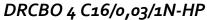


# **DATA SHEET**

# residual current operated circuit-breakers with integral overcurrent protection



AC/DC sensitive, for heat pumps, increased surge-current resistant, short-time delayed, lightning resistant, fire prevention up to 20 kHz Article number 09949524



6000 --- WW kHz (\$\$ KV

#### **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. RCCBs of the HP variant were specially developed to protect heat pumps and detect smooth DC residual currents and all other residual currents with frequencies up to 20 kHz. Thanks to its HP-optimised slow-blow, the AC-DC sensitive residual current circuit-breaker is resistant to surge currents. It therefore offers higher system availability by reducing faulty tripping. 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 HP variant are suitable for private, commercial and industrial installations with TN-S, TT and TN-C-S systems in which heat pumps are used.

#### 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 2-pole, wiring components DRCBO 4-busbars 4-pole

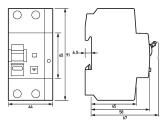
### Technical Data

Technical Data	DRCBO 4 C16/0,03/1N-HP
Series	DRCBO 4 HP
Number of poles	1+N
Residual current type	B+
Rated current (AC)	16 A
Rated residual current I∆n	o.o3 A
Short-time delayed	true
Selective	false
min. Operating voltage range of test circuit	170 V

max. Operating voltage range of tests circuit  Minimum rated operating voltage (Type A/AC operation)  Minimum rated operating voltage (Type A/AC operation)  Minimum rated operating sp V AC voltage (Type B operation)  Non trip time 15 ms  Tripping requency 0 Hz 20 kHz  Maximum disconnection times 2 1-lân: \$ 30 ms; \$ 1-lân: \$ 40 ms  Tripping characteristic C  Supply side up  Operating voltage (AC)  Internal consumption max. 1,3 W  Internal consumption load discount  Specification load disconnect contact  Rated voltage (AC) 230 V  Rated short-circuit current 6 kA  Surge current strength 3 kA  max. Total rated switching 6 kA  Rated dispulse withstand voltage 440 V  Rated impulse withstand voltage 440 V  Rated impulse withstand voltage 4 kV  Rated frequency 50 Hz  Current heat loss per current 2,3 W  Devorblage class III  Neutral conductor position right  Connection C.1 Maximum 10 (and circuit)  Neutral conductor position 11 (and circuit)  Neutral conductor position 11 (and circuit)  Neutral conductor position 11 (and circuit)  Operating position 12 (and circuit)  Mechanical endurance 13 (and circuit)  Mechanical endurance 14 (and circuit)  Mechanical endurance 15 (and circuit)  Mechanical endurance 16 (and circuit)  Mechanical endurance 17 (and circuit)  Mechanical endurance 18 (and circuit)  Mechanical endurance 19 (and circuit)  Mechanica	Technical Data	DRCBO 4 C16/0,03/1N-HP
test circuit  Minimum rated operating voltage (Type A/AC operation)  Minimum rated operating so V AC voltage (Type A/AC operation)  Minimum rated operating sources of the provided of the pro		
voltage (Type A)AC operation) Minimum rated operating voltage (Type B operation) Non-trip time 15 ms Tripping frequency 0 Hz 20 kHz Maximum disconnection times 1 - IAm: \$300 ms; \$ - IAm: \$40 ms Tripping characteristic C Operating voltage (AC) max. 253 V Internal consumption max. 1.3 W Operating voltage (AC) max. 253 V Internal consumption max. 1.3 W  Specification Mod disconnect contact Rated voltage (AC) 230 V Rated current (AC) 16 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching 6 kA Surge current strength 3 kA max. Total rated switching 4 kV Rated insulation voltage AV Rated voltage Rated Voltage Rated Voltage Rated Rated Voltage Rated Rated Voltage Rated Rated Rate		3
Minimum rated operation   So V AC   voltage (Type B operation)   So V AC   Non-trip time   15 ms   Non-trip time   16 ms   Non-trip time   16 ms   Non-trip time   N	Minimum rated operating	o V AC
