

- Voltage Supply 480-600-690V
- Internal Fuse on product range 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





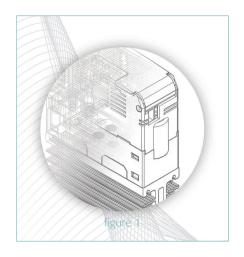
We are delivering Real Cost Benefits





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. SSR Input and ZC Firing.

CD predicted life with

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 heatsink
- 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

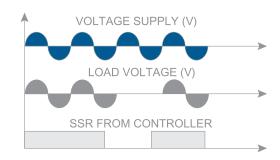
- Includes all key components of a typical temperature control zone
- · Wiring & mounting accessories included
- Designed as a total block of automation

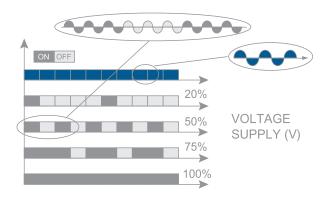


GLOSSARY

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

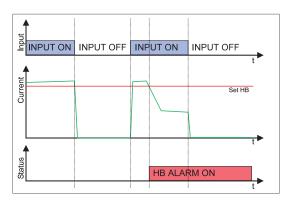
This firing is performed within the thyristor unit at zero volts, producing no EMC interference.

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	S 2PH	REVO	S 3PH
	CODE	SSR	RS	51	RS	2	RS	3
	Max voltage 480V	•		•	•		•	
MAIN VOLT.	Max voltage 600V	•	•		•		•	
MAI	Max voltage 690V		• ≥	60A	• ≥6	50A	• ≥6	50A
	Single phase	•	•					
Τ¥Ε	3 phase load star no neutral or delta				•	1	•	1
LOAD TYPE	3 phase load star with neutral						•	
_	3 phase load open delta						•	1
	SSR 4:30VDC	•	•		•	1	•	
INPUT	4:20 mA	0	()	С)	C	
Σ	0:10 Vdc	0	()	С)	C)
	Digital Potentiometer	0	C)	C)	С	
FIRING	Zero crossing	•			•		•	
<u></u>	Burst firing 4-8-16	0 (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 ≤4	40A	0 ≤	40A
	REVO PC (3)	0	()				
	CURRENT	SIZE	SI	ZE	SIZ	ZE .	SIZ	ΣE
	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	SR17	S11
_	120		SR15	S11	SR16	S13	SR17	S13
CURRENT	150		SR15	S11	SR16	S13	SR17	S13
S.	180		SR15	S11	SR16	S13	SR17	S13
	210		SR15	S11	SR16	S13	SR17	S13
	300		S12	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

Option CE standard + cUL® as an option CE Only

^{(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



SR0 H 97 x W 36 x D 32 - 0,12kg.



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



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



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



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



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



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



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



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



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 137x D 270 - 10,5kg.



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



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



\$15 H 560 x W 137x D 270 - 10,5kg.



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



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

REVO SSR





Technical Specification

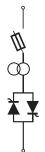
- Dimensions: SRO, SR1, (see page 7)
- Load type: Normal resistance, infrared long and medium waveform
- Firing mode: Zero Crossing
- Operating temperature: See graph on right page
 Comply with EMC CE and N as an option
- Operating current: see the graph on the right page. This unit needs an heatsink,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

SIZE SRO				(71
	1	1	1		

							_										
	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	5		FUSES	& OPTIO	N							12	
description				code	not	e	descri	otion								ode	note
62A				0 6 2			No Fus	e								0	
74A				0 7 4													
90A				0 9 0)			OLTAGE								13	
							descri									ode	note
MAX VOLTAGE				7			No fan									0	
description				code	not	e	APPR	OVALC								1.4	
480V 600V				<u>4</u> 6		_	descri									14 code	
6007				ь				C For Euro	noan Mar	kot						0	note
VOLTAGE SUPPLY AUX				8			94 lis		pean man	KCL						ı	
description				code	not		744 IIS	leu									
No auxiliary voltage supply				0	1100		MANU	AL								15	
To daminary voltage suppry					_		descri									ode	note
INPUT				9			None									0	
description				code	not	e	Italian									1	
SSR				S			English	l								2	
							Germa									3	
FIRING				10			French									4	
description				code	not	e											
Zero Crossing Z				Z		_	VERSI									16	
Random (For connection with REVO PC)				R			descri	otion								ode	note
CONTROL MORE							Std ver	sion								1	
CONTROL MODE				- 11													
description				code	not	e	More det	ails on "Re	vo SSR" Ma	anual							
Open Loop				0													

