RCCBs Ex9L-H, 10 kA

- **Residual Current Circuit Breakers according to EN 61008-1**
- **Cond. rated short circuit strength I_{nc} 10 kA**
- **2 and 4-pole versions**
- **Rated residual current 10, 30, 100, 300 and 500 mA**
- **Rated current up to 63 A**
- **Rated operational voltage 230/400 V AC**
- **AC, A, S and G types**
- **Indication of electrical tripping**
- **Suitable for applications from -25 to +40 °C**

Ex9L-H residual current circuit breakers are suitable for domestic as well as industrial applications. They are based on permanent magnet principle. It brings the advantage of voltage independent function. Adequate voltage is only necessary when testing the RCCB with the test button. Magnetic RCCBs should be tested regularly. On this testing period local law or regulations may apply. Recommend is to test it every 6 months in fair environment and every month in heavy condition.

Type Key

Ex9	L	-H	2P	63 A	A	30mA	S
Product family	Product	Conditional short circuit strength	Poles	Rated current	Sensitivity to type of current	Rated residual current	Time delay (insensitivity)
Ex9	L: RCCB	-H : 10 kA	2P 4P	16 A 25 A 40 A 63 A	_: AC A: A	10 mA 30 mA 100 mA 300 mA 500 mA	_ : 0 ms G : 10-300 ms S : 40-500 ms

Certification marks

RCCBs Ex9L-H, 10 kA

AC type, 2-pole

- AC type of residual current circuit breaker sensitive on residual AC current
- Without time delay
- Surge current-proof 250 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively
- Selective with upstream installed S or S+A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	10 mA	2	108156	Ex9L-H 2P 16A 10mA	1/81
25 A	10 mA	2	108157	Ex9L-H 2P 25A 10mA	1/81
16 A	30 mA	2	108158	Ex9L-H 2P 16A 30mA	1/81
25 A	30 mA	2	108159	Ex9L-H 2P 25A 30mA	1/81
40 A	30 mA	2	108160	Ex9L-H 2P 40A 30mA	1/81
63 A	30 mA	2	108161	Ex9L-H 2P 63A 30mA	1/81
16 A	100 mA	2	108162	Ex9L-H 2P 16A 100mA	1/81
25 A	100 mA	2	108163	Ex9L-H 2P 25A 100mA	1/81
40 A	100 mA	2	108164	Ex9L-H 2P 40A 100mA	1/81
63 A	100 mA	2	108165	Ex9L-H 2P 63A 100mA	1/81
16 A	300 mA	2	108166	Ex9L-H 2P 16A 300mA	1/81
25 A	300 mA	2	108167	Ex9L-H 2P 25A 300mA	1/81
40 A	300 mA	2	108168	Ex9L-H 2P 40A 300mA	1/81
63 A	300 mA	2	108169	Ex9L-H 2P 63A 300mA	1/81
16 A	500 mA	2	108170	Ex9L-H 2P 16A 500mA	1/81
25 A	500 mA	2	108171	Ex9L-H 2P 25A 500mA	1/81
40 A	500 mA	2	108172	Ex9L-H 2P 40A 500mA	1/81
63 A	500 mA	2	108173	Ex9L-H 2P 63A 500mA	1/81

AC type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108174	Ex9L-H 4P 16A 30mA	1/45
25 A	30 mA	4	108175	Ex9L-H 4P 25A 30mA	1/45
40 A	30 mA	4	108176	Ex9L-H 4P 40A 30mA	1/45
63 A	30 mA	4	108177	Ex9L-H 4P 63A 30mA	1/45
16 A	100 mA	4	108178	Ex9L-H 4P 16A 100mA	1/45
25 A	100 mA	4	108179	Ex9L-H 4P 25A 100mA	1/45
40 A	100 mA	4	108180	Ex9L-H 4P 40A 100mA	1/45
63 A	100 mA	4	108181	Ex9L-H 4P 63A 100mA	1/45
16 A	300 mA	4	108182	Ex9L-H 4P 16A 300mA	1/45
25 A	300 mA	4	108183	Ex9L-H 4P 25A 300mA	1/45
40 A	300 mA	4	108184	Ex9L-H 4P 40A 300mA	1/45
63 A	300 mA	4	108185	Ex9L-H 4P 63A 300mA	1/45
16 A	500 mA	4	108186	Ex9L-H 4P 16A 500mA	1/45
25 A	500 mA	4	108187	Ex9L-H 4P 25A 500mA	1/45
40 A	500 mA	4	108188	Ex9L-H 4P 40A 500mA	1/45
63 A	500 mA	4	108189	Ex9L-H 4P 63A 500mA	1/45