voltage (Type B operation)         15 ms           Tripping frequency         0 Hz ± 0 kHz           Maximum disconnection times         1 · 1An · ≤ 900 ms; 5 · 1An · ≤ 40 ms           Tripping fracteristic         C           Supply side         up           Operating voltage (AC)         max. ± 253 V           Internal consumption         max. 1.3 W           Internal consumption         load disconnect contact           Rated voltage (AC)         ± 230 V           Rated voltage (AC)         ± 6 A           Rated voltage (AC)         ± 6 A           Rated voltage (AC)         ± 6 A           Rated short-circuit current         6 kA           Surge current strength         3 kA           max. Total rated switching         6 kA           capacity         4 kV           Rated insulation voltage         4 kV           Rated insulation voltage         4 kV           Rated frequency         50 Hz           Current heat loss per current path         ± 3 W           Back-up fuse type         9G           Overvoltage class         III           Back-up fuse type         9G           Overvoltage class         III           Gomection Cs. Maximum         2 (cond	voltage (Type A/AC operation)	
Non-trip time         15 ms           Tripping frequency         0 Hz ao kHz           Maximum disconnection times         1 · 1Δn: ≤ 300 ms; 5 · 1Δn: ≤ 40 ms           Tripping characteristic         C           Supply side         up           Operating voltage (AC)         max. 33 V           Internal consumption         load directit           Specification         load disconnect contact           Rated voltage (AC)         230 V           Rated current (AC)         16 A           Rated short-circuit current         6 kA           Surge current strength         3 kA           max. Total rated switching         6 kA           Surge current strength         3 kA           max. Total rated switching         6 kA           Surge current strength         3 kA           Rated insulation voltage         4 kV           Rated impulse withstand voltage         4 kV           Rated impulse withstand voltage         9 k2           Gurrent heal to spe current         2 3W           Back-up fuse type         96           Overvoltage class         III           Neutral conductor position         right           Connection Ca Maximum         2 (conductors of same type and cross-section)		50 V AC
Tripping frequency		
Maximum disconnection times         1 · l∆n: ≤ 300 ms; 5 · l∆n: ≤ 40 ms           Tripping characterists         C           Operating voltage (AC)         max. 253 V           Internal consumption         max. 3,3 W           Specification         load disconnect contact           Rated voltage (AC)         230 V           Rated short-circuit current         6 kA           Surge current strength         3 kA           max. Total rated switching capacity         6 kA           Rated dissolation voltage         4,40 V           Rated insulation voltage         4,40 V           Rated insulation voltage         4,40 V           Rated frequency         50 Hz           Current heat loss per current path         3,3 W           Back-up fuse type         3G           Overvoltage class         III           Back-up fuse type         3G           Overvoltage class         III           Neutral conductor position         right           Connection Ca Maximum         2 (conductors of same type and cross-section)           number of conductors per terminal         1 - wire: 1 mm² 25 mm²; 2 - wire: 1 mm² 10 mm²           Consection stranded         1 - wire: 1 mm² 25 mm²; 2 - wire: 1 mm² 10 mm²           Cross section stranded </td <td>· ·</td> <td></td>	· ·	
Tripping characteristic C Supply side UP Operating voltage (AC) Internal consumption  Max. 13 W Ioad directiv Specification Ioad disconnect contact Rated voltage (AC) Rated current (AC) Rated current (AC) Rated current (AC) Rated short-circuit current G Rated short-circuit current G Rated short-circuit current G Rated insulation voltage Rated voltage voltage voltage voltage Rated	Tripping frequency	o Hz 20 kHz
Supply side         up           Operating voltage (AC)         max. 253 V           Internal consumption         load circuit           Specification         load disconnect contact           Rated voltage (AC)         230 V           Rated current (AC)         16 A           Rated short-circuit current         6 kA           Surge current strength         3 kA           max. Total rated switching capacity         6 kA           Rated insulation voltage         440 V           Rated impulse withstand voltage         4 kV           Rated impulse withstand voltage         4 kV           Rated frequency         50 HZ           Current heat