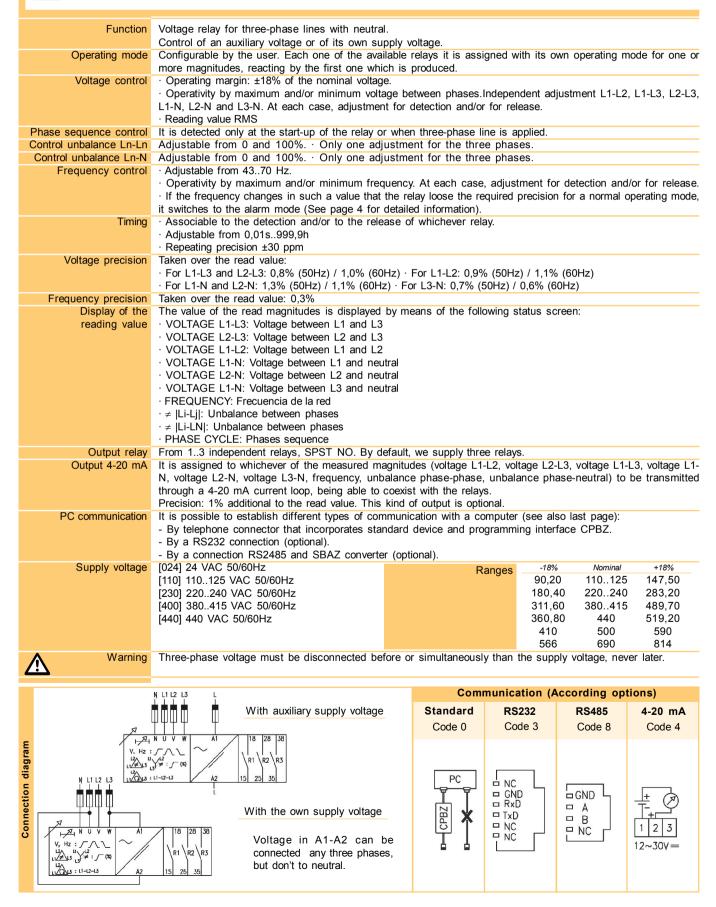


SVP



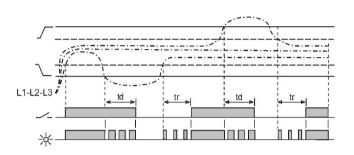
CONTROL AND VISUALIZATION OF VOLTAGE, PHASE AND FREQUENCY IN THREE-PHASE LINES WITH NEUTRAL