RCCBs Ex9L-H, 10 kA

A type, 2-pole

- A type of residual current circuit breaker sensitive on residual AC and pulsating DC current
- Without time delay
- Surge current-proof 250 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively
- Selective with upstream installed S or S+A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	10 mA	2	108190	Ex9L-H 2P 16A A 10mA	1/81
25 A	10 mA	2	108191	Ex9L-H 2P 25A A 10mA	1/81
16 A	30 mA	2	108192	Ex9L-H 2P 16A A 30mA	1/81
25 A	30 mA	2	108193	Ex9L-H 2P 25A A 30mA	1/81
40 A	30 mA	2	108194	Ex9L-H 2P 40A A 30mA	1/81
63 A	30 mA	2	108195	Ex9L-H 2P 63A A 30mA	1/81
16 A	100 mA	2	108196	Ex9L-H 2P 16A A 100mA	1/81
25 A	100 mA	2	108197	Ex9L-H 2P 25A A 100mA	1/81
40 A	100 mA	2	108198	Ex9L-H 2P 40A A 100mA	1/81
63 A	100 mA	2	108199	Ex9L-H 2P 63A A 100mA	1/81
16 A	300 mA	2	108200	Ex9L-H 2P 16A A 300mA	1/81
25 A	300 mA	2	108201	Ex9L-H 2P 25A A 300mA	1/81
40 A	300 mA	2	108202	Ex9L-H 2P 40A A 300mA	1/81
63 A	300 mA	2	108203	Ex9L-H 2P 63A A 300mA	1/81

A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108204	Ex9L-H 4P 16A A 30mA	1/45
25 A	30 mA	4	108205	Ex9L-H 4P 25A A 30mA	1/45
40 A	30 mA	4	108206	Ex9L-H 4P 40A A 30mA	1/45
63 A	30 mA	4	108207	Ex9L-H 4P 63A A 30mA	1/45
16 A	100 mA	4	108208	Ex9L-H 4P 16A A 100mA	1/45
25 A	100 mA	4	108209	Ex9L-H 4P 25A A 100mA	1/45
40 A	100 mA	4	108210	Ex9L-H 4P 40A A 100mA	1/45
63 A	100 mA	4	108211	Ex9L-H 4P 63A A 100mA	1/45
16 A	300 mA	4	108212	Ex9L-H 4P 16A A 300mA	1/45
25 A	300 mA	4	108213	Ex9L-H 4P 25A A 300mA	1/45
40 A	300 mA	4	108214	Ex9L-H 4P 40A A 300mA	1/45
63 A	300 mA	4	108215	Ex9L-H 4P 63A A 300mA	1/45

RCCBs Ex9L-H, 10 kA

G type, 2-pole

- G type of residual current circuit breaker based on AC type sensitive on residual AC current
- High reliability against unwanted tripping
- Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping
- With time delay (insensitivity) 10 - 300 ms
- Surge current-proof 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	2	108256	Ex9L-H 2P 16A 30mA G	1/81
25 A	30 mA	2	108257	Ex9L-H 2P 25A 30mA G	1/81
40 A	30 mA	2	108258	Ex9L-H 2P 40A 30mA G	1/81
63 A	30 mA	2	108260	Ex9L-H 2P 63A 30mA G	1/81
16 A	100 mA	2	108259	Ex9L-H 2P 16A 100mA G	1/81
25 A	100 mA	2	108261	Ex9L-H 2P 25A 100mA G	1/81
40 A	100 mA	2	108262	Ex9L-H 2P 40A 100mA G	1/81
63 A	100 mA	2	108263	Ex9L-H 2P 63A 100mA G	1/81
16 A	300 mA	2	108264	Ex9L-H 2P 16A 300mA G	1/81
25 A	300 mA	2	108265	Ex9L-H 2P 25A 300mA G	1/81
40 A	300 mA	2	108266	Ex9L-H 2P 40A 300mA G	1/81
63 A	300 mA	2	108267	Ex9L-H 2P 63A 300mA G	1/81
16 A	500 mA	2	108268	Ex9L-H 2P 16A 500mA G	1/81
25 A	500 mA	2	108269	Ex9L-H 2P 25A 500mA G	1/81
40 A	500 mA	2	108270	Ex9L-H 2P 40A 500mA G	1/81
63 A	500 mA	2	108271	Ex9L-H 2P 63A 500mA G	1/81

