

- Voltage Supply 480-600-690V
- Internal Fuse on product range from 30 to 800A
- 100 KA Short Circuit Current (SCCR) up to 600V
- SSR and Analog Input
- Zero Crossing & Burst Firing
- HB alarm to diagnostic Partial Load Failure
- Comply with EMC, cULus® 508 listed and cUL® listed

CD AUTOMATION

POWERED BY INNOVATION





We are delivering Real Cost Benefits

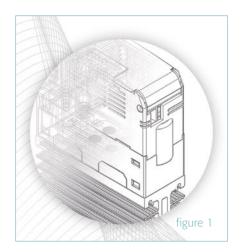


Release n.1

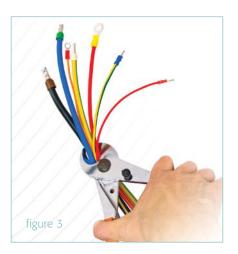


WHY CHOOSE REVO?

WE DESIGNED A SUPERIOR PRODUCT







With the market place becoming more competitive we had a choice to make. Design a product a little cheaper but possibly not as good, or design a new innovative product where its added value is clear for all to see. We chose the latter, in line with our long-term philosophy.

NO COMPROMISE

Heatsink and thyristor junctions generously sized to guarantee a long life for the thyristor unit (see figure 2)

- Units working at low junction thyristor temperature with 20% margin on max temperature
- Strong connection design between the block terminal and thyristor semiconductor connection allows for generous sizing
- All the copper connections treated against oxidation
- Rugged construction for electronic and plastic parts
- Protection against over voltage

HAVE A CLOSER LOOK

Open a CD Automation thyristor unit and any of our competitors, you will discover the difference and see why we can offer a longer life warranty (see below tab).

ESTIMATED POWER CYCLES OF AL WIRE BONDED DIES

	dΤ	Tj max \°C 100°C	110°C	120°C	130°C	140°C
Tj start \°C	80°C	248.000				
	70°C	320.200	110.000			
	60°C	464.000	145.500	51.100		
	50°C	782.000	216.000	69.100	24.800	
	40°C	1.600.000	372.000	105.000	34.100	12.500
SSR	30°C	4.800.000	793.000	184.000	52.500	17.500
Single Cycle	20°C	25.400.000	2.400.000	400.000	94.000	27.500
	·		12.800.000	1.200.000	209.000	50.000
				6.700.000	645.000	112.000
					3.600.000	353.000
						2.000.000

CD Automation

CD Automation

CD predicted life working in Single Cycle.

CD predicted life with SSR Input and ZC Firing.

COMPETITORS

Predicted life of majority of competitors working at 130°C with SSR Input and ZC firing.



SAVE SPACE = SAVE MONEY

AN INNOVATIVE ENGINEERING SOLUTION THAT WILL DRAMATICALLY SAVE WIRING & LABOR

With a reduction of 50% space, it's easy to save hundreds off the cabinet price.

LEFT SIDE (TRADITIONAL)

Mounted on the baseplate are a Fuse & Fuseholder, 40A Solid State Relay and a Current Transformer.

RIGHT SIDE (INNOVATIVE)

Mounted on the same baseplate are two Relay 40A units, each having the same components as the traditional unit.

This simple example demonstrates a 50% saving of panel space.

THE NEW REVO S FAMILY

Can be put together with little technical knowledge

- · SSR Solid State Relay with Zero Crossing
- SSR Solid State Relay + Fuse & Fuse Holder
- SSR Solid State Relay + Fuse & Fuse Holder + Current Transformer and Heater Break Alarm
- · Different versions with or without heat sink
- Single and three phase thyristor units

OPTIONS

- · Heater Break Alarm for partial or total load failure
- · Analog Input and Burst Firing
- Connecting with REVO PC will remove power peaks and add communications
- Thyristor short circuit failure



Traditional

Innovative



KEY BENEFITS INCLUDE:

- Space reduction of 50%, labour reduction of 1 hour per control zone, high reliability
- If one zone fails a non-technical user can substitute it with spare units in few seconds

WHAT REVO OFFERS?

