

Combined protection switches

TRACON		xP 	x17.5 	I _n (A)	I _{cn} EN60698
KVKE	B, C	2	1	6 – 32 A	6 kA
KVK	B, C	2	2	6 – 32 A	3 kA
KVKM	B, C	2	2	6 – 40 A	6 kA

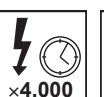
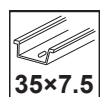
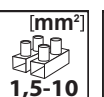
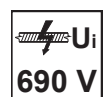
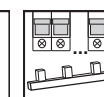
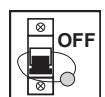
The combined protective switch is mainly used in electrical installations of buildings, for personal, overload and short circuit protection. It is especially suitable for electrical protection of rooms with increased safety requirements.

The current transformer of the protective switch, namely the magnetic quick breaker and the bimetallic, thermal, residual current breaker are placed in the same box. The device has an optical sign, which turns red if the break occurs due to a defect (overload, short circuit, or earth circuit). At manual switching-off, this red colour does not appear. By pressing the "T" pushbutton, the residual current switching part of the product can be checked. This check should be made at least once in a month.

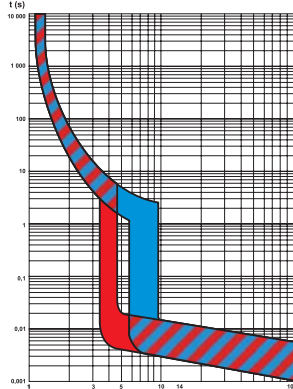
Thanks to its dimensions, this switch can easily replace the existing protective device (circuit breaker).



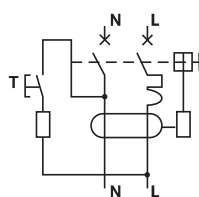
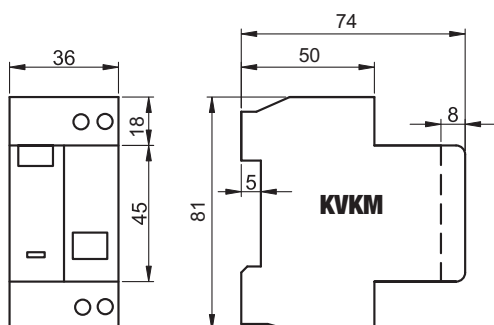
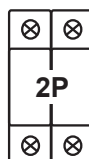
KVKM type combined protective switches, electromechanical

	230 V AC			IP 20			T_a -25...+55°C		V0 UL94		I_{cn} EN 60898 6 kA	
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Tripping characteristic



TRACON		I _n (A)	IΔ _n (mA)
			
KVKMB-6/030	KVKM-6/030	6	30
KVKMB-6/100	KVKM-6/100	6	100
KVKMB-6/300	KVKM-6/300	6	300
KVKMB-10/030	KVKM-10/030	10	30
KVKMB-10/100	KVKM-10/100	10	100
KVKMB-10/300	KVKM-10/300	10	300
KVKMB-16/030	KVKM-16/030	16	30
KVKMB-16/100	KVKM-16/100	16	100
KVKMB-16/300	KVKM-16/300	16	300
KVKMB-20/030	KVKM-20/030	20	30
KVKMB-20/100	KVKM-20/100	20	100
KVKMB-20/300	KVKM-20/300	20	300
KVKMB-25/030	KVKM-25/030	25	30
KVKMB-25/100	KVKM-25/100	25	100
KVKMB-25/300	KVKM-25/300	25	300
KVKMB-32/030	KVKM-32/030	32	30
KVKMB-32/100	KVKM-32/100	32	100
KVKMB-32/300	KVKM-32/300	32	300
KVKMB-40/030	KVKM-40/030	40	30
KVKMB-40/100	KVKM-40/100	40	100
KVKMB-40/300	KVKM-40/300	40	300



RELEVANT STANDARD
EN 60898-1

RELEVANT STANDARD
EN 61009-1



The electro-mechanic RCCB protects against electric shock even in case of braking of neutral-wire!

