RIDI, RIDSI 60 Hz ● Data and catalogue numbers

Rated current A	Current scale A	Time-lag scale $2\times I_s$ s	Power consumption at operating current VA	P.F.	Type RIDI Symbols for de-energised relays 1 — Type designations and catalogue numbers RIDI	RK 476	Type RIDI Symbols for de-energised relays 2 — RIDI	RK 476	Type RIDSI Symbols for de-energised relays 1 — RIDSI	RK 476	Type RIDSI Symbols for de-energised relays 2 — RIDSI	RK 476	Settings on the current scale A	Permissible current in coil: continuous A	Permissible current in coil: for 1 second A	Power consumption at rated current [1] VA
1	0.5–2	1.5–10	9.5	0.4	601	0201	602	0221	601	0281	602	0301	0.5	1.3	30	32
													0.6	1.5	40	24
													0.8	2	40	14
													1	2.4	65	9.5
													1.2	2.9	65	6.8
													1.5	3.6	90	4.5
													2	4.6	150	2.6
	0.8–2	1.5–10	9.5	0.4	611	0202	612	0222	611	0282	612	0302	0.8	2.4	90	14
													1	2.9	90	9.5
													1.2	3.3	90	6.8
													1.4	3.7	90	5.1
													1.6	4.2	125	3.9
													1.8	4.6	125	3.1
													2	4.9	150	2.6
2	1.6–4	1.5–10	9.5	0.4	631	0203	632	0223	631	0283	632	0303	1.6	4.8	170	14
													1.8	5.2	170	12
													2	5.6	170	9.5
													2.5	6.6	200	6.3
													3	7.5	200	4.5
													3.5	8.2	230	3.3
													4	9	230	2.6
	2–5	1.5–10	9.5	0.4	641	0204	642	0224	641	0284	642	0304	2	6	275	9.5
													2.5	6.9	275	6.3
													3	8	275	4.5
													3.5	8.8	275	3.3
													4	9.3	275	2.6
													4.5	10	275	2.1
													5	11	275	1.8
	2.5–10	1.5–10	9.5	0.4	651	0205	652	0225	651	0285	652	0305	2.5	6.6	275	32
													3	7.7	275	24
													4	10	275	14
													5	11	300	9.5
													6	13	300	6.8
													8	15	400	4
													10	19	500	2.6
5	4–10	1.5–10	9.5	0.4	661	0206	662	0226	661	0286	662	0306	4	11	500	14
													5	13	500	9.5
													6	14	500	6.8
													7	16	500	5.1
													8	18	500	4
													9	19	500	3.1
													10	21	500	2.6
	4–15	1.5–10	9.5	0.4	671	0207	672	0227	671	0287	672	0307	4	12	500	14
													5	14	500	9.5
													6	25	500	6.8
													8	19	500	4
													10	22	650	2.6
													12	25	650	1.8
													15	29	650	1.2
1 (or 5)	1–5	1.5–10	9.5	0.4	621	0208	622	0228	621	0288	622	0308	1	2.7	95	9.5 (130)
													1.5	4	95	4.5 (72)
													2	5.2	125	2.6 (45)
													2.5	6.4	150	1.8 (32)
													3	7.7	200	1.2 (24)
													4	9.3	275	0.7 (14)
													5	11	275	0.4 (9.5)

[1]) The values in brackets are for a rated current of 5 A.

Symbols and contact data

Type	Symbol No	Contact	Max. voltage between lines: d.c. V	Max. voltage between lines: a.c. V	Continuous current carrying capacity A [2])	Making capacity A	Breaking capacity A [3]): a.c., P.F. ≥0.1 max. 220 V	Breaking capacity A [3]): d.c. L/R≤40 ms: 55 V	110 V	220 V
RIDI	1	K1–K2	600	500	10	20	15	5	1.2	0.45
	2	K3–K4								
	3	K1–K2	600	500	10	20	15	5	1.2	0.45
	4	K3–K4			3	6	6	6	4	1.5
RIDSI	1	K1–K2	600	500	10	20	15	5	1.2	0.45
	2	K3–K4								

[2]) Contact K1–K2 for breaking can carry 300 A for series tripping for up to 0.15 s and 120 A for up to 1 s.

[3]) The values given for the breaking capacity are only for isolated operations, e.g. a few times per hour. For series tripping K1–K2 will break max. 100 A; see pages 8 and 17.