loss per current path         2 3 W           Back-up fuse type         gG           Overvoltage class         III           Screw-type terminal top, bottom (load circuit)           Neutral conductor position         right           Connection C <sub>1</sub> Maximum         2 (conductors of same type and cross-section)           number of conductors per terminal         1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²           Conse section solid         1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²           Consection C <sub>1</sub> Maximum         2 mm² 2 mm², 2-wire: 1 mm² 10 mm²           Cross section stran	Maximum disconnection times	1 · IΔn: ≤ 300 ms; 5 · IΔn: ≤ 40 ms
Operating voltage (AC) Internal consumption  max. 1,3 W Internal consumption  load dircuit  Specification  Rated voltage (AC)  Rated voltage (AC)  Rated voltage (AC)  Rated short-circuit current  6 kA  Surge current strength  3 kA  max. Total rated switching capacity Rated insulation voltage  Rated frequency  Go Hz  Current heat loss per current path  Back-up fuse type  GG  Overvoltage class  III  Screw-type terminal top, bottom (load circuit)  Neutral conductor position  Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²  Consection stranded  1-wire: 1 mm² 25 mm², 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Operating position  Mechanical endurance  Inin. 2000 switching cycles  Housing type  distribution board housing  Installation type  Mounting rall (35 mm)  Housing material  Protection class  Width  44 mm  Height  Depth  Depth  7.5.5 mm	Tripping characteristic	С
Internal consumption	Supply side	υp
Specification   Ioad direcuit	Operating voltage (AC)	max. 253 V
Specification   load disconnect contact   Rated voltage (AC)   330 V   Rated current (AC)   16 A   Rated short-circuit current   6 kA   Surge current strength   3 kA   max. Total rated switching   6 kA   capacity   Rated insulation voltage   440 V   Rated insulation voltage   4 kV   Rated insulation voltage   4 kV   Rated frequency   50 HZ   Current heat loss per current   2,3 W   Path   Back-up fuse type   9G   Overvoltage class   III   Screw-type terminal top, bottom (load circuit)   Neutral conductor position   right   Connection C1 Maximum   number of conductors per terminal   Consection Solid   1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection gapacity flexible   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm²; 2-wire: 1 mm² 10 mm²   Consection stranded   1-wire: 1 mm²; 2	Internal consumption	max. 1.3 W
Rated voltage (AC) Rated current (AC) Rated sont-circuit current 6 kA  Surge current strength 3 kA max. Total rated switching capacity Rated impulse withstand voltage Rated impulse voltage with voltage and voltage impulse voltage and voltage impulse voltage voltage and voltage impulse voltage voltage and voltage impulse voltage voltage and voltage voltage voltage and voltage voltage voltage voltage and voltage		load circuit
Rated current (AC) 16 A Rated short-circuit current 6 kA Surge current strength 3 kA max. Total rated switching capacity Rated insulation voltage Rated frequency 50 Hz Current heat loss per current path Back-up fuse type 9 GO Overvoltage class III Surge current top, bottom (load circuit) Neutral conductor position right Connection C3 Maximum 2 (conductors of same type and cross-section) number of conductors per terminal Cross section solid 1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2, Nm General data Operating position optional Mechanical endurance min. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance distribution board housing Housing type installed: IP40 Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 93 mm Depth 73.5 mm	Specification	load disconnect contact
Rated current (AC) Rated short-circuit current Rated short-circuit current Rated short-circuit current Rated short-circuit current Rated max. Total rated switching capacity Rated insulation voltage Rated insulation voltage Rated impulse withstand voltage Rated frequency So Hz Current heat loss per current path Back-up fuse type  GG Overvoltage class III Screw-type terminal top, bottom (load circuit) Neutral conductor position right Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 24 Nm General data Operating position Operating position Operating position Rechanical endurance min. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance Metansial thermoplastic Housing material Height 1-put (185 mm) Depth 73.5 mm	Rated voltage (AC)	230 V
