



DATA SHEET
switch-disconnectors
DHS 2-100
compact switches to isolate the supply for system parts
 Article number 09900001



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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 2 devices are switch-disconnectors or main switches in two-pole design. Their design makes them excellent for integration in the optics of the DFS residual current circuit-breakers.

Features

With emergency shut-off function for tripping or disconnection by means of control elements, Monitoring of emergency shut-off function for wire breakage and signalling by LED, High short-circuit resistance and high switching capacity, Double-sided two-tier terminals for large conductor cross-section and busbars, 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

automatic reclosing devices DFA, terminal caps KA, auxiliary switches DHi, restart locks DFS WES, software DBS

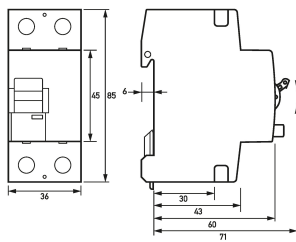
Technical Data

Technical Data	DHS 2-100
Series	DHS 2
Handling	complete device in housing load circuit
Specification	load disconnect contact
Number of poles (total)	2
Rated voltage (AC)	230 V (207 V ... 253 V)
Rated current (AC)	100 A
Rated short-circuit current	10 kA
max. total rated switching capacity	10 kA
Rated insulation voltage	400 V
Rated impulse withstand voltage	4 kV

Subject to technical changes

Technical Data	DHS 2-100
Rated frequency	50 Hz, 60 Hz
Allowed utilization category	AC-22a
Current heat loss per current path	6 W
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)
Neutral conductor position	left or right
Connection C1 Maximum number of conductors per terminal	2
Cross section solid	1-wire: 1.5 mm ² ... 50 mm ² ; 2-wire: 1.5 mm ² ... 16 mm ²
Connecting capacity flexible	1-wire: 1.5 mm ² ... 35 mm ² ; 2-wire: 1.5 mm ² ... 16 mm ²
Cross section stranded	1-wire: 1.5 mm ² ... 50 mm ² ; 2-wire: 1.5 mm ² ... 16 mm ²
	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	distribution board housing
Installation type	Mounting rail (35 mm)
Protection class	IP20 (installed: IP40)
Width	36 mm
Height	85 mm
Depth	75 mm
Installation depth	69 mm
Module widths	2
Design requirements/Standards	EN 60947-3, EN 60068-2-30

Dimensions



Dimensional drawing Group view

STEP file

Wiring example



Wiring diagram

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