is connected via Bluetooth to the app.

GET IT ON Google Play

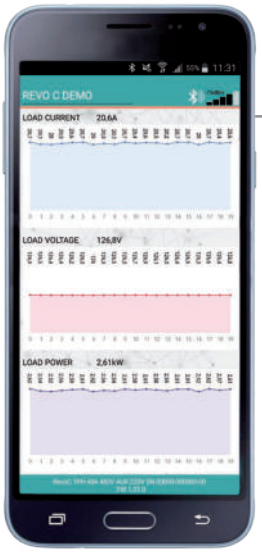
Download on the App Store

Monitor

The Monitoring screen allows you to view key data from outside the cabinet, including voltage and current values, DIG 1, DIG 2 etc. status, alarm status.

HW Settings

From this screen you can see and set the analogue and digital inputs and various parameters such as Power On, Feedback and Current limit



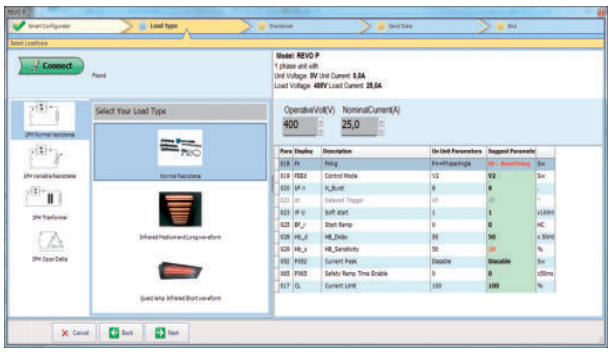
Graphics

By selecting the "Graphics" menu, it is possible to graphically view the course of the "Load Current", "Load Voltage" and "Load power" parameters.

Advanced Setup

Via the 'Advanced' screen you can configure the unit, save and load saved configurations

CONFIGURATOR SOFTWARE

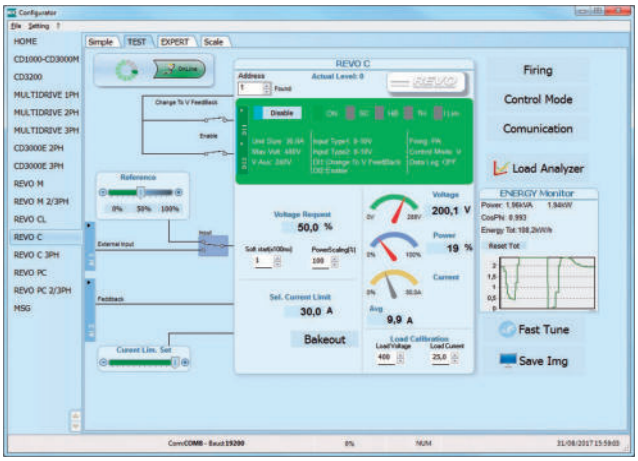


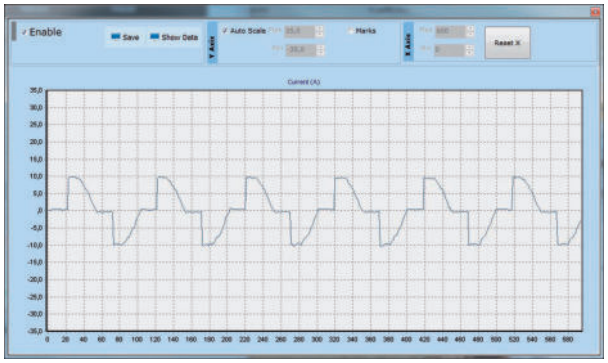
FAST TUNE

The all new powerful Thyristor Configurator Software allows you to configure all CD Automation products quickly and easily by using the FAST MODE. Simply select your application and the load type picture appears automatically, providing a list of suggested parameter settings. Depending on your application requirements, you can accept or make manual adjustments and when ready, download direct to the thyristor unit.

TEST UNIT

The TEST page is very useful when installing & commissioning CD Automation products as well as finding process issues or fine tuning at a later stage.
You can read, write, enable and disable key values and parameters to test your load. Examples include; reading voltage, current and power values, or current limit status, changing input types between analog or SSR, control (feedback) modes V, I and VxI, or select firing types half cycle, single cycle, burst firing, delayed triggering, phase angle and soft start.
The new 'Load Analyzer' (a small oscilloscope) can be activated from this page, see below.



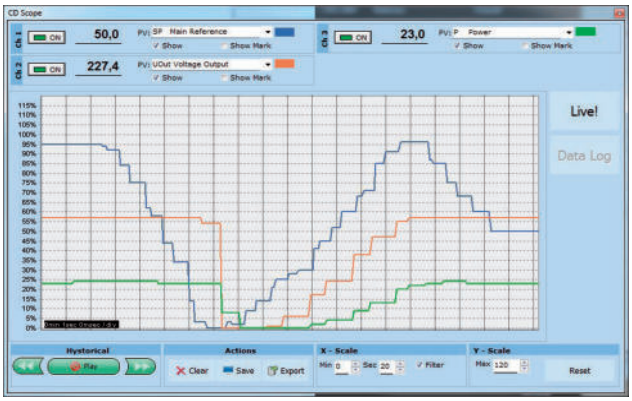


LOAD ANALYZER

Provides real-time information of the output waveform, where you can select up to 10 process variables to help the operator determine if the waveform is in line with process expectations. Also useful for trouble shooting.

PROCESS VARIABLE LOGGING

In REVO C Storage: 16GB SD Memory Card with programmable Logging Intervals. Estimated storing 10 years.
On other CD Automation Products the logging intervals are a fix value.



