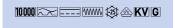


DATA SHEET

DFS 4 040-4/0,03-B SK R AC/DC sensitive type B Article number 09134988



Internetlink



Function

Residual current circuit-breakers (RCCBs) are components for implementing protective measure "Automatic disconnection of the power supply" as per VDE 0100 part 410 or corresponding international installation regulations. Series DFS 4 devices are compact two or fourpole residual current circuit-breakers. In the standard design, they only take up four module width units of space. Although DFS 4 devices for AC and pulsating DC residual currents are actually designed for three-phase networks, they can also be used in single-phase networks. However, in addition to these, special variants are also available for single or three-phase operation in the form of the AC/DC sensitive designs (type B, type B+). In spite of the compact dimensions, a number of different tripping currents and characteristics are available at rated currents, depending on the design, up to 125 A. They also have large two-tier terminals for large conductor cross-sections, a practical multifunctional switch toggle and can be provided with pre-prepared labels using free-of-charge software. DFS 2 and DFS 4 devices with residual current characteristic B detect smooth DC residual currents as well as all other type B residual currents as per IEC 60755. The operating voltage required for this is taken from the mains supply. Correct power supply is ensured when the voltage between the mains conductors is ≥ 50 V. Type A residual currents are detected regardless of the mains voltage. Furthermore, these residual current circuit-breakers completely detect residual currents of all frequencies up to 100 kHz. With this wide frequency range for residual current detection, these devices more than meet the requirements for the design standards for type B residual current circuitbreakers. For residual current circuit-breakers with characteristic curve SK, the frequency response of the tripping current is designed so that residual currents with high frequencies, such as in the clock frequency range for frequency converters, as opposed to the rated frequency are detected with significantly reduced sensitivity. Undesired trips caused by leakage currents can therefore be widely avoided. However, fire protection depending on the rated residual current of the switch (0.03 A, 0.1 A or 0.3 A) is only provided for residual currents with frequencies up to 1 kHz, 300 Hz or 100 Hz, while the devices with tripping current frequency response B+ or NK offer protection over the entire tripping frequency range up to 20 kHz or 150 kHz, respectively. Devices in the standard design are intended for monitoring circuits with a rated voltage of 230 V/400 V and a rated frequency of 50 Hz.

Features

high immunity against transient leakage and residual currents thanks to slow tripping response, meets the requirements of design regulations VDE o664-10, VDE o664-40, ÖVE/ÖNORM E 8601, AC/DC sensitive for residual currents with frequencies and mixed frequencies of o Hz (smooth direct current) up to 150 kHz, electromagnetic compatibility in accordance with VDE o664-30 and VDE o839-6-2 (interference resistance for industrial applications), high availability even of voltage-independent detection of smooth DC residual current and AC residual current with frequencies ≠ 50/60 Hz thanks to full functional compatibility with mains voltages from at least 50 V AC on any two active conductors, mains-voltage-independent tripping when type A residual currents occur, compact design for all rated currents, high short-circuit resistance, double-sided two-tier terminals for large conductor cross-section and busbar, switch position indicator, viewing window for labels, multifunction switch toggle with three positions: "on", "off" and "tripped", also available in the "HD" design, Neutral conductors with standard design left, for two-terminal-pair devices type A/AC/F up to 125 A and type B/B+ up to 80 A; N-right available at no extra charge.

Mounting

quick fastening to mounting rail, any installation position, supply preferably from above

Applications

Commercial and industrial installations with TT, TN-S and TN-C-S systems, where power electronics equipment is used without galvanic isolation from the mains, e.g. frequency converters, switching power supplies, high-frequency converters, photovoltaic installations and UPS equipment with frequency converters without transformers.

Notes

suitable for use in 50 Hz AC networks, RCCBs for other frequencies available upon request, Not designed for use in direct current networks or on the output side of controlled electrical equipment such as frequency converters.

Accessories

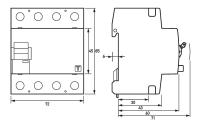
Automatic reclosing devices DFA, Clamp covers KA, Information stickers HAS, Auxiliary Switches DHi, Software BS DLS/DFS