- Modularity of its components
- · Configurability that allows increased product performance
- REVO's 'value-add' capable of saving 50% of labour and space
- Innovation based on knowledge of process
- International assistance from around the world via trained distributors and joint venture multi-national companies
- Dynamic organization with total customer flexibility at the core of its philosophy

REVO IS A SYSTEM NOT A SIMPLE PRODUCT

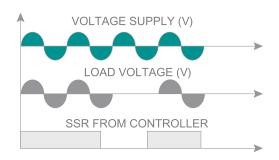
- Includes all key components of a typical temperature control zone
- · Wiring & mounting accessories included
- Designed as a total block of automation

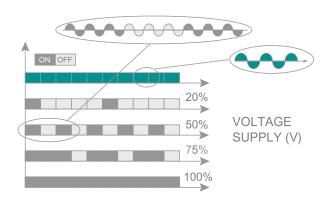


GLOSSARY

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.





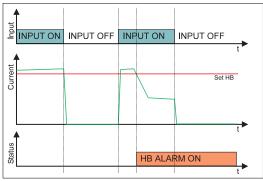
BURST FIRING BF

This firing is performed within the thyristor unit at zero volts, producing no EMC interference.

Analogue input is necessary for BF and the number of complete cycles can be 4-8-16 Cycles for 50% power demand.

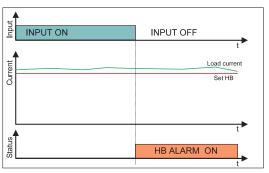
HEATER BREAK (H.B.)

Optional electronic circuit capable of detecting all types of heating zone faults. Each zone, via the units front panel, can be calibrated by the user to set the alarm value for partial or total load failure. The capability to identify a partial load failure is 1/5 or 20%. The H.B. Alarm is microprocessor based and can automatically set its alarm value when a digital input is activated or when the CAL push button is selected on the front panel.



Heater Break Alarm load failure

To ensure that the automatic set value is not taken from an unstable current value, the circuit will read the current 5 times and store the average value. When there are 3 equal average values in sequence, it will take this value and multiply by 0.8 to compensate for any voltage fluctuations. The intelligent circuit can also detect if the SCR (switching device) has become open circuit.



Heater Break Alarm short circuit on scr



WHAT DO OUR CUSTOMERS WANT?

THEY WANT A POSITIVE EXPERIENCE WITH OUR TOTAL SOLUTION, NOT JUST A CHEAP PRICE!

KNOWLEDGEABLE SALES TEAM

We have a team of sales engineers focused on core business products only. An expert at no cost, not an engineer with a big catalogue and little product knowledge, will welcome customers. Easy access to engineers when you need a special performance project.

FAST SERVICE

Excellent pre sales and after sales service including engineering support.

EASY TO DO BUSINESS WITH US

Fast reaction to your enquiry, short lead times, timely production of order acknowledgement, invoices etc.

Catalogues & manuals of all our products plus configuration software, available free of charge from our web-site.

Our people are always welcoming to our customers.

DIGITAL DOCUMENTATION ON CDAUTOMATION.COM

- Bulletins
- Manuals
- Applications
- Help desk



REVO S & SSR FEATURES AND DIMENSIONS

	DESCRIPTION	REVO SSR	REVO	S 1PH	REVO	S 2PH	REVO :	S 3PH
	CODE	SSR	RS	51	RS	2	RS	3
-11	Max voltage 480V	•	•	•	•)	•)
MAIN VOLT.	Max voltage 600V	•	•		•)	•)
MAI	Max voltage 690V		• ≥(60A	• ≥6	50A	• ≥6	50A
	Single phase	•		•				
LOAD TYPE	3 phase load star no neutral or delta				•)	•)
OAD	3 phase load star with neutral						•)
_	3 phase load open delta						•)
	SSR 4:30VDC	•			•)	•)
INPUT	4:20 mA	0	C)	C)	C)
Ž	0:10 Vdc	0)	C)	C)
	Digital Potentiometer	0)	C)	C)
FIRING	Zero crossing	•	•		•)	•)
	Burst firing 4-8-16	O (1)	0 ((1)	0 ((1)	0 (1)
	Heater break + thyristor short circuit	0	C)	C)	C)
OPTION	Integrated fixed fuses		•>	40A	• >4	10A	• >4	10A
OP	Fuse & fuse holder	0	0 ≤	40A	0 ≤	40A	0 ≤	40A
	REVO PC (3)	0	C)				
	CURRENT	SIZE	SIZ	ZE	SIZ	ZE	SIZ	ZE
	Voltage	480 to 600V	480 to 600V	690V	480 to 600V	690V	480 to 600V	690V
	30	SRO.SR1 (2)	SR3.SR6		SR4.SR7		SR5.SR8	
	35		SR3.SR6		SR4.SR7		SR5.SR8	
	40		SR3.SR6		SR4.SR7		SR5.SR8	
	60		SR12	S11	SR15	S11	SR16	S11
	75				SR15		SR16	
	90		SR15	S11	SR15	S11	SR16	S11
-	120		SR15	S11	SR16	S13	SR17	S13
CURRENT	150		SR15	S11	SR16	S13	SR17	S13
Ş	180		SR15	S11	SR16	S13	SR17	S13
	210		SR15	S11	SR16	S13	SR17	S13
	300		S12		S14	S14	S14	S14
	350						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		
	700		S12	S12	S14	S14		
	800		S15	S15	S16	S16	S17	S17