REVO C FEATURES AND DIMENSIONS

	Description	Revo C 1PH	Revo C 2PH	Revo C 3PH
	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	●	●	●
FIRING	Single Cycle	●		
	Half Cycle	●		
	Burst Firing	●	●	●
	Phase Angle	●		●
	Delayed Triggering	●		●
	Zero Crossing	●	●	●
CONTROL MODE	Open Loop	●	●	●
	Voltage	●	●	●
	Voltage square	●	●	●
	Current	●	●	●
	Current Square	●	●	●
	Power V x I	●	●	●
OPTIONS	Current Limit CL	O		O
	Heater Break Alarm + SCR Short Circuit	O	O	O
	Bluetooth	O	O	O
	Logging	O	O	O
	Totalizer	O	O	O
COMMUNICATION	Modbus® RTU	●	●	●
	ProfiBus® DP (becoming obsolete) + Modbus® RTU	O	O	O
	Profinet® IO + Modbus® RTU	O	O	O
	Modbus® TCP + Modbus® RTU	O	O	O
	Ethernet IP + Modbus® RTU	O	O	O
	EtherCAT + Modbus® RTU	O	O	O

CURRENT	**SIZE**		**SIZE**		**SIZE**	
	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
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	S14	S14
500	S12	S12	S14	S14	S14	S14
600	S12	S12	S14	S14	S17*	S17
700	S12	S12	S14	S14	S17*	S17
800	S15*	S15	S16*	S16	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

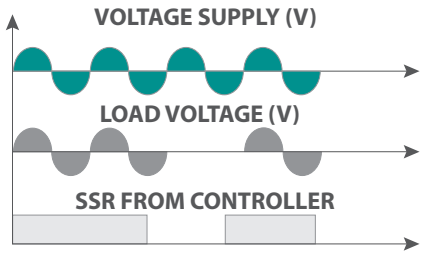
● **Standard** O **Option** ■ CE standard + cUL® as an option (*from 800A UL only) ■ CE Only - **Note (1):** Use n° 3 Revo-C 1PH

Agency Approval and Regulatory: cULus 508 Listed File E231578; cUL® Listed to C22.2 No. 14; CE EMC Directive 2014-30-EU, EN 60947-4-3 Class A Emissions; CE Safety Directive 2014-35-EU, EN 60947-4-1, -4-3; RoHS 2011-65-EU; W.E.E.E 2012-19-EU

GLOSSARY

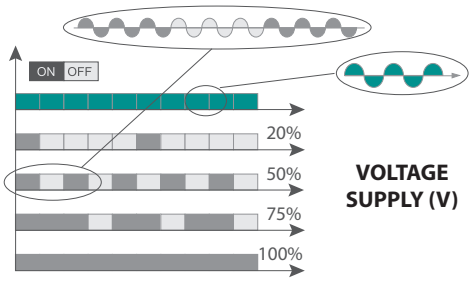
ZERO CROSSING ZC

ZC firing mode is used with the logic output from a temperature controller and so the thyristor operates like a contactor.
The cycle time is performed by the temperature controller.
Zero Crossing minimizes interferences as the thyristor unit switches ON-OFF at zero voltage.



BURST FIRING BF

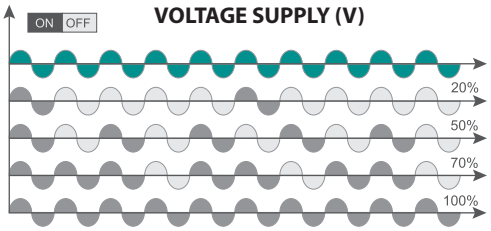
This firing is performed digitally within the thyristor unit at zero volts, producing no EMC interferences. Analogue input is necessary for BF and the number of complete cycles must be specified far 50% power demand. This value can be between 1 and 255 complete cycles, determining the speed of firing. When 1 is specified, the firing mode becomes Single Cycle (SC).



Soft Start + Burst Firing now availabe as an option.

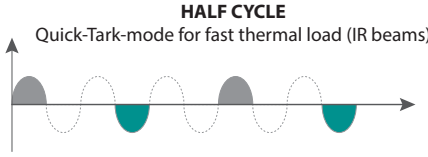
SINGLE CYCLE SC

SC is the fastest zero crossing switching method. At 50% input signal, one cycle is ON and one cycle is OFF. At 75%, 3 cycles are ON and one cycle is OFF. If power demand is 76% the unit performs the same as for 75% but every time the unit switches ON the microprocessor divides 76/75 and memorises the ratio.
When the sum is one the unit delivers one cycle more to the load.
With this firing it is necessary to have analogue input.



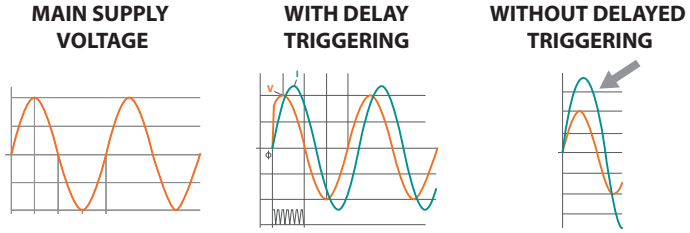
HALF CYCLE

This is a super Fast Firing used with short infrared elements to avoid flickering and harmonic generated by Phase Angle Firing.



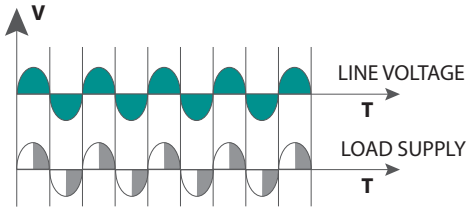
DELAYED TRIGGERING DT

Used to switch the primary coil of transformers when coupled with normal resistive loads (not cold resistance) on the secondary, DT prevents the inrush current when zero voltage (ON-OFF) is used to switch the primary. The thyristor unit switches OFF when the load voltage is negative and switches ON only when positive with a pre-set delay for the first half cycle.



PHASE ANGLE PA

PA controls the power to the load by allowing the thyristor to conduct for part of the AC supply cycle only. The more power required, the more the conduction angle is advanced until virtually the whole cycle is conducting for 100% power. The load power can be adjusted from 0 to 100% as a function of the analogue input signal, normally determined by a temperature controller or potentiometer, PA is normally used with inductive loads.



FEEDBACK/CONTROL MODE

Supply voltage fluctuations changes the power to the load.
To overcome this effect the voltage supplied to the load is measured and compared with the power demand from the controller.
The error signal is used to automatically hold the power at the value requested.

