

DATA SHEET

residual current operated circuit-breakers with integral overcurrent protection

DRCBO 4 C32/0,10/3N-PV

AC/DC sensitive, for PV installations, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 20 kHz

Article number 09948477



Function

RCCB/MCB combinations (RCBO) are residual current operated circuit-breakers with integral overcurrent protection for protecting systems in the event of a short-circuit and overload as per the requirements of VDE 0100 Part 430, and for protecting persons, farm animals and material items in the event of earth leakage currents as per VDE 0100 Part 410. Overload tripping occurs at currents in the overload range through a short-time delayed, heat-sensitive bimetal trip and at short-circuit currents through an electromagnetic instantaneous trip. DRCBO 4s have a rated switching capacity of 6 kA. Residual current circuit-breakers of the PV variant have been specially developed for use in PV systems and detect soft continuous residual currents as well as all other residual currents at frequencies of up to 20 kHz. With a short time delay optimised for PV, the AC/DC-sensitive residual current circuit-breaker is resistant to overcurrents. It therefore offers higher system availability due to fewer false trips. RCBOs with tripping characteristic C are primarily suitable for power circuits with high switch-on or peak currents, as their short-circuit trip value is five to ten times the rated current. Devices in standard design are intended for monitoring circuits with a rated voltage of 230 V or 400 V and a rated frequency of 50 Hz.

Features

AC/DC sensitive for residual currents with frequencies of o Hz (smooth direct current) up to 20,000 Hz, mains-voltage-independent tripping when type A residual currents occur, compact design for all rated currents, switch position indicator, separate indication of tripping cause, strain-relief clamps with a wide terminal cross-section range on both connection sides, neutral conductor right, labelling area

Mounting

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

Applications

RCBOs of the PV variant are suitable for private, commercial and industrial installations with TN-S, TT and TN-C-S systems in which photovoltaic systems are installed.

Notes

suitable for use in 50 Hz AC networks, not suitable for use on the output side of controlled electrical equipment such as frequency converters

Accessories

wiring components DRCBO 4-busbars 4-pole

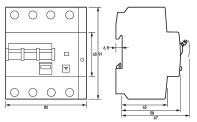
Technical Data

Technical Data	DRCBO 4 C32/0,10/3N-PV
Series	DRCBO 4 PV
Number of poles	3+N
Residual current type	B+
Rated current (AC)	32 A
Rated residual current I∆n	0.1 A
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	100 V

max. Operating voltage range of test circuit sets circuit	Technical Data	DRCBO 4 C32/0,10/3N-PV
test circuit Minimum rated operating 0 V AC		
voltage (Type A/AĆ operation) 50 V AC voltage (Type B operation) 35 ms Non-trip time 15 ms Tripping frequency 0 Hz 20 kHz Maximum disconnection times 1 - 1 Δm ≤ 300 ms; 5 · 1 Δm ≤ 40 ms Tripping characterist C Supply side up Operating voltage (AC) max. 440 V Internal consumption max. 2, 3 W Specification load disconnect contact Rated voltage (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Rated insulation voltage 4,40 V Rated insulation voltage 4,40 V Rated ingulse withstand voltage 4,40 V Rated frequency 5 bHz Current heat loss per current path 5.1 W Back-up fuse type 9G Overvoltage class III Back-up fuse type 9G Overvoltage class III Back-up fuse type 9G Overvoltage class<		31
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voltage (Type B Operation) 15 ms Tripping frequency 0 Hz 20 kHz Maximum disconnection times 1 · I Ani: \$ 300 ms; 5 · I Ani: \$ 40 ms Tripping fracteristic C Supply side up Operating voltage (AC) max. 440 V Internal consumption max. 3 W Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated current (AC) 33 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity 6 kA Gapacity 30 Hz Rated insulation voltage 4 kW Rated insulation voltage 4 kW Rated insulation voltage 9 kHz Current heat loss per current path 5 hW Backup fuse type 9G Overvoltage class III Gornection Cs. Maximum 2 (conductors of same type and cross-section) number of conductors per terminal 2 vivire 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Cross section solid 1 -wire: 1 mm² 25 mm²; 2-wire: 1 mm²	voltage (Type A/AC operation)	
Non-trip time		50 V AC
Tripping frequency		
Maximum disconnection times	Non-trip time	<u> </u>
Tripping characteristic	Tripping frequency	o Hz 20 kHz
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Operating voltage (AC) max. 440 V Internal consumption max. 1.3 W Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated current (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rade switching 6 kAA Capacity Rated insulation voltage 4,0 V Rated frequency 50 Hz Current heat loss per current path 1 S.1 W Back-up fuse type 1 GG Overvoltage class III Screw-type terminal top, bottom (load circuit) Neutral conductor position 1 Gondectors per terminal conductors per terminal conduct	Tripping characteristic	С
Internal consumption max. 1.3 W Ioad circuit	Supply side	υp
Specification load disconnect contact	Operating voltage (AC)	max. 440 V
Specification load disconnect contact Rated voltage (AC) 230 V, 400 V Rated current (AC) 32 A Rated current (AC) 32 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity Rated insulation voltage 440 V Rated insulation voltage 440 V Rated impulse withstand voltage 5.1 W Rated fingules withstand voltage 9 G Rated frequency 50 HZ Current heat loss per current path 9.1 W Rated frequency 9 G Rower of Server of Se	Internal consumption	max. 1.3 W
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Height 91 mm Depth 73.5 mm		<u> </u>
Depth 73.5 mm		
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IIISTATIATION DECITION	Installation depth	67 mm

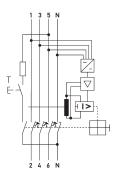
Technical Data	DRCBO 4 C32/0,10/3N-PV
Module widths	4.5
Weight	o.535 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2
Certifications	VDE

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram