DATA SHEET: COMBINED FAULT-CURRENT PROTECTIVE SWITCH, SERIES BOLF, 3P+N

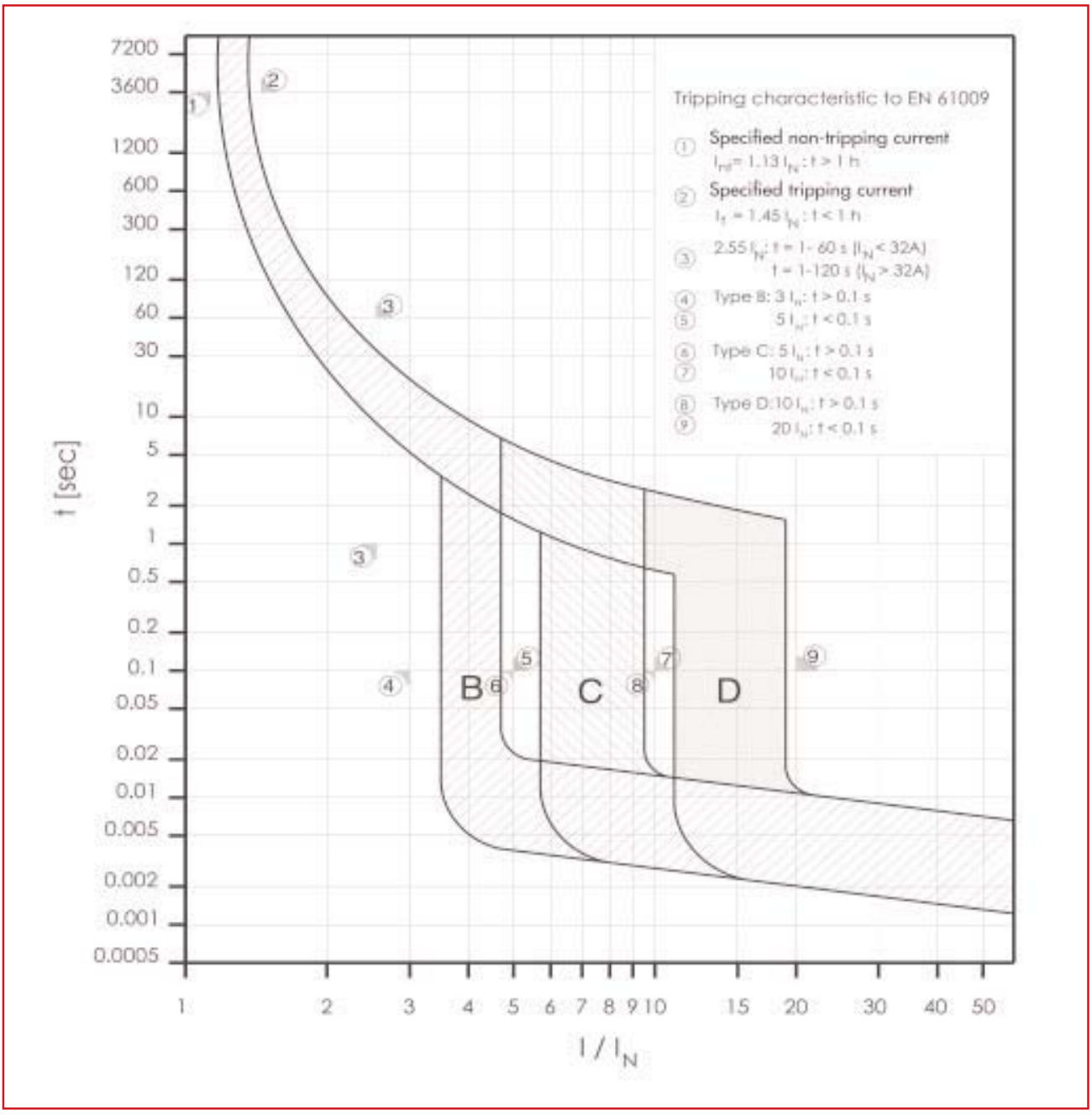
SCHRACK-INFO

- Typ A (pulse)
- Connection on both sides are possible
- Tripping independent of line voltage
- Additional connection capability for busbar block system
- Open mouthed terminal and lift clamps both sides
- Isolated fail-connection - protection
- White: switch off manual contact position colour indicator (Red/Green)
- Indicator: blue: switch off default