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

 Operating temperature: See the graph on the right page

 Comply with EMC CE and
 Sta san option

 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

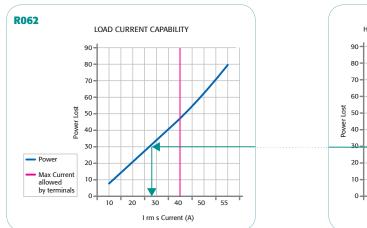
- $\ensuremath{\mathsf{All}}^{^{\mathbf{a}}}\xspace$ options below are available with fuse + fuse holder only
- Current Transformer

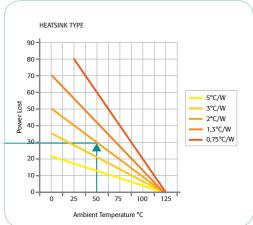
High Sensitivity HB below 5A

⊥ HB (haatar hraak)

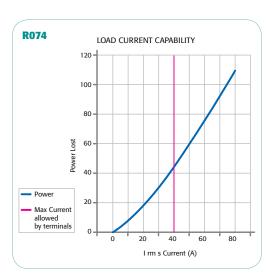
SIZE SR1			ļ			R	ľ					eater bro eater bro		at wiring	g system	I		
	1	2	3	4	5	6			7	8	9	10	11	12	13	14	15	16
ORDERING CODE (Note 3)	S	S	R	_	_	_		-	_	_	_	_	_	_	_	_	_	_
CURRENT			4	1 5 6				CONT	OL MOD	E							11	
description				code	not	e		descrip	otion							С	ode	note
62A) 6 2				Open i	_оор								0	
74A) 7 4														
90A			(9 ()				& OPTIC	N							12	
MAX VOLTAGE								descri								C	ode	note
description				code	not	0		Fuse +	Fuse Hole	der i CT							V	
480V				4	1101	e				der + CT +	L HR						H	2
600V				6						der + CT +		t Cable					X	2.4
								r asc i	1 450 1101			it cubic						-, .
VOLTAGE SUPPLY AUX				8					OLTAGE								13	
description				code	not	e		descri	otion							С	ode	note
Without HB no auxiliary voltage supply				0				No fan									0	
12:24V ac-dc				4				APPRO	WALC								1.4	
INPUT				9				descri									14 ode	note
description				code	not	0				pean Mai	rkat						0	Hote
SSR				Code	1100	е		SN list		pcan iviai	KCI						Ī	
0:10V Analog Input				V	2			7 H 113	cu									
4:20 mA Analog Input				Å	2			MANU	AL								15	
Random (For connection with REVO PC)				R				descrip	otion							С	ode	note
,								None									0	
FIRING				10				Italian									1	
description				code	not	e		English									2	
Zero Crossing				Z				Germa	n								3	
Burst firing 4 Cycles on at 50% Power Demand				4				French									4	
Burst firing 8 Cycles on at 50% Power Demand Burst firing 16 Cycles on at 50% Power Demand				- 8 - 6				VERSI	ON								16	
burst lifting to cycles on at 50% Power Demand				ď				descri									ode	note
Note (2) Option available only with fuse + fuse holder No	6- (7) All al	D A			. 6			Std ver	cion								1	Hote

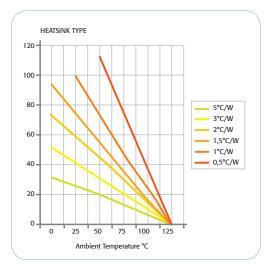
CURRENT SIZING FOR REVO SSR/SSR ANALOG



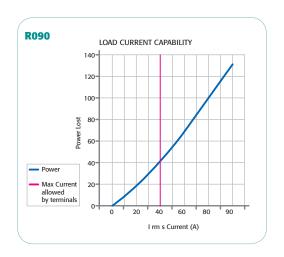


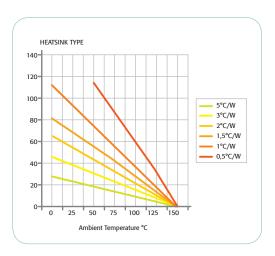
RO62 MODULE Power Dissipation versus on state Current and ambient Temperature





