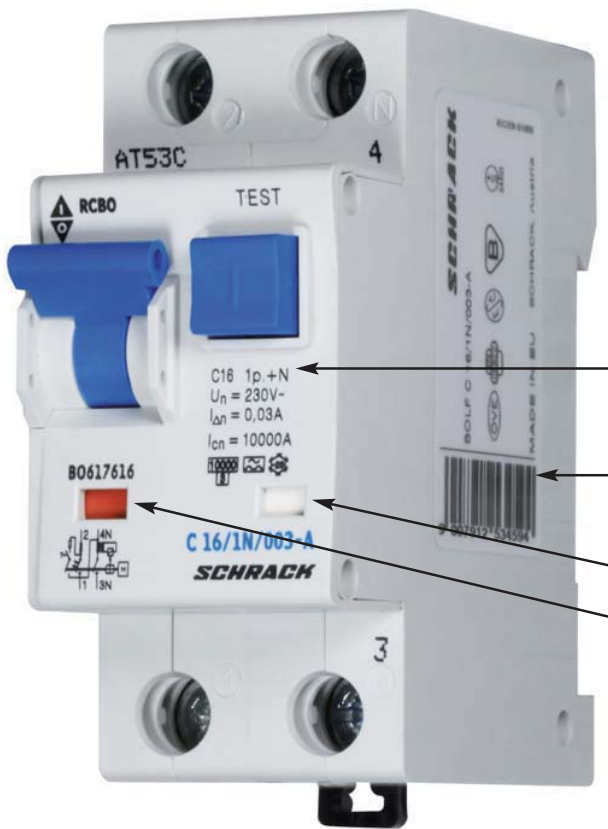


COMBINATION CIRCUIT BREAKERS RCBO

COMBINED MCB AND RCCB , SERIES BOLF

CONTACT POSITION INDICATOR



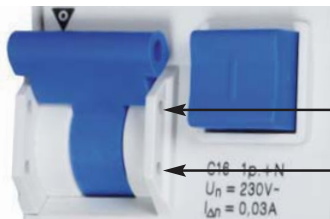
TYPE

EAN CODE
FOR QUICK ORDERING

TRIP INDICATOR WHITE/BLUE

CONTACT POSITION INDICATOR
RED/GREEN

SEALABLE IN ON AND OFF POSITION



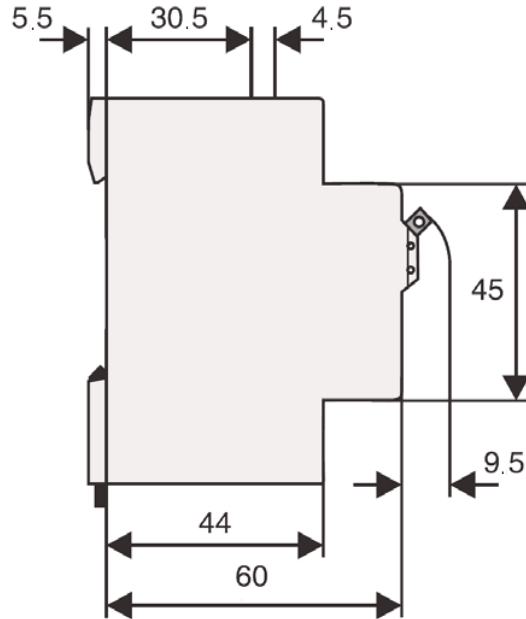
SEALABLE

COMBINED MCB AND RCCB , SERIES BOLF

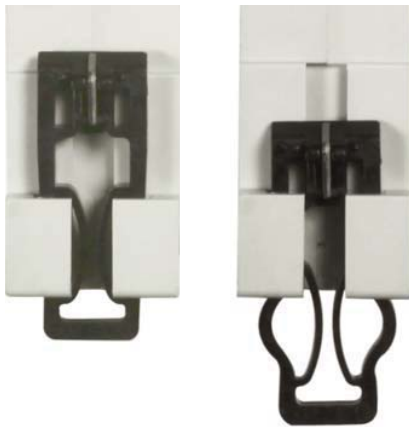
GUIDE FOR SECURE TERMINAL CONNECTION PREVENTS WIRED FROM BEING INSERTED INCORRECTLY



80 mm BASE DIMENSIONS – SPACE-SAVING AND FULLY COMPATIBLE WITH PREDECESSOR SERIES BS



EASY SNAP-ON TO DIN RAIL BY METAL INSERT IN LATCHING SLIDE



SNAP-ON ACCESSORIES

EASY SNAP-ON MOUNTING



SIMPLE REMOVAL



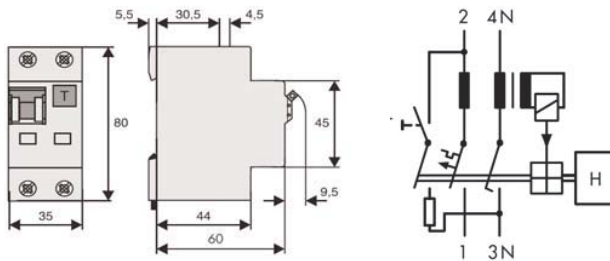
RCBO – COMBINED MCB AND RCCB SERIES BOLF 6 kA, 1+N – GENERAL INFORMATION



SCHRACK-INFO


- Tripping independent of line voltage
- Power connection directional
- Double terminal on the top and on the bottom with guide for secure terminal connection
- Indicator: blue: switch off default, white: switch off manual
- Contact position colour indicator (red/green)
- Sensitivity: AC and pulse current sensitive (type A)

DIMENSIONS AND WIRING DIAGRAMS


















TECHNICAL DATA

Standards:	IEC/EN 61009
Rated voltage:	230 V/50 Hz
Rated residual current:	30 mA, 300 mA
Endurance:	electrical: ≥ 4.000 operating cycles mechanical: ≥ 20.000 operating cycles
Number of poles:	1+N
Voltage limits:	196 - 253 V (necessary for the test button)
Rated breaking capacity:	6kA
Characteristic:	B and C
Selectivity class:	3
Tripping temperature:	-25 °C up to +40 °C
Climatic conditions:	in according to IEC 68-2 (25...55°C / 90...95% RH)
Max. back up fuse:	100 A gL (>10 kA)
Terminal capacity:	1-25 mm ²
Finger and hand touch safe:	in according to VBG 4 / ÖVE EN 6, BGV A3
Special snap-on mounting:	for DIN rails EN 50 022
Degree of protection:	IP 20 built in cover IP40
Terminal:	Multi-purpose terminal (lift/open mouthed) Guide for secure terminal connection
Terminal capacity:	1 - 25 mm ²
Torque of terminals:	2 - 2,4 Nm

**RCBO – COMBINED MCB AND RCCB SERIES BOLF 6 kA, 1+N,
AC-SENSITIV, TYPE AC, 30 mA, 2 MW** 




RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
6 A	2	1	BOLF6 B 6/1N/003	9004840395471		BO668506
10 A	2	1	BOLF6 B 10/1N/003	9004840395488		BO668510
16 A	2	1	BOLF6 B 16/1N/003	9004840395495		BO668516
20 A	2	1	BOLF6 B 20/1N/003	9004840395501		BO668520
25 A	2	1	BOLF6 B 25/1N/003	9004840395518		BO668525
32 A	2	1	BOLF6 B 32/1N/003	9004840395525		BO668532
40 A	2	1	BOLF6 B 40/1N/003	9004840395532		BO668540
CHARACTERISTIC C						
6 A	2	1	BOLF6 C 6/1N/003	9004840395549		BO667506
10 A	2	1	BOLF6 C 10/1N/003	9004840395556		BO667510
16 A	2	1	BOLF6 C 16/1N/003	9004840395563		BO667516
20 A	2	1	BOLF6 C 20/1N/003	9004840395570		BO667520
25 A	2	1	BOLF6 C 25/1N/003	9004840395587		BO667525
32 A	2	1	BOLF6 C 32/1N/003	9004840395594		BO667532
40 A	2	1	BOLF6 C 40/1N/003	9004840395600		BO667540

**RCBO – COMBINED MCB AND RCCB SERIES BOLF 6 kA, 1+N,
AC-SENSITIVE, TYPE AC, 300 mA, 2 MW** 

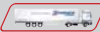


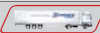

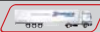





RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
6 A	2	1	BOLF6 C 6/1N/03	9004840616897		BO867506
10 A	2	1	BOLF6 C 10/1N/03	9004840616903		BO867510
16 A	2	1	BOLF6 C 16/1N/03	9004840616910		BO867516
20 A	2	1	BOLF6 C 20/1N/03	9004840616927		BO867520
25 A	2	1	BOLF6 C 25/1N/03	9004840616934		BO867525
32 A	2	1	BOLF6 C 32/1N/03	9004840616941		BO867532
40 A	2	1	BOLF6 C 40/1N/03	9004840616958		BO867540



RCBO – COMBINED MCB AND RCCB SERIES BOLF 6 kA, 1+N, PULSE CURRENT SENSITIVE, TYPE A, 30 mA, 2 MW 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
6 A	2	1	BOLF6 B 6/1N/003-A	9004840506563		BO668606
10 A	2	1	BOLF6 B 10/1N/003-A	9004840506570		BO668610
16 A	2	1	BOLF6 B 16/1N/003-A	9004840506587		BO668616
25 A	2	1	BOLF6 B 25/1N/003-A	9004840506624		BO668625
32 A	2	1	BOLF6 B 32/1N/003-A	9004840506631		BO668632
40 A	2	1	BOLF6 B 40/1N/003-A	9004840506648		BO668640
CHARACTERISTIC C						
6 A	2	1	BOLF6 C 6/1N/003-A	9004840506655		BO667606
10 A	2	1	BOLF6 C 10/1N/003-A	9004840506662		BO667610
13 A	2	1	BOLF6 C 13/1N/003-A	9004840548822		BO667613
16 A	2	1	BOLF6 C 16/1N/003-A	9004840506679		BO667616
20 A	2	1	BOLF6 C 20/1N/003-A	9004840506686		BO667620
25 A	2	1	BOLF6 C 25/1N/003-A	9004840506693		BO667625
32 A	2	1	BOLF6 C 32/1N/003-A	9004840506709		BO667632
40 A	2	1	BOLF6 C 40/1N/003-A	9004840506716		BO667640



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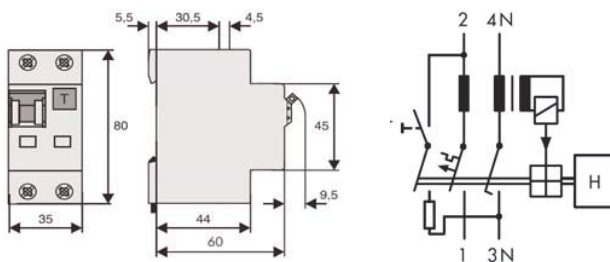
RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N – GENERAL INFORMATION