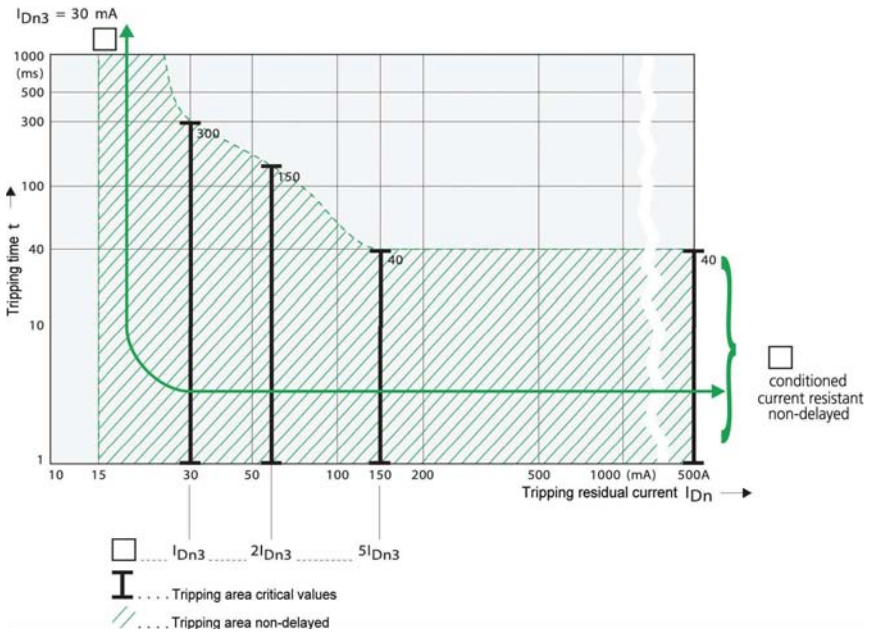
TECHNICAL DATA

Standard:	in according to IEC/EN 61009
Rated voltage:	U_e 230/400V; 50Hz
Endurance:	electrical ≥ 4.000 mechanical ≥ 20.000
Pole:	three pole with switchable neutral
Prescriptive limits of voltage:	196 - 253 V
Rated breaking capacity:	6 kA
Max. back-up fuse (short circuit):	100 A gL/gG
Characteristic:	B, C and D
Rated current:	6 - 16 A
Selectivity class:	3
Type:	A (pulse)
Tripping:	independent of line voltage, undelayed 250A (8/20µs), impulse current proof
Rated impulse voltage proof:	U_{imp} 4 kV (1,2/50µs)
Rated residual current:	$I_{\Delta n}$ 30mA, 100mA or 300 mA
Rated non switch off current:	$I_{\Delta no}$ 0,5 $I_{\Delta n}$
Special snap-on mounting:	for DIN rails EN 50 022
Terminals:	open mouthed terminal and lift clamps both sides
Terminal capacity:	1-25 mm^2
Terminal protection:	isolated fail-connection – protection
Finger and hand touch safe:	accord. to VBG 4, ÖVE-EN 6
Max. material thickness of busbar:	0,8 - 2 mm
Degree of protection:	RCBO IP20, in cover IP40
Tripping temperature:	-25 °C up to +40 °C
Climatic conditions:	in according IEC 68-2 (25...55°C / 90...95% RH)

TRIPPING CHARACTERISTIC



TRIPPING CURRENT



INFLUENCE OF AMBIENT TEMPERATURE ON CAPACITIES

	Ambient temperature T [°C]																	
	-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	147	14	13

POWER LOSS

	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

INTERNAL RESISTANCE (AT RT) BOLF-../3N/..

B CHARACTERISTIC CURVE

BOLF	L-conductor		N-conducter	
I_n [A]	z* [mΩ]	R [mΩ]	z* [mΩ]	R [mΩ]
13	15,2	15,1	3,9	3,8
16	9,8	9,7	3,9	3,8

* 50Hz

C CHARACTERISTIC CURVE

BOLF	L-conductor		N-conducter	
I_n [A]	z* [mΩ]	R [mΩ]	z* [mΩ]	R [mΩ]
6	42,9	41,8	3,9	3,8
10	19	18,9	3,9	3,8
13	15,2	15,1	3,9	3,8
16	9,8	9,7	3,9	3,8

* 50Hz

D CHARACTERISTIC CURVE

BOLF	L-conductor		N-conducter	
I_n [A]	z* [mΩ]	R [mΩ]	z* [mΩ]	R [mΩ]
6	41,8	41,7	3,9	3,8
10	18,8	18,7	3,9	3,8
13	13	13	3,9	3,8
16	9,5	9,5	3,9	3,8