R074 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

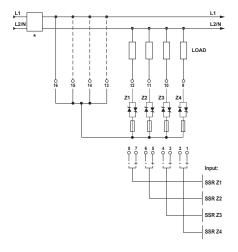
Specification

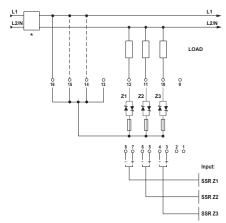
- Available in three versions as shown below
- Each unit includes Fuse and Fuse Holder, thyristor and heat sink with its own Firing circuit
- Zero Crossing Firing
- Isolated input
- LED for On Off Status indication
- LED for fuse failure indication
- Plug in connection for auxiliary and power terminations
- 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

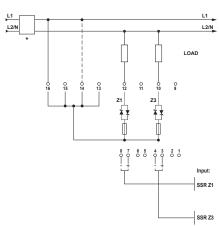
Diagram of control connection 4x3,5A

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	1 5	6			FUSES	& OPTIO	N							12	
description				code		note		descrip	otion							C	ode	note
4 zones 3,5A each				1 0	3			Fuse +	Fuse Hold	ler							F	
3 zones 4,5A each				3 0	4											_		
2 zones 7A each			2	2 0	7				DLTAGE							_	13	
							_	descrip								C	ode	note
MAX VOLTAGE				7				No Fan	Voltage								0	
description				code		note												
230V				2			_	APPRO									14	
480V				4		2		descrip									ode	note
							_	CE EMO	For Euro	pean Mar	ket						0	
VOLTAGE SUPPLY AUX				8														
description				code		note		MANU								_	15	
No Auxiliary Voltage with 230V				0				descrip	otion								ode	note
INPUT								None									0	
				9				Italian									1	
description				code		note		English									2	
SSR				S				Germa									3	
FIRING				10				French									4	
				code		maka		VERSI	ON								16	
description Zero Crossing				Z		note		descrip									ode	note
Random (used with REVO-PC)				R			-	Version									oue	1101

Note (1) This option is available only on 480V version

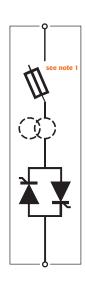
Note (2) The 480V version have dimension W=48 H=121 D=86

Open Loop

REVO S 1PH







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
- Data sheet: More details on "Revo S 1PH" Manual

Option

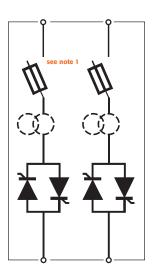
- Analog input: 4/20 mA or 0/10V
- Heater Break Alarm + Current Transformer
- Current Transformer mounted inside

		1	2	3		4	5		6		7	8	9	10	11	12	13	14	15	16
ORDERING COD	E	R	S	1		_	_		_	-	_	_	_	_	_	_	_	_	_	-
URRENT					4	5	6			FIRING									10	
lescription						code		note		descrip	tion							С	ode	not
50A					0	3	0			Zero Cr									Z	
35A					0	3	5			Burst Fi	ring 4 Cy	cles On a	t 50% Po	wer Dema	nd				4	2
IOA					0	4	0			Burst Fi	ring 8 Cy	cles On a	t 50% Pov	wer Dema	nd				8	2
50A					0	6				Burst Fi		6	2							
90A					0	9	0			Randor	n Firing	used wit	th REVO-	PC)					R	4, 8
120A					1	2	0					-								
150A					1		0			CONTR	OL MOD	E							11	
180A					1		0			descrip	tion							С	ode	not
210A					2	1	0			Open L	.оор								0	
300A					3	0	0													
400A					4	0				FUSES	& OPTIC	N							12	
500A					5	0				≤ 40A									ode	note
500A					6	0				No Fuse	e for all U	$nits \le 40$	A						0	
700A					7		0				Fuse Hole								F	
300A					8	0	0	6			Fuse Hole								Υ	
									_			der + CT -							Н	
MAX VOLTAGE						7					Fuse Hole	der + CT -	+ HB with	Flat Cable	Connecti	on			X	6, 7
description					- (code		note		>40A										
480V						4						or all Uni	ts > 40A						F	1
500V						6			4		uses Std -								Υ	
690V						7	4	, 5, 6		Fixed F	uses Std -	+ CT + HE	3						Н	
VOLTAGE SUPPLY AUX						8					DLTAGE								13	
≤ 210A					- (code		note		descrip								С	ode	note
No Aux Voltage without HB and/o						0				No Fan									0	
Nith HB and/or Analog Input on a	III unit $\leq 210A A$	Aux Volt	12:24V ac	-dc		4					$V \ge 90A$								1	
> 210A									_	Fan 22	$0V \ge 90A$	Std Vers	ion						2	
Main Supply Voltage	Aux Voltage								_											
100/120Vac	90 to 135V					_1_		3	4	APPRO	_							_	14	
200/208/230/240Vac	180 to 265\					2		3	-	descrip								С	ode	note
277Vac	238 to 330					3		3	-	CE EMC	For Euro	pean Ma	rket						0	_
380/415/480Vac	342 to 528					5		3	4	CE EMC	+ cUL®	listed an	d cULus 5	508® liste	d				L	
500Vac	540 to 759					6		3	_											
690Vac	540 to 759	V Vac				7		3		MANU									15	
NIDUT						_				descrip	tion							C	ode	note
NPUT						9				None									0	
description					(code		note		Italian									1	
SSR						S			-	English									2	-
0:10V dc						V			-	German	1								3	-
1:20mA						Α			_	French									4	
ote (1) Fixed Fuses over 40A	Note (2)									VERSIO	ON _								16	
ote (3) Load voltage must be included i	n Selected Auxiliar	y Voltage I	Range for u	nits >210	ΙA					descrip	tion								ode	note
ote (4) With 690V the firing is random			9.11	vith CE or	ah.							e fuse on	v						1	
ote (5) Available on unit ≥60A										High Se										