Technical Data

Series DFS 4 B SK Number of poles Rasidual current type B Tripping characteristic curve Active type A Description Minimum rated operating voltage (Type A/AC operation) To max Sutput On total rated voltage (A/C) Quality Substitution operation A minimum rated operating voltage (Type A/AC operation) A minimum rated operating operating operating operating operating operating operating operating operating operation operating operat	Technical Data	DFS 4 040-4/0,03-B SK R
Residual current type Tripping characteristic curve SK Rated current (AC) Ap A Rated residual current Lian Short time delayed true Selective min. Operating voltage range of test circuit max. Operating voltage range of test circuit max. Operating voltage range of test circuit max. Operating voltage range of test circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) To max. 2.2 W To A operation voltage Rated on A operation voltage A op A Rated on A operation voltage A op A Rated insulation voltage A op A So op	Series	DFS 4 B SK
Tripping characteristic curve Rated current (AC) Rated current (AC) Rated current (AC) Rated residual current tan Robot-time delayed Robot-time de	Number of poles	4
Rated current (AC) Rated residual current IΔn Short-time delayed true Selective min. Operating voltage range of test circuit max. Operating voltage range of test circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type B operation) Non-trip time 10 ms Neutral conductor position Tripping frequency 0 Nz xgo kHz Maximum disconnection times 1 · IΔn: xgo ms, 5 · IΔn: xgo ms Internal consumption 1 · IΔn: xgo ms, 5 · IΔn: xgo ms Internal consumption Load circuit Specification Load switch contact min. Output Oz Contact opening 4 mm Rated voltage (AC) Rated voltage (AC) Rated short-circuit current 1 ok A Surge current strength max. Output Oz total rated switching capacity Rated insulation voltage 4 kV Rated insulation voltage 4 kV Rated insulation voltage Ra	Residual current type	В
Rated residual current I∆n Short-time delayed Short	Tripping characteristic curve	SK
Short-time delayed true Selective false Inin. Operating voltage range of test circuit Minimum rated operating voltage range of test circuit Minimum rated operating voltage range of test circuit Minimum rated operating Voltage (Type A/AC operation) Minimum rated operating Voltage (Type A/AC operation) Minimum rated operating Voltage (Type Bo peration) Non-trip time 10 ms Neutral conductor position Tripping frequency 10 Hz 150 kHz Maximum disconnection times 11 lan: 5 900 ms; 5 - lan: 5 40 ms Internal consumption Rada: 2.2 W Load circuit Specification Load switch contact min. Output O1 Contact opening Rated voltage (AC) Rated short-circuit current 10 kA Surge current (AC) Rated short-circuit current 10 kA Surge current strength Rated insulation voltage Rated frequency So Hz Current heat loss per current 13 W Serve-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm²	Rated current (AC)	40 A
Selective min. Operating voltage range of test circuit max. Operating voltage range of test circuit max. Operating voltage range of test circuit williams rated operating voltage (Type A/AC operation) voltage (Type A/AC operation) voltage (Type B operation) voltage voltage voltage voltage (Type B operation) voltage voltage voltage (Type B operation) voltage volta	Rated residual current I∆n	o.o ₃ A
min. Operating voltage range of test circuit max. Operating voltage range of test circuit max. Operating voltage range of test circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type A/AC operation) Non-trip time 10 ms Neutral conductor position 11/piping frequency 10 Hz 150 kHz Maximum disconnection times 11 L0n: \$300 ms; \$5 \ L0n: \$40 ms 1 nternal consumption 10 Load circuit Specification 10 Load circuit Specification 10 Load circuit Specification 11 Load switch contact 11 L0n: \$40 ms 12 ms 12 ms 13 ms 14 ms 15 ms 16 ms 16 ms 17 ms 18 ms 1	Short-time delayed	true
test circuit max. Operating voltage range of test circuit Minimum rated operating voltage (angle AAC operation) Minimum rated operating voltage (Type B operation) Minimum rated operating	Selective	false
test circuit Minimum rated operating voltage (Type A/AC operation) Minimum rated operating voltage (Type B/AC operation) Non-trip time 10 ms Neutral conductor position Tripping frequency 0 Hz150 kHz Maximum disconnection times 1 · IΔn: ≤ 300 ms; 5 · IΔn: ≤ 40 ms Internal consumption max. 2.2 W Load circuit Specification Load switch contact min. Output O1 Contact opening Rated voltage (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated voltage insulation voltage Rated voltage insulation voltage Rated voltage insulation vo		150 V
woltage (Type A/AC operation) Minimum rated operating voltage (Type B operation) Non-trip time 10 ms Neutral conductor position right Tripping frequency 0 Hz 150 kHz Maximum disconnection times 1 · I Δn: 5 goo ms; 5 · I Δn: 5 40 ms Internal consumption max. 2.2 W Load switch contact Specification Load switch contact min. Output Oz Contact opening Rated voltage (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output Oz total rated switching capacity Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated frequency Current heat loss per current 1 a) W Path Thermal Backup-fuse OCPD 40 A Socrew-type terminal top and bottom (Load circuit) Protection against direct contact DGUV 3, VDE 0660-514, finger-safe and safe for back-of-hand Connection Czi Maximum 1 consumption 2 (conductors of same type and cross-section) number of conductors per terminal Cross section stranded 1 -wire: 1.5 mm² 50 mm²; 2 -wire: 1.5 mm² 16 mm² Cross section stranded 1 -wire: 1.5 mm² 50 mm²; 2 -wire: 1.5 mm² 16 mm² Gross section stranded 1 -wire: 1.5 mm² 50 mm²; 2 -wire: 1.5 mm² 16 mm² Gross section stranded 1 -wire: 1.5 mm² 50 mm²; 2 -wire: 1.5 mm² 16 mm² General data		250 V