 ^{(1) 4-8-16} Cycles Simplified Burst Firing available with Analog Input only
 (2) See page 9 for current sizing
 (3) REVO PC is an external unit designed to handle multiple zones, able to minimize energy cost, keep power factor close to 1 and add Field Bus. See REVO PC catalog.



REVO S & SSR SIZE AND DIMENSIONS



SRO H 97 x W 36 x D 32 - 0,12 kg



SR1 H 97 x W 36 x D 92 - 0,29 kg



SR2 H 121 x W 36 x D 87 - 0,27 kg



SR3 H 121 x W 36 x D 125 - 0,44 kg



SR4 H 121 x W 72 x D 125 - 0,88 kg



SR5 H 121 x W 108 x D 125 - 1,32 kg



SR6 H 121 x W 36 x D 185 - 0,61 kg



SR7 H 121 x W 72 x D 185 - 1,22 kg



SR8 H 121 x W 108 x D 185 - 1,83 kg



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



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



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



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



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



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



S15 H 560 x W 137x D 270 - 10,5 kg



S16 H 560 x W 275 x D 270 - 21 kg



\$17 H 560 x W 411 x D 270 - 31,5 kg

REVO SSR





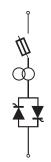
Technical Specification

- **Dimensions:** SR0, SR1, (see page 7)
- Load type: Normal resistance, infrared long and medium waveform
- Inputs: SSR
- Firing mode: Zero Crossing
- Operating temperature: See graph on right page
- Comply with EMC CE
- **Operating current:** see the graph on the right page. This unit needs an heatsink, see the graph on the right page to size it Max terminals current allowed is 40A

SIZE SRO																	
	1	2	3	4	5	6		7	8	9	10	11	12	13	14	15	16
ORDERING CODE	S	S	R	-	-	_	-	_	-	_	-	-	_	_	_	_	-
CURRENT				4 5	6		FUSES	& OPTIC	ON							12	
description				code	not	e	descri	ption							C	ode	note
62A					2 1		No Fu	se								0	
74A					4 1												
90A				0 9	0 1			OLTAGE								13	
						_	descri								C	ode	note
MAX VOLTAGE				7			No far	1								0	
description				code	not	e											
480V				4			APPR									14	
600V				6			descri		14	14					C	ode	note
VOLTAGE SUPPLY AUX				8			CE EIV	C For Eur	opean M	arket						0	
description				code	not		MANU	IAI								15	
No auxiliary voltage supply				0	1100	е	descri									ode	note
ivo auxiliai y voltage supply				U			None	ption								0	Hote
INPUT				9			Italian									1	
description				code	not	e	Englis									2	
SSR				S		_	Germa									3	
							French	1								4	
FIRING				10													
description				code	not	e	VERS	ON								16	
Zero Crossing Z				Z			descri	ption							C	ode	note
Random (For connection with REVO PC)				R			Std ve	rsion								1	
						_											
CONTROL MODE				- 11													
description				code	not	e											
Open Loop				0			Note (1)	see page !	9 for currer	nt sizing. N	lore details	on "Revo	SSR" Manu	al			

REVO SSR/ANALOG





Technical Specification

- Dimensions: SR1 (see page 7)
 Load type: Normal resistance, infrared long and medium waveform

- Inputs: 0:10V; 4-20mA SSR

 Firing mode: Zero Crossing Burst firing

 Operating temperature: See the graph on the right page

 Comply with EMC CE
- Operating current: see the graph on the right page. This unit needs an heatsink, see the graph on the right page to size it. Max terminals and fuse current allowed is 40A.

