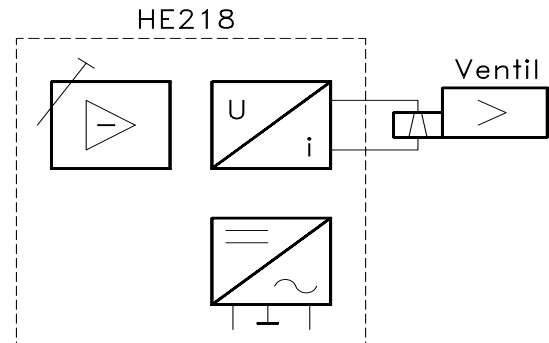


SCHNEIDER SERVOHYDRAULIK

Power amplifier Type : HE 218 - ...

- easy,
- economic
- for all Schneider Servo valves
- adjustable rated current
- European size card 100 x 160 mm
- male connector DIN 41612-F32 row z b
- front plate 8TE (40mm) with test points 2 mm and trimmer potentiometers
- included power-supply +15V and -15V
- included adjustable dither generator
- current source up to $\pm 1000\text{mA}$



Technical data

Supply:

supply voltage 2 x 18 ... 24 Volt AC with reference to common GND
(internal supplies $\pm 24\text{V}$ and $\pm 15\text{V}$ DC)

Inputs:

P-controller and current booster

Analogue inputs: 0... $\pm 10\text{V}$ ($\pm 5\text{V}$)
 one input with low pass filter 100 Hz
 input resistance 100 kohm

Outputs:

P-controller:

Output voltage: 0 ... $\pm 10\text{V}$ (connected internal to current booster input)
 P-gain 0,5 ... 20 V/V

Current booster:

output current (controlled) 0 ... $\pm 200\text{ mA}$ $\pm 300\text{ mA}$ $\pm 400\text{ mA}$ $\pm 650\text{ mA}$ or $\pm 1000\text{ mA}$
 rated current for 10V input adjustable with internal potentiometer
 output voltage ca. 0 ... $\pm 24\text{V}$
 external load resistance 4 ... 150 ohm
 external load inductivity 0 ... 160 mH
 not short circuit proof, useful for resistance and inductive loads (valve coils)
 power 0 ... 15 W
 dither generator
 amplitude 0 ... 20% from rated current
 frequency 30 ... 450 Hz

Internal power supply:

output voltage non regulated: +24 V DC max ca. 300mA
 -24V DC max ca. 300mA
 output voltage regulated: +15 V DC ($\pm 0,4\text{V}$) max ca. 100mA
 -15 V DC ($\pm 0,4\text{V}$) max ca. 100mA

Mechanical data's:

dimensions: European size card 100 x 160 mm
 Front plate 40 mm (8 TE) 3 HE
 Male connector: DIN 41612 F 32 polig
 Potentiometer 19-turn spindle trimmer
 weight 300 g

environment:

permissible ambient temperature -20 ... +60 °C
 max storage temperature -40 ... +85 °C
 permissible humidity 30 ... 75 % not condensed
 shock resistance < 2g sinus form 10 ... 100Hz
 EMC level 3 according to EN 50082-2
 (only if the board is mount in a EMC protected rack)

Additional parts:

For power supply HE 236 power unit with transformer
 Torodial transformer 50VA 2x 18V
 For to mount card holder DIN41612-F32pin row z and b
 For to mount in 19zoll racks female connector DIN41612-F32pin row z and b
 for soldering or WW connection

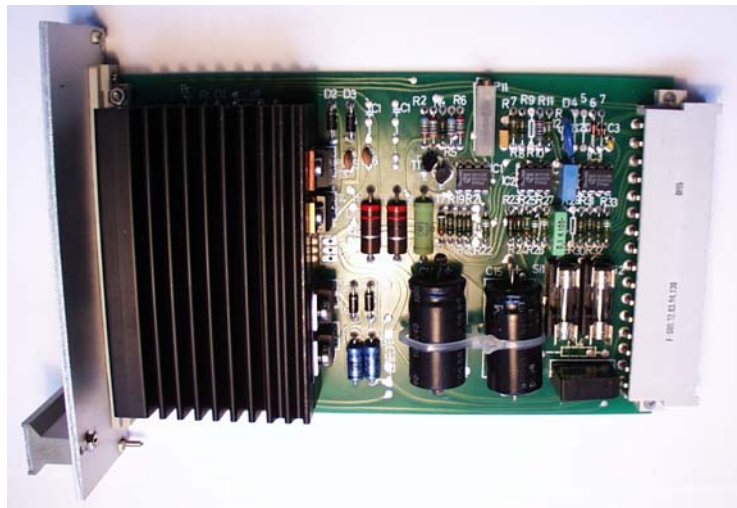
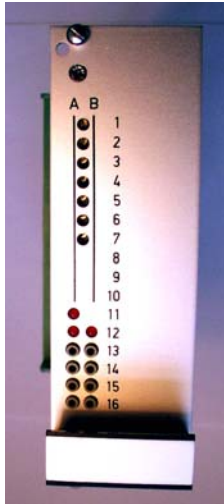
model type and order codes:

