

- 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



www.cdautomation.com Revo S Catalog 2021

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

ESTIMATED POWER CYCLES OF AL WIRE BONDED DIES

- 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).

	dT	Tj max ∖°C 100°C	110°C	120°C	130°C	140°C
Tj start \℃	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



COMPETITORS

CD predicted life working in Single Cycle.

CD predicted life with SSR Input and ZC Firing. Predicted life of majority

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

2008-0-2

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



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



Traditional

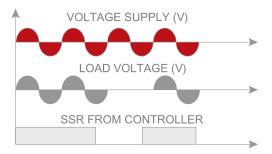
Innovative

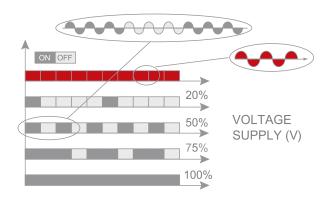


GLOSSARY

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.





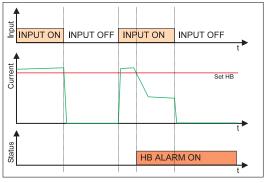
BURST FIRING BF

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.

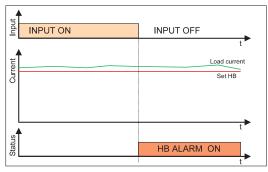
HEATER BREAK (H.B.)

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.





2008.24

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.

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.

FAST SERVICE

Excellent pre sales and after sales service including engineering support.

DIGITAL DOCUMENTATION ON CDAUTOMATION.COM

- Bulletins
- Manuals
- Applications
- Help desk



≤ 3

REVO S & SSR FEATURES AND DIMENSIONS

	DESCRIPTION	REVO SSR	REVO S	5 1PH	REVO S	5 2PH	REVO S	3PH
	CODE	SSR	RS	1	RS	2	RS3	5
ij	Max voltage 480V	•	•		•		•	
MAIN VOLT.	Max voltage 600V	•	•		•		•	
MAI	Max voltage 690V		•≥∈	60A	• ≥€	50A	•≥6	DA
	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	•	•		•		•	
5	4:20 mA	0	0		0	l.	0	
INPUT	0:10 Vdc	0	0	1	0		0	
	Digital Potentiometer	0	0		C	l.	0	
Ŋ	Zero crossing	•	•		•		•	
FIRING	Burst firing 4-8-16	O (1)	0 (1)	0 (1)	0 (1)
	Heater break + thyristor short circuit	0	0		0		0	
NO	Integrated fixed fuses		• >4	OA	• >4	юA	• >4	DA
OPTION	Fuse & fuse holder	0	0 ≤4	10A	0 ≤4	10A	0 ≤4	OA
	REVO PC (3)	0	0					
	CURRENT	SIZE	SIZ	E	SIZ	Έ.	SIZ	E
		480 to 600V	480 to 600V	690V	480 to 600V	690V	480 to 600V	690
	30	SR0.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
TNT	150		SR15	S11	SR16	S13	SR17	S13
CURRENT	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		

• Standard O Option CE standard + cUL® as an option CE Only CUL® 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.

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 • 690VAC units not covered by UL*



REVO S & SSR SIZE AND DIMENSIONS



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



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



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



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



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



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



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



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



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



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



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



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



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



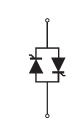
S13/S14 H 440/520 x W 262 x D 270 - 18/22 kg



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

REVO SSR





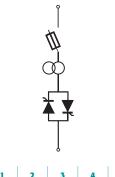
Technical Specification

- 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.

