

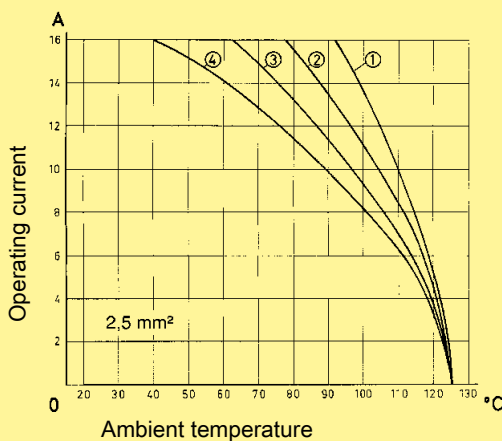
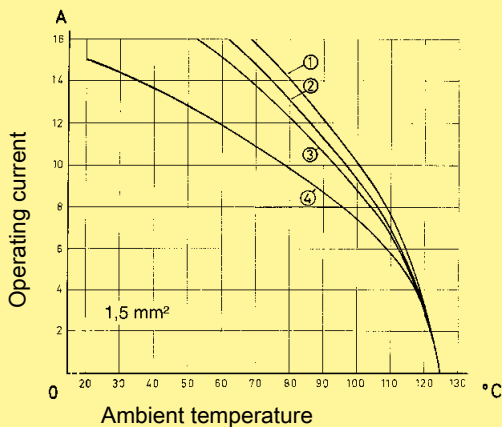
Features

- For left hand or right hand applications available
- PE and connecting terminal for contact no.1 are at the top in both types of installation
- Mountable in standard bulkhead housing and on standard rails by using of fixing elements
- Screw terminal with integrated wire protection at Han E® AV
- Cage-clamp terminal at Han® ES AV

Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (non-intermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques according to DIN EN 60 512-5



- ① Han® 6 E AV / Han® 6 ES AV
 ② Han® 10 E AV / Han® 10 ES AV
 ③ Han® 16 E AV / Han® 16 ES AV
 ④ Han® 24 E AV / Han® 24 ES AV

Technical characteristics

Specifications	DIN EN 60 664-1 DIN EN 61 984
Approvals	
Inserts	
Number of contacts	6, 10, 16, 24, 32 (2 x 16), 48 (2 x 24) + PE
Electrical data acc. to EN 61 984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Pollution degree 2 also	16 A 400/690 V 6 kV 2
Rated voltage acc. to UL/CSA	600 V
Rated current acc. to UL/CSA	12 A (only for Han® ES)
Insulation resistance	$\geq 10^{10} \Omega$
Material	polycarbonate
Limiting temperatures	-40 °C ... +125 °C
Flammability acc. to UL 94	V 0
Mechanical working life - mating cycles	≥ 500

Contacts

Material	copper alloy
Surface	
- mating side	3 µm Ag
- termination side	tin plated
Contact resistance	$\leq 4 \text{ m}\Omega$
Screw terminal	
- Wire gauge ¹⁾	0.2 ... 2.5 mm ²
- AWG	24 ... 14
- Tightening/test torque	0.5 Nm
Cage clamp terminal	
- Wire gauge ¹⁾	0.14 ... 2.5 mm ²
- AWG	26 ... 14

Identification strips Han E® AV

the following identification strips may be used		
Multi contour (MK)	HARTING (6x10)	09 33 000 9971
	Murrplastik	KPX 6/10
	Weidmüller	DEK 6,5
	Phoenix	4K-DST 6
	WAGO	WSB
Single contour (SK)	Murrplastik	KWI 6/10
	Wieland	9705 A/6,7
	WAGO	Mini-WSB

Identification strips Han® ES AV

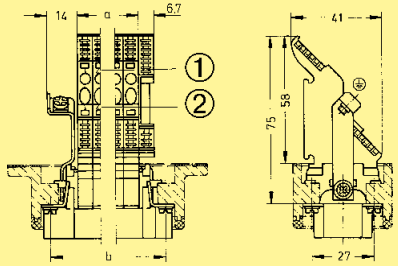
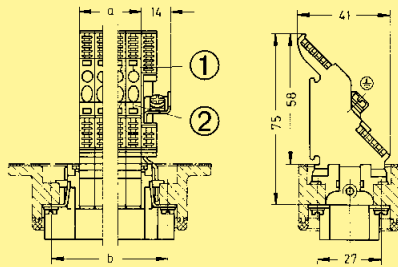
the following identification strips may be used		
Single contour (SK)	HARTING (6x15)	09 33 000 9973
	Murrplastik	KWI 6/15
	Wieland	9705 A/6,7
	WAGO	Mini-WSB