Option

All options below are available with fuse + fuse holder only

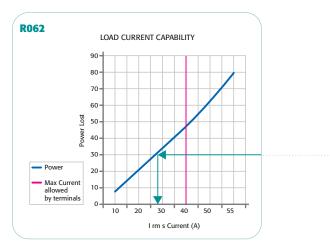
- Current Transformer

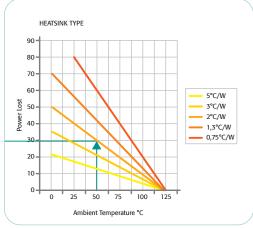
 Current Transformer + HB (heater break)

 Current Transformer + HB (heater break) + flat wiring system

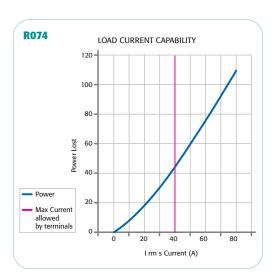
							-										
	1	2	3	4	5	6		7	8	9	10	-11	12	13	14	15	16
ORDERING CODE (Note 3)	s	s	R	-	-	_	-	-	-	_	_	-	_	-	-	_	_
CURRENT				4 5	6		CONT	ROL MOD	E							11	
description				code	not	e	descri	otion								ode	note
62A					2 1		Open	Loop								0	
74A					4 1												
90A				0 9	0 1			& OPTIO	N							12	
							descri								(ode	note
MAX VOLTAGE				7				Fuse Ho								F	
description				code	not	e		Fuse Ho								Υ	
480V				4				Fuse Ho								Н	2
600V				6			Fuse +	Fuse Ho	der + CT	+ HB + F	lat Cable	!				Х	2
VOLTAGE SUPPLY AUX				8				OLTAGE								13	
description				code	not	e	descri									code	note
Without HB no auxiliary voltage supply				0			No fan									0	
24V ac-dc with HB and Analog				4													
•							APPR									14	
INPUT				9			descri									ode	note
description				code	not	e	CE EM	C For Eur	opean Ma	arket						0	
SSR				S			MANU	AI								15	
0:10V Analog Input				V	2		descri									code	note
4:20 mA Analog Input				A	2		None	Juli								0	Hote
						_	Italian									1	
FIRING				10			English	1								2	
description				code	not	e	Germa									3	
Zero Crossing				Z			French									Δ	
Random (For connection with REVO PC)				R			TICHCI									7	
Burst firing 4 Cycles on at 50% Power Demand				4			VERSI	ON								16	
Burst firing 8 Cycles on at 50% Power Demand	1			8			descri									ode	note
Burst firing 16 Cycles on at 50% Power Demand 6							Std ve									1	
Note (1) see page 9 for current sizing. Note (2) Option	n available or	nly with fuse	e + fuse ho	older.			High S	ensitivity	HB belov	N 5A						5	

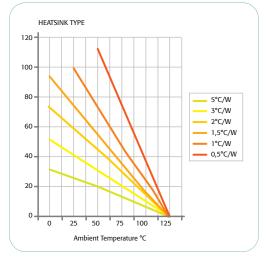
CURRENT SIZING FOR REVO SSR/SSR ANALOG



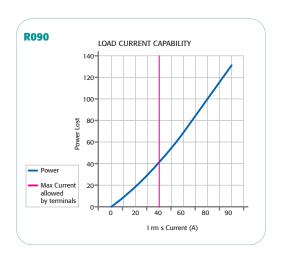


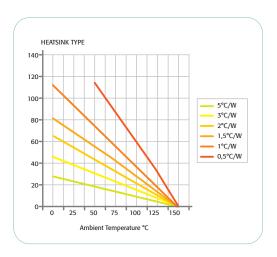
R062 MODULE Power Dissipation versus on state Current and ambient Temperature