SCHRACK-INFO


- Tripping independent of line voltage
- Power connection directional
- Double terminal on the top and on the bottom with guide for secure terminal connection
- Indicator: blue: switch off default, white: switch off manual
- Contact position colour indicator (red/green)
- Sensitivity: AC and pulse current sensitive (type A)
- Option: 10 ms tripping delay type G

DIMENSIONS AND WIRING DIAGRAMS





TECHNICAL DATA

Standards:	IEC/EN 61009
Rated voltage:	230 V/50 Hz
Rated residual current:	10 mA, 30 mA, 100 mA, 300 mA
Endurance:	electrical: ≥ 4.000 operating cycles mechanical: ≥ 20.000 operating cycles
Number of poles:	1+N
Voltage limits:	196 - 253 V (necessary for the test button)
Rated breaking capacity:	10 kA
Characteristic:	B and C
Selectivity class:	3
Tripping temperature:	-25 °C up to +40 °C
Climatic conditions:	in according to IEC 68-2 (25...55°C / 90...95% RH)
Max. back up fuse:	100 A gL (>10 kA)
Terminal capacity:	1-25 mm ²
Finger and hand touch safe:	in according to VBG 4 / ÖVE EN 6, BGV A3
Special snap-on mounting:	for DIN rails EN 50 022
Degree of protection:	IP 20 built in cover IP40
Terminal:	Multi-purpose terminal (lift/open mouthed) Guide for secure terminal connection
Terminal capacity:	1 - 25 mm ²
Torque of terminals:	2 - 2,4 Nm















**RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N,
PULSE CURRENT SENSITIVE, TYPE A, 10 mA, 2 MW** 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
16 A	2	1	BOLF C 16/001-A	9004840467659		BO517616









**RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N,
AC-SENSITIVE, TYPE AC, 30 mA, 2 MW** 




RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
6 A	2	1	BOLF B 6/003	9004840394597		BO618506
10 A	2	1	BOLF B 10/003	9004840394603		BO618510
13 A	2	1	BOLF B 13/003	9004840394610		BO618513
16 A	2	1	BOLF B 16/003	9004840394627		BO618516
20 A	2	1	BOLF B 20/003	9004840394634		BO618520
25 A	2	1	BOLF B 25/003	9004840394641		BO618525
32 A	2	1	BOLF B 32/003	9004840394658		BO618532
40 A	2	1	BOLF B 40/003	9004840394665		BO618540
CHARACTERISTIC C						
6 A	2	1	BOLF C 6/003	9004840394672		BO617506
10 A	2	1	BOLF C 10/003	9004840394689		BO617510
13 A	2	1	BOLF C 13/003	9004840394696		BO617513
16 A	2	1	BOLF C 16/003	9004840394702		BO617516
20 A	2	1	BOLF C 20/003	9004840394719		BO617520
25 A	2	1	BOLF C 25/003	9004840394726		BO617525
32 A	2	1	BOLF C 32/003	9004840394733		BO617532
40 A	2	1	BOLF C 40/003	9004840394740		BO617540


RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N,
SHORT TIME DELAY, AC-SENSITIVE, TYPE AC, DELAY-TYPE G, 30 mA, 2 MW,
SURGE-CURRENT-PROOF 3 kA 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
13 A	2	1	BOLF B 13/003-G	9004840395297		BO218513
16 A	2	1	BOLF B 16/003-G	9004840395303		BO218516
25 A	2	1	BOLF B 25/003-G	9004840395396		BO218525
CHARACTERISTIC C						
13 A	2	1	BOLF C 13/003-G	9004840395419		BO217513
16 A	2	1	BOLF C 16/003-G	9004840395426		BO217516
20 A	2	1	BOLF C 20/003-G	9004840395433		BO217520
25 A	2	1	BOLF C 25/003-G	9004840395440		BO217525
32 A	2	1	BOLF C 32/003-G	9004840395457		BO217532

RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N,
AC-SENSITIVE, TYPE AC, 100 mA, 2 MW 




RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
13 A	2	1	BOLF B 13/01	9004840394924		BO718513
16 A	2	1	BOLF B 16/01	9004840394931		BO718516
CHARACTERISTIC C						
10 A	2	1	BOLF C 10/01	9004840394948		BO717510
16 A	2	1	BOLF C 16/01	9004840394955		BO717516
20 A	2	1	BOLF C 20/01	9004840394962		BO717520
25 A	2	1	BOLF C 25/01	9004840394979		BO717525
32 A	2	1	BOLF C 32/01	9004840394986		BO717532
40 A	2	1	BOLF C 40/01	9004840394993		BO717540










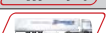
RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N, AC-SENSITIVE, TYPE AC, 300 mA, 2 MW 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
6 A	2	1	BOLF C 6/03	9004840589313		BO817506
10 A	2	1	BOLF C 10/03	9004840589320		BO817510
16 A	2	1	BOLF C 16/03	9004840589337		BO817516
20 A	2	1	BOLF C 20/03	9004840589344		BO817520
25 A	2	1	BOLF C 25/03	9004840589351		BO817525
32 A	2	1	BOLF C 32/03	9004840589368		BO817532
40 A	2	1	BOLF C 40/03	9004840589375		BO817540

RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N, PULSE CURRENT SENSITIVE, TYPE A, 30 mA, 2 MW 







RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
6 A	2	1	BOLF B 6/003-A	9004840395006		BO618606
10 A	2	1	BOLF B 10/003-A	9004840395013		BO618610
13 A	2	1	BOLF B 13/003-A	9004840395020		BO618613
16 A	2	1	BOLF B 16/003-A	9004840395037		BO618616
20 A	2	1	BOLF B 20/003-A	9004840395044		BO618620
25 A	2	1	BOLF B 25/003-A	9004840395051		BO618625
32 A	2	1	BOLF B 32/003-A	9004840395068		BO618632
40 A	2	1	BOLF B 40/003-A	9004840395075		BO618640
CHARACTERISTIC C						
6 A	2	1	BOLF C 6/003-A	9004840395082		BO617606
10 A	2	1	BOLF C 10/003-A	9004840395099		BO617610
13 A	2	1	BOLF C 13/003-A	9004840395105		BO617613
16 A	2	1	BOLF C 16/003-A	9004840395112		BO617616
20 A	2	1	BOLF C 20/003-A	9004840395129		BO617620
25 A	2	1	BOLF C 25/003-A	9004840395136		BO617625
32 A	2	1	BOLF C 32/003-A	9004840395143		BO617632
40 A	2	1	BOLF C 40/003-A	9004840395150		BO617640



**RCBO – COMBINED MCB AND RCCB SERIES BOLF 10 kA, 1+N,
PULSE CURRENT SENSITIVE, TYPE A, 300 mA, 2 MW** 



RATED CURRENT	MW	PU	TYPE E	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C						
6 A	2	1	BOLF C 6/03-A	9004840395198		BO817606
10 A	2	1	BOLF C 10/03-A	9004840395204		BO817610
16 A	2	1	BOLF C 16/03-A	9004840395211		BO817616
20 A	2	1	BOLF C 20/03-A	9004840395228		BO817620
25 A	2	1	BOLF C 25/03-A	9004840395235		BO817625



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TECHNICAL DATA OF RCBO – COMBINED MCB AND RCCB SERIES BOLF 1+N

TOTAL POWER LOSS AT I_n BOLF-../1N/

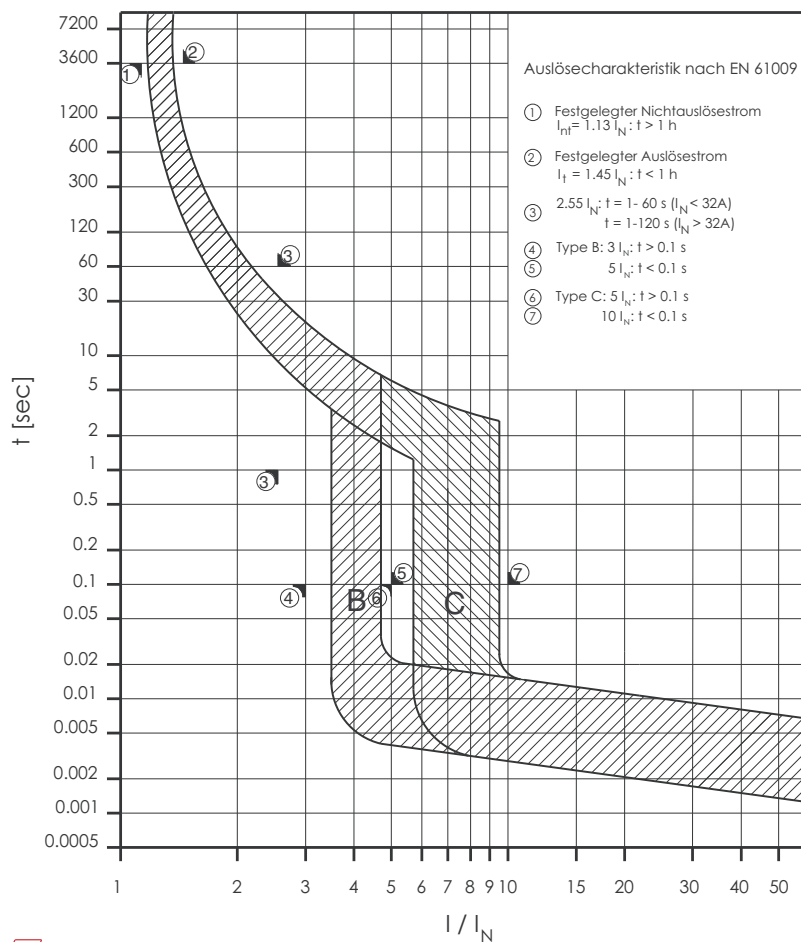
Characteristic B

BOLF	
I_n [A]	P [W]
2	1.4
4	1.5
5	2.0
6	1.7
8	2.4
10	2.3
12	3.1
13	3.4
15	3.4
16	3.6
20	5.4
25	5.0
32	6.1
40	8.2

Characteristic C

BOLF	
I_n [A]	P [W]
2	1.4
4	1.5
5	2.0
6	1.7
8	2.4
10	2.3
12	3.1
13	3.4
15	3.4
16	3.6
20	5.4
25	5.0
32	6.1
40	8.2

TRIPPING CHARACTERISTIC CURVE BOLF-../1N/ TYPES B, C

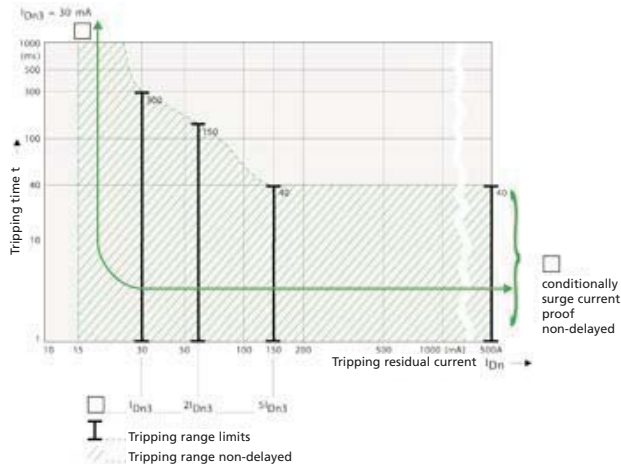


INFLUENCE OF AMBIENT TEMPERATURE ON CAPACITIES BOLF-../1N/.. (MCB-PART)

