



Technical Data

Technical Data	DFS 4 125-4/0,03-B SK NA
Series	DFS 4 B SK NA
Number of poles	4
Residual current type	B
Tripping characteristic curve	SK
Rated current (AC)	125 A
Rated residual current I $\Delta$ n	0.03 A
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	250 V
max. Operating voltage range of test circuit	440 V
Minimum rated operating voltage (Type A/AC operation)	0 V AC
Minimum rated operating voltage (Type B operation)	50 V AC
Non-trip time	10 ms
Tripping frequency	0 Hz ... 150 kHz
Maximum disconnection times	1 · I $\Delta$ n: $\leq$ 300 ms; 5 · I $\Delta$ n: $\leq$ 40 ms
Internal consumption	max. 2.2 W
	auxiliary device (Emergency shut-off device)
Additional device AE1 operating voltage	50 V ... 440 V (AC)
Auxiliary device AE1 Voltage of the monitoring circuit	12 V (DC)
Auxiliary device AE1 Voltage of the monitoring circuit	max. 1 mA (DC)
max. Auxiliary device AE1 Cable length of the monitoring circuit	500 m
	<b>load circuit</b>
Specification	load disconnect contact
min. Contact opening	4 mm
Rated voltage (AC)	230 V, 400 V
Rated current (AC)	125 A
Rated short-circuit current	10 kA
Surge current strength	3 kA
max. Total rated switching capacity	1250 A
Rated insulation voltage	400 V
Rated impulse withstand voltage	4 kV
Rated frequency	50 Hz
Current heat loss per current path	11.2 W
Thermal Backup-fuse OCPD	80 A
Short-circuit backup-fuse SCPD	125 A
Back-up fuse type	gG
	<b>Auxiliary switch (additional emergency shut-off device)</b>
Specification	switching contact
Number of poles (total)	1
Contact assignment	1 CO
Rated voltage (AC)	12 V ... 230 V

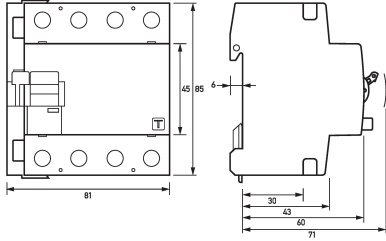
Subject to technical changes

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Rated voltage (DC)	12 V ... 110 V
Rated impulse withstand voltage	4 kV
	<b>screw-type terminal top and bottom (load circuit)</b>
Neutral conductor position	left
Protection against direct contact	DGUV V3, VDE 0660-514, finger and back-of-hand proof
Connection C1 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
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> ... 50 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>
Cross section AWG, solid	15 ... 1
Cross section AWG, stranded	15 ... 1
Cross section AWG, flexible	15 ... 1
Cross section AWG, flexible with ferrule	15 ... 1
Tightening torque	2.5 Nm ... 3 Nm
	<b>screw-type terminal top and bottom (Emergency shut-off device, auxiliary switches)</b>
Allowed types of wires	solid conductor, flexible conductor, stranded conductors with ferrule
Connection C2 Maximum number of conductors per terminal	2 (conductors of same type and cross-section)
Cross section solid	1-wire: 1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section flexible with ferrule	1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section stranded	1-wire: 1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG, solid	17 ... 16
Cross section AWG, stranded	17 ... 16
Cross section AWG, flexible with ferrule	17 ... 16
Tightening torque	max. 0.8 Nm
	<b>General data</b>
Operating position	optional
max. Operating altitude above MSL	2000 m
Mechanical endurance	min. 5000 cycles
Electrical endurance	min. 2000 cycles
Surrounding atmosphere	normal environmental conditions
Storage temperature	-35 °C ... 75 °C
Ambient temperature	-25 °C ... 40 °C
Climate resistance	according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)
Shock resistance	20 g / 20 ms Duration
Fatigue limit	> 5 g (f ≤ 80 Hz, duration > 30 min.)
Housing type	distribution board housing
Installation type	Mounting rail (35 mm)
Housing material	thermoplastic
Protection class	IP20 (installed: IP40)
sealable	true
Width	81 mm
Height	85 mm
Depth	75 mm
Installation depth	69 mm

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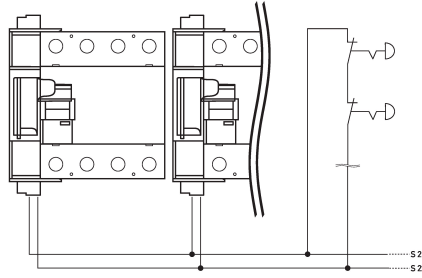
Technical Data		DFS 4 125-4/0,03-B SK NA
Module widths		4.5
Weight		0.531 kg
Design requirements/Standards	VDE 0664-10, VDE 0664-40, ÖVE/ÖNORM E 8601, DIN EN 61008-1, EN 62423	
Degree of pollution		2

**Dimensions**

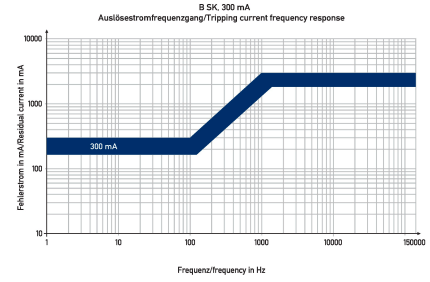


Dimensional drawing Group view

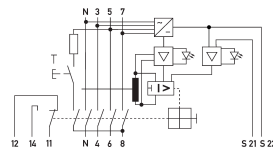
**Wiring example**



**Diagrams**



Characteristic B SK 300 mA



Wiring diagram

Wiring diagram additional file