RO74 MODULE Power Dissipation versus on state Current and ambient Temperature





R090 MODULE Power Dissipation versus on state Current and ambient Temperature

REVO SX





SIZE SR2 - 230V / 480V

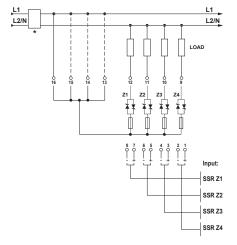
Specification

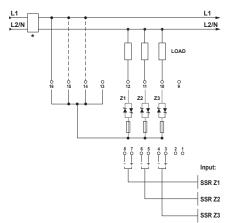
- Available in three versions as shown below
- Each unit includes Fuse and Fuse Holder, thyristor and heat sink with its own Firing circuit
- · Zero Crossing Firing
- Isolated input
- LED for On Off Status indication
- LED for fuse failure indication
- Plug in connection for auxiliary and power terminations
- Small dimensions Width: 36 Depth: 86 Height:121
- Din rail mounting or screw mounting
- Can be used in applications with many zones and low power as thermoforming, blow Moulding and Hot Runners

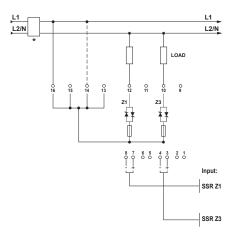
Diagram of control connection 4x3,5A

Diagram of control connection 3x4,5A

Diagram of control connection 2x7A







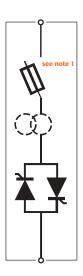
	1	2	3	4		5	6		7	8	9	10	11	12	13	14	15	16
ORDERING CODE	R	S	X	_		_	_	-	_	_	_	_	_	_	_	_	_	_
NUMBER OF ZONES X CURRENT RATING				4 5	6			FUSES	& OPTIO	ON							12	
description				cod		note		descrip									ode	note
4 zones 3,5A each				4 0				Fuse +	Fuse Hold	der							F	
3 zones 4,5A each				3 0 2 0	7													
2 zones 7A each	nes 7A each								DLTAGE							_	13	
							_	descrip								(ode	note
MAX VOLTAGE	AGE							No Fan	Voltage								0	
description																		
230V								APPRO								_	14	
480V				4		2		descrip								(ode	note
							_	CE EMO	For Euro	pean Mar	ket						0	
VOLTAGE SUPPLY AUX				8				_										
description				cod		note		MANU								_	15	
No Auxiliary Voltage with 230V				0				descrip	tion							(ode	note
							_	None									0	
INPUT				9				Italian									1	
description				cod	e	note		English		2								
SSR				S				Germa									3	
								French									4	1
FIRING		10 cod		note		WEDGE	ON								16			
description								VERSI								_	16	
Zero Crossing				Z			_	descrip Version									ode	note
Random (used with REVO-PC)				R				version	1 1								1	

description
Open Loop

REVO S 1PH







Technical Specification

Voltage Supplies

- Dimensions: See size and dimensions on page 7
- Load type: Normal resistance, infrared long and medium waveform
- Inputs: SSR Standard, 0:10V, 4:20mA and Heater Break alarm are options
- Firing mode: Zero Crossing, Burst Firing available with analogue input only
- Operating temperature: 0 to 40°C without derating
- Comply with EMC, cUL us® 508 listed and cUL® listed up to 700A as an option
- 100 KA: Short Circuit Current rating (SCCR) up to 600V, 700A (see Tab. page 6)
- Data sheet: More details on "Revo S 1PH" Manual

Option

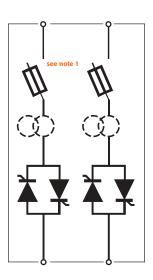
- Analog input: 4/20 mA or 0/10V
- Heater Break Alarm + Current Transformer
- Current Transformer mounted inside