G type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108272	Ex9L-H 4P 16A 30mA G	1/45
25 A	30 mA	4	108273	Ex9L-H 4P 25A 30mA G	1/45
40 A	30 mA	4	108274	Ex9L-H 4P 40A 30mA G	1/45
63 A	30 mA	4	108275	Ex9L-H 4P 63A 30mA G	1/45
16 A	100 mA	4	108276	Ex9L-H 4P 16A 100mA G	1/45
25 A	100 mA	4	108277	Ex9L-H 4P 25A 100mA G	1/45
40 A	100 mA	4	108278	Ex9L-H 4P 40A 100mA G	1/45
63 A	100 mA	4	108279	Ex9L-H 4P 63A 100mA G	1/45
16 A	300 mA	4	108280	Ex9L-H 4P 16A 300mA G	1/45
25 A	300 mA	4	108281	Ex9L-H 4P 25A 300mA G	1/45
40 A	300 mA	4	108282	Ex9L-H 4P 40A 300mA G	1/45
63 A	300 mA	4	108283	Ex9L-H 4P 63A 300mA G	1/45
16 A	500 mA	4	108284	Ex9L-H 4P 16A 500mA G	1/45
25 A	500 mA	4	108285	Ex9L-H 4P 25A 500mA G	1/45
40 A	500 mA	4	108286	Ex9L-H 4P 40A 500mA G	1/45
63 A	500 mA	4	108287	Ex9L-H 4P 63A 500mA G	1/45

RCCBs Ex9L-H, 10 kA

G+A type, 4-pole

- G type of residual current circuit breaker based on A type sensitive on residual AC and pulsating DC current
- High reliability against unwanted tripping
- Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping
- With time delay (insensitivity) 10 - 300 ms
- Surge current-proof 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	2	108288	Ex9L-H 2P 16A A 30mA G	1/81
25 A	30 mA	2	108289	Ex9L-H 2P 25A A 30mA G	1/81
40 A	30 mA	2	108290	Ex9L-H 2P 40A A 30mA G	1/81
63 A	30 mA	2	108291	Ex9L-H 2P 63A A 30mA G	1/81
16 A	100 mA	2	108292	Ex9L-H 2P 16A A 100mA G	1/81
25 A	100 mA	2	108293	Ex9L-H 2P 25A A 100mA G	1/81
40 A	100 mA	2	108294	Ex9L-H 2P 40A A 100mA G	1/81
63 A	100 mA	2	108295	Ex9L-H 2P 63A A 100mA G	1/81
16 A	300 mA	2	108296	Ex9L-H 2P 16A A 300mA G	1/81
25 A	300 mA	2	108297	Ex9L-H 2P 25A A 300mA G	1/81
40 A	300 mA	2	108298	Ex9L-H 2P 40A A 300mA G	1/81
63 A	300 mA	2	108299	Ex9L-H 2P 63A A 300mA G	1/81

G+A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108300	Ex9L-H 4P 16A A 30mA G	1/45
25 A	30 mA	4	108301	Ex9L-H 4P 25A A 30mA G	1/45
40 A	30 mA	4	108302	Ex9L-H 4P 40A A 30mA G	1/45
63 A	30 mA	4	108303	Ex9L-H 4P 63A A 30mA G	1/45
16 A	100 mA	4	108304	Ex9L-H 4P 16A A 100mA G	1/45
25 A	100 mA	4	108305	Ex9L-H 4P 25A A 100mA G	1/45
40 A	100 mA	4	108306	Ex9L-H 4P 40A A 100mA G	1/45
63 A	100 mA	4	108307	Ex9L-H 4P 63A A 100mA G	1/45
16 A	300 mA	4	108308	Ex9L-H 4P 16A A 300mA G	1/45
25 A	300 mA	4	108309	Ex9L-H 4P 25A A 300mA G	1/45
40 A	300 mA	4	108310	Ex9L-H 4P 40A A 300mA G	1/45
63 A	300 mA	4	108311	Ex9L-H 4P 63A A 300mA G	1/45