	1	2	3		4		5	6
ORDER CODE	s	s	R		_		_	_
CURRENT				4	5	6		
description				cc	de		note	
62A				0	6	2	1	
74A				0	7	4	1	
90A				0	9	0	1	
MAX VOLTAGE					7			
description				сс	de		note	
480V					4			
600V					6			
VOLTAGE SUPPLY AUX					8			
description				СС	ode		note	
No auxiliary voltage supply					0			
, , , , , , , , , , , , , , , , , , , ,								
INPUT					9			
description				cc	ode		note	
SSR					S			
FIRING					0			
description				cc	de		note	
Zero Crossing Z					Z			
Random (For connection with REVO PC)					R			
								_
CONTROL MODE					1			
description					de		note	
Open Loop					0			

REVO SSR/ANALOG





	1	2	3	4	5	6
ORDER CODE (Note 3)	s	S	R	-	-	_
CURRENT					6	
description				code	note	
62A					2 1	
74A					4 1	
90A				0 9 0	0 1	
MAX VOLTAGE				7		
description				code	note	2
480V				4		
600V				6		
VOLTAGE SUPPLY AUX				8		
description				code	note	e
Without HB no auxiliary voltage supply				0		
24V ac-dc with HB and Analog				4		
INPUT				9		
description				code	note	<u>.</u>
SSR				S		
0:10V Analog Input				V	2	
4:20 mA Analog Input				A	2	
FIRING				10		
description				code	note	
Zero Crossing				Z		
Random (For connection with REVO PC)				R		
Burst firing 4 Cycles on at 50% Power Demand				4		
Burst firing 8 Cycles on at 50% Power Demand				8		
Burst firing 16 Cycles on at 50% Power Demand				6		

Note (1) see page 9 for current sizing. Note (2) Option available only with fuse + fuse holder. Note (3) All the Revo Analog version have fuse + fuse holder. More details on "Revo SSR Analog" Manual

- This unit needs an heatsink, see the graph on the right page to size it Max terminals current allowed is 40A

	7	8	9	10	11	12	13	14	15	16
-	-	-	-	-	-	-	-	-	-	-
FUSES	& OPTIC	DN							12	
descrip								С	ode	note
No Fus									0	
	OLTAGE								13	
descrip								c	ode	note
No fan									0	
								_		
APPRO									14	
descrip								C	ode	note
CE EM	C For Eur	opean Ma	arket						0	
MANU									15	
									ode	note
descrip None	Juon							0	0000	note
Italian									1	
English									2	
Germa									3	
French									4	
enen									•	
VERSI	ON								16	
descrip								с	ode	note
Std ver									1	

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

.

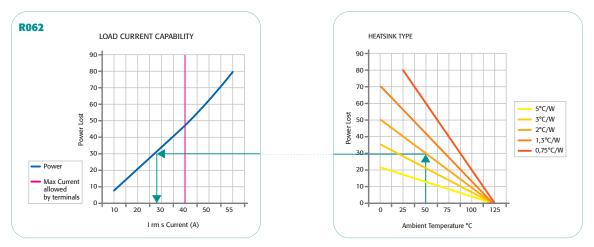
•

- All options below are available with fuse + fuse holder only

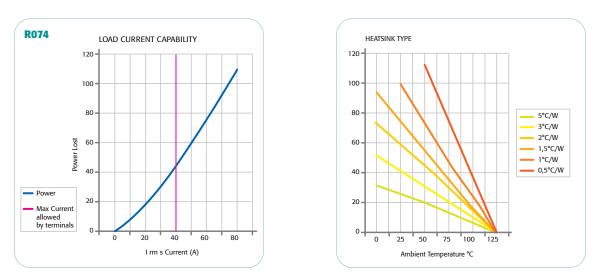
- Current Transformer
 Current Transformer + HB (heater break)
 Current Transformer + HB (heater break) + flat wiring system

	7	8	9	10	11	12	13	14	15	16
-	-	-	-	-	-	-	-	-	-	-
CONT	ROL MOD	E							11	
descrip								С	ode	note
Open l	Loop								0	
THEFE	& OPTIO	NI.							12	
descrip		N .							ode	note
Fuse +	Fuse Ho	lder						U	F	note
	Fuse Ho								Ŷ	
Fuse +	Fuse Ho	lder + CT	+ HB						H	2
Fuse +	Fuse Ho	lder + CT	+ HB + F	lat Cable					Х	2
	OLTAGE								13 ode	note
descrip No fan	otion							C	0 0	note
INO Idii									0	
APPR	DVALS								14	
descrip	otion							с	ode	note
CE EM	C For Eur	opean Ma	arket						0	
		-						_		
MANU descrip									15 ode	note
None	JUON								0000	note
Italian									1	
English									2	
Germa	n								3	
French									4	
VERSI									16	
descrip								C	ode	note
Std ver									1	
High S	ensitivity	HR Delov	N 5A						5	