		1	2	3		4		5	6		7	8	9	10	11	12	13	14	15	10
ORDERING CO	DE	R	S	1		_		_	_	-	_	_	_	_	_	_	_	_	_	-
URRENT					4	5	6			FIRING	;								10	
escription					(code		note		descrip	tion							С	ode	not
0A					0	3	0			Zero Cr									Z	
5A					0	3												4	2	
OA .										Burst F	iring 8 Cyc	cles On at	50% Pov	ver Dema	nd				8	2
OA														wer Dem	and				6	2
OA .										Randor	n Firing (ι	ised with	REVO-PC	()					R	7
20A					1	_	0													
50A					1	-	0				OL MOD	E							11	
80A					2	-	0			descrip									ode	not
10A							0			Open L	oop								0	
00A					3	-	0	8		FIISES	& OPTIO	N							12	
00A					4	-	0		_	≤ 40A	a or no								ode	not
00A					5		0				e for all U	nits < 40/	4						0	1101
00A					6	_	0				Fuse Holo		•						F	
00A					7		0				Fuse Holo								Y	
00A					8	0	0	5		Fuse +		H								
MAX VOLTAGE						7								Flat Cable	Connect	ion			X	5.
lescription					-	code		note		>40A										
180V					,	4		Hote		Fixed F	uses Std f	or all Unit	s > 40A						F	- 1
500V					6 Fixed Fuses Std + CT + HB											Н				
90V						7		4. 5												
								., -			DLTAGE							_	13	
AUX VOLTAGE SUPPLY						8				descrip									ode	not
210A					(code		note		No Fan									0	
No Aux Voltage needed if HB optio						0		9			Vac ≥ 90								1	
Aux Volt 24V ac-dc needed with HE	option and/or An	alog Input	option se	lected		4		9			0Vac ≥ 90	A Std Vers	sion						2	
> 210A										Fan 24\	/dc ≥ 90A								3	
Main Supply Voltage	Aux Voltag									APPRO	NALS								14	
00/120Vac	90 to 135V					1		3		descrip									ode	not
.00/208/230/240Vac	180 to 265\					2		3			For Euro	nean Mar	kat						0	1101
77Vac	238 to 330					3	_	3			+ cUL® I			18® listad					L	
880/415/480Vac	342 to 528\					5		3		CL LIVIC	, I COL I	isteu anu	COLU3 JO	o listeu						
i00Vac	540 to 759					6		3	_	MANU	AL								15	
590Vac	540 to 759	V Vac				7		3		descrip	tion							С	ode	not
NPUT						9				None									0	
escription								note		Italian									1	
SR	uon							HOLE		English									2	
:10V dc	r					S V	\dashv		-	Germai	1								3	
:20mA						A	\dashv			French									4	
ote (1) Fixed Fuses over 40A	Note (2) A:	lable opk…	ith Anal	innut						VERSI	DN								16	
ite (1) Fixed Fuses over 40A ite (3) Load voltage must be include	Note (2) Avail				А					descrip	tion							С	ode	not
ote (4) Available on unit ≥60A	Note (5) This										t with one	fuse							1	
	Note (7) See						t avail				ensitivity I								5	

REVO S 2PH







Technical Specification

- **Dimensions:** See size and dimensions on page 7
- Load type: Normal resistance, infrared long and medium waveform
- Inputs: SSR Standard, 0:10V, 4:20mA and Heater Break alarm are options
- Firing mode: Zero Crossing, Burst Firing available with analogue input only
- Operating temperature: 0 to 40°C without derating
- Comply with EMC, cUL us® 508 listed and cUL® listed up to 700A as an option
- 100 KA: Short Circuit Current rating (SCCR) up to 600V, 700A

Note (1) Fixed Fuses over 40A
Note (2) Available with Analog input only
Note (3) Load voltage must be included in Selected Auxiliary Voltage Range for unit ≥ 210A
Note (4) Available on unit ≥60A
Note (5) This unit is available with CE only

• Data sheet: More details on "Revo S 2PH" Manual

Option

- Analog input: 4/20 mA or 0/10V
- Current Transformer mounted inside

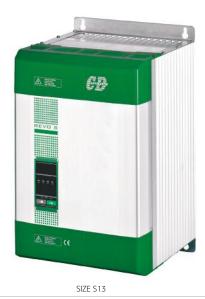
Note (6) Needs TU-RS2 Terminal units Note (7) 75A unit is available with cUL only Note (9) This option is not available with Max Voltage equal to 690V. In this case please use the other Auxiliary Voltage Supplies

