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## DATA SHEET

### DHS 4-125

compact switches to isolate the supply for system parts

Article number 09900004



symbolic image



#### Function

Switch-disconnectors and main switches are able to separate electrical devices or even system parts from the mains completely at all poles for maintenance purposes, even under load or overload. For safe, reliable disconnection, the isolating distances run from pole to pole and also from input to output, importantly. Main switches are prescribed for these purposes in some areas by the technical connection conditions of the electrical supply company. The series DHS 4 devices are switch-disconnectors or main switches in four-pole design with advanced N contact. Their design makes them excellent for integration in the optics of the DFS residual current circuit-breakers. The DHS devices can be extended by an auxiliary or error signal switch, which allows for the display and further processing of the switch position.

#### Features

high short-circuit resistance and high switching capacity, double-sided two-tier terminals for large conductor cross-section and busbar, switch position indicator, viewing window for labels

#### Mounting

quick fastening to mounting rail, any installation position

#### Applications

especially suitable for use in main distribution boards in power supplies to large areas, such as campsites, marinas, allotment gardens and showrooms.

#### Notes

In practice, load switches, disconnectors and switch-disconnectors are used as main switches under EN 60947-3. The load switch must switch on, direct and switch off currents under operating conditions in the circuit (including a fixed operation-compatible overload). When switched off, no isolating function is required. A load switch is therefore not suitable for safe disconnection as understood in international installation regulations. Disconnectors must meet the required criteria for an isolating function when switched off, but must switch only currents of insignificant size during operation. The combination of both designs is known as a switch-disconnector, which combines both properties in one and can therefore be used universally for the safe release of electrical systems.

#### Accessories

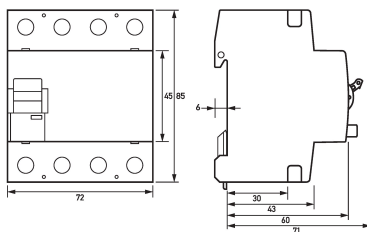
Clamp covers KA, Auxiliary Switches DHi, Software BS DLS/DFS

#### Technical Data

Technical Data	DHS 4-125
Series	DHS 4
Handling	Komplettgerät im Gehäuse
	Load circuit
Specification	Load switch contact
Number of poles (total)	4
Rated voltage (AC)	400 V (360 V ... 440 V)
Rated current (AC)	125 A
Rated short-circuit current	10 kA
max. Output O1 total rated switching capacity	10 kA

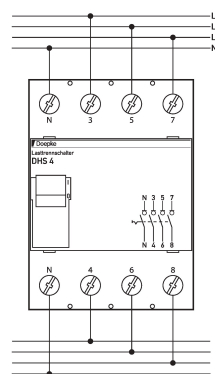
Technical Data	DHS 4-125
Rated insulation voltage	400 V
Rated impulse withstand voltage	4 kV
Allowed utilization category	AC-22a
thermal Backup-fuse OCPD	80 A
short-circuit backup-fuse SCPD	125 A
Back-up fuse type	gG
	Screw-type terminal top, bottom (Load circuit)
Connection C1 Maximum number of conductors per terminal	2
Cross section solid	1-wire: 1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> ... 16 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 stranded	1-wire: 1.5 mm <sup>2</sup> ... 50 mm <sup>2</sup> ; 2-wire: 1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>
General data description	General data
Ambient temperature	-25 °C ... 40 °C
Climate resistance	as per IEC 60068-2-30: damp/heat, cyclical (25°C/55°C; 93%/97% rel. humidity, 28 cycles)
Shock resistance	20 g / 20 ms Duration
Housing type	Distributor housing
Mounting type	Mounting rail
Protection class	IP20 (installed: IP40)
Width	72 mm
Height	85 mm
Depth	75 mm
Installation depth	69 mm
Width (modules)	4
Design requirements/Standards	IEC 60068-2-30, EN 60947-3

### Dimensions



Dimensional drawing Group view

### Wiring example



Wiring diagram