Ordering particulars

1. Catalogue number
2. Type designation.
3. Front terminals; see page 16.
4. Flush-mounting frames, catalogue number RK 935 0055–0059, listed in Catalogue RK 93 E.
5. Special indicating devices, see page 16.
6. Protective resistor, see page 16.

Indicators

The marking of each flag and what they indicate

Version	Flags: marked (see Fig. 8, p. 4)	Flags: colour	With or without signal contact K–K4 as in symbols 3 and 4 on p. 10 and 12	● The flag becomes visible for ●● The flag normally becomes visible for – The flag does not become visible for: instantaneous operation	delayed operation	transient overcurrent (no function)	For relay type	Surcharge on price for non-stocked relay Cat. No.
C	1	yellow		●●		●	RI, RIS [2]	
	2	red		●		–	RIDI, RIDSI	
CK	1	yellow	with	●●	●	●	RI	RK 476 0405
	2	red	with	●	●	–		
D	1	yellow	without	●●	●	●		
	2	red	without	–	●	–	RI, RIS	RK 476 0406
	3 [1]	red	without	●	●	–	RIDI, RIDSI	

[1]) Corresponds to flag in versions C and CK
[2]) Indicator device in version C included in price

Front terminals

The front terminals for these relays (see p. 19) consist of M4 terminal bolts on a plate of insulating material. The plate is fixed to the lower edge of the relay base plate.

Front terminals: ~~Surcharge on price for non-stocked relay:~~
Cat.No. RK 935 0010.

Non-linear resistor

type MXAA 1001 with bracket for separate mounting

When RI, RIS, RIDI and RIDSI are used to operate a series tripping coil and the product of the impedance of the coil and the maximum short-circuit current exceeds 400 V, a non-linear resistor of type MXAA 1001 should be connected in parallel with the breaking contact of the relay; see diagram below. The resistance of the leads between the relay contact and the resistor should not exceed 0.1 ohms.

Type MXAA	Cat. No.	Weight kg	Terminals bolts with nuts
1001	RK 476 0400	0.3	M4

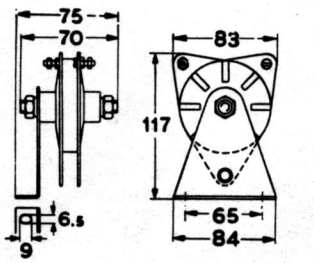


Fig. 22. Dimensions of type MXAA 1001. Dimensions are in millimetres and are subject to modification without notice.

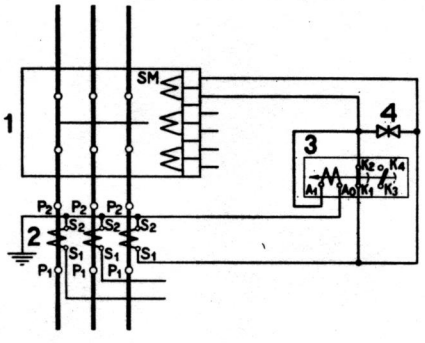


Fig. 23. Connection diagram
See also Fig. 25 1223 768

1 Circuit-breaker, SM=series tripping coil
2 Current transformer
3 Time-lag over-current relay
4 Non-linear resistor

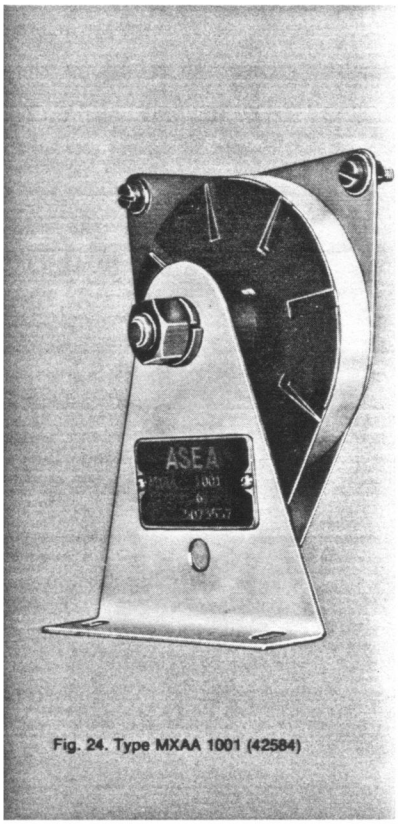


Fig. 24. Type MXAA 1001 (42584)