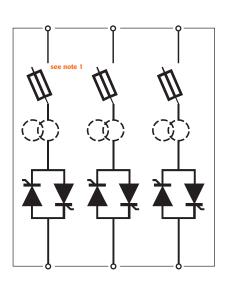
• Current Transformer + HB Alarm

		1	2	3		4	5	6		7	8	9	10	11	12	13	14	15	16
ORDERING CO	DDE	R	S	2		_	_	_	-	_	_	_	_	_	_	_	_	_	-
CURRENT					4	5	6		FIRIN	G								10	
lescription					C	ode	n	ote	descri	ption							С	ode	no
30A					0	3	0		Zero (rossing								Z	
35A				0	3	5		Burst	Firing 4 C	ycles On	at 50% P	ower Den	nand				4	2	
40A				0	4	0		Burst	Firing 8 C	ycles On	at 50% P	ower Den	nand				8	2	
60A					0	6	0		Burst	Firing 16	Cycles Or	at 50%	Power De	mand				6	2
75A					0	7	5	7											
90A								5		ROL MOI	DE							11	
120A					1	2	0		descri								С	ode	no
150A					1	5	0		Open	Loop								0	
180A							0		EHEE	& OPTIO	NM .							12	
210A									103E ≤ 40A		JN							ode	not
300A					3		0				Units ≤ 40	0.Δ						0	1101
400A					4		0				lder ≤ 40							F	
450A					4		0				lder + CT							Y	_
500A					5	0	0						th Termin	alc				H	_
500A					6	0	0						th Flat Cal		oction			X	5,
700A					7		0		> 40A		idei + Ci	+ ND WI	lii Fiat Cai	DIE COIIII	ection			۸	٥,
300A					8	0	0	5			for all Ur	nite > 40	,					F	1
MAX VOLTAGE						7					+ CT + F		`					H	
description					C	ode	n	ote		OLTAGE									
480V					4													13 code	
600V						6			descri	ption n < 60A							C	0 0	not
690V						7	4	, 5		n < 60A 5V ≥ 60A								1	
											Std Vers	:						2	
AUX VOLTAGE SUPPLY						8				Vdc ≥ 60 <i>F</i>		1011						3	-
≤ 210A					C	ode		ote	FdII Z	Vuc ≥ bur	1							3	
No Aux Voltage needed if HB opti						0		9	APPR	OVALS								14	
Aux Volt 24V ac-dc needed with H	B option and/or An	nalog Input	option se	lected		4		9	descri									ode	not
> 210A											opean M	arket						0	
Main Supply Voltage	Aux Voltag												508® liste	d				L	7
100/120Vac	90 to 135\					1		3											
200/208/230/240Vac	180 to 265					2		3	MAN									15	
277Vac	238 to 330					3		3	descri	ption							C	ode	not
380/415/480Vac	342 to 528					5		3	None									0	
600Vac								3	Italiar									1	
590Vac	c 540 to 759V Vac					7		3	Englis									2	
NPUT	•					9			Germ									3	
description						ode	D.	ote	Frenc	1								4	
SSR	рион					S	- 110	Jie		O									
0:10V dc						V			VERS									16 code	
								_	descri								C	ode	not
4:20mA						Α			Std ve									1	

REVO S 3PH







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Technical Specification

- Dimensions: See size and dimensions on page 7
- Load type: Normal resistance, infrared long and medium waveform
- Inputs: SSR Standard, 0:10V, 4:20mA and Heater Break alarm are options
- Firing mode: Zero Crossing, Burst Firing available with analogue input only
- Operating temperature: 0 to 40°C without derating
- Comply with EMC, cUL us® 508 listed and cUL® listed up to 500A as an option

Note (2) Available with Analog input only

Note (3) Load Voltage must be included in selected Auxiliary Voltage Range for unit > 210A

Note (4) Available on unit ≥60A

Note (5) This unit is available with CE only

Note (1) Fixed Fuses over 40A

- 100 KA: Short Circuit Current rating (SCCR) up to 600V, 500A
- Data sheet: More details on "Revo S 3PH" Manual

Option

High Sensitivity HB below 5A

Note (6) Needs TU-RS2 Terminal units Note (7) 75A unit is available with cUL only Note (9) This option is not available with Max Voltage equal to 690V. In this case please use the other Auxiliary Voltage Supplies

- Analog input: 4/20 mA or 0/10V
- Current Transformer mounted inside
- Current Transformer + HB Alarm

