

18 STÖGRA panel mount / 19 inch-systems series ELK / ELR

The panel mount / 19 inch rack system series ELK/ELR is a mains ready single or multiple axis stepping motor control which can be mounted e.g. in a switch cabinet and can be connected easily via screw terminals. ELK/ELR-systems include plug ports for STÖGRA amplifier boards series SE...[E50] V31/V33 with 32-pole connector VG (DIN 41612 type D) or position controls series SERS.

Each power amplifier plug port additionally includes a plug port for a fan board. In that way fans can be installed easily also afterwards.

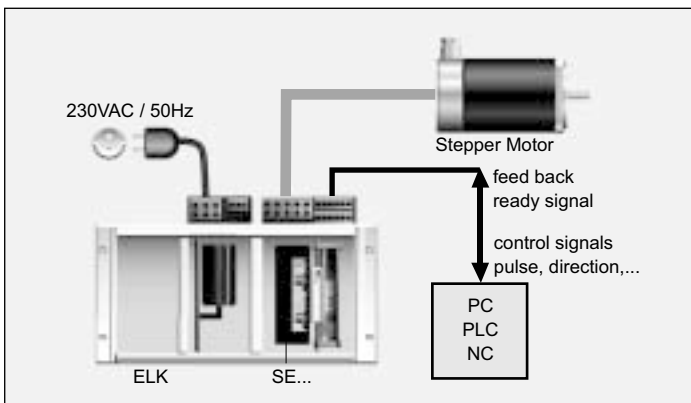
All connections (mains, motor and control signals) are via screw terminals or spring terminals (signal connections at ELR racks). ELK/ELR racks are available with and without integrated power supply (connection to 230VAC/50Hz – also available for 115VAC/60Hz). All ELK-/ELR-racks with power supply include in standard version a second (galvanical isolated) 24VDC output.



