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DIN Rail-Mountable Sockets
EMG...-SD and SD-.../(LA)

1. Description

DIN rail-mountable sockets in standard format are just as important in modern control cabinets as in simple power distribution systems.

The socket, mounted in an easily accessed position, provides a quick connection for assembly tools, servicing equipment, and other electrical equipment.

A 90 mm (3.543 in.) double socket is available in addition to the 45 mm (1.772 in.) standard socket to provide more connections in the control cabinet.

This socket stands out due to its compact structure. The connection terminals, which are protected against accidental contact, demonstrate the high standard of quality associated with Phoenix Contact. The mains connection terminals (L1, N, and PE) are provided on one side of the socket for easy connection. In addition, a device ID plate can be mounted on the housing.
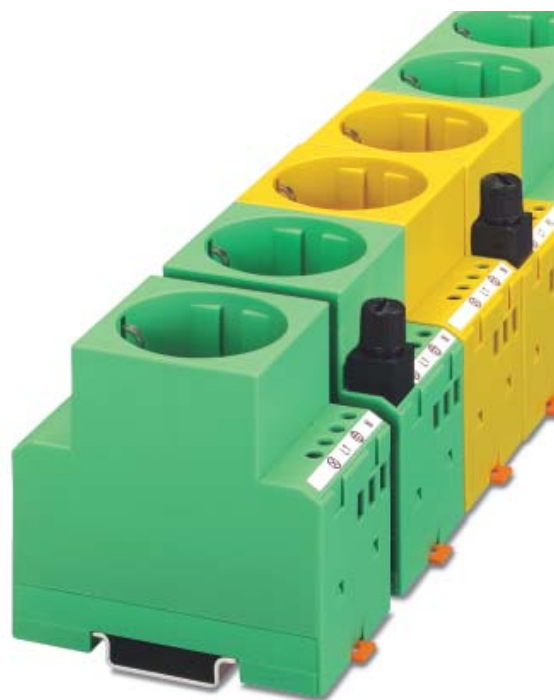
The 45 mm (1.772 in.) socket is available with or without a fuse. The fuse is a 6.3 A, 5 x 20 mm (0.197 x 0.787 in.) glass fuse.

In parts of the system where equipment is still powered up after the main switch has been turned off, this equipment should be marked according to DIN VDE 0105-1 and IEC 204-1/EN 60 204-1/ DIN VDE 0113 Part 1 and German accident prevention regulation VBG 4. A socket version in yellow housing is provided for this type of application.
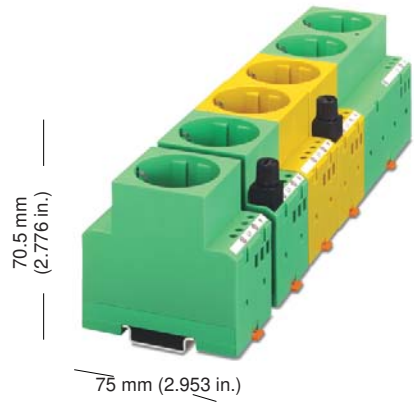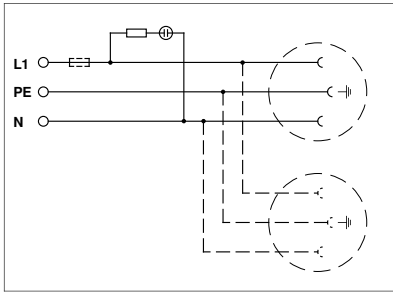
Both 45 mm (1.772 in.) standard and 90 mm (3.543 in.) double housing sockets can be quickly snapped onto the symmetrical DIN rail according to EN 50 022.

The contact protected sockets are available in the following cost-effective versions:

 – Screw or spring-cage connection
 – With or without LED
 – Schuko, Belgian, French or USA version
 – Green, yellow or light gray housing

2. Technical Data

70.5 mm (2.776 in.)

75 mm (2.953 in.)

M 3

7 mm (0.28 in.)