Connection diagrams Series tripping

Fig. 25. Examples of over-current protections with RI relays

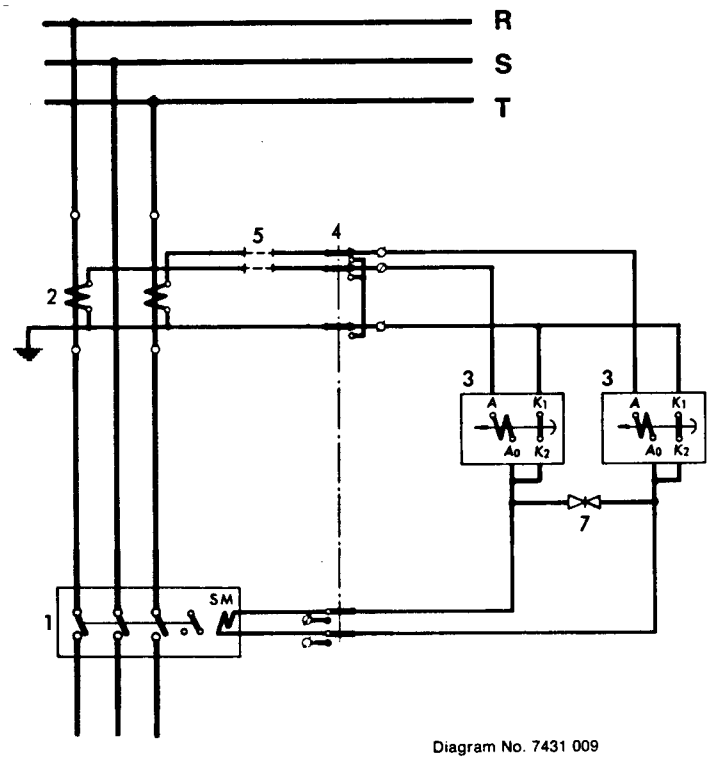


Diagram No. 7431 009

1 Automatic circuit-breaker
2 Current transformers
3 RI relays
4 Relay testing switch type OBB
5 Space for instruments
6 Space for earth current relay
7 Protective resistor type MXAA 1001
Only needed if the secondary short-circuit current can exceed approx. 100 A.