RCCBs Ex9L-H, 10 kA

S type, 2-pole

- S type of residual current circuit breaker based on AC type sensitive on residual AC current
- With time delay (insensitivity) 130 - 500 ms
- Surge current-proof 3000 A
- Suitable for protection against fire, as a main RCCB of a house or flat or as a protection against leakage currents (e.g. due to imperfect isolation)
- Selective with downstream installed AC or A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	2	108216	Ex9L-H 2P 16A 100mA S	1/81
25 A	100 mA	2	108217	Ex9L-H 2P 25A 100mA S	1/81
40 A	100 mA	2	108218	Ex9L-H 2P 40A 100mA S	1/81
63 A	100 mA	2	108219	Ex9L-H 2P 63A 100mA S	1/81
16 A	300 mA	2	108220	Ex9L-H 2P 16A 300mA S	1/81
25 A	300 mA	2	108221	Ex9L-H 2P 25A 300mA S	1/81
40 A	300 mA	2	108222	Ex9L-H 2P 40A 300mA S	1/81
63 A	300 mA	2	108223	Ex9L-H 2P 63A 300mA S	1/81
16 A	500 mA	2	108224	Ex9L-H 2P 16A 500mA S	1/81
25 A	500 mA	2	108225	Ex9L-H 2P 25A 500mA S	1/81
40 A	500 mA	2	108226	Ex9L-H 2P 40A 500mA S	1/81
63 A	500 mA	2	108227	Ex9L-H 2P 63A 500mA S	1/81

S type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	4	108228	Ex9L-H 4P 16A 100mA S	1/45
25 A	100 mA	4	108229	Ex9L-H 4P 25A 100mA S	1/45
40 A	100 mA	4	108230	Ex9L-H 4P 40A 100mA S	1/45
63 A	100 mA	4	108231	Ex9L-H 4P 63A 100mA S	1/45
16 A	300 mA	4	108232	Ex9L-H 4P 16A 300mA S	1/45
25 A	300 mA	4	108233	Ex9L-H 4P 25A 300mA S	1/45
40 A	300 mA	4	108234	Ex9L-H 4P 40A 300mA S	1/45
63 A	300 mA	4	108235	Ex9L-H 4P 63A 300mA S	1/45
16 A	500 mA	4	108236	Ex9L-H 4P 16A 500mA S	1/45
25 A	500 mA	4	108237	Ex9L-H 4P 25A 500mA S	1/45
40 A	500 mA	4	108238	Ex9L-H 4P 40A 500mA S	1/45
63 A	500 mA	4	108239	Ex9L-H 4P 63A 500mA S	1/45

RCCBs Ex9L-H, 10 kA

S+A type, 2-pole

- S type of residual current circuit breaker based on A type sensitive on residual AC and pulsating DC current
- With time delay (insensitivity) 130 - 500 ms
- Surge current-proof 3000 A
- Suitable for protection against fire, as a main RCCB of a house or flat or as a protection against leakage currents (e.g. due to imperfect isolation)
- Selective with downstream installed AC or A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	2	108240	Ex9L-H 2P 16A A 100mA S	1/81
25 A	100 mA	2	108241	Ex9L-H 2P 25A A 100mA S	1/81
40 A	100 mA	2	108242	Ex9L-H 2P 40A A 100mA S	1/81
63 A	100 mA	2	108243	Ex9L-H 2P 63A A 100mA S	1/81
16 A	300 mA	2	108244	Ex9L-H 2P 16A A 300mA S	1/81
25 A	300 mA	2	108245	Ex9L-H 2P 25A A 300mA S	1/81
40 A	300 mA	2	108246	Ex9L-H 2P 40A A 300mA S	1/81
63 A	300 mA	2	108247	Ex9L-H 2P 63A A 300mA S	1/81

S+A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	4	108248	Ex9L-H 4P 16A A 100mA S	1/45
25 A	100 mA	4	108249	Ex9L-H 4P 25A A 100mA S	1/45
40 A	100 mA	4	108250	Ex9L-H 4P 40A A 100mA S	1/45
63 A	100 mA	4	108251	Ex9L-H 4P 63A A 100mA S	1/45
16 A	300 mA	4	108252	Ex9L-H 4P 16A A 300mA S	1/45
25 A	300 mA	4	108253	Ex9L-H 4P 25A A 300mA S	1/45
40 A	300 mA	4	108254	Ex9L-H 4P 40A A 300mA S	1/45
63 A	300 mA	4	108255	Ex9L-H 4P 63A A 300mA S	1/45