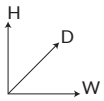
Three types of control mode are available:

- Voltage Control Mode, where the input signal is proportional to the voltage output (voltage f/b).
- Current Control Mode, where the input signal is proportional to the current output (current f/b).
- Power Control Mode, where the input signal is proportional to the power output (power f/b).

As an option it is possible to transfer control mode from voltage to power via a simple digital command.

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 Bluetooth 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 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.

S12 H 520 x W 137 x D 270 - 15kg.

S13/S14 H 440/520 x W 262 x D 270 - 18/22kg.

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

S16 H 560 x W 275 x D 270 - 34,4kg.

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

SR18 H 550 x W 329 x D 347 - 27kg.

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.

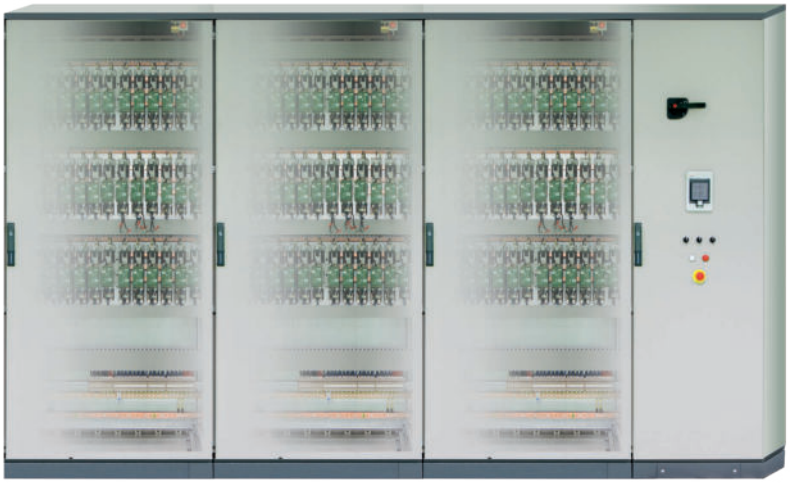
SR23 H 730 x W 717 x D 347 - 98kg.

APPLICATIONS

- Petrolchemicals
- Platform for oil extraction
- Conventional power generator
- Chemicals and pharmaceuticals
- Autoclaves
- Electric Furnaces
- Galvanic process
- Glass industry
- Polysilicon
- Chemical
- Plastic Machinery
- Packing Machinery
- Automotive
- Paint drying
- UV drying
- Car internal fittings

FEATURES AND BENEFITS

TRADITIONAL SYSTEM



REVO C SYSTEM

REVO C POWER CONTROLLER RANGE

Current Range from 30 to 2100A
Controlled Phases 1, 2 or 3 Phases suitable to drive Normal Resistance, Cold Resistance and transformers
Voltage 480V, 600V and 690V

FEATURES AND BENEFITS

Integrated with every REVO C is the semiconductor fuses, thyristors and current transformers. Designed and built as a single unit not only helps reduce the overall space and labour time to mount and connect separate fuses but also ensures that all testing is carried out correctly and guaranteed to the figures stated. The 100 KA short circuit current rating (SCCR) is very important and complies fully with NEC 110.10 regulation. Full documentation available upon request.

- Robust SCR designed to meet rugged industrial environments
- Easy access to fuses and thyristors by simply opening front panel door
- Circuit boards are mounted directly to the front panel door for easy access
- cUL 508 Listed up to 700A included, and UL listed up to 2100A

OUR PRODUCT DIMENSIONS ARE SMALL BECAUSE WE HAVE:

- Fuses mounted inside the thyristor unit
- Our heat sinks have a very high efficiency thermal resistance (low value °C/W)
- Internal fuses results in longer heat sinks and increased heat sink efficiency
- Improved air ventilation aids fuse cooling

THE CHOICE IS INTERNAL OR EXTERNAL FUSES?

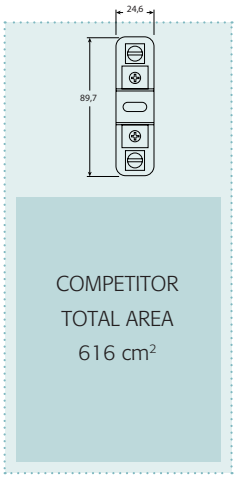
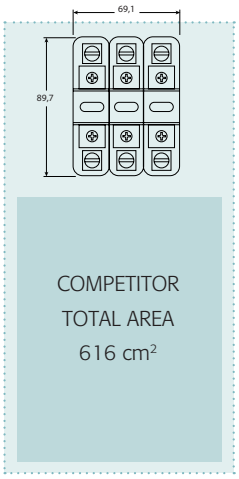
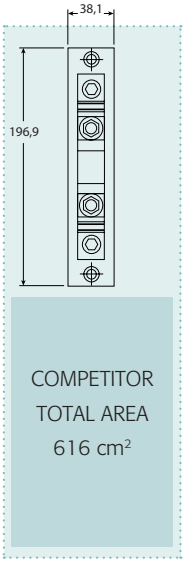
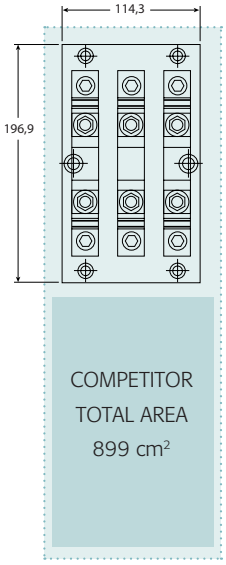
POWER CONTROL UNIT WITH INTERNAL FUSES

- Up to 60% space saving
- Fuse I^2t value selected by CD Automation
- SCCR Approved - 100 KA short circuit current rating valid and tested
- Save time for wiring between fuse holder and thyristor power control unit
- Your cabinet become 60% less in dimension and price

POWER CONTROL UNITS WITH EXTERNAL FUSE AND FUSE HOLDER

- More cabinet space required
- Bigger cabinet, more space required in the factory
- Do you know how much the extra space will cost you?
- If the product dimensions are twice as big, you will need twice the factory space