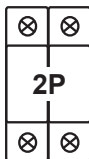
KVK type combined protective switches

230
V ACIP
20V0
UL94I_{cn}
EN 60898
3 kA

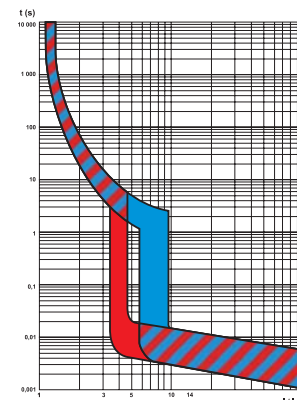
TRACON

I_n
(A)I_{Δn}
(mA)

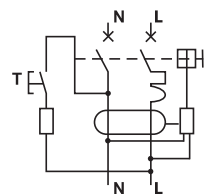
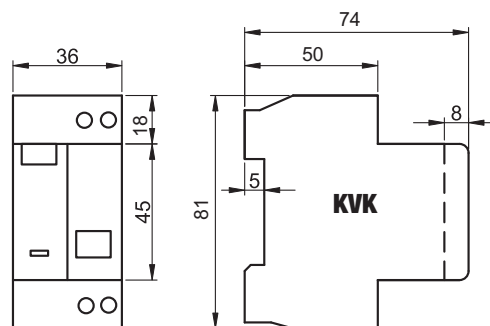
KVKB-6/03	KVK-6/03	6	30
KVKB-6/10	KVK-6/10	6	100
KVKB-6/30	KVK-6/30	6	300
KVKB-10/03	KVK-10/03	10	30
KVKB-10/10	KVK-10/10	10	100
KVKB-10/30	KVK-10/30	10	300
KVKB-16/03	KVK-16/03	16	30
KVKB-16/10	KVK-16/10	16	100
KVKB-16/30	KVK-16/30	16	300
KVKB-20/03	KVK-20/03	20	30
KVKB-20/10	KVK-20/10	20	100
KVKB-20/30	KVK-20/30	20	300
KVKB-25/03	KVK-25/03	25	30
KVKB-25/10	KVK-25/10	25	100
KVKB-25/30	KVK-25/30	25	300
KVKB-32/03	KVK-32/03	32	30
KVKB-32/10	KVK-32/10	32	100
KVKB-32/30	KVK-32/30	32	300



Tripping characteristic



E3



KVKVE Combined protective switch with one-module width

230
V ACIP
20V0
UL94I_{cn}
EN 60898
6 kA

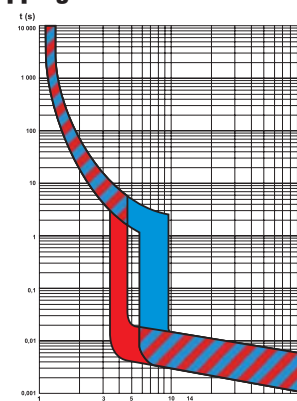
TRACON

I_n
(A)I_{Δn}
(mA)

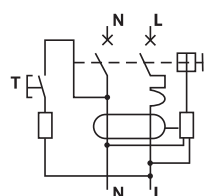
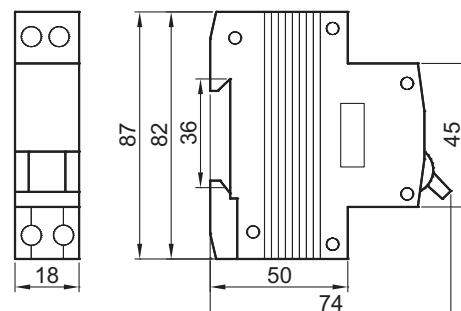
KVKVEB-6/30	KVKVE-6/30	6	30
KVKVEB-6/100	KVKVE-6/100	6	100
KVKVEB-10/30	KVKVE-10/30	10	30
KVKVEB-10/100	KVKVE-10/100	10	100
KVKVEB-13/30	KVKVE-13/30	13	30
KVKVEB-13/100	KVKVE-13/100	13	100
KVKVEB-16/30	KVKVE-16/30	16	30
KVKVEB-16/100	KVKVE-16/100	16	100
KVKVEB-20/30	KVKVE-20/30	20	30
KVKVEB-20/100	KVKVE-20/100	20	100
KVKVEB-25/30	KVKVE-25/30	25	30
KVKVEB-25/100	KVKVE-25/100	25	100
KVKVEB-32/30	KVKVE-32/30	32	30
KVKVEB-32/100	KVKVE-32/100	32	100