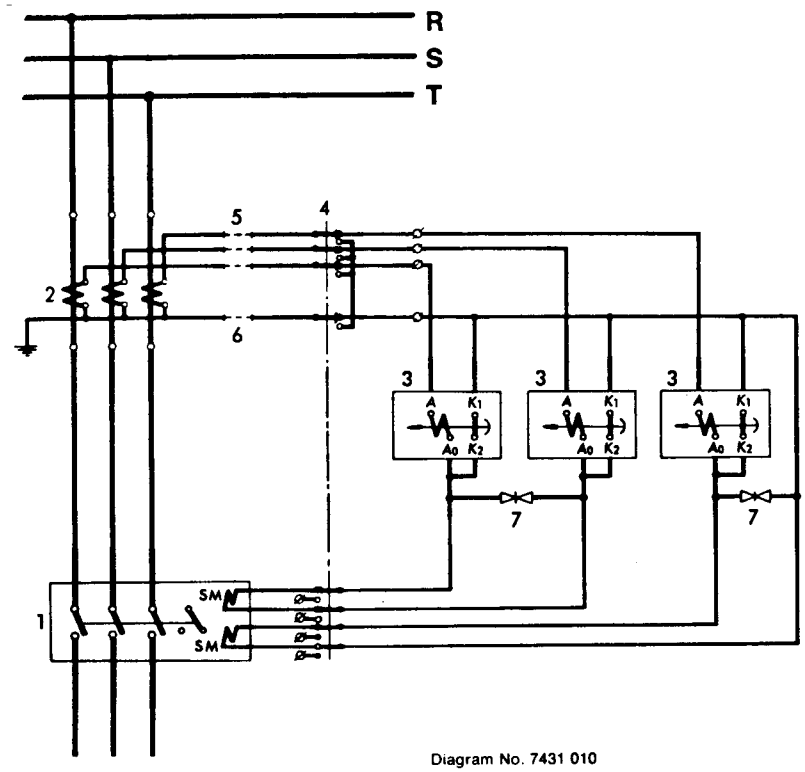
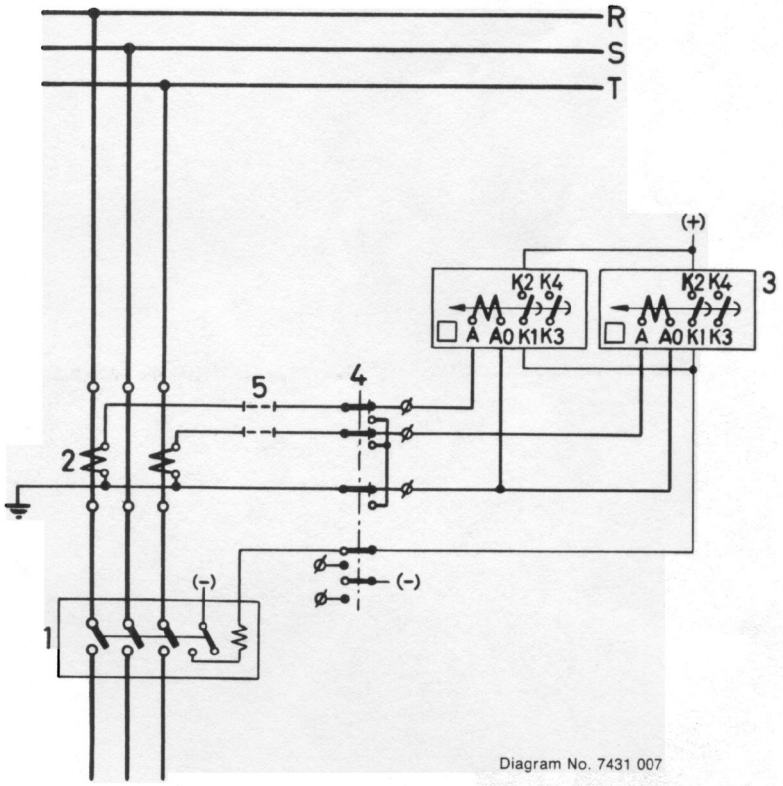


Diagram No. 7431 010

Connection diagram Shunt tripping

Fig. 26. Examples of over-current protections with RI relays



1 Automatic circuit-breaker
2 Current transformers
3 RI relays
4 Relay testing switch type OBB
5 Space for instruments

Diagram No. 7431 007

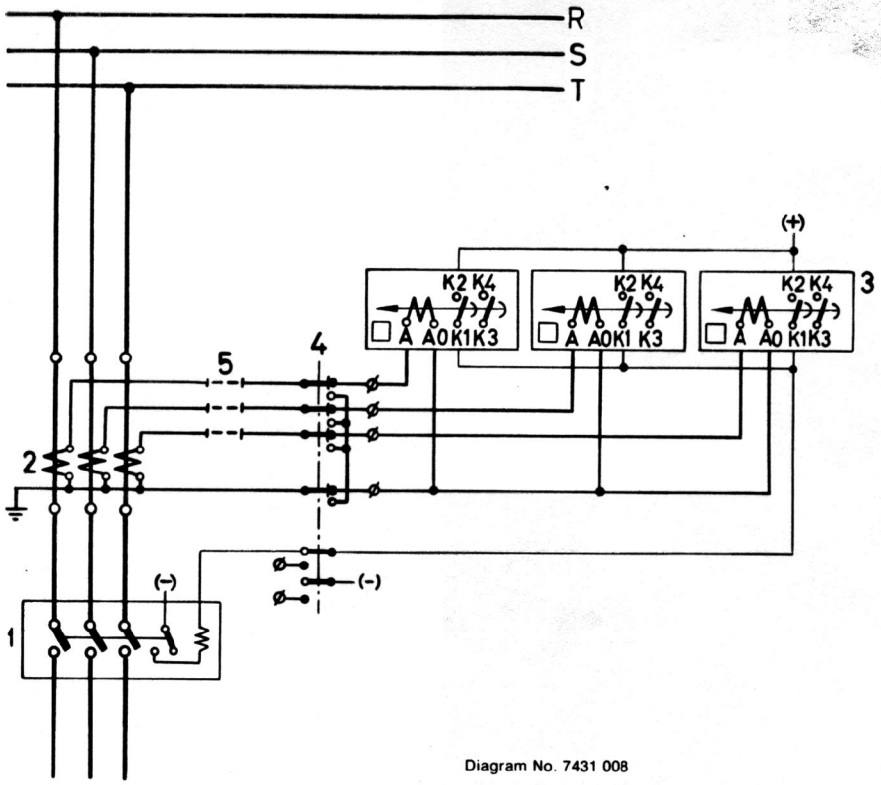
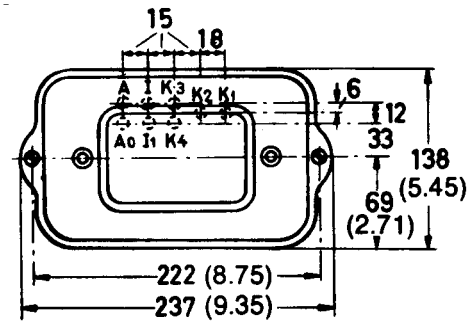