FUSEBLOCK DIMENSION

UP TO 40A COMPETITOR 1 PHASE	UP TO 40A CD AUTOMATION 1 PHASE	UP TO 40A COMPETITOR 3 PHASE	UP TO 40A CD AUTOMATION 3 PHASE
	CD AUTOMATION TOTAL AREA 100 cm² 		CD AUTOMATION TOTAL AREA 175 cm² 
EXTERNAL FUSES	INTERNAL FUSES	EXTERNAL FUSES	INTERNAL FUSES
UP TO 160A	UP TO 210A	UP TO 200A	UP TO 210A
	CD AUTOMATION TOTAL AREA 250 cm² 		CD AUTOMATION TOTAL AREA 762 cm² 
EXTERNAL FUSES	INTERNAL FUSES	EXTERNAL FUSES	INTERNAL FUSES

REVO C 1PH

SIZE SR9

SIZE SR15

SIZE S12

Technical Specification

Dimensions: See size and dimensions page 8-9

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

Inputs: 4:20mA, 0:10V, SSR and ModBus as std and different Field Bus Listed in the Order Code

Firing mode: Half Cycle, Single Cycle, Burst Firing, Delayed Triggering, 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

100 KA: Short Circuit Current rating (SCCR) up to 600V

Approvals: Comply with EMC, cULus® 508 listed and cUL® listed

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
- Bluetooth
- 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 Bluetooth

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

I LIMIT	HB	BLUETOOTH	LOGGING	TOTALIZER	Cod. OPTION	NOTES
					Ø	**I LIMIT (CURRENT LIMIT)** This option is used to keep the overcurrent inside set limit. It's necessary to drive primary transformers and cold resistance. It's dual limit for peak and RMS value. **HB** Alarm for partial or total load failure and Short Circuit on SCR (relay output) **Bluetooth** Communication and control of the unit via **APP** **APP "RevoBLE"** free download from Google Play or Apple Store **Data Logger** Reading and data logging of Current (I), Voltage (V) and Power (%) for diagnostics **Energy Totalizer** Power reading: totals the energy consumption of the load by providing the kW consumed
				■	1	
			■		2	
			■	■	3	
		■			4	
		■		■	5	
		■	■		6	
		■	■	■	7	
	■				8	
	■			■	9	
	■		■		A	
	■		■	■	B	
	■	■			C	
	■	■		■	D	
	■	■	■		E	
	■	■	■	■	F	
■					G	
■				■	H	
■			■		I	
■			■	■	J	
■		■			K	
■		■		■	L	
■		■	■		M	
■		■	■	■	N	
■	■				O	
■	■			■	P	
■	■		■		Q	
■	■		■	■	R	
■	■	■			S	
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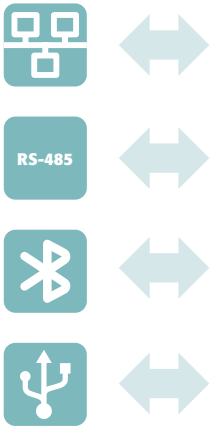
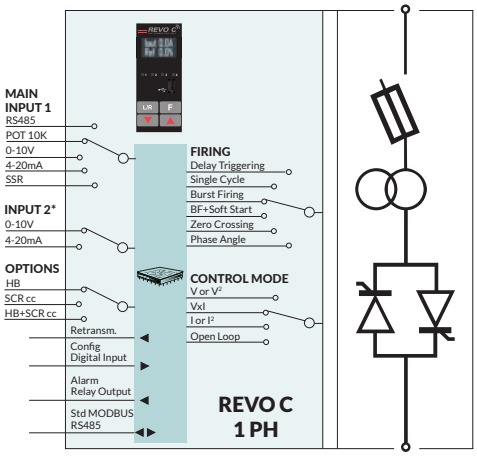
■	■	■	■		U	
■	■	■	■	■	V	

CONNECTIVITY





ORDER CODE:

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

CURRENT	FUSES	4	5	6	
description	description	code			note
30A	Fuse + Fuse Holder Included	0	3	0	
35A	Fuse + Fuse Holder Included	0	3	5	
40A	Fuse + Fuse Holder Included	0	4	0	
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	
500A	Fixed Fuses Included	5	0	0	
600A	Fixed Fuses Included	6	0	0	
700A	Fixed Fuses Included	7	0	0	
800A	Fixed Fuses Included	8	0	0	5

For the extended version (1100A - 2100A) see pag 18

MAX VOLTAGE	7	
description	code	note
480V	4	
600V	6	
690V	7	1, 2

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	
DPU	D	

FIRING	START OPTION	10	
description	description	code	note
Single Cycle	No Soft Start	C	
	Linear Soft Starter	S	
Half Cycle	No Soft Start	H	
	Linear Soft Starter	L	
	Soft Start for short Infr. Lamp	I	
Burst Firing	No Soft Start	B	
	Linear Soft Starter	J	
Phase Angle	No Soft Start	P	
	Linear Soft Starter	E	
Delayed Triggering	No Soft Start	D	
	Linear Soft Starter	T	
Zero Crossing	No Soft Start	Z	
	Linear Soft Starter	R	

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

Note (1): No cUL/UL approved **Note (2):** Available on unit ≥60A

CONTROL MODE	11	
description	code	note
Open Loop	0	
Voltage	U	
Voltage Square	Q	
Current	I	
Current Square	A	
Power Vxl	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
1 PH Normal Resistance	0	
1 PH IRSW Infrared Short Wave	1	
1 PH MoSi2 Heaters	2	7
1 PH SiC Heaters	3	
1 PH Transformer Coupled with Normal Resistance	4	6
1 PH Transformer Coupled with MoSi2 Heaters	5	6
1 PH Transformer Coupled with SiC Resistance	6	6
1 PH Transformer Coupled with UV Lamp	7	6

