

SVP	
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Phase out product

ORDERING CODE

SVP	Proportional amplifier for motors and pumps control		
X	 X = For proportional solenoids 0.88 A (24 V DC) (STANDARD) Y = For proportional solenoids 1.76 A (12 V DC) Z = For proportional solenoids 2.50 A (9 V DC) 		
Ι	 I = Independent control of the proportional output S = Symmetric control of the proportional output (STANDARD) 		
E	 E = With external card enabling control (STANDARD) K = With external enabling control and proportional output enabling control 0 = Without enabling control 		
1	 1 = With voltage input ±5V (STANDARD) 2 = With current input ±20mA 		
ST	ST = Version with setting panel (STANDARD) CN =Version with CAN interface		
00	NONE (STANDARD)		
D1	Serie 1 digital model		

Connectors and electrical contacts included in the fourniture.

Community Directives, in accordance with the following norms:

EN61000-6-1, EN61000-6-3

SVP... PROPORTIONAL AMPLIFIER

FOR MOTORS AND PUMPS CONTROL

The SVP electronic amplifier with current feedback current is designed to control a pump with variable flow rate or two pumps for open circuit or two motors.

The amplifier has two proportional outputs with current feedback and a single power output without current feedback. Each proportional output is controlled by an analogue input; it is therefore possible to control two proportional outputs independently (independent control for the proportional outputs, option I in the ordering code).

Through the selection of a switch positioned on the card, it is possible to control both proportional outputs with only one analogue input (symmetrical control for the proportional outputs, option S in the ordering code).

The symmetrical control is used for hydrostatic pumps in closed-circuit with two solenoids control. In the independent control mode, the two proportional outputs are mutually independent and it is possible to control separately two open-circuit pumps with single solenoid control or two motors. The card also has an output for brake release control: this is ON when the output current of the two proportional channels is at the minimum value. As the output current of one of the channels exceeds an adjustable percentage above the minimum current, the brake output state changes to OFF.

MAIN FEATURES

- External control signal for enabling card operation (it is possible to by-pass this function).
- Linear and independent output current rise and drop ramps on both proportional outputs.
- Control of the card is possible via potentiometer, voltage signal (±5V) from an external source or current signal from an external source (±20mA).
- Differential analogue inputs logic.
- Adjustment of brake control output current value.
- Adjustment of the control parameters from digital interface panel built in on the card.
- Two digital outputs (power 0.5A) to signal card failure or anomaly.
- Short-circuit protection for the two proportional outputs.
- Protection for input power polarity inversion.
- Over voltage protection system.

ADDITIONAL FEATURES

- When ordering it is possible to select the external control signal version (standard) with separate controls to enable the two proportional outputs (upon request).
- Third analogue input (\pm 5v or \pm 20mA) for pressure or position transducer (upon request).
- Digital Input (12V or 24V) for encoders or inductive speed sensors (upon request).
- CAN-bus data transmission interface (upon request).

TECHNICAL DATA

Voltage supply		10 ÷ 30 VDC
Max input current		8 A
Max output current for each proportional channel 2.5		2.5 A
Max output current for brake control output 3		3 A
Analogue external reference signal for proportional control		
		±5V, or ±20mA
Resistance of external potentiometer $2K\Omega \div 10 K\Omega$		2 K $\Omega \div 10$ K Ω
Adjustable current rise time ramp 0 ÷ 20 sec		0 ÷ 20 sec
Adjustable current drop time ramp 0 ÷ 20 set		0 ÷ 20 sec
Adjustable min. output current for each proportional channel 0 ÷ 50% of set Max output current		
Adjustment of current gain for each proportional channels 50% ÷ 100% of Max current		
Brake adjustment release	0 ÷ 50% of s	et Max output current
Connector AMP 29 poles Connector and contacts included (*)		
Operative environment temp	erature	-40°C ÷ +80°C
Protection degree IP65 With correct connector assembling and wiring (*)		