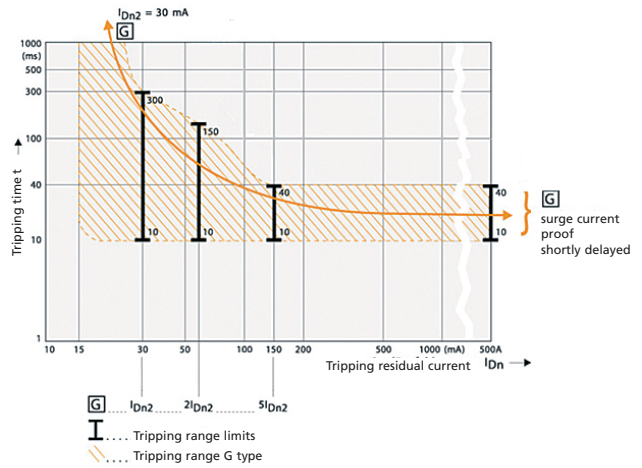
I _n [A]	Ambient temperature T (°C)																	
	-40	-30	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
2	2.6	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7
4	5.1	5.0	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3
5	6.4	6.2	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.7	7.5	7.4	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5.0
8	10.2	9.9	9.9	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.8	6.6
10	13	12	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	8.7	8.5	8.3
12	15	15	15	14	14	13	13	13	12	12	12	11	11	11	11	10	10	10
13	17	16	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
15	19	19	19	18	17	17	16	16	15	15	15	14	14	14	13	13	13	12
16	20	20	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13
20	26	25	25	24	23	22	22	21	20	20	19	19	19	18	18	17	17	17
25	32	31	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21
32	41	40	40	38	37	36	35	33	32	32	31	30	30	29	28	28	27	26
40	51	50	49	48	47	45	43	42	40	39	39	38	37	36	35	35	34	33

TRIPPING CURRENT RCBO – SERIES BOLF (RCCB-PART)

Standard



Delay type G



SHORT-CIRCUIT SELECTIVITIES



Short-circuit selectivity, BOLF-.., 10 kA/1N-B to D-fuse gL/gG

In the case of short circuit between LS-FI BOLF-../1N/ to the back up fuses D. The values are the selectivity-limit-current I_s [kA].

It means if the short-circuit current I_{KS} under I_s only the RCBO tripping. If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	< 0.5 ¹⁾	< 0.5 ¹⁾	2.2	8.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	< 0.5 ¹⁾	0.7	1.2	3.7	10.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		< 0.5 ¹⁾	0.7	1.0	2.9	6.9	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8		< 0.5 ¹⁾	0.6	1.0	2.4	5.1	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			0.6	0.9	1.9	3.3	7.0	10.0 ²⁾	10.0 ²⁾
13			0.5	0.7	1.6	2.8	5.7	9.0	10.0 ²⁾
16				0.7	1.4	2.4	4.4	7.0	10.0 ²⁾
20					1.3	2.2	4.0	6.3	10.0 ²⁾
25					1.3	2.1	3.8	5.8	10.0 ²⁾
32						2.0	3.5	5.2	9.5
40							3.1	4.5	8.1

¹⁾ Selectivity-limit-current I_s is under 0.5 kA.

²⁾ Selectivity-limit-current I_s = rated breaking capacity I_{cn} of RCBO
shaded areas: no selectivity



Short-circuit selectivity, BOLF-.., 10 kA/1N-C to D-fuse gL/gG

In the case of short circuit between LS-FI BOLF-../1N/ to the back up fuses D. The values are the selectivity-limit-current I_s [kA].

It means if the short-circuit current I_{KS} under I_s only the RCBO tripping. If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	DIAZED DII-DIV gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	< 0.5 ¹⁾	< 0.5 ¹⁾	1.7	6.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	< 0.5 ¹⁾	0.7	1.3	4.2	8.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
5	< 0.5 ¹⁾	< 0.5 ¹⁾	0.6	1.1	3.6	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		< 0.5 ¹⁾	0.6	1.0	2.9	5.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8		< 0.5 ¹⁾	< 0.5	0.9	2.5	4.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			< 0.5	0.7	1.5	2.6	5.3	9.0	10.0 ²⁾
13					1.4	2.3	4.6	7.6	10.0 ²⁾
16					1.2	1.8	3.4	5.5	10.0 ²⁾
20					1.2	1.7	3.1	5.0	10.0 ²⁾
25						1.6	2.9	4.6	10.0 ²⁾
32							2.3	3.4	7.7
40								2.9	6.2

¹⁾ Selectivity-limit-current I_s is under 0.5 kA.

²⁾ Selectivity-limit-current I_s = rated breaking capacity I_{cn} of RCBO
shaded areas: no selectivity



Short-circuit selectivity, BOLF-.., 10 kA/1N-B to D0-fuse gL/gG

In the case of short circuit between LS-FI BOLF-../1N/ to the back up fuses D0.
The values are the selectivity-limit-current I_S [kA].

It means if the short-circuit current I_{KS} under I_S only the RCBO tripping.
If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	NEOZED D01-D03 gL/gG								
I_n [A]	10	16	20	25	35	50	63	80	100
2	< 0.5 ¹⁾	0.7	1.6	3.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	< 0.5 ¹⁾	0.6	0.9	2.9	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		< 0.5 ¹⁾	0.5	0.8	2.4	8.2	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8			0.6	0.8	2.0	6.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			0.5	0.8	1.6	3.7	6.0	10.0 ²⁾	10.0 ²⁾
13			0.5	0.7	1.4	3.0	4.7	9.0	10.0 ²⁾
16				0.6	1.2	2.6	3.9	7.0	10.0 ²⁾
20					1.2	2.5	3.6	6.2	10.0 ²⁾
25					1.2	2.3	3.3	5.7	10.0 ²⁾
32						2.3	3.1	5.1	10.0 ²⁾
40							2.8	4.5	9.5

¹⁾ Selectivity-limit-current I_S is under 0.5 kA.

²⁾ Selectivity-limit-current I_S = rated breaking capacity I_{cs} of RCBO
shaded areas: no selectivity



Short-circuit selectivity, BOLF-.., 10 kA/1N-C to D0-fuse gL/gG

In the case of short circuit between LS-FI BOLF-../1N/ to the back up fuses D0.
The values are the selectivity-limit-current I_S [kA].

It means if the short-circuit current I_{KS} under I_S only the RCBO tripping.
If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	Neozed gL/gG D01-D03								
I_n [A]	10	16	20	25	35	50	63	80	100
2	< 0.5 ¹⁾	0.5	0.5	2.4	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	< 0.5 ¹⁾	< 0.5 ¹⁾	0.9	3.4	9.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
5		< 0.5 ¹⁾	< 0.5 ¹⁾	0.9	2.9	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		< 0.5 ¹⁾	< 0.5 ¹⁾	0.8	2.3	6.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8			< 0.5 ¹⁾	0.7	2.1	5.5	9.5	10.0 ²⁾	10.0 ²⁾
10			< 0.5 ¹⁾	0.6	1.3	2.9	4.5	8.9	10.0 ²⁾
13					1.2	2.5	3.9	7.6	10.0 ²⁾
16					1.0	2.1	3.0	5.5	10.0 ²⁾
20					1.0	2.0	2.7	5.0	10.0 ²⁾
25						1.9	2.6	4.5	10.0 ²⁾
32							2.1	3.4	10.0 ²⁾
40								3.0	8.7

¹⁾ Selectivity-limit-current I_S is under 0.5 kA.

²⁾ Selectivity-limit-current I_S = rated breaking capacity I_{cs} of RCBO
shaded areas: no selectivity



Short-circuit selectivity, BOLF-..., 10 kA/1N-B to HRC-fuse NH-00 quick-blow fuse insert gL/gG

In the case of short circuit between LS-FI BOLF-.../1N/ to the back up HRC-fuses. The values are the selectivity-limit-current I_S [kA]. It means if the short-circuit current I_{KS} under I_S only the RCBO tripping. If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
2	< 0.5 ¹⁾	1.1	3.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	0.5	0.9	1.6	2.8	4.4	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6	< 0.5 ¹⁾	0.5	0.8	1.4	2.2	3.3	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8	< 0.5 ¹⁾	< 0.5 ¹⁾	0.7	1.0	1.9	2.8	5.3	7.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10		< 0.5 ¹⁾	0.7	0.9	1.5	2.1	3.4	4.3	7.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
13		< 0.5 ¹⁾	0.6	0.8	1.4	1.8	2.8	3.6	5.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
16			0.6	0.7	1.2	1.5	2.4	3.0	4.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
20				0.7	1.1	1.5	2.2	2.8	4.2	9.2	10.0 ²⁾	10.0 ²⁾
25				0.7	1.1	1.4	2.1	2.6	4.0	8.2	10.0 ²⁾	10.0 ²⁾
32					1.0	1.4	2.0	2.5	3.7	7.1	10.0 ²⁾	10.0 ²⁾
40								2.3	3.4	6.2	8.8	10.0 ²⁾

¹⁾ Selektivitäts-limit-current I_S is under 0.5 kA.

²⁾ Selektivitäts-limit-current I_S = rated breaking capacity I_{cn} of RCBO
shaded areas: no selectivity

Short-circuit selectivity, BOLF-..., 10 kA/1N-C to HRC-fuse NH-00 quick-blow fuse insert gL/gG

In the case of short circuit between LS-FI BOLF-.../1N/ to the back up HRC-fuses. The values are the selectivity-limit-current I_S [kA]. It means if the short-circuit current I_{KS} under I_S only the RCBO tripping. If the short circuit higher it is possible that both fuses are tripping.