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 (becoming obsolete) + N°1 Modbus® RTU	No Retransmission	6	4
	Retransmission 4:20mA	7	4
	Retransmission 0:10V	8	4
N°1 Profinet® IO + N°1 Modbus® RTU	No Retransmission	9	4
	Retransmission 4:20mA	A	4
	Retransmission 0:10V	B	4
N°1 Modbus® TCP + N°1 Modbus® RTU	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	4
	Retransmission 4:20mA	G	4
	Retransmission 0:10V	H	4
N°1 EtherCAT + N°1 Modbus® RTU	No Retransmission	I	4
	Retransmission 4:20mA	L	4
	Retransmission 0:10V	M	4

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

REVO C 2PH

SIZE SR10

SIZE SR16

SIZE S14

Technical Specification

Dimensions: See size and dimensions page 8-9

Load type: Normal Resistance, Infrared Short, Medium and Long waveform

Inputs: 4:20mA, 0:10V, SSR and Modbus® as std and different Field Bus Listed in the POrder Code

Firing mode: Burst Firing, Zero Crossing

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, cULus® 508 listed and cUL® listed

100 KA: Short Circuit Current rating (SCCR) up to 600V

Option

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

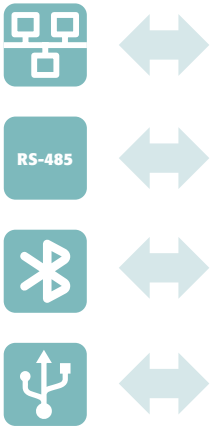
Tools

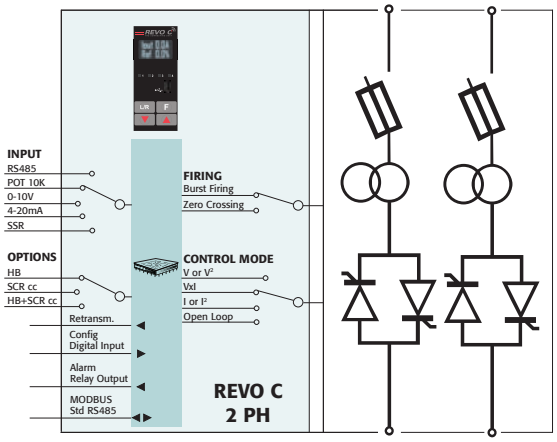
- A very easy and Powerful Configurator Software is available Free of Charge on www.cdautomation.com
- CD Automation APP is also available free of charge to communicate via Bluetooth

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

HB	BLUETOOTH	LOGGING	TOTALIZER	Cod. OPTION	NOTES
				0	**HB** Alarm for partial or total load failure and Short Circuit on SCR (relay output) **Bluetooth** Communication and control of the unit via **APP** **APP "RevoBLE"** free download from Google Play or Apple Store **Data Logger** Reading and data logging of Current (I), Voltage (V) and Power (%) for diagnostics **Energy Totalizer** Power reading: totals the energy consumption of the load by providing the kW consumed
				1	
				2	
				3	
				4	
				5	
				6	
				7	
				8	
				9	
				A	
				B	
				C	
				D	
				E	
				F	

CONNECTIVITY





ORDER CODE

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

CURRENT	FUSES	4	5	6	
description	description	code			note
30A	Fuse + Fuse Holder Included	0	3	0	
35A	Fuse + Fuse Holder Included	0	3	5	
40A	Fuse + Fuse Holder Included	0	4	0	
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	
700A	Fixed Fuses Included	7	0	0	
800A	Fixed Fuses Included	8	0	0	5

For the extended version (1100A - 2100A) see pag 18

MAX VOLTAGE	7	
description	code	note
480V	4	
600V	6	
690V	7	1, 2

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	
DPU	D	

FIRING	START OPTION	10	
description	description	code	note
Burst Firing	No Soft Start	B	
Zero Crossing	No Soft Start	Z	

CONTROL MODE	11	
description	code	note
Open Loop	0	
Voltage	U	
Voltage Square	Q	
Current	I	
Current Square	A	
Power Vxl	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 Load with 3 Phase Star without neutral Connection	0	
Normal Resistive Load with 3 Phase Delta Connection	1	
IRSW Infrared Short wave with 3 Phase Star Connection	2	
IRSW Infrared Short wave with 3 Phase Delta Connection	3	

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 (becoming obsolete) + N°1 Modbus® RTU	No Retransmission	6	4
	Retransmission 4:20mA	7	4
	Retransmission 0:10V	8	4
N°1 Profinet® IO + N°1 Modbus® RTU	No Retransmission	9	4
	Retransmission 4:20mA	A	4
	Retransmission 0:10V	B	4
N°1 Modbus® TCP + N°1 Modbus® RTU	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	4
	Retransmission 4:20mA	G	4
	Retransmission 0:10V	H	4
N°1 EtherCAT + N°1 Modbus® RTU	No Retransmission	I	4
	Retransmission 4:20mA	L	4
	Retransmission 0:10V	M	4

Note (1): No cUL/UL approved
Note (2): Available on unit ≥60A
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

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 Order Code

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, cULus® 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
- Bluetooth
- HB Alarm to diagnose partial or Total Load Failure and Thyristor Short Circuit

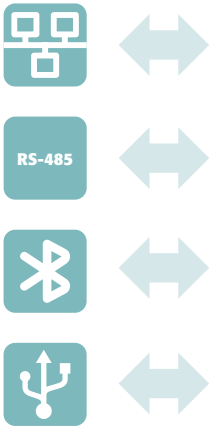
Tools

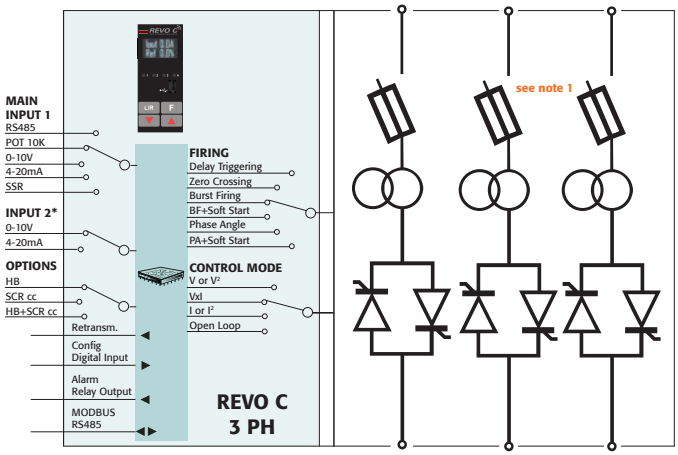
- A very easy and Powerful Configurator Software is available Free of Charge on www.cdautomation.com
- CD Automation APP is also available free of charge to communicate via Bluetooth