Surge current strength  max. Total rated switching capacity  Rated insulation voltage  At 440 V  Rated impulse withstand voltage  Rated insulation voltage  At 4V  Rated impulse withstand voltage  Rated insulation sper current path  Back-up fuse type  Ge Overvoltage class  III  Screw-type terminal top, bottom (load circuit)  Neutral conductor position  right Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Toss section standed  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Operating position  Operating position  Mechanical endurance  Electrical endurance  Incompatible  Armin 4,000 cycles  Electrical endurance  Min. 4000 cycles  Electrical endurance  Min. 4000 cycles  Housing type  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP20 (installed: IP40)  Width  Height  9 1 mm  Depth  73.5 mm	Rated current (AC)	
max. Total rated switching capacity  Rated insulation voltage  Rated impulse withstand voltage  Rated frequency  So Hz  Current heat loss per current path Back-up fuse type  Govervoltage class  III  Screw-type terminal top, bottom (load circuit)  Neutral conductor position  Connection C1 Maximum  number of conductors per terminal  Consection section stranded  1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm², 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2,4 Nm  General data  Operating position  Operating position  Mechanical endurance  Industry per distribution board housing  Installation type  Mounting rail (35 mm)  Housing type  Installation type  Mounting material  Protection class  IP20 (installed: IP40)  Width  Height  9 1 mm  Depth  73.5 mm	Rated short-circuit current	6 kA
max. Total rated switching capacity  Rated insulation voltage  Rated impulse withstand voltage  Rated frequency  So Hz  Current heat loss per current path Back-up fuse type  Govervoltage class  III  Screw-type terminal top, bottom (load circuit)  Neutral conductor position  Connection C1 Maximum  number of conductors per terminal  Consection section stranded  1-wire: 1 mm² 35 mm², 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm², 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2,4 Nm  General data  Operating position  Operating position  Mechanical endurance  Industry per distribution board housing  Installation type  Mounting rail (35 mm)  Housing type  Installation type  Mounting material  Protection class  IP20 (installed: IP40)  Width  Height  9 1 mm  Depth  73.5 mm	Surge current strength	3 kA
Rated insulation voltage Rated insulation voltage Rated impulse withstand voltage Rated frequency So Hz Current heat loss per current path Back-up fuse type  gG Overvoltage class III  Vertral conductor position Connection C1 Maximum number of conductors per terminal Cross section solid Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Consestion stranded 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2.4 Nm General data Operating position Operating position Mechanical endurance Indicate endurance I		
Rated impulse withstand voltage Rated frequency So Hz Current heat loss per current path Back-up fuse type Govervoltage class III Screw-type terminal top, bottom (load circuit) Neutral conductor position Connection C1 Maximum number of conductors per terminal Cross section solid Connecting capacity flexible Consection stranded 1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm² Cross section stranded 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2.4 Nm General data Operating position Optional Mechanical endurance Illectrical endurance Min. 4000 cycles Electrical endurance Ambient temperature 2-25 °C 40 °C Climate resistance according to IEC 60068-2-30 Housing type Installation type Mounting rail (35 mm) Housing material Protection class IP20 (installed: IP40) Width Height 9 1 mm Depth Posth	_	