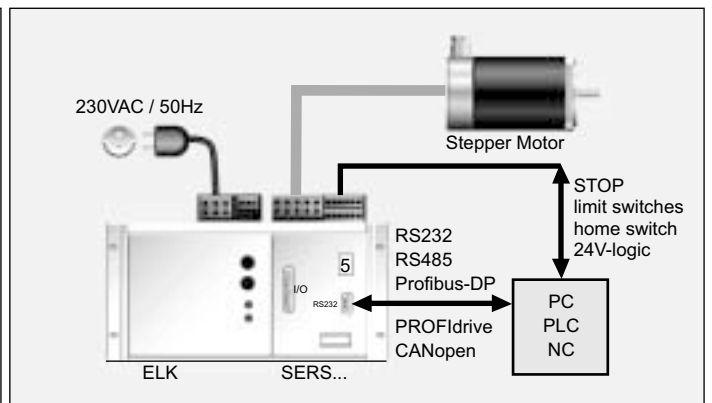
ELK... front side

ELR... rear side

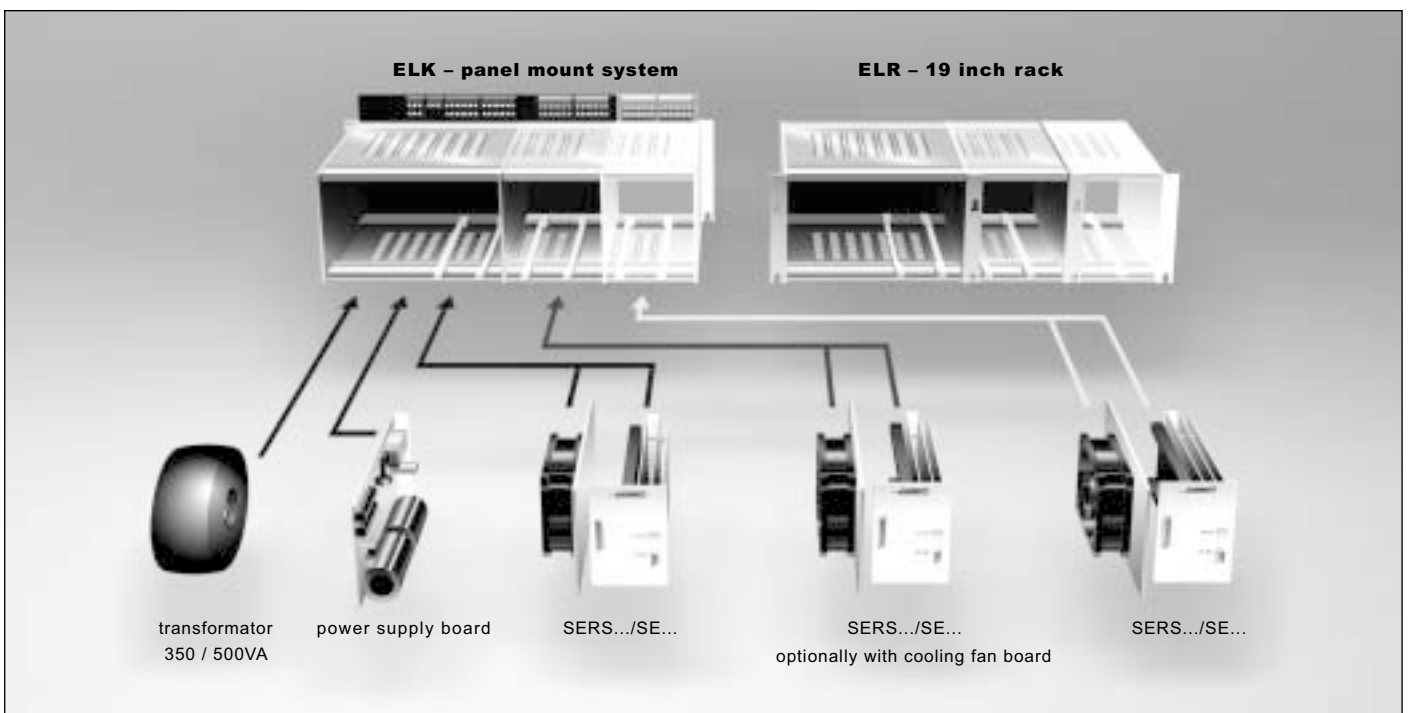
ELR... front side



ELK... with SE...front side

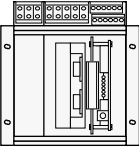
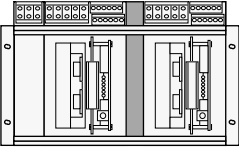
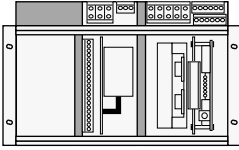
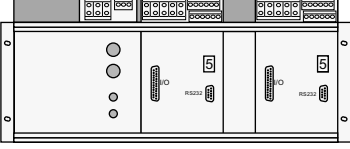
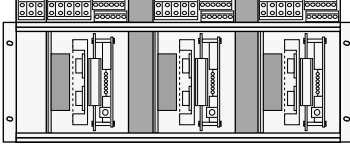
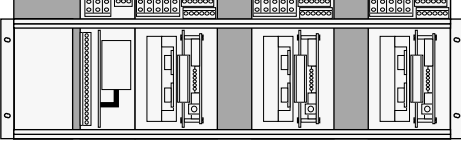
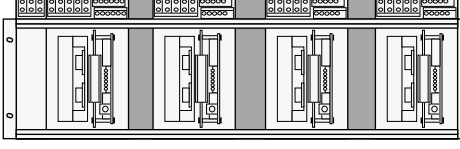
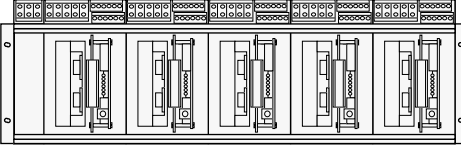