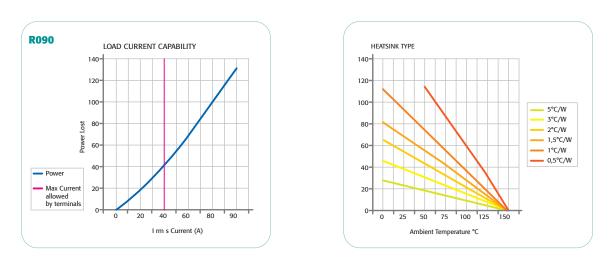
CURRENT SIZING FOR REVO SSR/SSR ANALOG



R062 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



480V





Size SR2-230V H 121 x W 36 x D 87 - 0,27 kg Size SR2-480V H 121 x W 48 x D 87 - 0,27 kg

Diagram of control connection examples

descr Open Loop

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 .

4x3,5A - 230V	3x	4,5	A - 23	SOV						2	x7A -	230V					
	L1		⊢•	• •					L1		<u>u</u>	•	•				L1 🕨
L2/N * L2/N L0AD L0AD L0AD L0AD L0AD L0AD L0AD L0AD L0AD L0AD	<u>,L2</u> /	<u>'N</u> *	0 16		0 13				L2/Ŋ	- ,	<u>L2/N</u> *	0 0 16 15		Z1			L2/N
8 7 6 5 4 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									Input: SSR Z1 SSR Z2 SSR Z3	!						2 1	Input: SSR Z1 SSR Z3
1 2	3		4	5		6		7	8	9	10	11	12	13	14	15	16
ORDER CODE R S	X						-										
									-		_	_			_	-	
NUMBER OF ZONES X CURRENT RATING description		4	56 code	not	0		descrip	& OPTI	ON						_	12 ode	note
4 zones 3,5A each		4	0 3		.e			Fuse Ho	lder							F	note
3 zones 4,5A each		3	0 4													•	
2 zones 7A each		2	0 7					OLTAGE								13	
							descrip								c	ode	note
MAX VOLTAGE			7				No Far	voltage								0	
description 230V			code 2	not	e		APPR	OVALS								14	
480V			4			-	descrip									ode	note
		1					CE EM	C For Eur	opean Ma	arket						0	
VOLTAGE SUPPLY AUX			8				MANU	141								15	
description			code	not	e		descrip									ode	note
No Auxiliary Voltage with 230V 24 Vdc with 480V			0			-	None									0	note
24 Vac with 480V			4				Italian									1	
INPUT			9				English	ı								2	
description			code	not	e		Germa	n								3	
SSR			S				French									4	
FIRING			10				VERSI	0N								16	
description			code	not	e		descrip									ode	note
Zero Crossing			Z	not			Version									1	note
Random (used with REVO-PC)		1	R														
		·															
CONTROL MODE			11														
description			code	not	e												

0

REVO SX



Size SR25 H 180 x W 116 x D 183 - 2,35 kg

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 L_2

 L_3

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Diagram of control connection examples

 L_1

 L_2

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Specification

- Available in different type with two or three independent channels
- Currents: 50, 60, 75 and 90A
- 480V or 600V Max Voltage
- Each unit includes two or three Integrated Fuses & thyristors with its own firing circuit, they share a heat sink
- Zero Crossing Firing
- Isolated input
- Screw mounting
- Can be used in applications with many zones in combination with REVO PC series to get power synchronization, communication, measurement and diagnostic