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

I LIMIT	HB	BLUETOOTH	LOGGING	TOTALIZER	Cod. OPTION	NOTES
					0	**I LIMIT (CURRENT LIMIT)** This option is used to keep the overcurrent inside set 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). **Bluetooth** Communication and control of the unit via **APP** **APP "RevoBLE"** free download from Google Play or Apple Store **Data Logger** Reading and data logging of Current (I), Voltage (V) and Power (%) for diagnostics **Energy Totalizer** Power reading: totals the energy consumption of the load by providing the kW consumed
				■	1	
			■		2	
			■	■	3	
		■			4	
		■		■	5	
		■	■		6	
		■	■	■	7	
	■				8	
	■			■	9	
	■		■		A	
	■		■	■	B	
	■	■			C	
	■	■		■	D	
	■	■	■		E	
	■	■	■	■	F	
■					G	
■				■	H	
■			■		I	
■			■	■	J	
■		■			K	
■		■		■	L	
■		■	■		M	
■		■	■	■	N	
■	■				O	
■	■			■	P	
■	■		■		Q	
■	■		■	■	R	
■	■	■			S	
■	■	■		■	T	
■	■	■	■		U	
■	■	■	■	■	V	

CONNECTIVITY





ORDER CODE:

	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16
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 the extended version (1100A - 2100A) see pag 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	
DPU	D	

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
Zero Crossing	No Soft Start	Z	
	Linear Soft Starter	R	

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

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

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 (becoming obsolete) + N°1 Modbus® RTU	No Retransmission	6	4
	Retransmission 4:20mA	7	4
	Retransmission 0:10V	8	4
N°1 Profinet® IO + N°1 Modbus® RTU	No Retransmission	9	4
	Retransmission 4:20mA	A	4
	Retransmission 0:10V	B	4
N°1 Modbus® TCP + N°1 Modbus® RTU	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	4
	Retransmission 4:20mA	G	4
	Retransmission 0:10V	H	4
N°1 EtherCAT + N°1 Modbus® RTU	No Retransmission	I	4
	Retransmission 4:20mA	L	4
	Retransmission 0:10V	M	4

REVO C EXTENDED VERSION

View with IP20 protection

Standard Version with IP0

Technical Specification

Dimensions: See size and dimensions page 8-9

Load type: Normal Resistance, Infrared Short, Medium and Long, Transformer Primary, Cold resistance, SiC and MoSi2 heaters

Inputs: 4÷20mA, 0÷10V, SSR, with Modbus® RTU standard; and different Field Bus listed in the Order Code

Firing mode: Half Cycle, Single Cycle, Burst Firing, Delayed Triggering, 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, cULus® 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 tables at pages 12 (1PH), 14 (2PH), 16 (3PH) for options and their combination for Code generation
- Energy Totalizer
- Data Logging
- Bluetooth
- HB Alarm to diagnose partial or Total Load Failure and Thyristor Short Circuit
- Over-temperature alarm
- Available on some size: Fuse alarm signal (FUMS) and 2° thermal switch
- IP20 protection

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 Bluetooth

CURRENT	MAX NOMINAL VOLTAGE	MAX NOMINAL VOLTAGE	MAX NOMINAL VOLTAGE
1100A	480V	600V	690V
1400A	480V	600V	690V
1600A	480V	600V	690V
1800A	480V	600V	690V
2100A	480V	600V	690V

ORDER CODE:

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

CURRENT	FUSES	4	5	6	
description	description	code			note
1100A	Fixed Fuses Included	1	1	H	
1400A	Fixed Fuses Included	1	4	H	
1600A	Fixed Fuses Included	1	6	H	
1800A	Fixed Fuses Included	1	8	H	
2100A	Fixed Fuses Included	2	1	H	

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

AUX SUPPLY VOLTAGE	AUX VOLTAGE RANGE	8	
description	description	code	note
100/120Vac	90 to 135Vac	1	
200/208/230/240Vac	180 to 265Vac	2	

MAIN INPUT	9	
description	code	note
SSR	S	
0:20mA	B	
4:20mA	A	
0:10V	V	
10KPot	K	
DPU	D	

FIRING	START OPTION	10	
description	description	code	note
Burst Firing	No Soft Start	B	
	Linear Soft Starter	J	4
Phase Angle	No Soft Start	P	4
	Linear Soft Starter	E	4
Delayed Triggering	No Soft Start	D	4
	Linear Soft Starter	T	3
Zero Crossing	No Soft Start	Z	
	Linear Soft Starter	R	4

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 table pag 12 (1PH), pag 14 (2PH), pag 16 (3PH)	...	

FAN VOLTAGE	13	
description	code	note
Fan 115Vac	1	
Fan 230Vac Std Version	2	

APPROVALS	14	
description	code	note
CE EMC for European Market - IP protection rating = 0	0	
CE EMC for European Market - IP protection rating = 20	1	
UL + CE EMC for US and European Market - IP protection rating = 0	2	
UL + CE EMC for US and European Market - IP protection rating = 20	L	