voltage (Type B operation) Non-trip time 10 ms Neutral conductor position Tripping frequency Abximum disconnection times Internal consumption Load circuit Specification Load switch contact min. Output O1 Contact opening Rated voltage (AC) Rated short-circuit current 10 kA Surge current strength Max. 2 upun V Rated insulation voltage Rated finesplase withstand voltage Rated finesplase vithstand		o V AC
Neutral conductor position Tripping frequency		50 V AC
Tripping frequency Maximum disconnection times 1 · I Δn: ≤ 300 ms; 5 · I Δn: ≤ 40 ms Internal consumption Ead circuit Specification Load circuit Specification Load witch contact min. Output O1 Contact opening Rated voltage (AC) Rated dvoltage (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage 4 kV Rated impulse withstand voltage Rated impulse withstand voltage Rated insulation voltage 4 kV Current heat loss per current path thermal Backup-fuse OCPD 40 A Socrew-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² 1-w	Non-trip time	10 ms
Maximum disconnection times 1 · I ∆n: ≤ 300 ms; 5 · I ∆n: ≤ 40 ms Internal consumption max. 2.2 W Load circuit Specification Load switch contact min. Output O1 Contact opening 4 mm Rated voltage (AC) 230 V, 400 V Rated current (AC) 40 A Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated 500 A switching capacity 400 V Rated insulation voltage 4 kV Rated frequency 50 Hz Current heat loss per current path 1.3 W path 1.3 W thermal Backup-fuse OCPD 40 A short-circuit backup-fuse SCPD 100 A Back-up fuse type gG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE o660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal connection Cn douctors per terminal 1 - wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section solid 1 - wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded	Neutral conductor position	right
Internal consumption Max. 2.2 W	Tripping frequency	0 Hz 150 kHz
Load circuit Specification Load switch contact min. Output O1 Contact opening Rated voltage (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated frequency 50 Hz Current heat loss per current path thermal Backup-fuse OCPD 40 A Short-circuit backup-fuse SCPD 100 A Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2-5 Nm 3 Nm General data	Maximum disconnection times	1 · I∆n: ≤ 300 ms; 5 · I∆n: ≤ 40 ms
Specification Load switch contact min. Output O1 Contact opening Rated voltage (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated system theat loss per current 1.3 W Rated system theat loss per current path thermal Backup-fuse OCPD 40 A short-circuit backup-fuse SCPD Back-up fuse type Grew-type terminal bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data	Internal consumption	max. 2.2 W
min. Output O1 Contact opening Rated voltage (AC) Rated voltage (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated insulation voltage Rated insulation voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated frequency 50 Hz Current heat loss per current path thermal Backup-fuse OCPD 40 A short-circuit backup-fuse SCPD 100 A Back-up fuse type gG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque General data description		Load circuit
Rated voltage (AC) Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated requency 50 Hz Current heat loss per current path thermal Backup-fuse OCPD 40 A Short-circuit backup-fuse SCPD 100 A Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² General data description General data	Specification	Load switch contact
Rated current (AC) Rated short-circuit current 10 kA Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated insulation voltage 4 kV Rated ingulse withstand voltage Rated frequency 50 Hz Current heat loss per current path thermal Backup-fuse OCPD 40 A short-circuit backup-fuse SCPD Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm², 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description	min. Output O1 Contact opening	4 mm
Rated short-circuit current Surge current strength 3 kA max. Output O1 total rated switching capacity Rated insulation voltage Rated impulse withstand voltage Rated impulse withstand voltage Rated sper current 20 kV Rated sper current path thermal Backup-fuse OCPD short-circuit backup-fuse SCPD Back-up fuse type Screw-type terminal top and bottom (Load circuit) Protection against direct contact Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque General data General data	Rated voltage (AC)	230 V, 400 V
Surge current strength max. Output O1 total rated switching capacity Rated insulation voltage Rated impulse withstand voltage Rated frequency Current heat loss per current path thermal Backup-fuse OCPD short-circuit backup-fuse SCPD Back-up fuse type GC Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque General data description General data	Rated current (AC)	40 A