L

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	I	1	I	1					
ORDER CODE	1 R	2 S	3 X		4		5	6	
OKDER CODE	ĸ	3	^		-		-	-	
NUMBER OF ZONES X CURRENT RATIN	IG			4	-	6			CON
description				_	code		note	e	desc
2 zones 50A each				2	-	0			Oper
2 zones 60A each				2		0			
2 zones 75A each				2		5			FUS
2 zones 90A each				2	-	0			desc
3 zones 50A each				3		0			Integ
3 zones 60A each				3		0			FAN
3 zones 75A each				3		5			desc
3 zones 90A each				3	9	0			No F
MAX VOLTAGE					7				Stan
description					code		note	<u> </u>	
480V					4		nou	-	APP
600V					6	_		_	desc
					0				CE E
VOLTAGE SUPPLY AUX					8				MA
description					code		note	e	
No Auxiliary Voltage					0				desc
INPUT					9				Italia
					code		nat		Engli
description SSR					code S		note	5	Gern
אנכ					з				Fren
FIRING			_		10				Tren
description					code		note	e	VER
Zero Crossing					Z				desc
-									Versi

	7	8	9	10	11	12	13	14	15	16
-	-	-	-	_	-	_	-	_	-	-
CONT	ROL MO	DE							11	
descrip	otion							C	ode	note
Open L	_oop								0	
	& OPTI	ON							12	
descrip	otion							C	ode	note
Integra	ited fuse	s							F	
FANIN	OLTAGE								13	
descrip									ode	note
		(and DC)	(250)					0		note
		(only RSX c Fan (All				(250)			0 3	
Stallua	10. 2470	C Fall (All		exception	011 01 K 5/	(250)			3	
APPR	OVALS								14	
descrip	otion							C	ode	note
CE EM	C For Eur	opean Ma	arket						0	
MANU								_	15	
descrip	otion							C	ode	note
None									0	
Italian									1	
English									2	
Germa									3	
French									4	
VERSI	ON								16	
descrip									ode	note
Versior									1	
v CI 3101										

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, 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
ORDER CODE	F	R	S	1		_		_	_
CURRENT					4	5	6		
description						code		note	
30A					0	3	0		
35A					0	3	5		
40A					0	4	0		
60A					0	6	0		
90A					0	9	0		
120A					1	2	0		
150A					1	5	0		
180A					1	8	0		
210A					2	1	0		
300A					3	0	0	8	
400A					4	0	0		
500A					5	0	0		
600A					6	0	0		
700A					7	0	0		
800A					8	0	0	5	
MAX VOLTAGE						7			
description						code		note	
480V						4			
600V						6			
690V						7		4, 5	
AUX VOLTAGE SUPPLY						8			
< 210A						o code		note	
No Aux Voltage needed if HB option	and/or Analog Input o	ntion	مامع NOT	tod		0		9	
Aux Volt 24V ac-dc needed with HB						4		9	-
> 210A	option and/or Andlog II	input (721011301	cellu		7			-
Main Supply Voltage	Aux Voltage Ran	ige							-
100/120Vac	90 to 135V Vac	0				1		3	-
					-				_

100/120Vac	90 to 135V Vac	1	3
200/208/230/240Vac	180 to 265V Vac	2	3
277Vac	238 to 330V Vac	3	3
380/415/480Vac	342 to 528V Vac	5	3
600Vac	540 to 759V Vac	6	3
690Vac	540 to 759V Vac	7	3
INPUT		9	
description		code	note
SSR		S	
0:10V dc		V	
4:20mA		A	

 Note (1) Fixed Fuses over 40A
 Note (2) Available only with Analog input

 Note (3) Load voltage must be included in Selected Auxiliary Voltage Range for units >210A
 Note (4) Available on unit ≥60A

 Note (4) Available on unit ≥60A
 Note (5) This unit is available with CE only

 Note (9) Pois option is not available with Max Voltage equal to 690V. In this case please use the other Auxiliary