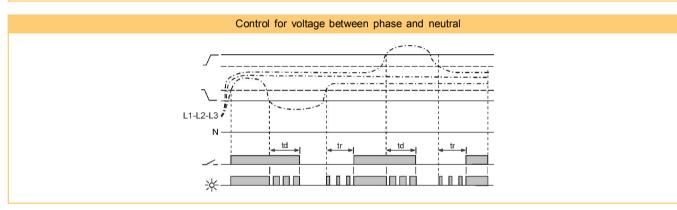


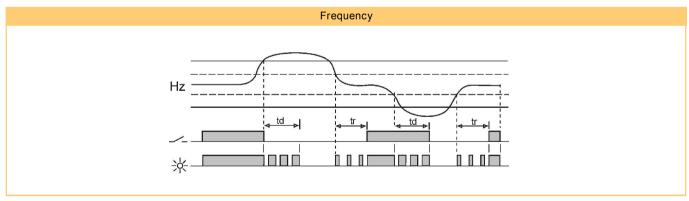
Phases sequence

L1	L2	L3		L1
L2	L1	12	L2 ¦	1
L3	L3	L1	L3 ¦	
/_				
-\/-				

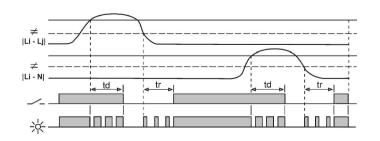
Control for voltage between phases





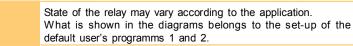


Unbalance between phase and between phase and neutral



td = Delay on detection / tr = Delay on release

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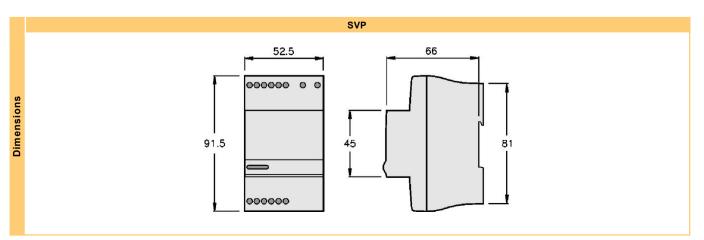
2/5

									3/5
			SVP				S	VP	
			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						
S	Resistive	AC	6 A / 240 V	ge		[024].	.[400]	[903]	[904]
ela	load	DC	6 A / 24 V	lta	Galvanic isolation	400			0 V
t z	Inductive	AC	3 A / 240 V	>	Frequency	50 Hz	60 Hz		-
Output relays	load	DC	3 A / 24 V	Supply voltage	Operating margins	±18	3%	1570 V	60240 V
Dut	Me	chanical life	> 10 ⁶ oper.	Idn	Consumption	2,5	VA	3,5 W	3,1 W
U	Max. mech	. operations	18.000 operations / hour	Ś	Start-up time	120 ms	110 ms	< 600 ms*	< 200 ms*
	Electric life	e at full load	360 operations / hour		Detection time	70 ms	60 ms	160 ms	150 ms
	Cont	tact material	AgSnO Alloy		Reset	1 net cyc	le and/or	>70 ms	* and/or
	Opera	ting voltage	240 VCA (85 °C)			-30%	of the	-30%	of the
	Voltage betwee		1000 VAC			nominal			voltage
		coil/contact	4000 VAC		Indication		Gree	en led	
	Isolation	n resistance	> 100 MΩ (500 VDC)						
		Indication	1 red led per relay		* In the worth of the cases				
Ξ									
		nase-neutral	300 V		Options selection		<u></u>	nnly voltor	
		ge category	111		Screens selection		30	pply voltag	je
57		ock voltage	4 kV		Change of values			input	
data	Pollu	ution degree	2 (EN61010)						
	A	Protection	IP 20		Text edition				
enviromental		rox. weight					/	-	
nei		temperature	-30+80°C			666	υυυ ζ΄ ζ		
Po	Operating	temperature	-20+50°C < 95% HR	ts			225-340 VCA 5000011		
ž		Humidity		parts		DISIBEINT		-	
		Housing ds window	Cycoloy - Light grey Lexan - Transparente		ļ		SVA9 3A000 230 RELE DE TENSION		
and	Buttons, conne		Technyl - Dark blue	Device					D
		's terminals	Brass)e/	Validation 🔴 ——			scr	een
İVE		ews torque	0,8 Nm	-					
Constructive	301	Norms	Dessigned and manufactured			111 H	KJ	1	
ŝtru		NOTITS	under EEC normative.		,	1353	11		
Suc			Electromagnetic compatibility,			15 18 25	28 35 38		
ŏ			directives 89/366/EEC and 92/31/EEC.		Signaling of the supply /			Connec	tor

under EEC normative. Electromagnetic compatibility, directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC. Plastics: UL 91 V0

			Control - Interface	Number of relays	Type of relay	Communication	Version	Supply	Ranges	
Order code	SVP	9 -	With display. Default languages: · Spanish · English · French · Catalan (Other on request)	0 - No relays 3 - 3 relays	0 - No relays A - SPST NO	0 - No bus 4 - 4-20 mA 3 - RS232 0099	0099	[024] 24 VAC [110] 110125 VAC [230] 220240 VAC [400] 380415 VAC [440] 440 VAC	[110] 110125 VAC + N [230] 220240 VAC + N [400] 380.415 VAC + N	
U		Q - U -	Without display. Without communic. Without display.			8 - RS485			[903] 1570 VAC/DC [904] 60240 VAC/DC	[440] 440 VAC + N [500] 500 VAC + N [690] 690 VAC + N
			Communication RS232 / RS485.	(By default, 3)	(By default, A)	(By default, 0)	(By default, 00)			