ELK... with SERS front side

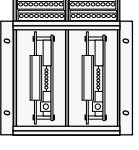
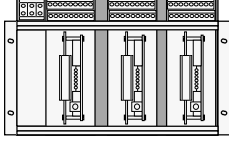
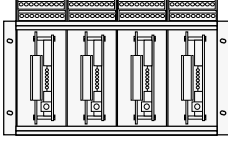
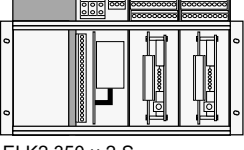
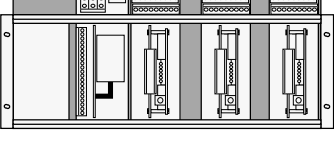
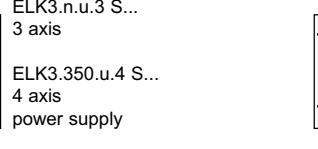
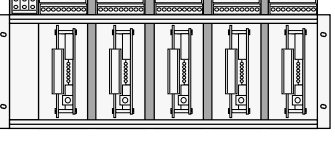
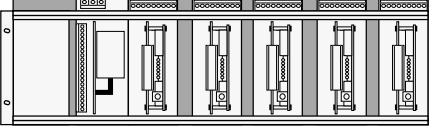
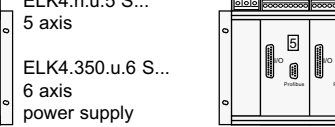
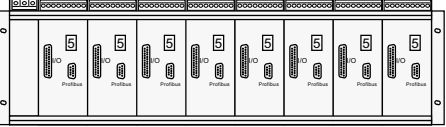


STÖGRA panel mount / 19 inch-systems series ELK / ELR 19

ELK and ELR for SE... or SERS...

ELK...S for SE... and SERS...S with max. 4A phase current / 60VDC voltage supply

Other available versions for ELK- and ELR-racks:

- Less plug ports than physically possible in the rack → e.g. ELR4.n.u.1 (ELR4.350.60/24.1)
→ 19 inch rack ELR4 with power supply and only 1 plug port for SE or SERS
- External connections for motor voltage supply option »E« also for ELK-/ELR-racks with power supply
→ e.g. ELK4.500.85/24/E.3 A3
for common voltage supply of multiple ELK-/ELR-racks via one power supply integrated in one of the ELK-/ELR-racks
- ELR-rack ELR1, ELR2 and ELR3

20 STÖGRA panel mount / 19 inch-systems series ELK / ELR

ELK dimensions and connections

	A	B
ELK 1	158	118
ELK 2	270	230
ELK 3	376	336
ELK 4	483,5	443,5

SE...	SERS
5 ready signal (+)	ready signal (+)
6 pulse	Stop switch
7 disable	limit switch left
8 step angle	opto GND
9 GND	GND (24VDC)
10 24VDC	24VDC
11 ready signal (-)	ready signal (-)
12 reset	home switch
13 boost	limit switch right
14 direction	service switch ext.
15 GND	GND (24VDC)
16 24VDC	24VDC

ELR dimensions and connections

	A	B
ELK 1	158	118
ELK 2	270	233
ELK 3	376	336
ELK 4	483,5	446,6

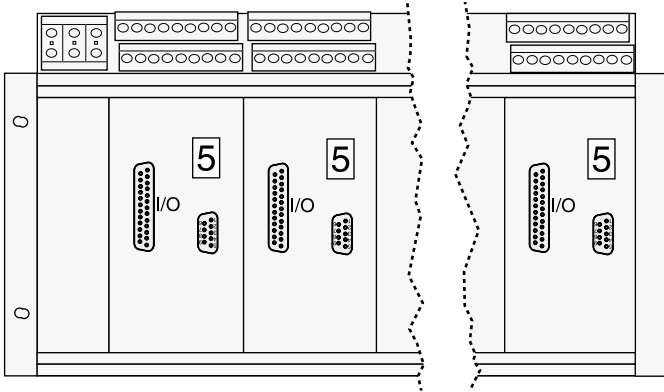
SE...	SERS
5 ready signal (+)	ready signal (+)
6 GND (VCC)	GND (VCC)
7 pulse	Stop
8 disable	limit switch left
9 step angle	Opto-GND
10 GND (24V)	GND (24V)
11 ready signal (-)	ready signal (-)
12 GND (VCC)	GND (VCC)
13 reset	home switch
14 boost	limit switch right
15 direction	service sw. ext.
16 +24VDC	+24VDC