Voltage Supplies

	7	8	9	10	11	12	13	14	15	16
-	_	_	_	_	_	_	_	_	_	_
FIRING	G								10	
descrip	-								ode	note
Zero Cr								-	Z	note
	iring 4 Cyc	les On at	50% Pow	er Dema	nd				4	2
	iring 8 Cyc								8	2
	iring 16 Cy								6	2
	m Firing (u								R	7
CONTR	ROL MOD								11	
descrip	otion							с	ode	note
Open L	oop								0	
FUSES	& OPTIO	N							12	
\leq 40A								с	ode	note
No Fus	e for all Ur	nits $\leq 40A$	1						0	
Fuse +	Fuse Hold	er							F	
Fuse +	Fuse Hold	er + CT							Y	
Fuse +	Fuse Hold	er + CT +	HB						Н	
Fuse +	Fuse Hold	er + CT +	HB with	Flat Cable	Connect	ion			Х	5,6
>40A										
Fixed F	uses Std fo	or all Unit	s>40A						F	1
Fixed F	uses Std +	CT + HB							Н	
FAN V	OLTAGE								13	
descrip	otion							С	ode	note
No Fan	< 90A								0	
Fan 115	$5Vac \ge 90A$	1							1	
Fan 230	$0Vac \ge 90A$	A Std Vers	ion						2	
Fan 24\	$Vdc \ge 90A$								3	
APPRO	DVALS								14	
descrip	otion							с	ode	note
CE EMO	C For Europ	oean Marl	ket						0	
CE EMO	C + cUL® li	sted and	cULus 50	8® listed					L	
MANU									15	
descrip								c	ode	note
									0	
None									1	
None Italian									2	
	1								3	
Italian									3	
Italian English	n								3 4	
Italian English Germa	n									
Italian English German French VERSI	n ON								4	note
Italian English German French VERSIC descrip	n ON	fuse							4 16	note

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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
- 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		5	6
ORDER CODE	R	S	2		_		_	_
CURRENT				4	5	6		
description					code		note	
30A				0	3	0		
35A				0	3	5		
40A				0	4	0		
60A				0	6	0		
75A				0	7	5	7	
90A				0	9	0	5	
120A				1	2	0		
150A				1	5	0		
180A				1	8	0		
210A				2	1	0		
300A				3	0	0		
400A				4	0	0		
450A				4	5	0		
500A				5	0	0		
600A				6	0	0		
700A				7	0	0		
800A				8	0	0	5	
MAX VOLTAGE					7			

description		code	note
480V		4	
600V		6	
690V		7	4, 5
AUX VOLTAGE SUPPLY		8	
≤ 210A		code	note
No Aux Voltage needed if HB option ar	d/or Analog Input option NOT selected	0	9
Aux Volt 24V ac-dc needed with HB op	tion and/or Analog Input option selected	4	9
> 210A			
Main Supply Voltage	Aux Voltage Range		
100/120Vac	90 to 135V Vac	1	3
200/208/230/240Vac	180 to 265V Vac	2	3
277Vac	238 to 330V Vac	3	3
380/415/480Vac	342 to 528V Vac	5	3
600Vac	540 to 759V Vac	6	3
690Vac	540 to 759V Vac	7	3
INPUT		9	
description		code	note
SSR		S	
0:10V dc		V	
4:20mA		A	

	7	8	9	10	11	12	13	14	15	16
-	-	_	-	_	_	-	_	_	_	-
FIRING	6								10	
descrip	-							C	ode	note
	rossing								Z	
	iring 4 Cy	cles On a	at 50% Pc	wer Den	nand				4	2
	iring 8 Cy								8	2
	iring 16 C								6	2
	ROL MOD	E							11	
descrip	otion							c	ode	note
Open L	Loop								0	
FUSES	& OPTIO	N							12	
≤ 40A								0	ode	note
No Fus	e for all U	Inits ≤ 40	A						0	
Fuse +	Fuse Hol	der≦40A	ł						F	
Fuse +	Fuse Hol	der + CT	≤40A						Y	
Fuse +	Fuse Hol	der + CT	+ HB wit	h Termina	als				Н	
Fuse +	Fuse Hol	der + CT	+ HB wit	h Flat Cal	ole Conn	ection			Х	5, 6
>40A										
Fixed F	uses Std	for all Un	its > 40A						F	1
Fixed F	uses Std	+ CT + H	В						H	
FAN V	OLTAGE								13	
descrip	otion							C	ode	note
No Fan	n < 60A								0	
Fan 115	5V ≥ 60A								1	
Fan 23	0V ≥ 60A	Std Versi	on						2	
Fan 24\	$Vdc \ge 60A$								3	
APPRO	OVALS								14	
descrip	otion							0	ode	note
	C For Euro	pean Ma	ırket						0	
	C + cUL®			08® liste	1				L	7
									15	
MANU	AL								ode	note
MANU. descrip										
									0	
descrip	otion								0 1	
descrip None	otion									
descrip None Italian	otion								1	
descrip None Italian English	n n n								1 2	
descrip None Italian English Germa	n n								1 2 3	
descrip None Italian English Germa French	n n ON								1 2 3 4	note
descrip None Italian English Germa French	n n ON Dtion								1 2 3 4	note