*) nach EN 60898 D.5.2.b

BOLF	NH-00 gL/gG											
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160
2	< 0.5 ¹⁾	0.6	2.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	< 0.5 ¹⁾	< 0.5 ¹⁾	0.9	1.8	3.2	4.8	8.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
5	< 0.5 ¹⁾	< 0.5 ¹⁾	0.8	1.6	2.7	4.1	7.2	9.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6	< 0.5 ¹⁾	< 0.5 ¹⁾	0.7	1.3	2.2	3.3	5.9	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8	< 0.5 ¹⁾	< 0.5 ¹⁾	0.6	1.1	1.9	2.8	5.0	6.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			0.5	0.8	1.2	1.7	2.7	3.4	5.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
13					1.1	1.5	2.3	2.9	4.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
16					1.0	1.3	1.8	2.3	3.7	8.7	10.0 ²⁾	10.0 ²⁾
20					0.9	1.1	1.7	2.2	3.4	8.0	10.0 ²⁾	10.0 ²⁾
25							1.6	2.1	3.2	7.2	10.0 ²⁾	10.0 ²⁾
32								1.7	2.6	5.3	9.0	10.0 ²⁾
40									2.4	4.5	7.5	10.0

¹⁾ Selektivitäts-limit-current I_S is under 0.5 kA.

²⁾ Selektivitäts-limit-current I_S = rated breaking capacity I_{cn} of RCBO
shaded areas: no selectivity

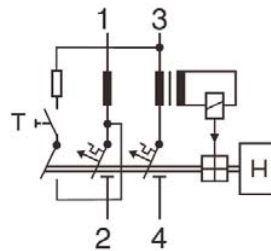
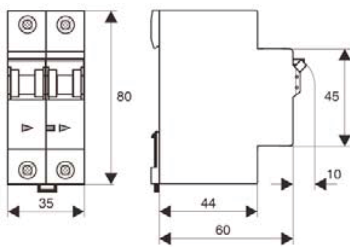
COMBINED RCCB/MCB DEVICES SERIES BOLF, 2-POLE – GENERAL INFORMATION



SCHRACK-INFO

- Combined RCCB/MCB device
- Type-A: Protects against special forms of residual pulsating DC which have not been smoothed
- Line voltage-independent tripping
- Contact position indicator red - green
- Fault current tripping indicator white - blue
- Twin-purpose terminal (lift/open-mouthed) above and below
- Guide for secure terminal connection
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Compatible with standard busbar
- Comprehensive range of accessories suitable for subsequent installation

DIMENSIONS AND WIRING DIAGRAMS



TECHNICAL DATA

Design according to		IEC/EN 61009
Current test marks as printed onto the device		
Tripping	line voltage-independent	instantaneous 250A (8/20µs) surge current-proof
Rated voltage U_e		230/400 V; 50 Hz
Operational voltage range		196-253 V
Rated tripping current $I_{\Delta n}$		30, 100, 300 mA
Rated non-tripping current $I_{\Delta no}$		0.5 $I_{\Delta n}$
Sensitivity		AC and pulsating DC
Selectivity class		3
Rated breaking capacity		BOx6 6kA, BOx1 10kA
Rated current		6 - 40 A
Rated peak withstand voltage		U_{imp} 4 kV (1.2/50µs)
Characteristic		B, C
Maximum back-up fuse (short circuit) 10 kA type		100 A gL (>10 kA)
Endurance	electrical comp. mechanical comp.	\geq 4.000 operating cycles \geq 20.000 operating cycles
MECHANICAL		
Frame size		45 mm
Device height		80 mm
Device width		35 mm (2 MW)
Mounting		3-position DIN rail clip, permits removal from existing busbar system
Upper and lower terminals		open mouthed/lift terminals
Terminal protection		finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity		1 - 25 mm ²
Busbar thickness		0.8 - 2 mm
Degree of protection switch		IP20
Degree of protection, built-in		IP40
Tripping temperature		-25°C to +40°C
Resistance to climatic conditions		acc. to IEC/EN 61009

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 2-POLE, PULSE CURRENT SENSITIVE, TYPE A, 30 mA, 2 MW



SCHRACK-INFO

- 10 kA, according to EN 61009

RATED CURRENT/CAPACITY	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A / 10kA	2	1	BOLF B10/2/003-A	9004840619928		BO618210
13A / 10kA	2	1	BOLF B13/2/003-A	9004840619959		BO618213
16A / 10kA	2	1	BOLF B16/2/003-A	9004840619973		BO618216
20A / 10kA	2	1	BOLF B20/2/003-A	9004840619980		BO618220
25A / 6kA	2	1	BOLF B25/2/003-A	9004840619997		BO668225
32A / 6kA	2	1	BOLF B32/2/003-A	9004840620009		BO668232
40A / 6kA	2	1	BOLF B40/2/003-A	9004840620016		BO668240
CHARACTERISTIC C						
10A / 10kA	2	1	BOLF C10/2/003-A	9004840620023		BO617210
13A / 10kA	2	1	BOLF C13/2/003-A	9004840620030		BO617213
16A / 10kA	2	1	BOLF C16/2/003-A	9004840620054		BO617216
20A / 10kA	2	1	BOLF C20/2/003-A	9004840620061		BO617220
25A / 6kA	2	1	BOLF C25/2/003-A	9004840620108		BO667225
32A / 6kA	2	1	BOLF C32/2/003-A	9004840620122		BO667232
40A / 6kA	2	1	BOLF C40/2/003-A	9004840620146		BO667240




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**RCBO – COMBINED RCCB/MCB, SERIES BOLF, 2-POLE,
PULSE CURRENT SENSITIVE, TYPE A, 100 mA, 2 MW** 



RATED CURRENT/CAPACITY	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A / 10kA	2	1	BOLF B10/2/01-A	9004840620207		BO718210
13A / 10kA	2	1	BOLF B13/2/01-A	9004840620214		BO718213
16A / 10kA	2	1	BOLF B16/2/01-A	9004840620221		BO718216
20A / 10kA	2	1	BOLF B20/2/01-A	9004840620238		BO718220
25A / 6kA	2	1	BOLF B25/2/01-A	9004840620245		BO768225
32A / 6kA	2	1	BOLF B32/2/01-A	9004840620368		BO768232
40A / 6kA	2	1	BOLF B40/2/01-A	9004840620405		BO768240
CHARACTERISTIC C						
10A / 10kA	2	1	BOLF C10/2/01-A	9004840620467		BO717210
13A / 10kA	2	1	BOLF C13/2/01-A	9004840620504		BO717213
16A / 10kA	2	1	BOLF C16/2/01-A	9004840620528		BO717216
20A / 10kA	2	1	BOLF C20/2/01-A	9004840620542		BO717220
25A / 6kA	2	1	BOLF C25/2/01-A	9004840620610		BO767225
32A / 6kA	2	1	BOLF C32/2/01-A	9004840620672		BO767232
40A / 6kA	2	1	BOLF C40/2/01-A	9004840620689		BO767240



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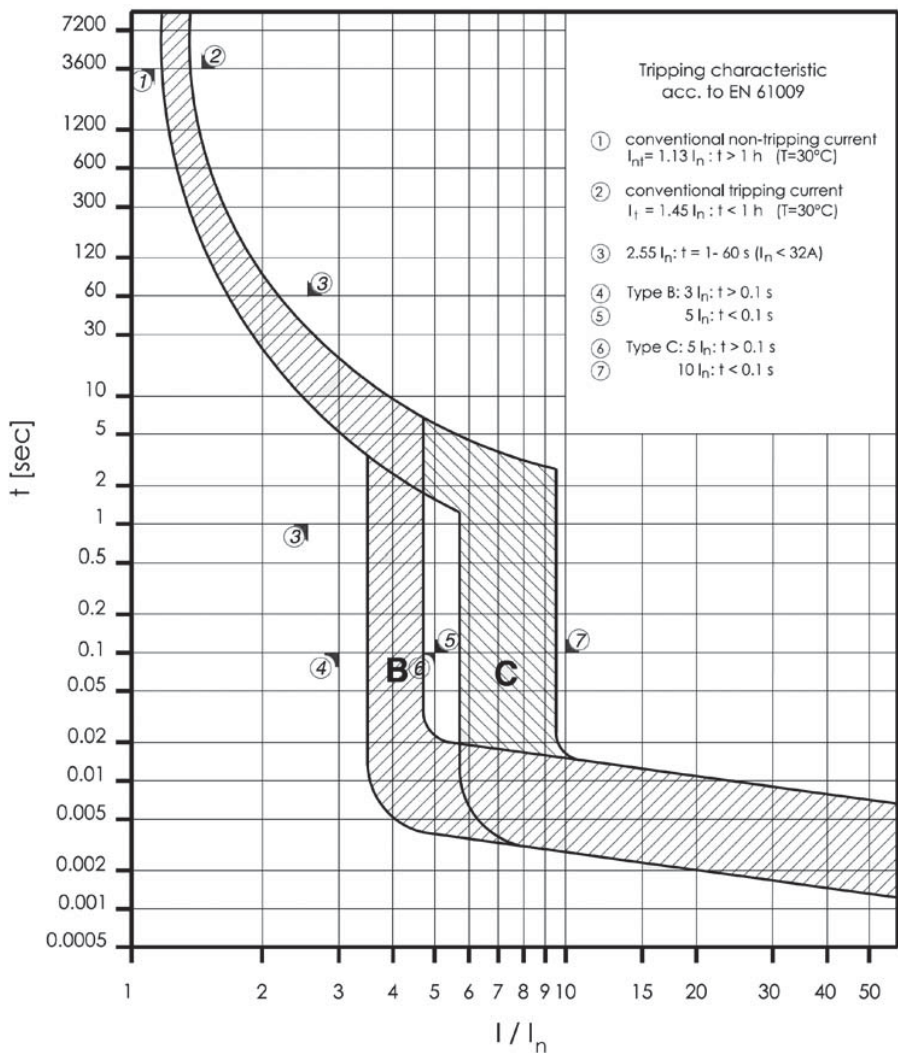
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TECHNICAL DATA OF COMBINED RCCB/MCB DEVICES SERIES BOLF, 2-POLE

TRIPPING CHARACTERISTIC, CHARACTERISTICS B AND C



INFLUENCE OF AMBIENT TEMPERATURE ON LOAD CARRYING CAPACITY OF BO21...., BO61.... AND BO71....