Tripping characteristic



E3

RELEVANT STANDARD
EN 61009-1

Residual current circuit breakers

TRACON		xP	I_n (A)	$I_{\Delta n}$ (mA)	I_{cn} EN60698
RB		2, 4	25, 40, 63	30, 100, 300, 500	4,5 kA
TFV		2, 4	16, 25, 40, 63	30, 100, 300	6 kA
TFVH		4	80, 100, 125	30, 100, 300	6 kA
TFG		2, 4	16, 25, 40, 63	30, 100, 300	6 kA
TFGA		–	16	30	6 kA
TFIG		2, 4	16, 25, 40, 63, 80, 100	30, 100, 300	10 kA

TRACON	Denomination	RB	TFV	TFVH	TFG	TFIG
EDS-□, EDFK-□	Distribution boxes	✓	✓	✓	✓	✓
TFSS-□	Normal connecting rails	✓	✓	✓	✓	✓
TFSS-□V	Spade type connecting rails	✓	✓	✓	✓	✓
TFSS-1CS	Connecting clip with screw	✓	✓	✓	✓	–
35/7,5□SIN	Mounting rails according to EN 50022	✓	✓	✓	✓	✓

The residual current circuit breakers are most up-to-date devices mainly used for protection against indirect contact, but in some cases also against direct contact. The residual current breaker automatically starts to operate if the defect current (eg. insulation defect, short circuit etc.) in the protected network exceeds

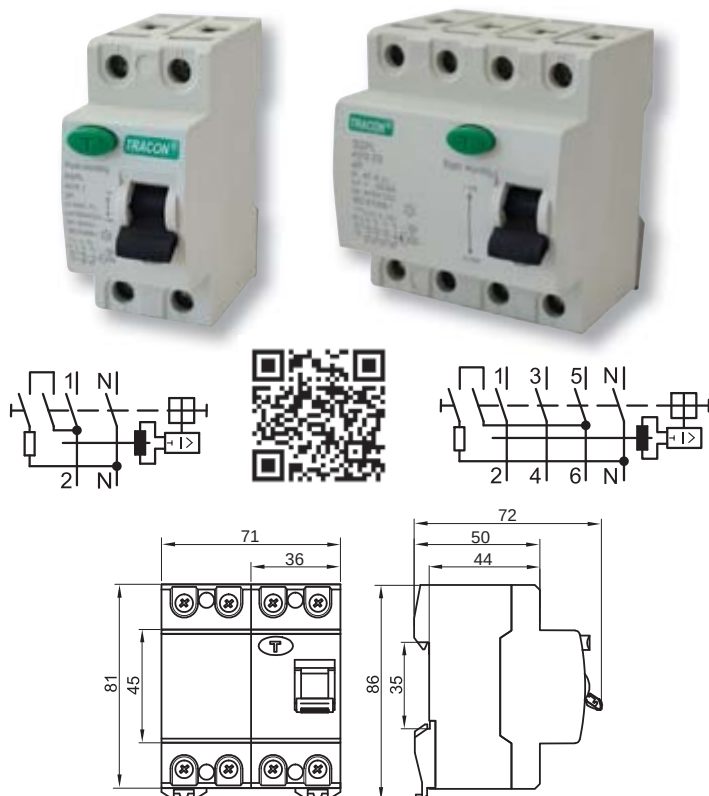
a critical value. Installation is suggested and in some cases even compulsory, in outdoor connections, in building site boxes, concrete mixers, bathrooms, etc.

Over 6000 A independent short circuit current one must be use a shunt fuse!



RB residual current circuit breakers

	230/400 V AC			IP 20			Ta -25...+55°C		V0 UL94			I_{cn} EN 60898 4,5 kA	
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TRACON	I_n (A)	$I_{\Delta n}$ (mA)
RB2-25030	25	30
RB2-25100	25	100
RB2-25300	25	300
RB2-25500	25	500
RB2-40030	40	30
RB2-40100	40	100
RB2-40300	40	300
RB2-40500	40	500
RB4-25030	25	30
RB4-25100	25	100
RB4-25300	25	300
RB4-25500	25	500
RB4-40030	40	30
RB4-40100	40	100
RB4-40300	40	300
RB4-40500	40	500
RB4-63030	63	30
RB4-63100	63	100
RB4-63300	63	300
RB4-63500	63	500