RCCBs Ex9L-H, 10 kA

Information sticker

- Sticker with information about regular monthly testing
- Languages EN, CZ, SK, FR, RU, PL, DE, RO
- In a scope of delivery of all magnetic RCCBs and RCBOs NOARK, spare part

Description	Languages	Article No.	Type	Packing
Information sticker	EN, CZ, SK, FR, RU, PL, DE, RO	101445	YS31	1

RCCBs Ex9L-N, 6 kA

- **Residual Current Circuit Breakers according to EN 61008-1**
- **Cond. rated short circuit strength I_{nc} 6 kA**
- **2 and 4-pole versions**
- **Rated residual current 10, 30, 100, 300 and 500 mA**
- **Rated current up to 63 A**
- **Rated operational voltage 230/400 V AC**
- **AC, A, S and G type**
- **Indication of electrical tripping**
- **Suitable for applications from -25 to +40 °C**

Ex9L-N residual current circuit breakers are suitable mainly for domestic applications. They are based on permanent magnet principle. It brings the advantage of Voltage independent function. Adequate voltage is only necessary when testing the RCCB with the T test button. Magnetic RCCBs should be tested regularly. On this testing period local law or regulations may apply. Recommend is to test it every 6 months in fair environment and every month in heavy condition.

6 kA variant of the Ex9L-N residual current circuit breaker is intended mainly for low demanding application like basic protection in household installations.

Type Key

Ex9	L	-N	2P	63 A	A	30mA	S
Product family	Product	Conditional short circuit strength	Poles	Rated current	Sensitivity to type of current	Rated residual current	Time delay (insensitivity)
Ex9	L: RCCB	-N: 6kA	2P 4P	16 A 25 A 40 A 63 A	_: AC A: A	10 mA 30 mA 100 mA 300 mA 500 mA	_: 0 ms G: 10-300 ms S: 130-500 ms

Certification marks

RCCBs Ex9L-N, 6 kA

AC type, 2-pole

- AC type of residual current circuit breaker sensitive on residual AC current
- Without time delay
- Surge current-proof 250 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively
- Selective with upstream installed S or S+A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	10 mA	2	108312	Ex9L-N 2P 16A 10mA	1/81
25 A	10 mA	2	108313	Ex9L-N 2P 25A 10mA	1/81
16 A	30 mA	2	108317	Ex9L-N 2P 16A 30mA	1/81
25 A	30 mA	2	108314	Ex9L-N 2P 25A 30mA	1/81
40 A	30 mA	2	108315	Ex9L-N 2P 40A 30mA	1/81
63 A	30 mA	2	108316	Ex9L-N 2P 63A 30mA	1/81
16 A	100 mA	2	108321	Ex9L-N 2P 16A 100mA	1/81
25 A	100 mA	2	108318	Ex9L-N 2P 25A 100mA	1/81
40 A	100 mA	2	108319	Ex9L-N 2P 40A 100mA	1/81
63 A	100 mA	2	108320	Ex9L-N 2P 63A 100mA	1/81
16 A	300 mA	2	108325	Ex9L-N 2P 16A 300mA	1/81
25 A	300 mA	2	108322	Ex9L-N 2P 25A 300mA	1/81
40 A	300 mA	2	108323	Ex9L-N 2P 40A 300mA	1/81
63 A	300 mA	2	108324	Ex9L-N 2P 63A 300mA	1/81
16 A	500 mA	2	108329	Ex9L-N 2P 16A 500mA	1/81
25 A	500 mA	2	108326	Ex9L-N 2P 25A 500mA	1/81
40 A	500 mA	2	108327	Ex9L-N 2P 40A 500mA	1/81
63 A	500 mA	2	108328	Ex9L-N 2P 63A 500mA	1/81