 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 ≥ 10A
 Note (5) This unit is available with CE only
 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

REVO S 3PH



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

Option

7

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

9

8

10

11

	1	2	3	4		5	6
ORDER CODE	R	S	3	_		_	_
CURRENT			4	l 5	6		
description				code		note	e
30A			() 3	0		
35A			() 3	5		
40A			() 4	0		
60A			() 6	0		
75A			() 7	5	7	
90A			() 9	0	5	
120A			1	2	0		
150A			1	5	0		
180A			1	8	0		
210A			2	2 1	0		
300A			3	5 0	0		
350A			3	5 5	0		
400A			4	l 0	0		
450A			4	l 5	0		
500A			5	5 0	0		
800A			8	3 0	0	5	

MAX VOLTAGE	7	
description	code	note
480V	4	
600V	6	
690V	7	4, 5

AUX VOLTAGE SUPPLY		8	
≤ 210A		code	note
No Aux Voltage needed if HB option and/or Analog Input option NOT selected		0	9
Aux Volt 24V ac-dc needed with HB option and/or Analog Input option selected		4	9
>210A			
Main Supply Voltage	Aux Voltage Range		
100/120Vac	90 to 135V Vac	1	3
200/208/230/240Vac	180 to 265V Vac	2	3
277Vac	238 to 330V Vac	3	3
380/415/480Vac	342 to 528V Vac	5	3
600Vac	540 to 759V Vac	6	3
690Vac	540 to 759V Vac	7	3
INPUT		9	

description	code	note
SSR	S	
0:10V dc	V	
4:20mA	A	

 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 (2) Available with Analog input only

FIRING	10	
description	code	note
Zero Crossing	Z	
Burst Firing 4 Cycles On at 50% Power Demand	4	2
Burst Firing 8 Cycles On at 50% Power Demand	8	2
Burst Firing 16 Cycles On at 50% Power Demand	6	2
CONTROL MODE	11	
description	code	note
Open Loop	0	
FUSES & OPTION	12	
≤40A	code	note
No Fuse for all Units $\leq 40A$	0	note
Fuse + Fuse Holder \leq 40A	F	
Fuse + Fuse Holder + CT \leq 40A	Y	
Fuse + Fuse Holder + CT + HB with Terminals	H	
Fuse + Fuse Holder + CT + HB with Flat Cable Connection	X	5,6
>40A		
Fixed Fuses Std for all Units > 40A	F	1
Fixed Fuses Std + CT + HB	Н	
FAN VOLTAGE	13	
description	code	note
No Fan < 60A	0	
Fan 115Vac ≥ 60A	1	
Fan 230Vac ≥ 60A Std Version	2	
Fan 24Vdc ≥ 60A	3	
APPROVALS	14	
description	code	note
CE EMC For European Market	0	
CE EMC + cUL [®] listed and cULus 508 [®] listed	L	7
MANUAL		
	15 code	
description None		note
Italian	0	
	2	
English German	2	
French	4	
	4	
VERSION	16	
description	code	note
Std Version	1	
High Sensitivity HB below 5A	5	

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13

14 15

16

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

Note (1) Fixed Fuses over 40A

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 mm 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.



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