To compose the reference, select one option of each column. Example: SVP9 3A400 230 690



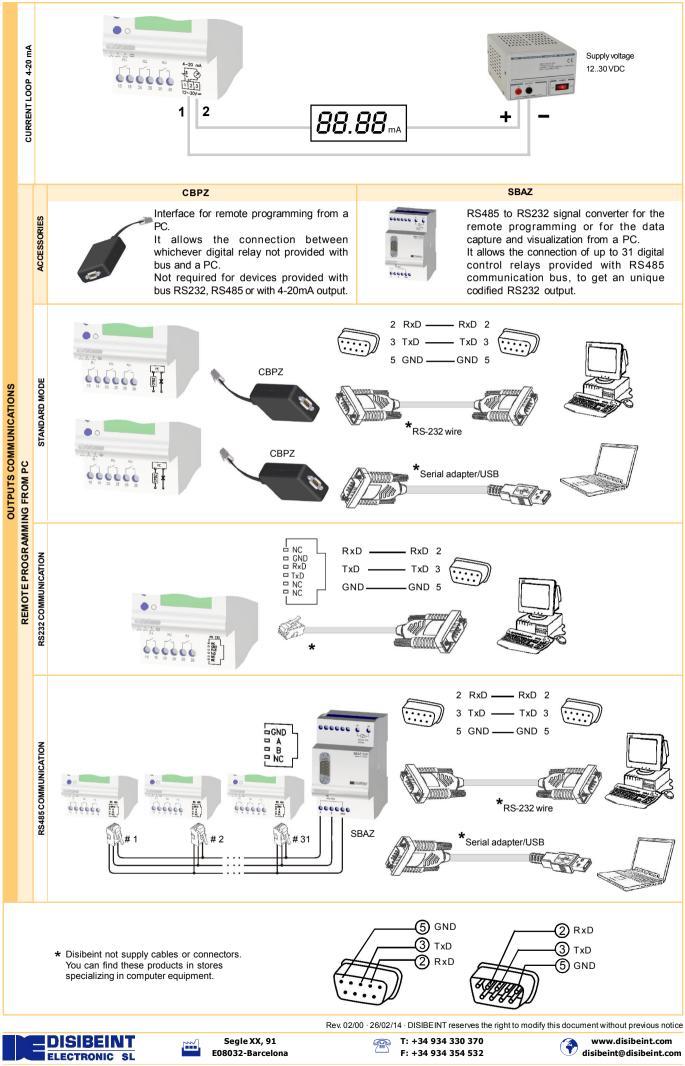
	GENERAL CHARACTERISTICS OF THE DIGITAL CONTROL RELAYS
	For a wide knowledgment of the options offered by the digital control relays, the own User's Manual for each model must be read. Although an issue is given with every purchased device, a copy can be donwloaded in our web site (www.disibeint.com).
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	For an ease programming, into the menus only the options that can be set are the ones visible. The rest of the options are not visible. This feature is interactive, ie., it is produced automatically according whether other functions are activated or not.
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	The display remains backlinghted while it is accessed to the different screens. If any button is not pressed for 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	
	SPECIFIC CHARACTERISTICS FOR THE MODEL SVP
Alarm by frequency	This option affects to those relays with any voltage parameter activated. By default, this option is activated.
deviation	

For this kind of deviation in the frequency, the operating precision is reduced. More the frequency in the net is deviated, worse precision when reading its voltage. If this option is deactivated, you must remember that the reading precision of the voltage parameters decrease

when the frequency gets deviations from its nominal values (50 Hz / 60 Hz).

You must consider this reduction of precision when setting the values for detection and/or release.

	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. 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. 		<image/>				



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