max. Output O1 total rated switching capacity Rated insulation voltage 4,60 V Rated impulse withstand voltage 4,kV Rated frequency 50 Hz Current heat loss per current 1.3 W path 1.3 W short-circuit backup-fuse OCPD 40 A short-circuit backup-fuse SCPD 100 A Back-up fuse type 9 9G Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand connection C1 Maximum 100 A Serventian 100 A Se	Rated short-circuit current	10 kA
switching capacity Rated insulation voltage Rated impulse withstand voltage Rated frequency So Hz Current heat loss per current path thermal Backup-fuse OCPD \$\text{4 o A}\$ short-circuit backup-fuse SCPD \$\text{3 o A}\$ Back-up fuse type \$\text{3 G} Screw-type terminal top and bottom (Load circuit)} Protection against direct contact \$\text{5 GUV V3, VDE 0660-514, finger-safe and safe for back-of-hand}\$ Connection C1 Maximum number of conductors per terminal Cross section solid \$\text{1-wire: 1.5 mm^2 50 mm^2; 2-wire: 1.5 mm^2 16 mm^2}\$ Cross section stranded \$\text{1-wire: 1.5 mm^2 50 mm^2; 2-wire: 1.5 mm^2 16 mm^2}\$ Tightening torque \$\text{2.5 Nm 3 Nm}\$ General data description	Surge current strength	3 kA
Rated impulse withstand voltage Rated frequency 50 Hz Current heat loss per current path thermal Backup-fuse OCPD 40 A short-circuit backup-fuse SCPD Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data		500 A
Rated frequency Current heat loss per current path thermal Backup-fuse OCPD 4o A short-circuit backup-fuse SCPD Back-up fuse type GG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data	Rated insulation voltage	400 V
Current heat loss per current path thermal Backup-fuse OCPD short-circuit backup-fuse SCPD Back-up fuse type gG Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE o660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data	Rated impulse withstand voltage	4 kV
thermal Backup-fuse OCPD short-circuit backup-fuse SCPD 100 A Back-up fuse type G Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data	Rated frequency	50 Hz
short-circuit backup-fuse SCPD Back-up fuse type G Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE o66o-514, finger-safe and safe for back-of-hand Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description General data	·	1.3 W
Back-up fuse type Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE o660-514, finger-safe and safe for back-of-hand 2 (conductors of same type and cross-section) number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² General data description General data	·	40 A
Screw-type terminal top and bottom (Load circuit) Protection against direct contact DGUV V3, VDE o66o-514, finger-safe and safe for back-of-hand 2 (conductors of same type and cross-section) number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description General data	short-circuit backup-fuse SCPD	100 Å
Protection against direct contact DGUV V3, VDE 0660-514, finger-safe and safe for back-of-hand 2 (conductors of same type and cross-section) number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description General data	Back-up fuse type	
Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description General data		Screw-type terminal top and bottom (Load circuit)
number of conductors per terminal Cross section solid 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Cross section stranded 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² Tightening torque 2.5 Nm 3 Nm General data description General data	_	-
Connecting capacity flexible 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm² 1-wire: 1.5 mm² 50 mm²; 3 mm² 1-wire: 1.5 mm² 16 mm² 2.5 Nm 3 Nm General data description General data	number of conductors per	2 (conductors of same type and cross-section)
Cross section stranded1-wire: 1.5 mm² 50 mm²; 2-wire: 1.5 mm² 16 mm²Tightening torque2.5 Nm 3 NmGeneral data descriptionGeneral data	Cross section solid	1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
Tightening torque2.5 Nm 3 NmGeneral data descriptionGeneral data	Connecting capacity flexible	1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
General data description General data	Cross section stranded	1-wire: 1.5 mm ² 50 mm ² ; 2-wire: 1.5 mm ² 16 mm ²
General data description General data	Tightening torque	2.5 Nm 3 Nm
Operating position any	General data description	General data
	Operating position	any

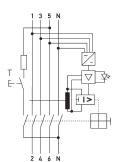
Technical Data	DFS 4 040-4/0,03-B SK R
max. Operating altitude above MSL	2000 M
Mechanical endurance	min. 5000 cycles
Electrical endurance	min. 2000 cycles
Surrounding atmosphere	normal environmental conditions
Storage temperature	-35 °C 75 °C
Ambient temperature	-25 °C 40 °C
Climate resistance	according 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 ≤ 8o Hz, duration > 30 min.)
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Thermoplastic resin
Protection class	IP20 (installed: IP40)
sealable	true
Width	72 mm
Height	85 mm
Depth	75 mm
Installation depth	69 mm
Width (modules)	4
Design requirements/Standards	VDE 0664-10, VDE 0664-40, ÖVE/ÖNORM E 8601
Certifications	VDE
Degree of pollution according to EN 60664	2

Dimensions

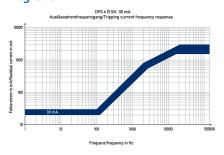


Dimensional drawing Group view

Wiring example



Diagrams



Characteristic B SK 30 mA

Wiring diagram