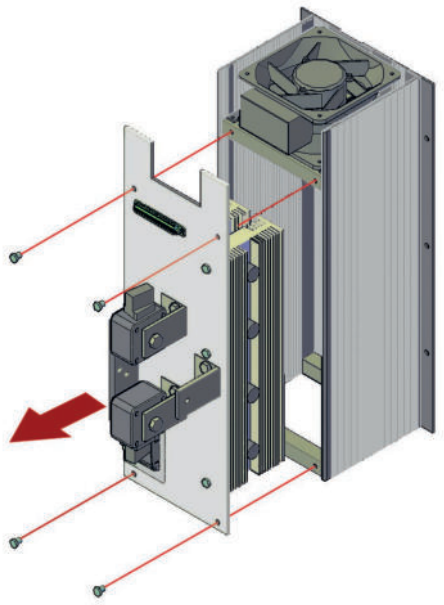
LOAD TYPE	15	
description	code	note
Normal Resistance	0	
IRSW Infrared Short Wave	1	
MoSi2 Heaters	2	3, 5
SiC Heaters	3	3
Transformer Coupled with Normal Resistance	4	3, 4
Transformer Coupled with MoSi2 Heaters	5	3, 4
Transformer Coupled with SiC Resistance	6	3, 4
Transformer Coupled with UV Lamp	7	3, 4

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	2
	Retransmission 4:20mA	4	2
	Retransmission 0:10V	5	2
N°1 Profibus® DP (becoming obsolete) + N°1 Modbus® RTU	No Retransmission	6	2
	Retransmission 4:20mA	7	2
	Retransmission 0:10V	8	2
N°1 Profinet® IO + N°1 Modbus® RTU	No Retransmission	9	2
	Retransmission 4:20mA	A	2
	Retransmission 0:10V	B	2
N°1 Modbus® TCP + N°1 Modbus® RTU	No Retransmission	C	2
	Retransmission 4:20mA	D	2
	Retransmission 0:10V	E	2
N°1 Ethernet IP + N°1 Modbus® RTU	No Retransmission	F	2
	Retransmission 4:20mA	G	2
	Retransmission 0:10V	H	2
N°1 EtherCAT + N°1 Modbus® RTU	No Retransmission	I	2
	Retransmission 4:20mA	L	2
	Retransmission 0:10V	M	2

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

Note (1): No cUL/UL approved
Note (2): 24Vdc Backup Power for User Interface and Communications included
Note (3): Available on 1PH and 3PH only
Note (4): This configuration is possible only with Delayed Triggering or Phase Angle Firing
Note (5): This configuration is possible only with Phase Angle Firing

MAINTAINABILITY IN FUNCTION



THESE ARE OUR TARGETS:

- Each phase can be substituted by front unit by technician removing 4 screw without the help of fork lift
- The average weight of phase is 16kg up to 2100 Amps
- Time required to substitute one phase not more than 20 minutes
- Plant downtime not more than 20 minutes, vital for important process
- When the operator replaces one phase, all the auxiliary connection are plug in this allow to be fast and not to make mistakes in the wiring
- Control board plug in for the connection

HEATER BREAK STANDARD

The heater break circuit diagnostic partial or total load failure.

It reads load resistance with an internal voltage and current transducer to calcolate the resistance value V/I.

The heater break circuit is compensated for voltage fluctuation, infact a voltage variaton has no influence on resistance value because V/I ratio remain constant.

On this unit is possible to set the nominal resistance and the alarm sensitivity.

HB alarm in addition diagnostic short circuit on thyristor.

A normally open contact gives the alarm condition and an indication of the alarm type.

FIELDBUS OPTION

- Profibus DP
- Ethernet Modbus TCP protocol
- ProfiNET
- Ethernet IP
- EtherCAT

REVO KP3 ANCILLARY UNIT

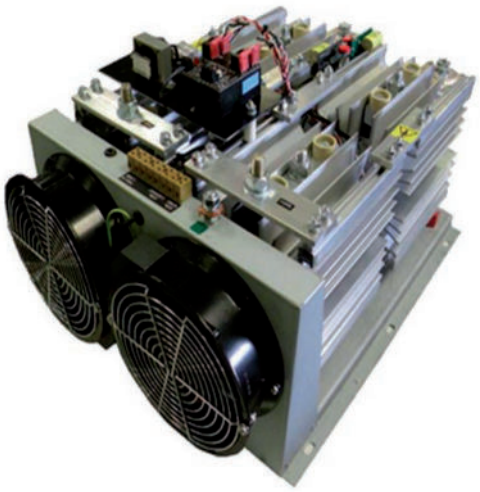
- Graphic operating terminal for thyristor unit up to 6 REVO C can be managed by REVO KP3
- 4.3 - 7.0 - 10" touch colour display are available
- Possibility to see trends of process variable
- Recipy management facility to configure parameter of the unit just touching the panel
- Multi language interface selectable

CONFIGURATION CABLE

	1	2	3
ORDERING CODE	C	C	X
description	Micro USB Cable for REVEX and REVO C		

CD AUTOMATION

COMPETITORS

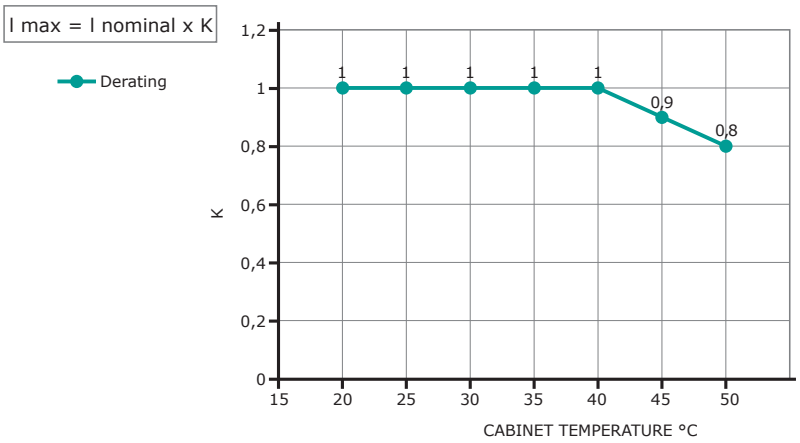


OUR NEW PROJECT	OLD FASHION PROJECT
Aluminum tunnel for cooling	NO ventilation tunnel for cooling
Flux of air in direction of heat sink to increase the cooling efficiency	If you mount more than one unit in a cubicle you will have different air vortex intersection
You buy an units able to grow with your needs including Remote Service	You buy just heat sink plus thyristor
Fuses available inside the units	Fuses not available
Full visual diagnostic via front Key Pad	NO diagnostic
Heater break alarm to diagnostic partial or total load failure and short circuit on thyristor	NO heater break and thyristor short circuit alarm
Fuse fault indication	NO fuse fault indication
Reading on frontal display for current, voltage and power in engineering units	NO reading
Possibility to connect a touch panel to manage up to six units	NO possibility for a touch panel connection becouse there is not communication
Communication RS485 Std. with Modbus protocol	NO Communicaton
Fieldbus available as option	NO Fieldbus
IP20 protection	NO IP20