		1	2	3		4		5	6		7	8	9	10	- 11	12	13	14	
ORDERING CO	DE	R	S	3		_		_	_	-	_	_	_	_	_	_	_	_	
CURRENT					4	5	6			FIRING									
description					С	ode		note		descrip	tion								.(
30A					0	3	0			Zero Cı									
35A					0	3	5					ycles On a	at 50% P	ower Der	nand				
40A					0	4	0					ycles On							
60A					0	6	0					Cycles On							
75A					0	7	5	7				•							
90A					0	9	0	5			OL MOD	E							ľ
120A					1	2	0			descrip									C
150A					1	5	0			Open L	.оор								
180A					1	8	0												_
210A						1	0				& OPTIC	N							ľ
300A										≤ 40A								C	C
350A												Jnits ≤ 40							
400A				3	5	0		-			lder ≤ 40								
450A				4	5	0		-			lder + CT								
500A				5	0	0		-			lder + CT								
800A					8	0	0	5	-	Fuse +	Fuse Ho	lder + CT	+ HB wit	th Flat Ca	ble Conn	ection			
800A					8	U	U	5		>40A									
MAX VOLTAGE						7				Fixed F	uses Std	for all Ur	its > 40 <i>P</i>	١					
description					C	ode		note		Fixed F	uses Std	+ CT + H	В						
480V						4													
600V						6					DLTAGE								
690V						7		4, 5		descrip								C	C
0304								-1, 5		No Fan									
AUX VOLTAGE SUPPLY						8					5Vac ≥ 60								
≤ 210A					С	ode		note				OA Std Ve	rsion						
No Aux Voltage needed if HB option	n and/or Analog I	nput option	n NOT sele	ected		0		9		Fan 24\	/dc ≥ 60A	ı							
Aux Volt 24V ac-dc needed with H						4		9											_
> 210A										APPRO									
Main Supply Voltage	Aux Voltag	ge Range								descrip								((
100/120Vac	90 to 135					1		3				opean Ma							_
200/208/230/240Vac	180 to 26					2		3		CE EMO	C + cUL®	listed an	d cULus 5	508® liste	:d				
277Vac	238 to 33					3		3											
380/415/480Vac						5		3		MANU									
600Vac								3		descrip	tion							- 0	(
690Vac								3	-	None									_
OSOVAC	7dC 540 to 7590 vac							J		Italian									_
INPUT	UT									English									_
description								note		Germa									_
SSR	nption .									French									
0:10V dc	l dc								1	VEDO	- N								
4:20mA									-	VERSIO									j
7.2011/4						Α			_	descrip								C	(
										Std Ver	sion								

13



REVO IS A SYSTEM NOT JUST A PRODUCT

REVO'S INNOVATIVE DESIGN AIDS SYSTEM INTEGRATION WITH THE FOLLOWING AUXILIARY UNITS:

COPPER BAR

REVO can be mounted on copper bars as shown in the image with Length 12:30 mm and thickness 5:10 mm Lateral Support for 3 copper bars **Code:** SC3-30 Lateral Support for 4 copper bars **Code:** SC4-30





BASE PLATE

Different type of base plate are available The Base Plate have 3 Off Screw terminals 16 mm2

W 54 x L 200 **Code:** BP-54-200 W 72 x L 200 **Code:** BP-72-200 W 54 x L 260 **Code:** BP-54-260



CABINET

The image shows a cabinet under construction with copper bars mounted on the back panel. This system is designed for optimal high short circuit current and the 100KA SCCR of the REVO S family.

Using copper bars in this way, it is not necessary to wire power cables from automatic circuit breakers to each thyristor unit but just to the power terminals of each bus bar. The plug-in base plates and therefore the complete zone, can easily be replaced should a fault occur.



CABINET

The image shows a finished cabinet with 60 temperature control zones. Mounting with the copper bus bar system results in a clean and professional cabinet.





BASE PLATE + ADAPTOR

Various adapters are available from CD Automation that can be mounted on the original base plate. Shown is the adapter for the REVO 3PH thyristor unit. Code: AD-{add the REVO model code} i.e. AD-RS3040



ADAPTER

This is an adaptor for REVO up to 210 A in different configurations such as 1, 2 or 3 phase control.



COPPER COMB 3PH

This is a copper comb for three phase connections.

This product is sold in lenghts of one meter.

For IP20 protection a plastic cover is supplied as standard with the copper comb.

Pitch: 36 Central connection:130A Side connection:80A

Code: Comb-3PH-36



COPPER COMB 1PH

Copper comb designed for multiple connections of REVO 1PH or REVO SSR. Product sold in lengths of one meter.

IP20 available with plastic protection supplied as standard with copper comb.

Pitch: 36 Central connection:130A Side connection:80A

Code: Comb 1PH-36



SCREW TERMINAL

This is a screw terminal that can be mounted in each position of the copper comb above.

Code: ST16



PACKAGE

The example shows a package of 9 units. One or more screw terminals can be allocated as required.

From this terminal a traditional cable will be connected to circuit breaker directly.





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