stock type:	Type	Schneider order no.		
HE 218 - 0 XXX - 0 1 - 0 0 1 - 2B		39155		
<table border="0" style="width:100%"> <tr> <td style="width:50%"> <p><u>Schneider Type</u></p> <p><u>controller release</u> 0 = without 1 = 2 = normal closed relay</p> <p><u>rated current</u> xxx = stock type calibrated on 300mA 200 = 200mA 400 = 400mA 650 = 650 mA 999 = 1000mA</p> <p><u>resistance for current limiting</u> 0 = Standard = without 1 = R42/R43 = 30R/7W 2 = R42/R43 = 68R/7W</p> <p><u>male connector</u> 0 = DIN 41612-C32 a,c (option) 1 = DIN 41612-F32 b,z (standard) 2 = DIN 41617 31pol</p> </td> <td style="width:50%"> <p><u>construction level</u> 0A = up to 6/86 1A = up to 10/90 2B = from 1998</p> <p><u>Front plate</u> 0 = without 1 = Vero 2 = Siemens "Teleperm C" 3 = Schroff</p> <p><u>supply</u> 0 = 2 x 18V AC (Standard) 1 = 2 x 18V AC and +15V DC and -15V DC</p> <p><u>Options</u> 0 = Standard 1 ... 9 customer type</p> </td> </tr> </table>			<p><u>Schneider Type</u></p> <p><u>controller release</u> 0 = without 1 = 2 = normal closed relay</p> <p><u>rated current</u> xxx = stock type calibrated on 300mA 200 = 200mA 400 = 400mA 650 = 650 mA 999 = 1000mA</p> <p><u>resistance for current limiting</u> 0 = Standard = without 1 = R42/R43 = 30R/7W 2 = R42/R43 = 68R/7W</p> <p><u>male connector</u> 0 = DIN 41612-C32 a,c (option) 1 = DIN 41612-F32 b,z (standard) 2 = DIN 41617 31pol</p>	<p><u>construction level</u> 0A = up to 6/86 1A = up to 10/90 2B = from 1998</p> <p><u>Front plate</u> 0 = without 1 = Vero 2 = Siemens "Teleperm C" 3 = Schroff</p> <p><u>supply</u> 0 = 2 x 18V AC (Standard) 1 = 2 x 18V AC and +15V DC and -15V DC</p> <p><u>Options</u> 0 = Standard 1 ... 9 customer type</p>
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possible types:

order no.	remarks
HE 218-0XXX-01-001-2A	39155 stock type
HE 218-0xxx-00-001-2A	37517 C32 pol
HE 218-0xxx-02-001-2A	39582 31-pol
HE 218-0700-01-103-2A	24960 with Schroff plate
HE 218-0xxx-01-001-2A-DA	41821 with LED indication

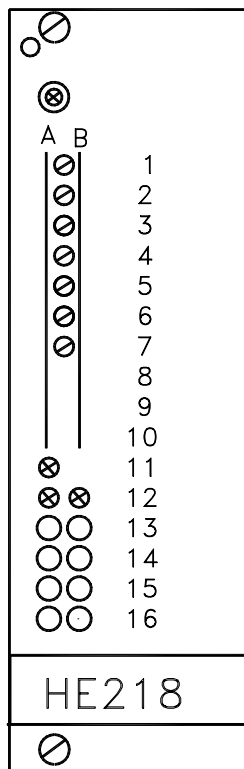
Front view and side view



Adjustment pots and test points

Testpoint A

spare release contr.
LED +15V
input U/I
controller out
+15V
GND



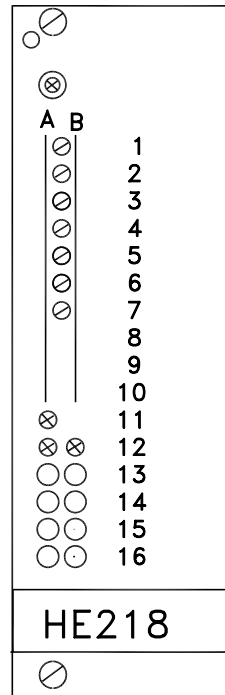
Potentiometer

gain 0,5...20
dither ampl.
offset controller
spare (I-contr.)
dither frequency
nominal valve current
Offset feedback -3,5V