GENERAL FEATURES

Display Software	
OLED display on front Unit	This display improves the operator interface and delivers use-friendly intuitive messages
Diagnostic	Powerful diagnostics provides clear alarm notification in plain English on the OLED display
Fully Software Configurable	REVO C is fully Software configurable
Layer based Firmware	Layered software design means that new application or customer software can be written without a complete software debug, resulting in faster upgrades and a stable platform
Electrical Features	
Current rating	30 to 2100A for 1-2-3 Phase unit
Voltage	480-600-690V 690V only available for unit ≥60 A
Integrated Fuse	This reduce labor and space and gives the possibility to use a part of fan cooling air to reduce the temperature of semiconductor fuses and reduce the mounting space inside the cabinet (see page 11)
Quick and easy access to Fuses	Fuses and thyristors are mounted directly behind the front panel door
100 kA Short Circuit Current rating (SCCR) up to 600V	Enable greater protection in case of Short Circuit (see page 6). The unit with cUL have SCCR 100kA
Firing & Control Mode	
Universal firing mode	Half Cycle, Single Cycle, Burst Firing, Delayed Triggering Phase Angle and Soft Start
Current Control	This feature is always available for both RMS and peak Control
Voltage Control	Normally used when Voltage Control Mode is selected
Power Control	Normally used when Power Control Mode is selected
Universal Input	The std analog inputs 4:20mA and 0:10V and SSR Configurable via Software - All already calibrated
Universal Control Mode	REVO C can be configured for Current, Voltage, Power feedback or open loop
External Feed Back	External selection of the Control Mode (Feedback) via 0-10V signal
Communication	
USB device on front unit for configuration	Standard easily and safety normally used to configure the REVO C Eliminate the user having to work in a high voltage environment because the unit is powered through USB connection
Modbus® RTU	Standard
Modbus® TCP	Option
Profibus® DP (becoming obsolete)	Option
Profinet® IO	Option
Ethernet IP	Option
EtherCAT	Option
Bluetooth	Option that utilizes the Smartphone App to access Alarm Overview, Configuration and Remote Service & Global Support Service
Extra Features	
Integrated Data Logging	Storage: 16GB SD memory card with programmable Logging Intervals Optional 40GB SD memory card available
Energy Counter Totalizer	Available as an option to define the cost per hour of the heating system
Special Algorithm for Short Wave IR Lamp	Using half cycle firing and soft start curve to minimize lamp flickering
Remote service	Available with the Smart Phone App via Bluetooth. Use it and "You will never be alone„
Automatic Selection of the configuration as a function of wiring and load type	Automatically select the correct parameters for your application by selecting the wiring and load type via PC configuration software
HB and Sc Alarm	Alarm for Partial or Total Load Failure and Short Circuit on SCR with Electromechanical Relay output 1A at 30 Vdc or 0,5A at 125 Vac
Heater Bake Out	Protects heating elements on start-up by removing any present moisture and preventing potential damage
High precision measurement (True RMS Value for V,I and VxI)	≤1%
Integrate Load Analyzer	Helps the operator to see possible load problems with live Wave Form monitoring
Free configuration Software	Easy to use and powerful Configurator Software, available free of charge from www.cdautomation.com
General Features and Approvals	
Industry-leading and Serviceability	Generous sizing of Thyristors and Thermal Parts using high efficency Heatsink
Enable troubleshooting with helpful thermal system diagnostics	Internal temperature sensor detects over-current or high cabinet temperature and raises alarm. If high temperature continues a second high limit alarm stop the thyristor unit
Fully compatible with obsolete products	Fully upgrade & substitute REVO M, REVO CL and CD3200 units using the same terminal blocks and wiring
Approvals	CE-EMC and cUL us® 508 Listed up to 700A (1-2PH) and 500A (3PH); UL listed from 800A to 2100A (1-2PH) and 600A to 2100A (3PH); 480-600V versions is available on request CE-EMC only for all 690V Units. See the tab at page 6 for more details

DERATING CURVE

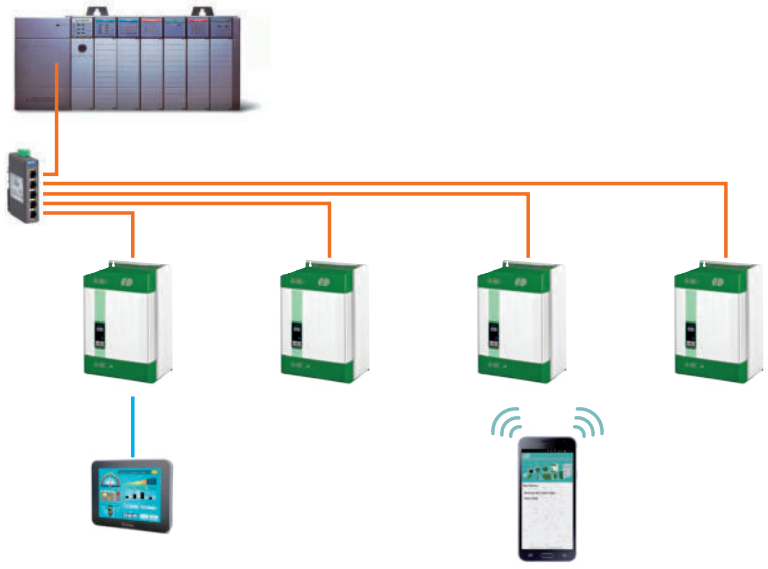


INTEGRATED FIELDBUS

SYSTEM ARCHITECTURE WITH DIFFERENT FIELDBUS

CHAIN CONNECTION

STAR CONNECTION



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