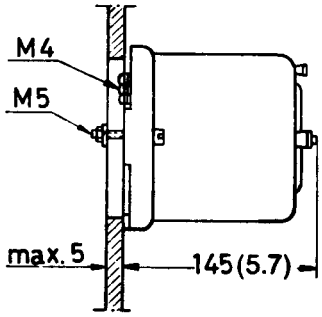
Diagram No. 7431 008

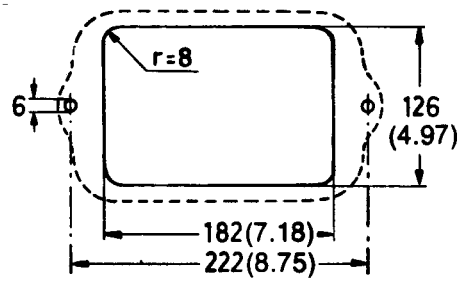
Dimensions Type RI, RIS, RIDI och RIDSI

Dimensions are in millimetres (inches) and are subject to modification without notice.

Projection mounting



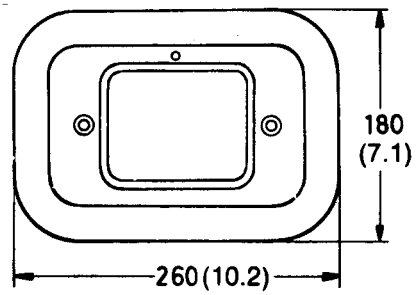


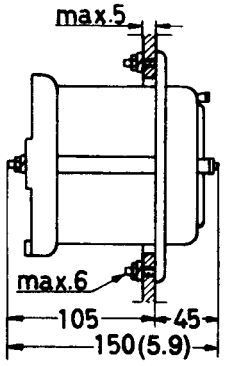


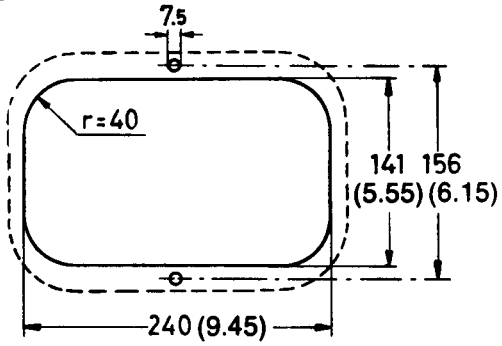
Drilling plan

Flush mounting

(For flush-mounting frames see Cat. RK 93 E)

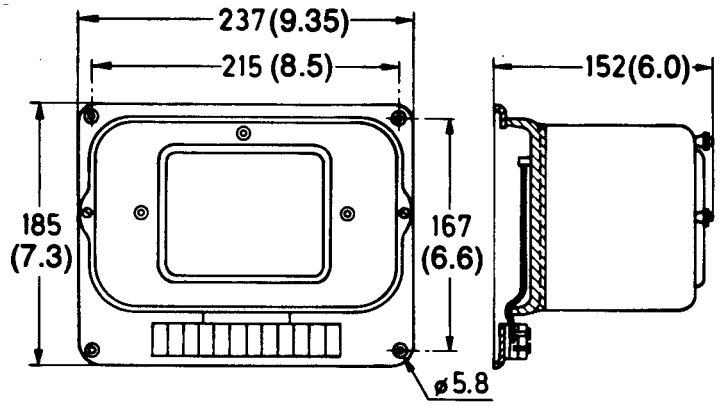






Drilling plan

Projection mounting with front terminals



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