* 50Hz

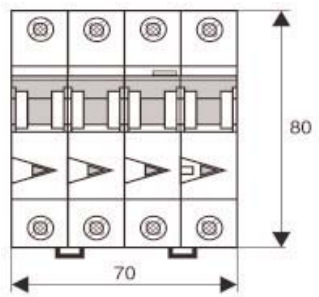
SHORT-CIRCUIT SELECTIVITY

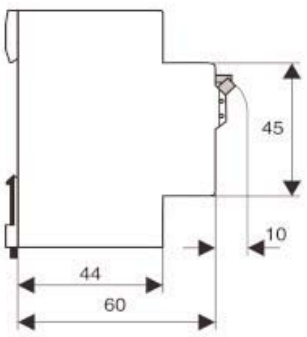
BO.6....	fuse link D01, D02, D03, Operating class gG, Rated voltage: AC 400 V					
	16 A	20 A	25 A	32 A	35 A	40 A
B13	<0,5	0,5	0,8	1,7	1,9	3
B16	n.s.	0,5	0,7	1,5	1,7	2,4
C10	<0,5	0,5	0,8	1,7	1,9	3
C13	<0,5	0,5	0,7	1,6	1,8	2,8
C16	n.s.	<0,5	0,7	1,3	1,5	2,2

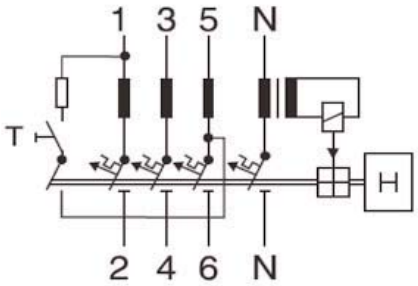
BO.6....	fuse link DII, DIII, DIV, Operating class gG, Rated voltage: AC 500 V					
	16	20	25	32	35	50
B13	<0,5	0,5	0,8	1,5	2,4	4,5
B16	n.s.	0,5	0,8	1,3	2	3,4
C10	<0,5	0,5	0,8	1,5	2,4	4,4
C13	<0,5	0,5	0,8	1,4	2,3	4,2
C16	n.s.	<0,5	0,7	1,2	1,9	3,2

BO.6....	fuse link NH 000, 00, Operating class gG, Rated 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

DIMENSIONS AND WIRING DIAGRAM







KENNLINIE B

DECRIPTION	ORDER NO.
30mA	
RCBO characteristic B, 13A, 3+N, 30mA, typ A, 6kA	BO668813
RCBO characteristic B, 16A, 3+N, 30mA, typ A, 6kA	BO668816
100mA	
RCBO characteristic B, 13A, 3+N, 100mA, typ A, 6kA	BO768813
RCBO characteristic B, 16A, 3+N, 100mA, typ A, 6kA	BO768816
300mA	
RCBO characteristic B, 13A, 3+N, 300mA, typ A, 6kA	BO868813
RCBO characteristic B, 16A, 3+N, 300mA, typ A, 6kA	BO868816

KENNLINIE C

DECRIPTION	ORDER NO.
30mA	
RCBO charakteristic C, 6A, 3+N, 30mA, Typ A, 6kA	BO667806
RCBO charakteristic C, 10A, 3+N, 30mA, Typ A, 6kA	BO667810
RCBO charakteristic C, 13A, 3+N, 30mA, Typ A, 6kA	BO667813
RCBO charakteristic C, 16A, 3+N, 30mA, Typ A, 6kA	BO667816
100mA	
RCBO charakteristic C, 6A, 3+N, 100mA, Typ A, 6kA	BO767806
RCBO charakteristic C, 10A, 3+N, 100mA, Typ A, 6kA	BO767810
RCBO charakteristic C, 13A, 3+N, 100mA, Typ A, 6kA	BO767813
RCBO charakteristic C, 16A, 3+N, 100mA, Typ A, 6kA	BO767816
300mA	
RCBO charakteristic C, 6A, 3+N, 300mA, Typ A, 6kA	BO867806
RCBO charakteristic C, 10A, 3+N, 300mA, Typ A, 6kA	BO867810
RCBO charakteristic C, 13A, 3+N, 300mA, Typ A, 6kA	BO867813
RCBO charakteristic C, 16A, 3+N, 300mA, Typ A, 6kA	BO867816

KENNLINIE D

DECRIPTION	ORDER NO.
30mA	
RCBO charakteristic D, 6A, 3+N, 30mA, Typ A, 6kA	BO669806
RCBO charakteristic D, 10A, 3+N, 30mA, Typ A, 6kA	BO669810
RCBO charakteristic D, 13A, 3+N, 30mA, Typ A, 6kA	BO669813
RCBO charakteristic D, 16A, 3+N, 30mA, Typ A, 6kA	BO669816
100mA	
RCBO charakteristic D, 6A 3+N, 100mA, Typ A, 6kA	BO769806
RCBO charakteristic D, 10A 3+N, 100mA, Typ A, 6kA	BO769810
RCBO charakteristic D, 13A 3+N, 100mA, Typ A, 6kA	BO769813
RCBO charakteristic D, 16A 3+N, 100mA, Typ A, 6kA	BO769816