Testpoint B

LED -15V
input contr.
valve current
-15V
GND

Frontplatte
front plate
8TE = 40 mm



Potentiometer

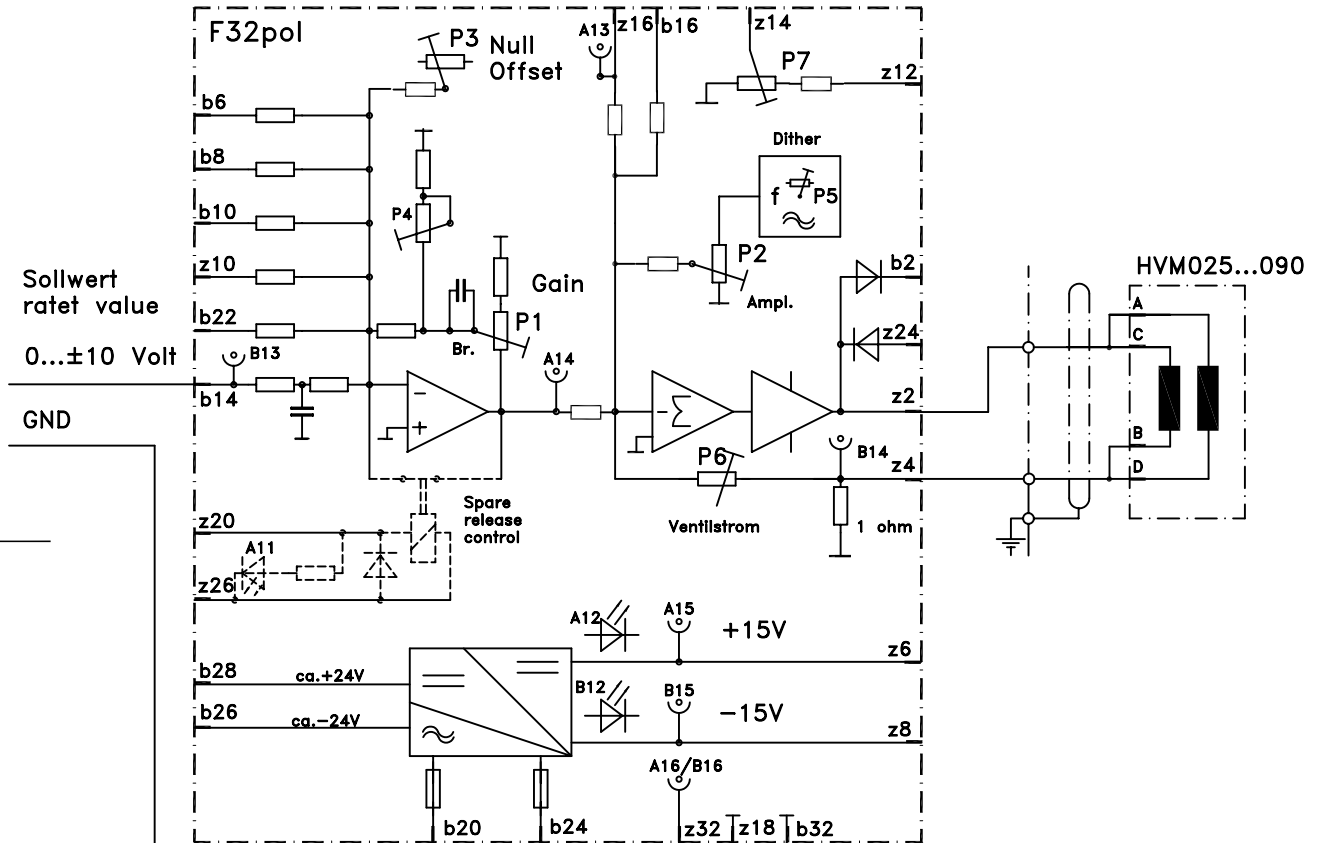
- 1 gain 0,5...20
- 2 dither ampl.
- 3 offset
- 4 spare (I-contr.)
- 5 dither frequency
- 6 nominal valve current
- 7 spare

Testpoint A

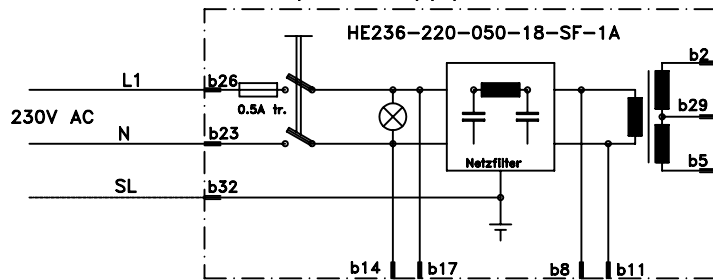
- 11 spare release contr.
- 12 LED +15V
- 13 input U/I
- 14 controller out
- 15 +15V
- 16 GND

Testpoint B

- LED -15V
- input contr.
- valve current
- 15V
- GND



**Netzeinheit
AC power supply**



File: HE218-AN	Lay: SV1	F32pol	Datum	Name	Fuer diese Vorlage techn. Art behalten wir uns alle Rechte vor (vgl. DIN 34)		Benennung Anschlussplan connection diagram for servo valves	Zeichnungsnummer HE218 F32pol	Blatt BL	
			gez. 15.07.94	el	Ers.f.					Ers.d
Zust.	Aenderung	Datum	Name	F.gepr. 11/95	Ei					