interface for SERS with option R1 or R2 connection RS232 R 9-pole D-Sub-connector

I/O-signals for SERS with option R1 or R2

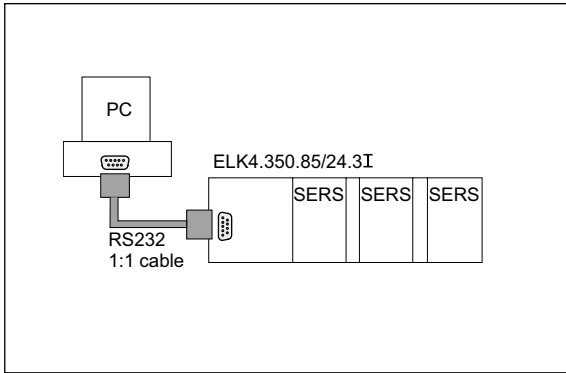
I/O-signals

ELK ...S connections



SE...	SERS...
1: PE / Shield	1: PE / Schirm
2: Motor phase 1	2: Motor Phase 1
3: Motor phase 2	3: Motor Phase 2
4: Ready signal	4: Ready signal
5: Pulse	5: STOP
6: disable	6: Stop switch
7: Step angle	7: Opto-GND
8: GND	8: GND (24VDC)
9: +24VDC	9: +24VDC
11: PE / Shield	11: PE / Shield
12: Motor phase 1	12: Motor phase 1
13: Motor phase 2	13: Motor phase 2
14: Ready signal	14: Ready signal
15: Reset	15: Home switch
16: boost	16: Stop switch
17: Pulse	17: Service switch extern
18: GND	18: GND (24VDC)
19: +24VDC	19: +24VDC

22 STÖGRA panel mount / 19 inch-systems series ELK / ELR

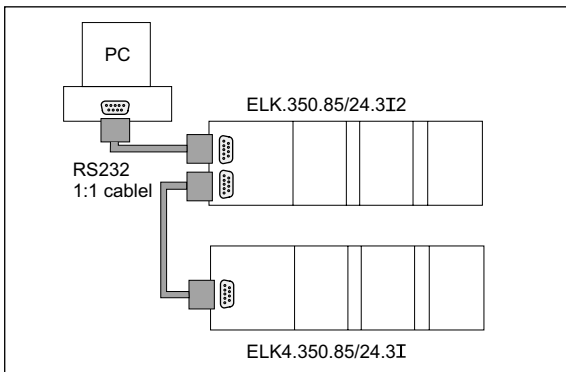


Option »I« for ELK (for SERS with RS232):

Common interface connection for all SERS in a ELK-rack
– when connecting an ELK-rack with SERS units to one common RS232-interface of a PC.

Connection PC-ELK via a 1:1 cable.

The SERS boards must be ordered with option R4.



Option »I2« for ELK (for SERS with RS232):

2 common interface connections for all SERS in a ELK-rack

→ RS232 – input and output when connecting multiple ELK-racks with SERS at one common RS232-interface of a control (e.g. PC).

Connection PC-ELK-ELK is via 1:1 cabel.

SERS must be ordered with option R4.



ELK2.350.85/24.1 P with SERS 06.85 V04 R4

Option »P« for ELK or ELR for integrating a SERS-Programmer into the rack (at front side):

The SERS-Programmer must be ordered separately.