REVO S 2PH







SIZE S14

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, cULus*508 listed and cUL* listed up to 700A as an option

- 100 KA: Short Circuit Current rating (SCCR) up to 600V
- Data sheet: More details on "Revo S 2PH" Manual

Option

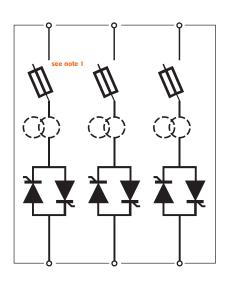
- Analog input: 4/20 mA or 0/10V
- Current Transformer mounted inside
- Current Transformer + HB Alarm

		1	2	3	4	4	5	6		7	8	9	10	11	12	13	14	15	16
ORDERING CO	DE	R	S	2		_	_	_	-	_	_	_	_	_	_	_	_	_	_
URRENT					4 5	5 6			FIRING	;								10	
description					со	de	note		descrip	otion							C	ode	not
30A					0 3	3 0			Zero Cr	ossing								Z	
35A					0 3	3 5			Burst F	iring 4 Cv	cles On at	50% Pov	ver Dema	nd				4	2
40A						4 0							ver Dema					8	2
60A						5 0							wer Dem					6	2
75A						7 5					,								
90A						9 0			CONTR	OL MOD	E							11	
120A						2 0			descrip	ntion								ode	not
150A						5 0			Open I									0	1100
180A						3 0			Openie	оор									
210A						1 0			FIISES	& OPTIO	N							12	
300A						0 0			≤ 40A	20110								ode	not
400A						0 0				e for all U	nite < 10	Δ						0000	1101
450A						5 0				Fuse Hold								F	
						0 0				Fuse Hold								Y	
500A								_					Tamada ala						
600A						0 0		_					Terminals					Н	
700A						0 0		_		Fuse Hold	1er + C1 +	- HB with	Flat Cable	Connect	ion			X	5, 6
800A					8 (0 0	5		>40A	C. I.								-	_
MAY VOLTAGE										uses Std f		is > 40A						F	1
MAX VOLTAGE						7				uses Std +								Υ	
description						de	note		Fixed F	uses Std +	- CI + HB							Н	
480V						4	_	_	EAN W	DITACE									
600V						5	-	_		DLTAGE								13	
690V					- 7	7	4, 5		descrip								C	ode	not
								_	No Fan									0	
VOLTAGE SUPPLY AUX						В				0V ≥ 60A								1	
≤ 210A						de	note	:	Fan 22	0V ≥ 60A	Std Vers	ion						2	
No Aux Voltage without HB and	l/or Analog Input u	up to 210	A includ	ed)		_											
With HB and/or Analog Input o	n all unit ≤ 210A A	ux Volt 1	2:24V ac	:-dc		4	_	_	APPRO								_	14	
> 210A								_	descrip								C	ode	not
Main Supply Voltage	Aux Voltage							_		For Euro								0	
100/120Vac	90 to 135V \					1	3		CE EMO	+ cUL®	listed and	d cULus 5	08 [®] liste	d				L	7
200/208/230/240Vac	180 to 265V					2	3												
277Vac	238 to 330V					3	3		MANU								_	15	
380/415/480Vac	342 to 528V					5	3		descrip	otion							C	ode	note
600Vac	540 to 759V					6	3		None									0	
690Vac	540 to 759V	/ Vac			7	7	3		Italian									1	
								_	English									2	
INPUT					ç	9			Germai	า								3	
description					со	de	note		French									4	
SSR					9	S													
0:10V dc					١	/			VERSI	DN								16	
4:20mA					F	4			descrip	otion							C	ode	not
-											ises + fus	es Holde	'≤40A					1	
ote (1) Fixed Fuses over 40A ote (3) Load voltage must be include				g input onl								es > 40A						2	
	ad in Soloctod Auviliani	/ Voltago D	zango tor i	unit > 2104	4				High Se									5	