- o Values = max. allowed current in Ampere at the specific temperature
- o Temperature factor (%/K) = 0,5

Ambient temperature / °C										
In (A)	-40	-30	-25	-20	-10	0	10	20	30	40
6	8,1	7,8	7,7	7,5	7,2	6,9	6,6	6,3	6	5,7
10	13,5	13	12,8	12,5	12	11,5	11	10,5	10	9,5
13	17,6	16,9	16,6	16,3	15,6	15	14,3	13,7	13	12,4
16	21,6	20,8	20,4	20	19,2	18,4	17,6	16,8	16	15,2
20	27	26	25,5	25	24	23	22	21	20	19

INFLUENCE OF AMBIENT TEMPERATURE ON LOAD CARRYING CAPACITY OF BO66...., BO67....

- o Values = max. allowed current in Ampere at the specific temperature
- o Temperature factor (%/K) = 0,5

Ambient temperature / °C										
In (A)	-40	-30	-25	-20	-10	0	10	20	30	40
6	8,1	7,8	7,7	7,5	7,2	6,9	6,6	6,3	6	5,7
10	13,5	13	12,8	12,5	12	11,5	11	10,5	10	9,5
13	17,6	16,9	16,6	16,3	15,6	15	14,3	13,7	13	12,4
16	21,6	20,8	20,4	20	19,2	18,4	17,6	16,8	16	15,2
20	27	26	25,5	25	24	23	22	21	20	19
25	33,8	32,5	31,9	31,3	30	28,8	27,5	26,3	25	23,8
32	43,2	41,6	40,8	40	38,4	36,8	35,2	33,6	32	30,4
40	54	52	51	50	48	46	44	42	40	38

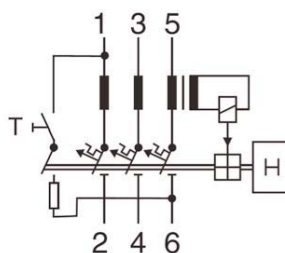
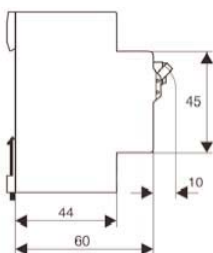
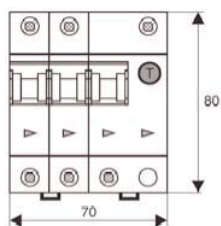
COMBINED RCCB/MCB DEVICES SERIES BOLF, 3-POLE – GENERAL INFORMATION



SCHRACK-INFO


- Combined RCCB/MCB device
- Type-A: Protects against special forms of residual pulsating DC which have not been smoothed
- Line voltage-independent tripping
- Contact position indicator red - green
- Fault current tripping indicator white - blue
- Twin-purpose terminal (lift/open-mouthed) above and below
- Guide for secure terminal connection
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Compatible with standard busbar
- Comprehensive range of accessories suitable for subsequent installation

DIMENSIONS AND WIRING DIAGRAMS



TECHNICAL DATA

Design according to	IEC/EN 61009
Current test marks as printed onto the device	
Tripping	line voltage-independent
	instantaneous 250A (8/20 μ s) surge current-proof
Rated voltage U_e	230/400 V; 50 Hz
Rated tripping current $I_{\Delta n}$	30, 100 mA
Rated non-tripping current $I_{\Delta no}$	0.5 $I_{\Delta n}$
Sensitivity	A (pulsating DC)
Selectivity class	3
Rated breaking capacity	10kA
Rated current	10 - 20 A
Rated peak withstand voltage	U_{imp} 4 kV (1.2/50 μ s)
Characteristic	B, C
Maximum back-up fuse (short circuit)	100 A gL (>10 kA)
Endurance	electrical comp. mechanical comp.
	\geq 2.000 operating cycles \geq 10.000 operating cycles
MECHANICAL	
Frame size	45 mm
Device height	80 mm
Device width	70 mm (4 MW)
Mounting	3-position DIN rail clip, permits removal from existing busbar system
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, BGV A3, ÖVE-EN 6
Terminal capacity	1 - 25 mm ²
Busbar thickness	0.8 - 2 mm
Degree of protection switch	IP20
Degree of protection, built-in	IP40
Tripping temperature	-25°C to +40°C
Resistance to climatic conditions	acc. to IEC/EN 61009

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 10 kA, 3-POLE, PULSE CURRENT SENSITIVE, TYPE A, 30 mA, 4 MW 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A	4	1	BOLF B10/3/003-A	9004840619867		BO618310
13A	4	1	BOLF B13/3/003-A	9004840619874		BO618313
16A	4	1	BOLF B16/3/003-A	9004840619881		BO618316
20A	4	1	BOLF B20/3/003-A	9004840619898		BO618320
CHARACTERISTIC C						
10A	4	1	BOLF C10/3/003-A	9004840619904		BO617310
13A	4	1	BOLF C13/3/003-A	9004840619911		BO617313
16A	4	1	BOLF C16/3/003-A	9004840619935		BO617316

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 10 kA, 3-POLE, PULSE CURRENT SENSITIVE, TYPE A/G, 30 mA, 4 MW, 10 ms TRIPPING DELAY, VERSION G 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A	4	1	BOLF B10/3/003-G/A	9004840620160		BO218310
13A	4	1	BOLF B13/3/003-G/A	9004840620177		BO218313
16A	4	1	BOLF B16/3/003-G/A	9004840620184		BO218316
20A	4	1	BOLF B20/3/003-G/A	9004840620191		BO218320
CHARACTERISTIC C						
10A	4	1	BOLF C10/3/003-G/A	9004840620511		BO217310
13A	4	1	BOLF C13/3/003-G/A	9004840620535		BO217313
16A	4	1	BOLF C16/3/003-G/A	9004840620559		BO217316
20A	4	1	BOLF C20/3/003-G/A	9004840620566		BO217320

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 10 kA, 3-POLE, PULSE CURRENT SENSITIVE, TYPE A, 100 mA, 4 MW 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A	4	1	BOLF B10/3/01-A	9004840619966		BO718310
13A	4	1	BOLF B13/3/01-A	9004840620047		BO718313
16A	4	1	BOLF B16/3/01-A	9004840620085		BO718316
20A	4	1	BOLF B20/3/01-A	9004840620078		BO718320
CHARACTERISTIC C						
10A	4	1	BOLF C10/3/01-A	9004840620092		BO717310
13A	4	1	BOLF C13/3/01-A	9004840620115		BO717313
16A	4	1	BOLF C16/3/01-A	9004840620139		BO717316
20A	4	1	BOLF C20/3/01-A	9004840620153		BO717320

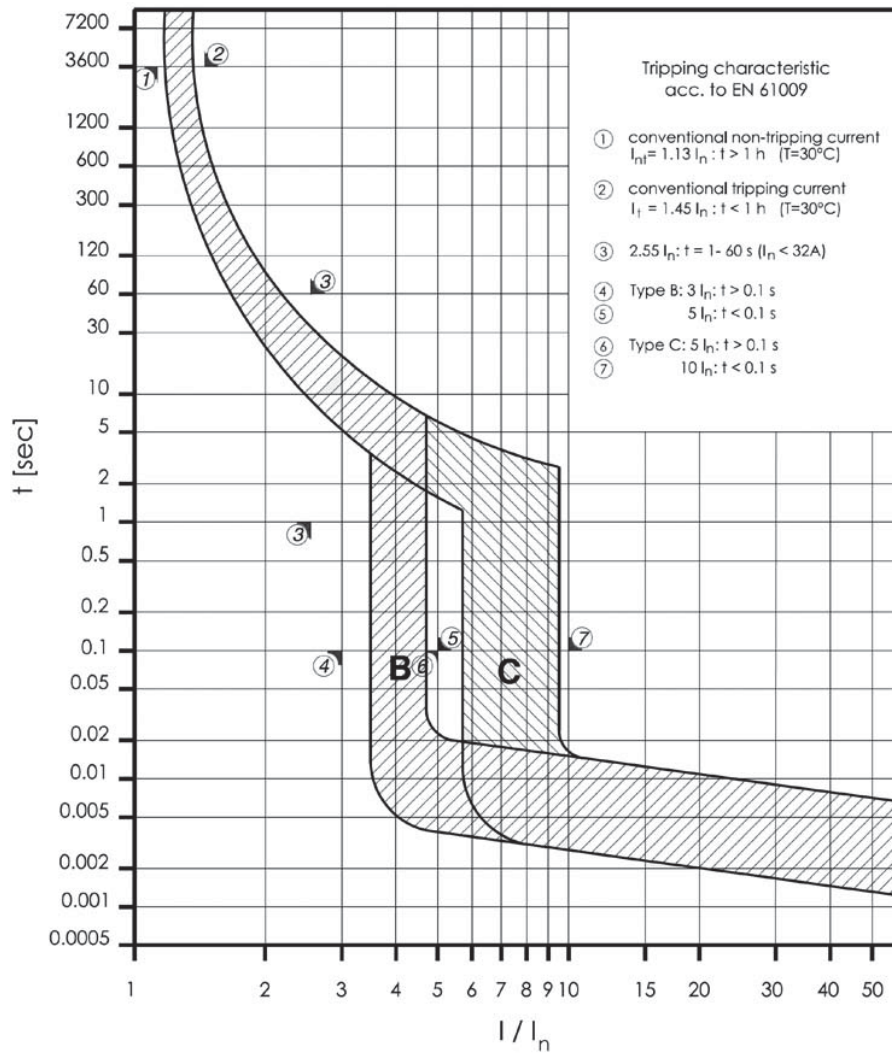
RCBO – COMBINED RCCB/MCB, SERIES BOLF, 10 kA, 3-POLE, PULSE CURRENT SENSITIVE, TYPE A/G, 100 mA, 4 MW, 10 ms TRIPPING DELAY, VERSION G 



RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
10A	4	1	BOLF B10/3/01-G/A	9004840620580		BO318310
13A	4	1	BOLF B13/3/01-G/A	9004840620597		BO318313
16A	4	1	BOLF B16/3/01-G/A	9004840620603		BO318316
20A	4	1	BOLF B20/3/01-G/A	9004840620627		BO318320
CHARACTERISTIC C						
10A	4	1	BOLF C10/3/01-G/A	9004840620634		BO317310
13A	4	1	BOLF C13/3/01-G/A	9004840620641		BO317313
16A	4	1	BOLF C16/3/01-G/A	9004840620658		BO317316
20A	4	1	BOLF C20/3/01-G/A	9004840620665		BO317320

TECHNICAL DATA OF COMBINED RCCB/MCB DEVICES SERIES BOLF, 3-POLE

TRIPPING CHARACTERISTIC, CHARACTERISTICS B AND C



INFLUENCE OF AMBIENT TEMPERATURE ON LOAD CARRYING CAPACITY

- o Values = max. allowed current in Ampere at the specific temperature
- o Temperature factor (%/K) = 0,5