When using ELK-racks the SERS boards must be ordered with option R4 or R5, when using ELR-racks the SERS boards need option R1 or R2.

Option S: Small plug ports for SERS...S position controls or SE 01.. / SE 02.. / SE 03.. / SE 04.. (until 60VDC) power amplifier boards.

Option V: For using with SE ... power amplifier boards (for standard SERS position controls do not order option »V«) or for using with SERS position controls with option »U« (seperate 24V logic supply)

Option E: Connection for external supply of the motor supply DC voltage (for ELK-racks without power supply) respectively for the DC voltage supply of other ELK-racks without power supply

Cover of ELK / ELR racks:

Top side and bottom side: Aluminium plates with air ventilation slots.

Rearside: ELK-racks with 10 mm PVC plate

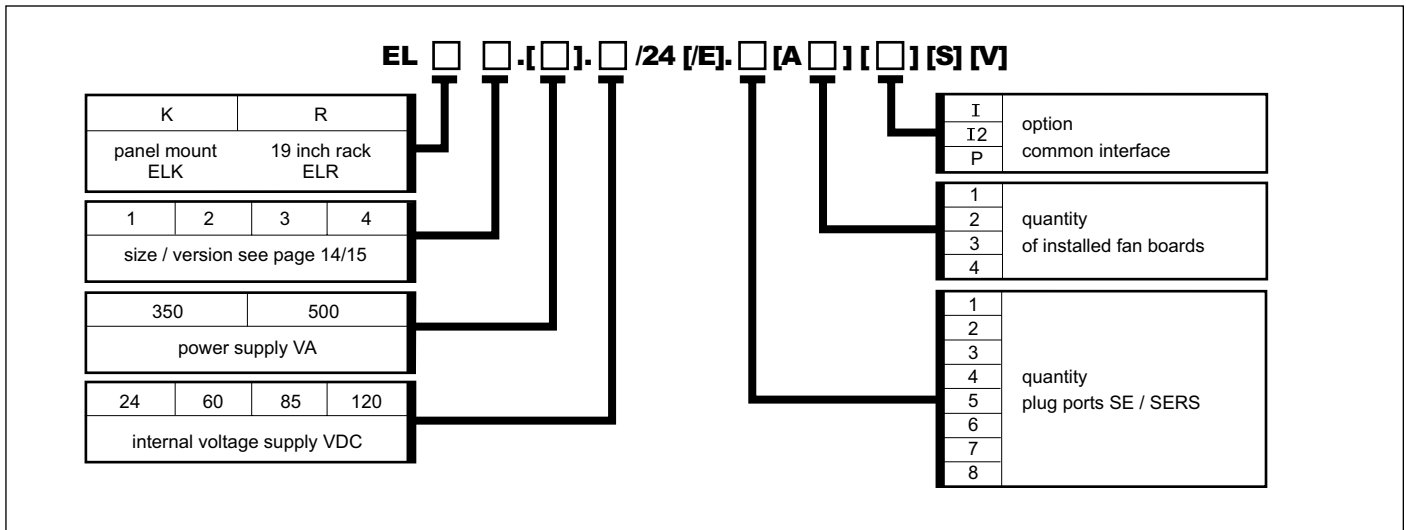
Front side: SERS-boards in standard version with front panels – SE-power amplifier boards without front panels

STÖGRA panel mount / 19 inch-systems series ELK / ELR 23

Technical specifications:

protection class	protection class IP20		
weight	type	ELK / ELR with power supply	ELK / ELR without power supply
	weight	6,2 kg – 7 kg (depending on version)	1,8 kg – 2,6 kg (depending on version)
RoHs conformdirective to 2002/95/EC			

ELK/ELR ordering key



Ordering examples: ELK2.350.85/24.1 V ELK3.500.120/24.2 A2 I ELK3.60/24/E.5 I2 S ELR4.350.85/24.3 A3 P