Rated impulse withstand voltage Rated frequency So Hz Current heat loss per current path Back-up fuse type Govervoltage class III Screw-type terminal top, bottom (load circuit) Neutral conductor position Connection C1 Maximum number of conductors per terminal Cross section solid Connecting capacity flexible Consection stranded 1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm² Cross section stranded 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2.4 Nm General data Operating position Optional Mechanical endurance Illectrical endurance Min. 4000 cycles Electrical endurance Ambient temperature 2-25 °C 40 °C Climate resistance according to IEC 60068-2-30 Housing type Installation type Mounting rail (35 mm) Housing material Protection class IP20 (installed: IP40) Width Height 9 1 mm Depth Posth	Rated insulation voltage	440 V
Current heat loss per current path  Back-up fuse type  Ge  Overvoltage class  III  Neutral conductor position  Connection C1 Maximum number of conductors per terminal  Cross section solid  Connecting capacity flexible  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Operating position  Mechanical endurance  Electrical endurance  Electrical endurance  Min. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  Housing type  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Frotection class  Width  1-ya mm  Pepth  73.5 mm	Rated impulse withstand voltage	
Current heat loss per current path Back-up fuse type	Rated frequency	50 Hz
path Back-up fuse type Overvoltage class III  Screw-type terminal top, bottom (load circuit)  Neutral conductor position Connection C1 Maximum number of conductors per terminal Cross section solid 1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm² Connecting capacity flexible 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Cross section stranded 1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm² Tightening torque 2 Nm 2.4 Nm General data Operating position Operating position Mechanical endurance min. 4000 cycles Electrical endurance min. 2000 switching cycles Ambient temperature 2-25 °C 40 °C Climate resistance according to IEC 60068-2-30 Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material Protection class IP20 (installed: IP40) Wridth 44 mm Height 93 mm Depth Poeth		<del>-</del>
Overvoltage class    III		· ·
Screw-type terminal top, bottom (load circuit)   Neutral conductor position   right	Back-up fuse type	gG
Neutral conductor position  Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Operating position  Mechanical endurance  Electrical endurance  Inin. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  Housing type  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP 20 (installed: IP 40)  Width  44 mm  Height  91 mm  Depth	Overvoltage class	III
Connection C1 Maximum number of conductors per terminal  Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Mechanical endurance  Electrical endurance  Inin. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP 20 (installed: IP40)  Width  44 mm  Height  91 mm  Depth  73.5 mm		screw-type terminal top, bottom (load circuit)
number of conductors per terminal  Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Optional  Mechanical endurance  Inin. 4000 cycles  Electrical endurance  Electrical endurance  min. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP 20 (installed: IP 40)  Width  44 mm  Height  91 mm  Depth  73.5 mm	Neutral conductor position	right
terminal  Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Optional  Mechanical endurance  Inin. 4000 cycles  Electrical endurance  Electrical endurance  min. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP20 (installed: IP40)  Width  44 mm  Height  91 mm  Depth  73.5 mm	Connection C1 Maximum	2 (conductors of same type and cross-section)
Cross section solid  1-wire: 1 mm² 35 mm²; 2-wire: 1 mm² 10 mm²  Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Cross section stranded  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Optional  Mechanical endurance  Inin. 4000 cycles  Electrical endurance  Ambient temperature  -25 °C 40 °C  Climate resistance  distribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP20 (installed: IP40)  Width  44 mm  Height  91 mm  Depth  73.5 mm	number of conductors per	
Connecting capacity flexible  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²  2 Nm 2.4 Nm  General data  Operating position  Mechanical endurance  Electrical endurance  Inin. 4000 cycles  Electrical endurance  Ambient temperature  -25 °C 40 °C  Climate resistance  Housing type  Gistribution board housing  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP20 (installed: IP40)  Width  44 mm  Height  91 mm  Depth  73.5 mm		