In (A)	Ambient temperature / °C									
	-40	-30	-25	-20	-10	0	10	20	30	40
6	8,1	7,8	7,7	7,5	7,2	6,9	6,6	6,3	6	5,7
10	13,5	13	12,8	12,5	12	11,5	11	10,5	10	9,5
13	17,6	16,9	16,6	16,3	15,6	15	14,3	13,7	13	12,4
16	21,6	20,8	20,4	20	19,2	18,4	17,6	16,8	16	15,2
20	27	26	25,5	25	24	23	22	21	20	19

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 3-POLE, SWITCHABLE WITH N-CONDUCTOR, 4 MW – GENERAL INFORMATION



BO617316

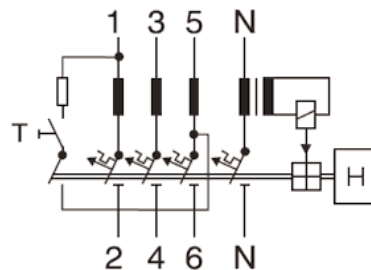
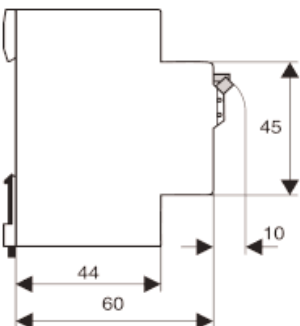
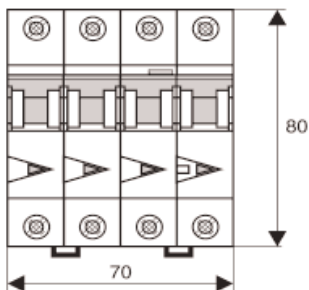
SCHRACK-INFO


- Type A: Pulse-current sensitive
- Connection independent of current direction
- Independent of mains voltage
- Lift and clamp terminals in both sides
- Insulated protection against incorrect insertion
- Window with trip indicator (white – blue)
- Window with colour (red/green) positively-driven contact position indicator

TECHNICAL DATA

Regulations:	according to IEC/EN 61009
Rated voltage:	U_e 230/400 V; 50 Hz
No. of poles:	three-pole with switchable N-conductor
Limits of the operating voltage:	196 - 253 V
Rated breaking capacity:	6 kA
Max. back-up fuse (short circuit):	100 A gG
Characteristics:	B, C and D
Rated current:	6 - 16 A
Selectivity class:	3
Type:	A (pulse-current sensitive)
Tripping:	independent of mains voltage, non-delayed 250A (8/20 μ s), surge current proof
Rated surge voltage protection:	U_{imp} 4 kV (1.2/50 μ s)
Rated residual currents:	$I_{\Delta n}$ 30 mA, 100 mA or 300 mA
Rated fault non-tripping current:	$I_{\Delta no}$ 0.5 $I_{\Delta n}$
Mounting:	special snap-on mounting for DIN rail EN 50 022
Terminals:	top and bottom clamp/lift terminals
Connection cross-section:	1-25 mm ²
Protection against incorrect insertion:	insulated on all terminals
Terminal protection:	finger and hand touch safe: according to BGV A3, ÖVE-EN 6
Degree of protection:	switch IP20, IP40 installed
Ambient temperature:	-25 °C to +40 °C
Climatic proofing:	according to IEC 68-2 (25 .. 55 °C / 90 .. 95% RH)

DIMENSIONS AND WIRING DIAGRAMS



**RCBO – COMBINED RCCB/MCB, SERIES BOLF, 6 kA, 3+N-POLE,
PULSE CURRENT SENSITIVE, TYPE A, 30 mA, 4 MW** 



BO667816

RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
13 A	4	1	B13 / 3N / 003-A	9004840623109		BO668813
16 A	4	1	B16 / 3N / 003-A	9004840626179		BO668816
CHARACTERISTIC C						
6 A	4	1	C6 / 3N / 003-A	9004840626223		BO667806
10 A	4	1	C10 / 3N / 003-A	9004840626230		BO667810
13 A	4	1	C13 / 3N / 003-A	9004840626247		BO667813
16 A	4	1	C16 / 3N / 003-A	9004840626254		BO667816
CHARACTERISTIC D						
16 A	4	1	D16 / 3N / 003-A	9004840626377		BO669816




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RCBO – COMBINED RCCB/MCB, SERIES BOLF, 6 kA, 3+N-POLE, PULSE CURRENT SENSITIVE, TYPE A, 100 mA 



BO767816

RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
13 A	4	1	B13 / 3N / 01-A	9004840626186		BO768813
16 A	4	1	B16 / 3N / 01-A	9004840626193		BO768816
CHARACTERISTIC C						
6 A	4	1	C6 / 3N / 01-A	9004840626261		BO767806
10 A	4	1	C10 / 3N / 01-A	9004840626278		BO767810
13 A	4	1	C13 / 3N / 01-A	9004840626285		BO767813
16 A	4	1	C16 / 3N / 01-A	9004840626292		BO767816
CHARACTERISTIC D						
6 A	4	1	D6 / 3N / 01-A	9004840626384		BO769806
10 A	4	1	D10 / 3N / 01-A	9004840626391		BO769810
13 A	4	1	D13 / 3N / 01-A	9004840626407		BO769813
16 A	4	1	D16 / 3N / 01-A	9004840626414		BO769816

RCBO – COMBINED RCCB/MCB, SERIES BOLF, 6 kA, 3+N-POLE, PULSE CURRENT SENSITIVE, TYPE A, 300 mA 

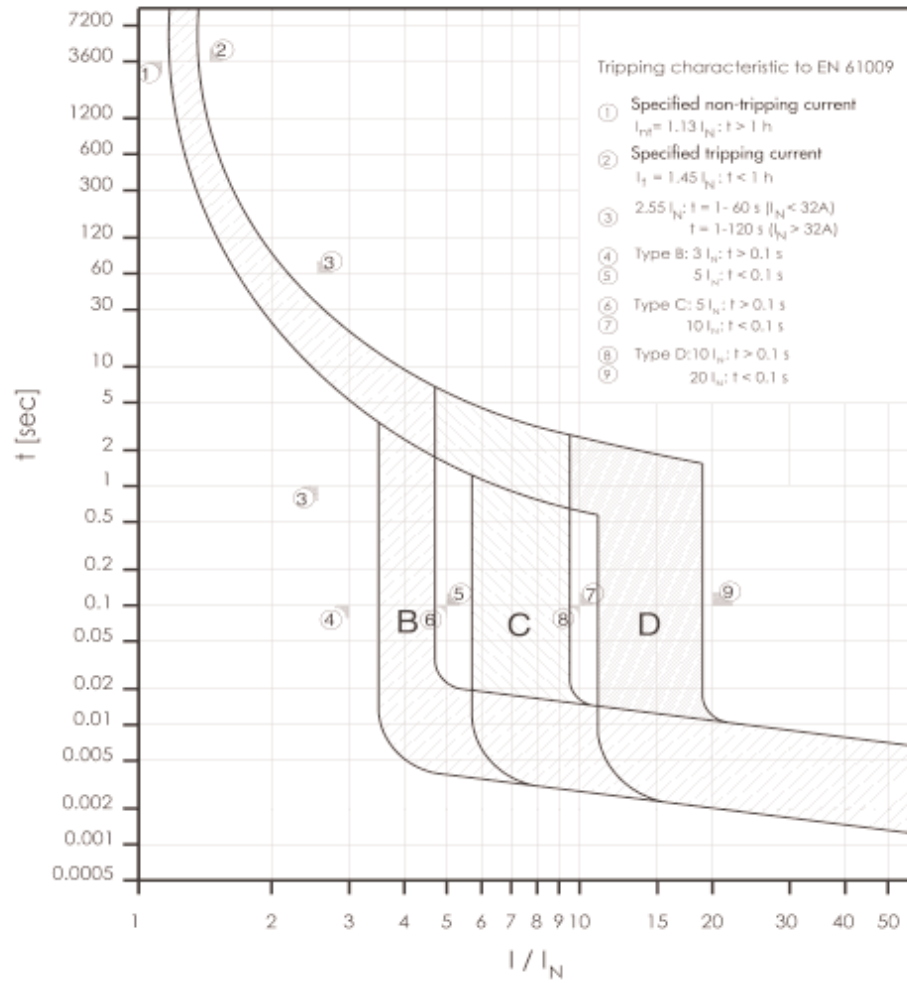


BO867813

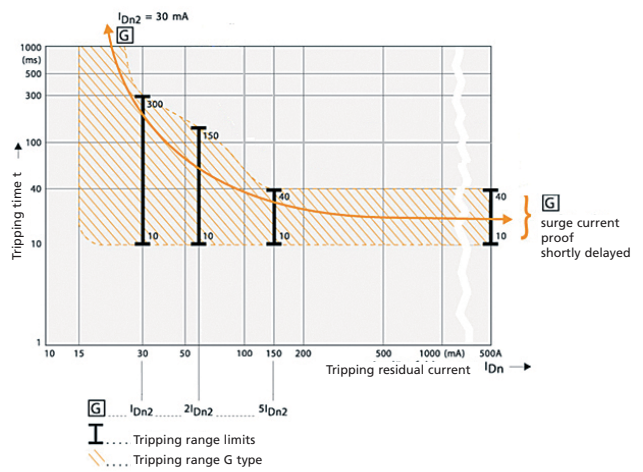
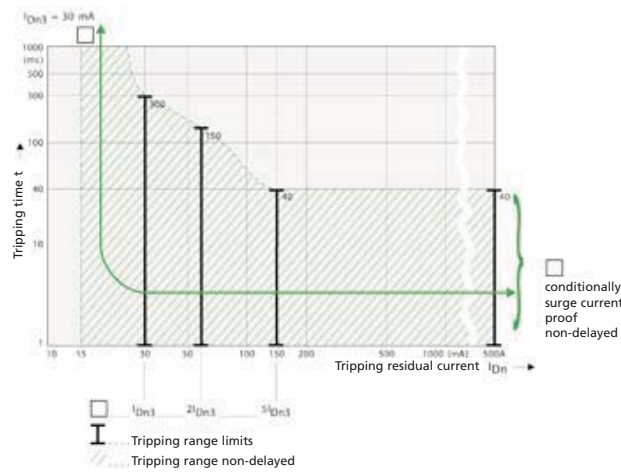
RATED CURRENT	MW	PU	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B						
13 A	4	1	B13 / 3N / 03-A	9004840626209		BO868813
16 A	4	1	B16 / 3N / 03-A	9004840626216		BO868816
CHARACTERISTIC C						
6 A	4	1	C6 / 3N / 03-A	9004840626308		BO867806
10 A	4	1	C10 / 3N / 03-A	9004840626315		BO867810
13 A	4	1	C13 / 3N / 03-A	9004840626322		BO867813
16 A	4	1	C16 / 3N / 03-A	9004840626339		BO867816