REVO S 3PH







SIZE SR8

Technical Specification

Note (6) Needs TU-RS2 Terminal units

Note (7) 75A unit is available with cUL only

- 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, cULus® 508 listed and cUL® listed up to 500A as an option
- 100 KA: Short Circuit Current rating (SCCR) up to 600V
- Data sheet: More details on "Revo S 3PH" Manual

Option

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

		1	2	3	4	4	5	6		7	8	9	10	-11	12	13	14	15	10
ORDERING CO	DE	R	S	3	Ι.	_	_	_	-	_	_	_	_	_	_	_	_	_	-
CURRENT					4 5	6			FIRING									10	
description					со	de	note		descrip	otion							C	ode	not
30A					0 3	5 0			Zero Cr									Z	
35A						5 5					cles On a	50% Pov	ver Dema	nd				4	2
40A					0 4	1 0							ver Dema					8	2
60A					0 6	5 0							wer Dem					6	2
75A					0 7	7 5	7				•								
90A					0 9	0	5		CONTR	OL MOD	E							11	
120A						2 0			descrip	otion								ode	not
150A					1 5				Open I									0	
180A					1 8	3 0													
210A						0			FUSES	& OPTIO	N _							12	
300A					3 (≤ 40A									ode	no
350A					3 5					e for all U	nits ≤ 40.	A						0	
400A					4 (Fuse Hole								F	
450A						5 0				Fuse Hole								Υ	
500A					5 (Terminals					H	
BOOA					8 (Flat Cable		ion			X	5.
50071						, ,			>40A	. 450 1101			Tide Cabie						
MAX VOLTAGE					7	7				uses Std f	or all Uni	ts > 40A						F	1
description					CO	de	note		Fixed F	uses Std -	+ CT							Υ	
480V						1			Fixed F	uses Std -	+ CT + HE	;						Н	
600V					6	5													
690V					-		4. 5		FAN V	DLTAGE								13	
							., ., -		descrip	otion								ode	no
VOLTAGE SUPPLY AUX					8	3			No Fan									0	
≤ 210A					СО	de	note		Fan 110	0V ≥ 60A								1	
No Aux Voltage without HB and	or Analog Input	t up to 210	A includ	ed	()			Fan 22	0V ≥ 60A	Std Vers	ion						2	
With HB and/or Analog Input on						1													
> 210A									APPRO	VALS								14	
Main Supply Voltage	Aux Voltag	e Range							descrip	tion								ode	not
100/120Vac	90 to 135V				1		3			For Euro	pean Mai	ket						0	
200/208/230/240Vac	180 to 265				- 2		3						08® liste	d				Ĺ	7
277Vac	238 to 330				3		3					. ,		-					
380/415/480Vac	342 to 528				5		3		MANU	AL								15	
600Vac	540 to 759				6		3		descrip	otion								ode	not
690Vac	540 to 759				-		3		None									0	
	, 5 . 5 . 5 . 7 5 5	• • • •							Italian									1	
NPUT					9)			English									2	
description					CO		note		Germai									3	
SSR									French									4	
0:10V dc					Ì														-
4:20mA					ŀ				VERSI	DN _								16	
						•			descrip	_								ode	not
ote (1) Fixed Fuses over 40A	AL. 2	2) Available	50 A . 1						Std Ver									1	1100
	Note (2	Available:	with Analo	g innuit or	1IV					ensitivity								5	-



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 metre.

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 metre.

IP20 available with plastic protector 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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