Cross section stranded1-wire: 1 mm² 25 mm²; 2-wire: 1 mm² 10 mm²Tightening torque2 Nm 2.4 NmGeneral dataGeneral dataOperating positionoptionalMechanical endurancemin. 4000 cyclesElectrical endurancemin. 2000 switching cyclesAmbient temperature-25 °C 40 °CClimate resistanceaccording to IEC 60068-2-30Housing typedistribution board housingInstallation typeMounting rail (35 mm)Housing materialthermoplasticProtection classIP20 (installed: IP40)Width44 mmHeight91 mmDepth73.5 mm	Cross section solid	1-wire: 1 mm <sup>2</sup> 35 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup>
Tightening torque  2 Nm 2.4 Nm  General data  Operating position  Mechanical endurance  Electrical endurance  Inin. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance  Housing type  Housing type  Installation type  Mounting rail (35 mm)  Housing material  Protection class  IP20 (installed: IP40)  Width  Height  91 mm  Depth  73.5 mm	<u> </u>	1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup>
General data Operating position optional Mechanical endurance min. 4000 cycles Electrical endurance min. 2000 switching cycles Ambient temperature -25 °C 40 °C Climate resistance according to IEC 60068-2-30 Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm	Cross section stranded	1-wire: 1 mm <sup>2</sup> 25 mm <sup>2</sup> ; 2-wire: 1 mm <sup>2</sup> 10 mm <sup>2</sup>
Operating position  Mechanical endurance  Electrical endurance  Ambient temperature  Climate resistance  Housing type  Housing material  Housing material  Protection class  Width  Height  Depth  Optional  min. 4000 cycles  min. 2000 switching cycles  Amin. 2000 switching cycles  Amin. 2000 switching cycles  Min. 2000 switching cycles  Amin. 2000 switching cycles  Amin. 2000 switching cycles  According to IEC 60068-2-30  distribution board housing  Mounting rail (35 mm)  Housing material (35 mm)  Thermoplastic  Protection class  IP20 (installed: IP40)  Width  44 mm  Paj mm  Depth	Tightening torque	2 Nm 2.4 Nm
Mechanical endurance Electrical endurance Imin. 2000 switching cycles  Ambient temperature  -25 °C 40 °C  Climate resistance According to IEC 60068-2-30  Housing type Installation type Mounting rail (35 mm)  Housing material Thermoplastic  Protection class IP20 (installed: IP40)  Width 44 mm  Height 91 mm  Depth 73.5 mm		General data
Electrical endurance min. 2000 switching cycles  Ambient temperature -25 °C 40 °C  Climate resistance according to IEC 60068-2-30  Housing type distribution board housing  Installation type Mounting rail (35 mm)  Housing material thermoplastic  Protection class IP20 (installed: IP40)  Width 44 mm  Height 91 mm  Depth 73.5 mm	Operating position	optional
Ambient temperature  -25 °C 40 °C  Climate resistance  according to IEC 6oo68-2-30  Housing type  Installation type  Mounting rail (35 mm)  Housing material  thermoplastic  Protection class  IP20 (installed: IP40)  Width  44 mm  Height  91 mm  Depth  73.5 mm	Mechanical endurance	min. 4000 cycles
Climate resistance according to IEC 60068-2-30 Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm	Electrical endurance	min. 2000 switching cycles
Climate resistance according to IEC 60068-2-30 Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm	Ambient temperature	
Housing type distribution board housing Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm	·	according to IEC 60068-2-30
Installation type Mounting rail (35 mm) Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm	Housing type	<del>-</del>
Housing material thermoplastic Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm		<del>-</del>
Protection class IP20 (installed: IP40) Width 44 mm Height 91 mm Depth 73.5 mm		<del>-</del>
Width         44 mm           Height         91 mm           Depth         73.5 mm		·
Height 91 mm Depth 73.5 mm		·
Depth 73.5 mm		**
		-
Installation denth 67 mm	Installation depth	67 mm

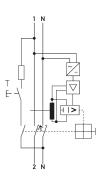
Technical Data	DRCBO 4 C16/0,03/1N-HP
Module widths	2.5
Weight	o.275 kg
Design requirements/Standards	VDE 0664-20, VDE 0664-40, VDE 0664-401, EN 61009-1, EN 62423, ÖVE/ÖNORM E 8601
Power limitation category	3
Degree of pollution	2

## **Dimensions**



Dimensional drawing Group view

## Wiring example



Wiring diagram