

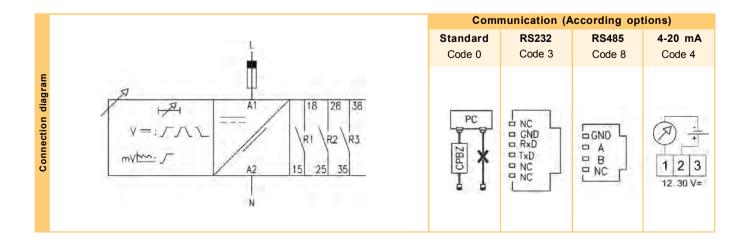
### **SVC**



## 8

# CONTROL AND VISUALIZATION OF THE VOLTAGE IN DC LINES

Function	Voltage relay for single phase lines in DC. Performs the control of the voltage and the ripple of its own supply voltage.						
Operating mode	0 11 113 0						
Voltage control	Operating margin: ±25% of the nominal voltage. Operativity by maximum and/or minimum voltage. At each case, adjustment for detection and/or for release. Reading average value						
Ripple control	<ul> <li>Operativity</li> </ul>	by maximu	m ripple vol	tage. Adjustment for detection and/or for release.			
Timing	· Associable	to the dete	ection and/o	to the release of whichever relay.			
	<ul> <li>Adjustable</li> </ul>	from 0,01s.	.999,9h	·			
	Repeating	precision ±3	mgg 0				
Repeating precision			- ' '				
2 h 1111	From 125 V	,					
Voltage precision	Taken over	the read value	ue: 0,7 %				
ŭ .				s displayed by means of the following status screen:			
reading value							
3		•	,	the line (mv DC)			
Output relay				Γ NO. By default, we supply three relays.			
Output 4-20 mA							
	the relays.						
	Precision: 1% additional to the read value.						
	This kind of output is optional.						
PC communication				ypes of communication with a computer (see also last page):			
	- By telephonic connector that incorporates standard device and CPBZ programming interface.						
	- By a RS232 connection (optional).						
	- By a RS2485 connection and SBAZ converter (optional).						
Operating margins	-25%	Nominal	+25%	,			
according to the range		12		-			
(VDC)	9		15				
	18	24	30				
	36	48	70				
	82,5	110	137,5				
	93,7	125	156,2				



			SVC			
			18 28 38 1 1 1 2 3 1 1 1 2 3 3 1 1 1 1 2 3 3 1 1 1 1			
Output relays	Resistive load	AC	-			
<del>6</del>		DC	-			
Ξ	Inductive	AC	3 A / 24 V			
g	load	DC	> 10 <sup>6</sup> oper.			
ă	Med	chanical life	18.000 operations / hour			
_	Max. mech.	operations	360 operations / hour			
	Electric life	at full load	AgSnO Alloy			
	Cont	act material	240 VCA (85 °C)			
	Opera	ting voltage	1000 VAC			
	Voltage between	en contacts	4000 VAC			
	Voltage	coil/contact	> 100 MΩ (500 VDC)			
	Isolation	resistance	1 red led per relay			
		Indication	· · · · · ·			

				2/4
			svc	
			L == A1   A2   N	
Supply voltage	Range (VDC)	12	24 / 48	72 / 125
#	Galvanic isolation	No	250	0 V
Š	Operating margins		±25%	
ᅙ	Consumption	2,2	W	3,3 W
d	Start-up time	80 ms	180	ms
တ	Detection time		40 ms	
	Reset		30 ms	
	Indication		Green led	

	Voltage phase-neutral	300 V		
	Overvoltage category	III		
_	Shock voltage	4 kV		
data	Pollution degree	2 (EN61010)		
	Protection	IP 20		
9	Approx. weight	280 g		
=	Store temperature	-30+80°C		
enviromental	Operating temperature	-20+50°C		
ŧ	Humidity	< 95% HR		
5	Housing	Cycoloy - Light grey		
	Leds window	Lexan - Transparent		
2	Buttons, connector, clamp	Technyl - Dark blue		
ø	Connector's terminals	Brass		
Ę	Screws torque	0,8 Nm		
structive	Dessigned and manufactured under EEC normative.			