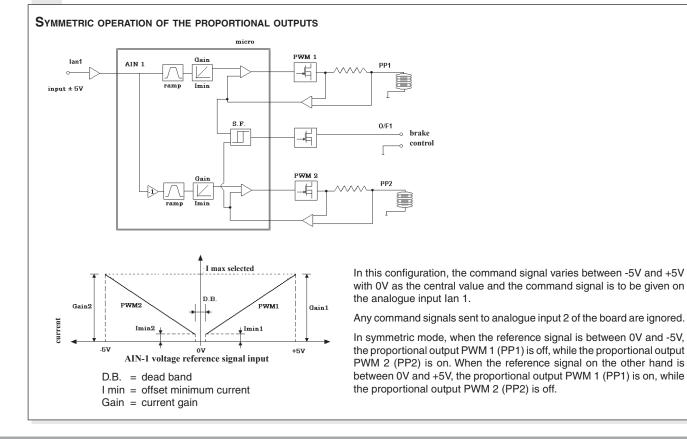
(*) It is responsibility of the customer the assembling and the wiring of the connector supplied with the SVP proportional card.

MOBILE

CONNECTION SCHEME Voltage protection device Vpwr + Battery 1 ► EN – Battery 11 / 12 PP1 PWM 1 DC +5V out 17 +5V ∕DC sensing current ₽¢. 5V out DC Enable 26 Vpw ∫∕oc by-pass S/I EN mode EN PP2 CEnGen 14 CPU PWM 2 CEnV1 5 Г sensing current CEnV2 15 Vpwr 24 0/F1 Cgen1 Brake Cgen2 6 solenoid ō 3A DinCom 16 0/F23 13 Supply DOut Pulse Signal CENC+ 25 V/I CENC-7 0/F2 A DOut_1 9 lan1 0.5A V/I lan2 0/F3 27 22 DOut_2 V/I 0.5A lan3 8 P1 ● P2 lanCom 28 •••• •••• CAN_H CAN_L COM 29 ۲ Can device • 10 p3

CHARACTERISTIC CURRENT OUTPUT CURVES

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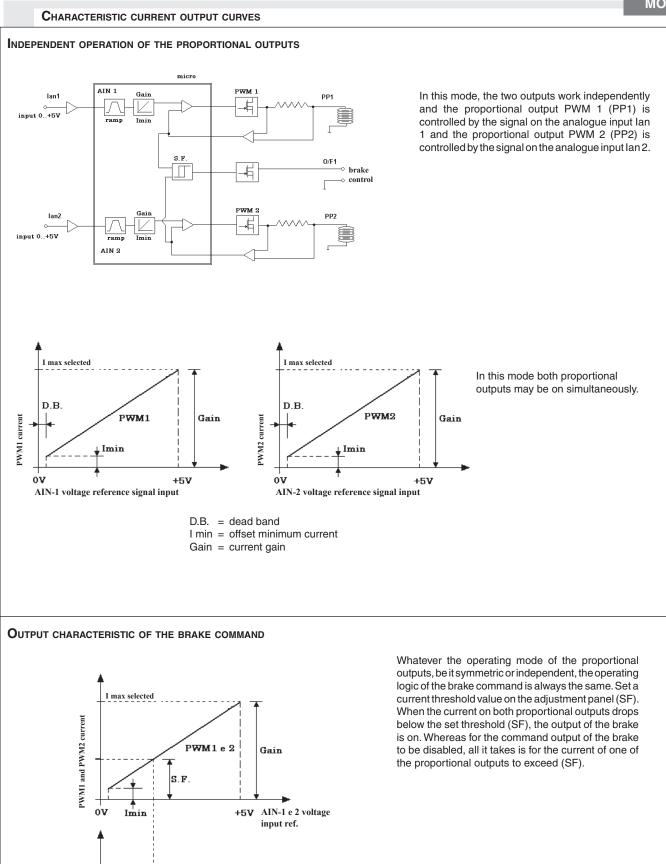


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SETTORE MOBILE

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on/off output

brake ON

brake OFF

D.B. = dead band

Gain = current gain

I min = offset minimum current

S.F. = threshold brake release

SETTORE MOBILE SPARE PARTS AMP SEAL Single wire seal CODE 828905-1* (Pack. 30 pcs.) Plug cavity sealing CODE 828906-1* (Pack. 20 pcs.) JPT contact CODE 929937-3 o 929938-3* (Pack. 30 pcs.) Silicon facial sealing CODE 963222-1*



E

JPT housing connector (plug) 29P CODE 963449-2*

* AMP code

Spare parts kit, gaskets, connectors and electrical contacts: V89960000

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