



symbolic image

**DATA SHEET**  
**fuse-switch-disconnector**  
**Tytan II Do-50-1/S**  
**without fuse**  
 Article number 09980380



[Internetlink](#)



**Function**

Fuse-switch-disconnectors combine the fuse protection of system parts with switching capability under load as well as when in overload. Tytan II series devices are main fuse switch-disconnectors for Do1 and Do2 fuses. Simultaneous isolation of all phases is ensured by the screwcap-less plug-in technology. In contrast to the earlier screwcap technology, in which perfect contact could not be guaranteed, the mechanics of the series prevent the formation of high transitional resistances and therefore minimise thermal dissipation power. Disconnectors in this design are supplied with coloured fitted cartridges according to the specified rated current.

**Features**

low current heat losses, suitable for fuses Do1 and Do2, finger and back-of-hand proof, large clamping area

**Mounting**

quick fastening to mounting rail, any installation position

**Applications**

The components are suitable for use in power supplies to residential and purpose-built buildings as well as industrial facilities.

**Notes**

All variants are supplied without fuses. These can be obtained separately.

**Accessories**

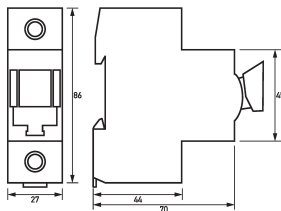
fuse plug sets DSE, restart locks WES, wiring components Do busbar can be cut to length

**Technical Data**

Technical Data	Tytan II Do-50-1/S
Series	Tytan
Number of poles	1
Handling	plug-type technology without screw caps, similar to NH technology
Suitable for fuses	Do1: 1 A*, 2 A, 4 A, 6 A, 10 A, 16 A (* - not standardised)
	load circuit
Specification	switching contact
Rated voltage (AC)	400 V
Rated voltage (DC)	max. 110 V
Rated current (AC)	50 A
Rated short-circuit current	50 kA
max. total rated switching capacity	50 kA
Rated insulation voltage	800 V
Rated impulse withstand voltage	6 kV
Allowed utilization category	AC-22b, DC-21b
Overtoltage class	IV
	screw-type terminal top, bottom (load circuit)
Protection against direct contact	finger and back-of-hand proof

Technical Data	Tytan II Do-50-1/S
Cross section solid	1-wire: 1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connecting capacity flexible	1-wire: 1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
Cross section flexible with ferrule	6 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section stranded	1-wire: 1.5 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Tightening torque	max. 4 Nm
	Do2 (fuse mounting)
	General data
Recovery time	100 ms
Operating position	optional
Mechanical endurance	min. 10000 switching cycles
Electrical endurance	min. 1500 switching cycles
Storage temperature	-25 °C ... 100 °C
Ambient temperature	-25 °C ... 60 °C
Housing type	distribution board housing
Mounting type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
sealable	true
Width	27 mm
Height	86 mm
Depth	70 mm
Width (modules)	1.5
Design requirements/Standards	EN 60947-3
Fire class/creep resistance	Vo, glow wire test g60° / CTI 600
Degree of pollution according to EN 60664	3

**Dimensions**



Dimensional drawing Group view

**Wiring example**



Wiring diagram