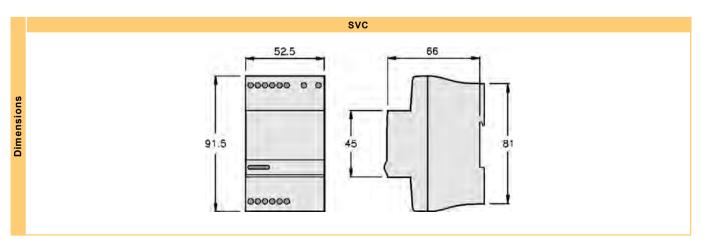
Options selection Supply voltage input Screens selection Change of values Text edition Device parts LCD screen Validation Signaling of the supply Connector voltage and status Contacts of communication of the relays the relays (under)

Dessigned and manufactured under EEC normative Directives referred:
Electromagnetic compatibility: EMC 2004/108/EEC.
Low voltage: LVD 2006/95/EEC.
Hazardous substances: 2011/65/EEC
Plastics: UL 91 V0

code	
Order	SVC

Control - Interface		Number of relays	Type of relays	Communication	Version	Supply	Range
9 -	With display Default languages: · Spanish · English						
	· French · Catalan			0 - No bus		[712] 12 VDC [903] 1570 VDC	[12V] 915 VDC [24V] 1830 VDC
	(Other on request)	0 - No relays		4 - 4-20 mA	0099	[903] 1570 VDC	[48V] 3660 VDC
i	M/M	3 - 3 relays	A - SPST NO	3 - RS232		[904] 60240 VDC	[72V] 5490 VDC
Q -	Without display Without communication			8 - RS485		[904] 60240 VDC	[125] 93,7156,2 VDC
U -	Without display Communication RS232 / RS485	(By default, 3)	(By default, A)	(By default, 0)	(By default, 00)		

To compose a reference, select one option of each one of the columns. Example:  $\overline{\text{SVC9 3A000 400}}$ 



	GENERAL CHARACTERISTICS OF THE DIGITAL CONTROL RELAYS
User's manual	For a wide knowledgment of the options offered by the digital control relays, the own User's Manual for each model must be read. Although an issue is given with every purchased device, a copy can be donwloaded in our web site (www.disibeint.com).
How to programm	The digital control relays can be indistinctly programmed either with the buttons placed in the front of the housing or with a personal computer.  Please refer at the end of this page to learn more about the PC programming alternative.
Types of screens	Status: They show the actual values of the magnitudes controlled by the relay.  User: Where the user can write a customized text to help to the relay identification.  Options: For accessing to the menus for the options selection.  Informatives for values: They show the information of the different set parameters.  Change of value: For modifying the values of the different values.  Screens menus: Group of screens related under the same concept and that can contain whichever type of the screens previously described.
Interactive menus	1 7
Changing values	The screens for changing the values contain the margins betwen such value can be adjusted. These margins can depend of other options and this is because different margins could be displayed according to other previous relations.
User's programms	Provided by factory two programs with options and pre-configured settings for quick start-up team. In most cases, these parameters should be tweaked to suit the characteristics of each installation. The user can create your own program and store it on your computer.
Display lighting	longer than 30 seconds, the light turns off. In order to turn the light on, it is enough to press any button only once.
Value added	<ul> <li>Four languages available in each relay</li> <li>Graphic bar for the intuitive visualization of the displayed value</li> <li>Historical control of the maximum values obtained by the relay</li> <li>Screen's refresh selectable between 1 and 8 times per second</li> <li>Possibility of locking the keyboard to avoid any undesired modification</li> <li>Complementary timing functions</li> </ul>

#### PC COMMUNICATION

### deCom

- · Communication and programming software for the digital control relays.
- · It allows the interactivity between the different types of communication: through the CBPZ interface, RS232 or RS485.
- $\cdot$  It displays the complete data related to the relay, gruoped by concepts and easing the intuitive programming.
- It has control tools to do not exceed the operating margins of each model according to its range.
- · It is provided with templates to facilitate the programming of each model.
- · It allows to store the own settings.

Windows XP operative system (.NET Framework required).