¹⁾ geometric wire gauge

Number of contacts

6, 10, 16, 24 + 



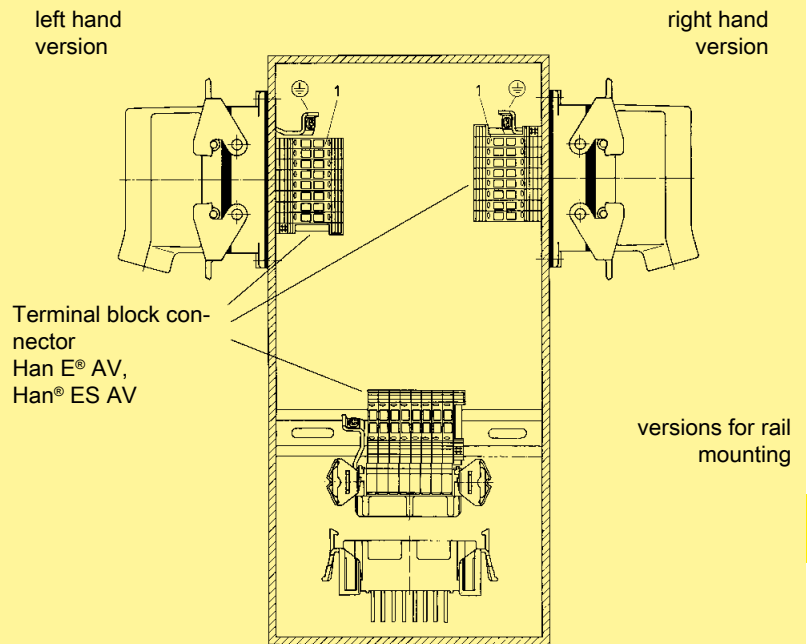
Identification	Number of contacts	Part number		Drawing	Dimensions in mm															
		Male insert	Female insert																	
Left hand version Single contour (SK)	6	09 33 006 4629	09 33 006 4729																	
	10	09 33 010 4629	09 33 010 4729																	
	16	09 33 016 4629	09 33 016 4729																	
	24	09 33 024 4629	09 33 024 4729																	
Right hand version Single contour (SK)	6	09 33 006 4639	09 33 006 4739																	
	10	09 33 010 4639	09 33 010 4739																	
	16	09 33 016 4639	09 33 016 4739																	
	24	09 33 024 4639	09 33 024 4739																	
				<table><tr><td></td><td>a</td><td>b</td></tr><tr><td>Han® 6 ES AV</td><td>20</td><td>44</td></tr><tr><td>Han® 10 ES AV</td><td>34</td><td>57</td></tr><tr><td>Han® 16 ES AV</td><td>54</td><td>77.5</td></tr><tr><td>Han® 24 ES AV</td><td>81</td><td>104</td></tr></table>		a	b	Han® 6 ES AV	20	44	Han® 10 ES AV	34	57	Han® 16 ES AV	54	77.5	Han® 24 ES AV	81	104	
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Han® 16 ES AV	54	77.5																		
Han® 24 ES AV	81	104																		

Possibilities in switch cabinet

Left or right hand mounting in the switch cabinet, therefore allows use of the same pre-prepared interface cable

Internal use on standard rails in the switch cabinet in conjunction with Han-Snap®

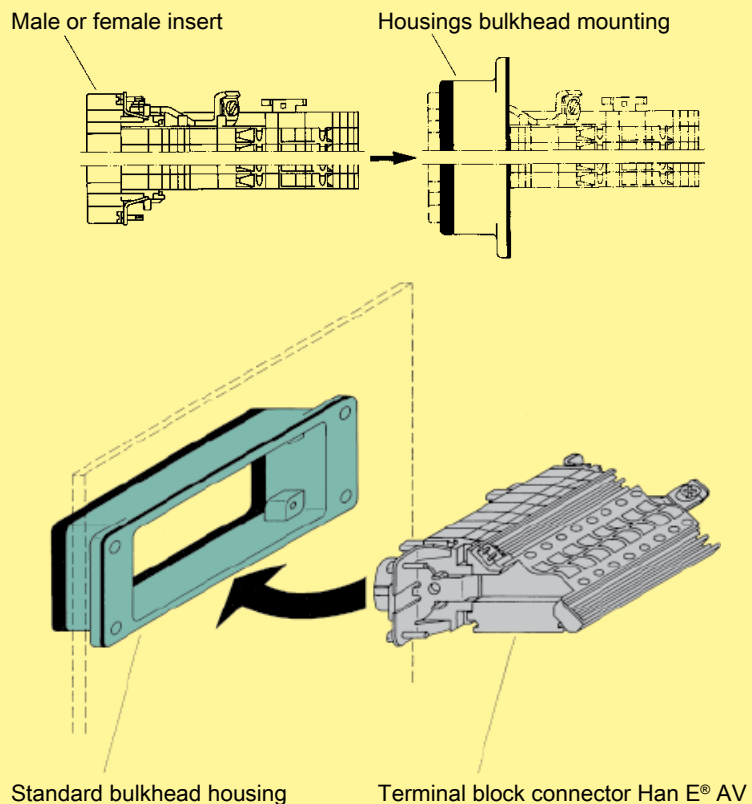
The terminal block connectors can be supplied for left hand or right hand applications. Hence the ground and connecting terminal for contact no. 1 will always be accessible from above in both types of installation.



Assembly of terminal block connectors

The terminal block connector is fixed in the standard bulkhead housing in the normal way.

Han E® AV and Han® ES AV with 16 and 24 pins can be mounted from the inside of the switch cabinet into standard bulkhead housings. Therefore pre-assembly is possible.



Identification

The individual terminals have the same identification as on the mating face. In addition each circuit may be separately labelled with identification strips fitted in the adjacent slots.

Counterparts

For suitable mating inserts of series Han E® and Han® ES with screw, cage-clamp or crimp terminals please refer to the chapter 03.