	Solid [mm²]	Stranded [mm²]	AWG	I [A]	U [V]
Connection data	0.2 - 4	0.2 - 2.5	25 - 12	*	250
cULus			30 - 12	15	125

* For current, see Technical Data.

SD-…/LA
EMG…SD

Housing width 45 and 90 mm (1.772 and 3.543 in.)

▲ Ⓝ only SD-D/SC/LA and EMG 45…
cULus only SD-US

Description	Housing Width [mm]		Type	Order No.	Pcs. Pkt.
DIN rail-mountable socket with LED, green, yellow (...YE), and gray (...GY) housing (see type description)	45 mm (1.772 in.)		**SD-D/SC/LA** **SD-D/SC/LA/GY** **SD-D/SC/LA/YE**	**29 64 89 8** **29 63 49 1** **29 63 40 4**	5 5 5
			SD-D/SP/LA **SD-D/SP/LA/GY** **SD-D/SP/LA/YE**	**29 63 30 7** **29 63 48 8** **29 63 47 5**	5 5 5
			SD-F/SC/LA **SD-F/SC/LA/GY** **SD-F/SC/LA/YE**	**29 63 33 6** **29 63 84 4** **29 63 90 9**	5 5 5
			SD-US/SC/LA/GY **SD-BR/SC/LA/GY**	**29 63 86 0** **29 63 88 6**	10 10
			SD-F/SP/LA **SD-F/SP/LA/GY**	**29 63 34 9** **29 63 85 7**	5 5
DIN rail-mountable socket as above. Without LED	45 mm (1.772 in.)		**SD-D/SC** **SD-D/SC/GY** **SD-D/SC/YE**	**29 63 31 0** **29 63 81 5** **29 63 45 9**	5 5 5
			SD-D/SP **SD-D/SP/GY** **SD-D/SP/YE**	**29 63 32 3** **29 63 50 1** **29 63 46 2**	5 5 5
			SD-F/SC **SD-F/SC/GY**	**29 63 35 2** **29 63 82 8**	5 5
			SD-F/SP **SD-F/SP/GY**	**29 63 36 5** **29 63 83 1**	5 5
DIN rail-mountable socket, with glow lamp and fuse 5 x 20 mm (0.197 x 0.787 in.) to 6.3 A maximum; green, yellow (...YE) housing	45 mm (1.772 in.)		**EMG 45-SD-D/LA/SI** **EMG 45-SD-D/LA/SI/YE** **EMG 45-SD-D/LA/SI/2A**	**29 43 73 8** **29 40 82 5** **29 63 89 9**	5 5 5
DIN rail-mountable double socket, with glow lamp, green housing	90 mm (3.543 in.)		**EMG 90-2SD-D/LA**	**29 41 52 3**	1
Device ID plate for sockets in EMG housing	Narrow Normal		**EMG-SGKS** **EMG-GKS**	**29 47 58 5** **29 47 03 5**	50 50

Technical Data	**SD-…/LA** **EMG 90-2SD-D/LA**	**SD-US/SC/LA...**	**EMG 45-SD-D/LA/SI**
Grounding socket	IEC 83/DIN 49 440-1	UL 498	IEC 83/DIN 49 440-1
Connection voltage	250 V AC	125 V AC	250 V AC
Maximum continuous current	10 A DC, 16 A AC	15 A AC	6.3 A AC
Ambient operating temperature range	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
	(-4°F to +140°F)	(-4°F to +140°F)	(-4°F to +140°F)
Contact material	CuZn37	CuZn37	CuZn37
Status indicator	Glow lamp/LED	LED with	Glow lamp
	with series resistor	series resistor	

Type Description of SD-…/LA Sockets:

$$\text{SD} \; - \; \boxed{\text{D}} \; / \; \boxed{\text{SC}} \; / \; \boxed{\text{LA}}$$

Country versions	D = Germany F = France/Belgium US = USA/Canada
Connection method	SC = screw (screw terminal block) SP = spring (spring-cage)
LED	LA = with indicator