TECHNICAL DATA OF RCBO SERIES BOLF

TRIPPING CHARACTERISTIC CURVE RCBO – SERIES BOLF

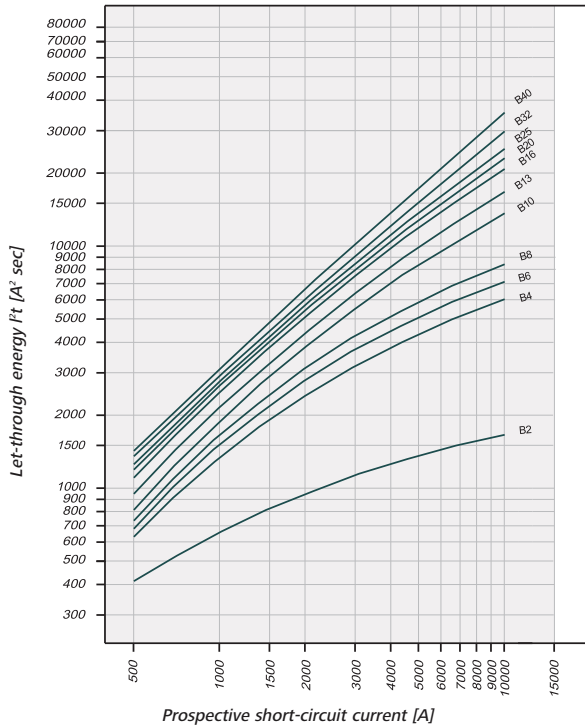


TRIPPING CHARACTERISTICS RCBO – SERIES BOLF

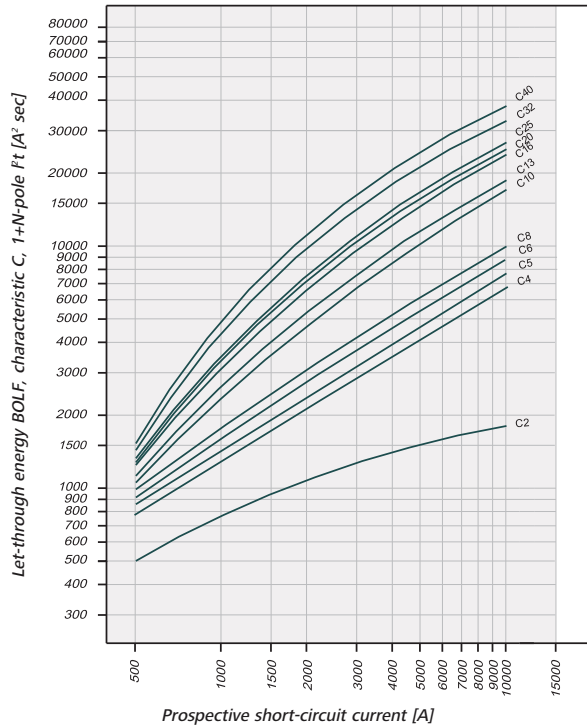


LET-THROUGH ENERGY DIAGRAM FOR RCBO – SERIES BOLF, 10 kA

Let-through energy BOLF, characteristic B, 1+N-pole



Let-through energy BOLF, characteristic C, 1+N-pole



SHORT-CIRCUIT SELECTIVITY FOR RCBO – SERIES ..1N/FOR DIAZED, D-FUSE, 10 kA

If a short circuit occurs, selectivity exists between the LS/FI breakers BOLF ..1N/ and the fuses in front up to the specified values of the selectivity limit current I_s [kA] (i.e., for short-circuit currents I_{ks} below I_s , only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).

*) according to EN 60898 D.5.2.b

Short-circuit selectivity **characteristic B** for fuse insert **DIAZED***

BOLF	DIAZED DII-DIV gL/gG								
	10	16	20	25	35	50	63	80	100
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5 ¹⁾	<0.5 ¹⁾	2.2	8.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.2	3.7	10.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		<0.5 ¹⁾	0.7	1.0	2.9	6.9	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8		<0.5 ¹⁾	0.6	1.0	2.4	5.1	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			0.6	0.9	1.9	3.3	7.0	10.0 ²⁾	10.0 ²⁾
13			0.5	0.7	1.6	2.8	5.7	9.0	10.0 ²⁾
16				0.7	1.4	2.4	4.4	7.0	10.0 ²⁾
20					1.3	2.2	4.0	6.3	10.0 ²⁾
25					1.3	2.1	3.8	5.8	10.0 ²⁾
32						2.0	3.5	5.2	9.5
40							3.1	4.5	8.1

Short-circuit selectivity **characteristic C** for fuse insert **DIAZED***

BOLF	DIAZED DII-DIV gL/gG								
	10	16	20	25	35	50	63	80	100
I_n [A]	10	16	20	25	35	50	63	80	100
2	<0.5 ¹⁾	<0.5 ¹⁾	1.7	6.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
4	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.3	4.2	8.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
5	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.1	3.6	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
6		<0.5 ¹⁾	0.6	1.0	2.9	5.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
8		<0.5 ¹⁾	<0.5	0.9	2.5	4.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
10			<0.5	0.7	1.5	2.6	5.3	9.0	10.0 ²⁾
13					1.4	2.3	4.6	7.6	10.0 ²⁾
16					1.2	1.8	3.4	5.5	10.0 ²⁾
20					1.2	1.7	3.1	5.0	10.0 ²⁾
25						1.6	2.9	4.6	10.0 ²⁾
32							2.3	3.4	7.7
40								2.9	6.2

1) Selectivity limit current I_s is less than 0.5 kA.

2) Selectivity limit current I_s = Rated breaking capacity I_{cn} of RCBO.

Darker areas: no selectivity

SHORT-CIRCUIT SELECTIVITY FOR RCBO – SERIES ../1N/FOR NEOZED, D0-FUSE, 10 kA

If a short circuit occurs, selectivity exists between the LS/FI breakers BOLF ../1N/ and the fuses in front up to the specified values of the selectivity limit current I_S [kA] (i.e., for short-circuit currents I_{KS} below I_S , only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).

*) according to EN 60898 D.5.2.b

Short-circuit selectivity **characteristic B** for fuse insert **NEOZED***

BOLF	NEOZED D01-D03 gL/gG									
I_n [A]	10	16	20	25	35	50	63	80	100	
2	<0.5 ¹⁾	0.7	1.6	3.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
4	<0.5 ¹⁾	<0.5 ¹⁾	0.6	0.9	2.9	10.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
6		<0.5 ¹⁾	0.5	0.8	2.4	8.2	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
8			0.6	0.8	2.0	6.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
10			0.5	0.8	1.6	3.7	6.0	10.0 ²⁾	10.0 ²⁾	
13			0.6	0.7	1.4	3.0	4.7	9.0	10.0 ²⁾	
16				0.6	1.2	2.6	3.9	7.0	10.0 ²⁾	
20					1.2	2.5	3.6	6.2	10.0 ²⁾	
25						1.2	2.3	3.3	5.7	10.0 ²⁾
32							2.3	3.1	5.1	10.0 ²⁾
40								2.8	4.5	9.5

Short-circuit selectivity **characteristic D** for fuse insert **NEOZED***

BOLF	NEOZED D01-D03 gL/gG										
I_n [A]	10	16	20	25	35	50	63	80	100		
2	<0.5 ¹⁾	0.5	0.5	2.4	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾		
4	<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	0.9	3.4	9.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾		
5	<0.5 ¹⁾	<0.5 ¹⁾	<0.5 ¹⁾	0.9	2.9	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾		
6		<0.5 ¹⁾	<0.5 ¹⁾	0.8	2.3	6.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾		
8			<0.5	0.7	2.1	5.5	9.5	10.0 ²⁾	10.0 ²⁾		
10			<0.5	0.6	1.3	2.9	4.5	8.9	10.0 ²⁾		
13					1.2	2.5	3.9	7.6	10.0 ²⁾		
16						1.0	2.1	3.0	5.5	10.0 ²⁾	
20							1.0	2.0	2.7	5.0	10.0 ²⁾
25								1.9	2.6	4.5	10.0 ²⁾
32									2.1	3.4	10.0 ²⁾
40										3.0	8.7

SHORT-CIRCUIT SELECTIVITY FOR RCBO – SERIES ../1N/FOR HRC-SIZE 00 FUSE, 10 kA

If a short circuit occurs, selectivity exists between the LS/FI breakers BOLF ../1N/ and the fuses in front up to the specified values of the selectivity limit current I_S [kA] (i.e., for short-circuit currents I_{KS} below I_S , only the line circuit breaker trips, for short-circuit currents above, both protective devices trip).

*) according to EN 60898 D.5.2.b

Short-circuit selectivity **characteristic B** for fuse insert **NH-00***

BOLF	NH-00 gL/gG												
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160	
2	<0.5 ¹⁾	1.1	3.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
4	<0.5 ¹⁾	0.5	0.9	1.6	2.8	4.4	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
6	<0.5 ¹⁾	0.5	0.8	1.4	2.2	3.3	7.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
8	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.0	1.9	2.8	5.3	7.8	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
10		<0.5 ¹⁾	0.7	0.9	1.5	2.1	3.4	4.3	7.3	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
13		<0.5 ¹⁾	0.6	0.8	1.4	1.8	2.8	3.6	5.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
16			0.6	0.7	1.2	1.5	2.4	3.0	4.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
20				0.7	1.1	1.5	2.2	2.8	4.2	9.2	10.0 ²⁾	10.0 ²⁾	
25					0.7	1.1	1.4	2.1	2.6	4.0	8.2	10.0 ²⁾	
32						1.0	1.4	2.0	2.5	3.7	7.1	10.0 ²⁾	
40								2.3	3.4	6.2	8.8	10.0 ²⁾	

Short-circuit selectivity **characteristic C** for fuse insert **NH-00***

BOLF	NH-00 gL/gG												
I_n [A]	16	20	25	32	35	40	50	63	80	100	125	160	
2	<0.5 ¹⁾	0.6	2.6	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
4	<0.5 ¹⁾	<0.5 ¹⁾	0.9	1.8	3.2	4.8	8.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
5	<0.5 ¹⁾	<0.5 ¹⁾	0.8	1.6	2.7	4.1	7.2	9.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
6	<0.5 ¹⁾	<0.5 ¹⁾	0.7	1.3	2.2	3.3	5.9	8.0	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
8	<0.5 ¹⁾	<0.5 ¹⁾	0.6	1.1	1.9	2.8	5.0	6.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
10			0.5	0.8	1.2	1.7	2.7	3.4	5.5	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
13					1.1	1.5	2.3	2.9	4.7	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾	
16						1.0	1.3	1.8	2.3	3.7	8.7	10.0 ²⁾	
20							0.9	1.1	1.7	2.2	3.4	8.0	10.0 ²⁾
25								1.6	2.1	3.2	7.2	10.0 ²⁾	
32									1.7	2.6	5.3	9.0	10.0 ²⁾
40										2.4	4.5	7.5	10.0

1) Selectivity limit current I_S is less than 0.5 kA.
 2) Selectivity limit current I_S = Rated breaking capacity I_{cn} of RCBO.
 Darker areas: no selectivity

SHORT-CIRCUIT SELECTIVITY FOR RCBO – SERIES BOLF 3N, 6 kA

BO.6...	Fuse D01, D02, DQ3 (Neozed) characteristic gG, nominal voltage: AC 400 V					
	16 A	20 A	25 A	32 A	35 A	40 A
B13	<0.5	0.5	0.8	1.7	1.9	3
B16	n.s.	0.5	0.7	1.5	1.7	2.4
C10	<0.5	0.5	0.8	1.7	1.9	3
C13	<0.5	0.5	0.7	1.6	1.8	2.8
C16	n.s.	<0.5	0.7	1.3	1.5	2.2

BO.6...	Fuse DM, Dill, DIV (Diazed), characteristic gG, nominal voltage: AC 500 V					
	16 A	20 A	25 A	32 A	35 A	50 A
B13	<0.5	0.5	0.8	1.5	2.4	4.5
B16	n.s.	0.5	0.8	1.3	2	3.4
C10	<0.5	0.5	0.8	1.5	2.4	4.4
C13	<0.5	0.5	0.8	1.4	2.3	4.2
C16	n.s.	<0.5	0.7	1.2	1.9	3.2

BO.6...	Fuse NH 000, 00, characteristic gG, nominal voltage: AC 500 V					
	16 A	20 A	25 A	32 A	35 A	40 A
B13	<0.5	<0.5	0.8	1.3	1.9	2.7
B16	n.s.	<0.5	0.7	1.1	1.6	2.2
C10	<0.5	<0.5	0.7	1.3	1.9	2.7
C13	<0.5	<0.5	0.7	1.2	1.8	2.5
C16	n.s.	<0.5	0.6	1	1.5	2

▀ TOTAL POWER DISSIPATION FOR I_n SERIES BOLF ..1N / ..

Characteristic B

BOLF	
I _n [A]	P [W]
2	1.4
4	1.5
5	2.0
6	1.7
8	2.4
10	2.3
12	3.1
13	3.4
15	3.4
16	3.6
20	5.4
25	5.0
32	6.1
40	8.2

Characteristic C

BOLF	
I _n [A]	P [W]
2	1.4
4	1.5
5	2.0
6	1.7
8	2.4
10	2.3
12	3.1
13	3.4
15	3.4
16	3.6
20	5.4
25	5.0
32	6.1
40	8.2

Characteristic D

BOLF	
I _n [A]	P [W]
2	1.0
4	1.5
5	1.8
6	1.7
8	1.7
10	2.3
12	2.7
13	2.9
15	3.3
16	3.5
20	4.3

POWER DISSIPATION OF RCBO SERIES BOLF 3N

	Characteristic B	Characteristic C	Characteristic D
6A	-	2.4 W	4.8 W
10A	-	8.2 W	7.8 W
13A	10.2 W	9.4 W	7.7 W
16A	11.6 W	10.9 W	11.2 W

INFLUENCE OF AMBIENT TEMPERATURE ON THE LOAD CAPACITY OF SERIES BOLF ..1N / .. (CB PART)

I _n [A]	Ambient temperature T (°C)																	
	-40	-30	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
2	2.6	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.0	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.7
4	5.1	5.0	4.9	4.8	4.7	4.5	4.3	4.2	4.0	3.9	3.9	3.8	3.7	3.6	3.5	3.5	3.4	3.3
5	6.4	6.2	6.2	6.0	5.8	5.6	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.1
6	7.7	7.5	7.4	7.2	7.0	6.7	6.5	6.3	6.0	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5.0
8	10.2	9.9	9.9	9.6	9.3	9.0	8.7	8.4	8.0	7.9	7.7	7.6	7.4	7.2	7.1	6.9	6.8	6.6
10	13	12	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9.0	8.9	8.7	8.5	8.3
12	15	15	15	14	14	13	13	13	12	12	12	11	11	11	11	10	10	10
13	17	16	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
15	19	19	19	18	17	17	16	16	15	15	15	14	14	14	13	13	13	12
16	20	20	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13
20	26	25	25	24	23	22	22	21	20	20	19	19	19	18	18	17	17	17
25	32	31	31	30	29	28	27	26	25	25	24	24	23	23	22	22	21	21
32	41	40	40	38	37	36	35	33	32	32	31	30	30	29	28	28	27	26
40	51	50	49	48	47	45	43	42	40	39	39	38	37	36	35	35	34	33

INFLUENCE OF AMBIENT TEMPERATURE ON THE LOAD CAPACITY OF SERIES BOLF ..3N

	Ambient temperature																	
	-40	-30	-25	-20	-10	0	10	20	30	35	40	45	50	55	60	65	70	75
6	7.7	7.5	7.4	7.2	7	6.7	6.5	6.3	6	5.9	5.8	5.7	5.6	5.4	5.3	5.2	5.1	5
10	13	12	12	12	12	11	11	10	10	9.9	9.7	9.5	9.3	9	8.9	8.7	8.5	8.3
13	17	16	16	16	15	15	14	14	13	13	13	12	12	12	12	11	11	11
16	20	20	20	19	19	18	17	17	16	16	15	15	15	14	14	14	14	13

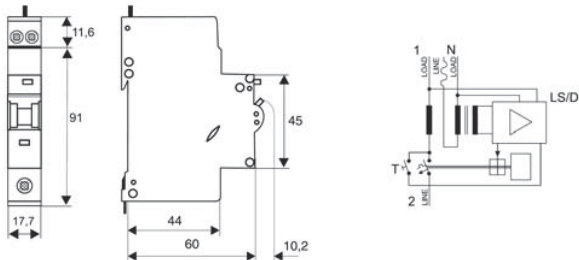
RCBO – SINGLE MODULE RCBO SERIES LS-DI/PT – GENERAL INFORMATION



SCHRACK-INFO

- Tripping dependent of line voltage
- Permanently connected neutral conductor
- Can be connected to standard busbar at the lower side
- Contact position colour indicator (red/green)
- Sensitivity: AC 6 kA or 10 kA

DIMENSIONS AND WIRING DIAGRAMS



TECHNICAL DATA

Standards:	IEC/EN 61009
Rated voltage:	240 V/50 Hz
Rated residual current:	10 mA, 30 mA, 100 mA, 300 mA
Endurance:	electrical: ≥ 4.000 operating cycles mechanical: ≥ 20.000 operating cycles
Number of poles:	1+N, pole switched, N led through (solid neutral)
Voltage limits:	184 - 264 V (necessary for the test button)
Rated breaking capacity:	6kA and 10 kA
Charakteristic:	B and C
Selectivity class:	3
Tripping temperature:	-25 °C up to +40 °C
Climatic conditions:	in according to IEC 68-2 (25...55°C / 90...95% RH)
Max. back up fuse:	100 A gL (>10 kA)
Finger and hand touch safe:	in according to VBG 4 / ÖVE EN 6, BGV A3
Special snap-on mounting:	for DIN rails EN 50 022
Degree of protection:	IP 20 built in cover IP40
Lower terminals:	Multi-purpose terminal (lift/open mouthed)
Upper terminals:	Lift terminals
Terminal capacity:	1 - 25 mm ²
Torque of terminals:	2 - 2,4 Nm

■ SINGLE MODULE RCBO SERIES LS-DI/PT 10 kA, 1+N, AC-SENSITIVE, TYPE AC, 30 mA, 1 MW



RATED CURRENT / PIGTAIL COLOR	MW	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C					
6 A / black	1	PT-C 6/003	9004840683844		BI057506CM
10 A / black	1	PT-C 10/003	9004840683851		BI057510CM
16 A / black	1	PT-C 16/003	9004840683868		BI057516CM
20 A / black	1	PT-C 20/003	9004840683875		BI057520CM
25 A / black	1	PT-C 25/003	9004840683882		BI057525CM
32 A / black	1	PT-C 32/003	9004840683899		BI057532CM

■ SINGLE MODULE RCBO SERIES LS-DI/PT 6 kA, 1+N, AC-SENSITIVE, TYPE AC, 30 mA, 1 MW



RATED CURRENT / PIGTAIL COLOR	MW	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC B					
6 A / blue	1	PT-B 6/003	9004840683776		BI658506CM
10 A / blue	1	PT-B 10/003	9004840683783		BI658510CM
16 A / blue	1	PT-B 16/003	9004840683790		BI658516CM
20 A / blue	1	PT-B 20/003	9004840683806		BI658520CM
25 A / blue	1	PT-B 25/003	9004840683813		BI658525CM
32 A / blue	1	PT-B 32/003	9004840683820		BI658532CM
40 A / blue	1	PT-B 40/003	9004840683837		BI658540CM
CHARACTERISTIC C					
6 A / blue	1	PT-C 6/003	9004840683684		BI657506CM
10 A / blue	1	PT-C 10/003	9004840683691		BI657510CM
16 A / blue	1	PT-C 16/003	9004840683707		BI657516CM
20 A / blue	1	PT-C 20/003	9004840683714		BI657520CM
25 A / blue	1	PT-C 25/003	9004840683721		BI657525CM
32 A / blue	1	PT-C 32/003	9004840683738		BI657532CM
40 A / blue	1	PT-C 40/003	9004840683745		BI657540CM

**/// SINGLE MODULE RCBO SERIES LS-DI/PT 6 kA1+N,
AC-SENSITIVE, TYPE AC, 100 mA, 1 MW** 



RATED CURRENT / PIGTAIL COLOR	MW	TYPE	EAN-CODE	AVAILABLE	ORDER NO.
CHARACTERISTIC C					
32 A	1	PT-C 32/03	9004840683752		BI757532CM
40 A	1	PT-C 40/03	9004840683769		BI757540CM



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