AC type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108330	Ex9L-N 4P 16A 30mA	1/45
25 A	30 mA	4	108331	Ex9L-N 4P 25A 30mA	1/45
40 A	30 mA	4	108332	Ex9L-N 4P 40A 30mA	1/45
63 A	30 mA	4	108333	Ex9L-N 4P 63A 30mA	1/45
16 A	100 mA	4	108334	Ex9L-N 4P 16A 100mA	1/45
25 A	100 mA	4	108335	Ex9L-N 4P 25A 100mA	1/45
40 A	100 mA	4	108336	Ex9L-N 4P 40A 100mA	1/45
63 A	100 mA	4	108337	Ex9L-N 4P 63A 100mA	1/45
16 A	300 mA	4	108338	Ex9L-N 4P 16A 300mA	1/45
25 A	300 mA	4	108339	Ex9L-N 4P 25A 300mA	1/45
40 A	300 mA	4	108340	Ex9L-N 4P 40A 300mA	1/45
63 A	300 mA	4	108341	Ex9L-N 4P 63A 300mA	1/45
16 A	500 mA	4	108342	Ex9L-N 4P 16A 500mA	1/45
25 A	500 mA	4	108343	Ex9L-N 4P 25A 500mA	1/45
40 A	500 mA	4	108344	Ex9L-N 4P 40A 500mA	1/45
63 A	500 mA	4	108345	Ex9L-N 4P 63A 500mA	1/45

RCCBs Ex9L-N, 6 kA

A type, 2-pole

- A type of residual current circuit breaker sensitive on residual AC and pulsating DC current
- Without time delay
- Surge current-proof 250 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively
- Selective with upstream installed S or S+A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	10 mA	2	108346	Ex9L-N 2P 16A A 10mA	1/81
25 A	10 mA	2	108347	Ex9L-N 2P 25A A 10mA	1/81
16 A	30 mA	2	108348	Ex9L-N 2P 16A A 30mA	1/81
25 A	30 mA	2	108349	Ex9L-N 2P 25A A 30mA	1/81
40 A	30 mA	2	108350	Ex9L-N 2P 40A A 30mA	1/81
63 A	30 mA	2	108351	Ex9L-N 2P 63A A 30mA	1/81
16 A	100 mA	2	108352	Ex9L-N 2P 16A A 100mA	1/81
25 A	100 mA	2	108353	Ex9L-N 2P 25A A 100mA	1/81
40 A	100 mA	2	108354	Ex9L-N 2P 40A A 100mA	1/81
63 A	100 mA	2	108355	Ex9L-N 2P 63A A 100mA	1/81
16 A	300 mA	2	108356	Ex9L-N 2P 16A A 300mA	1/81
25 A	300 mA	2	108357	Ex9L-N 2P 25A A 300mA	1/81
40 A	300 mA	2	108358	Ex9L-N 2P 40A A 300mA	1/81
63 A	300 mA	2	108359	Ex9L-N 2P 63A A 300mA	1/81

A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108360	Ex9L-N 4P 16A A 30mA	1/45
25 A	30 mA	4	108361	Ex9L-N 4P 25A A 30mA	1/45
40 A	30 mA	4	108362	Ex9L-N 4P 40A A 30mA	1/45
63 A	30 mA	4	108363	Ex9L-N 4P 63A A 30mA	1/45
16 A	100 mA	4	108364	Ex9L-N 4P 16A A 100mA	1/45
25 A	100 mA	4	108365	Ex9L-N 4P 25A A 100mA	1/45
40 A	100 mA	4	108366	Ex9L-N 4P 40A A 100mA	1/45
63 A	100 mA	4	108367	Ex9L-N 4P 63A A 100mA	1/45
16 A	300 mA	4	108368	Ex9L-N 4P 16A A 300mA	1/45
25 A	300 mA	4	108369	Ex9L-N 4P 25A A 300mA	1/45
40 A	300 mA	4	108370	Ex9L-N 4P 40A A 300mA	1/45
63 A	300 mA	4	108371	Ex9L-N 4P 63A A 300mA	1/45

RCCBs Ex9L-N, 6 kA

G type, 2-pole

- G type of residual current circuit breaker based on AC type sensitive on residual AC current
- High reliability against unwanted tripping
- Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping
- With time delay (insensitivity) 10 - 300 ms
- Surge current-proof 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	2	108412	Ex9L-N 2P 16A 30mA G	1/81
25 A	30 mA	2	108413	Ex9L-N 2P 25A 30mA G	1/81
40 A	30 mA	2	108414	Ex9L-N 2P 40A 30mA G	1/81
63 A	30 mA	2	108415	Ex9L-N 2P 63A 30mA G	1/81
16 A	100 mA	2	108416	Ex9L-N 2P 16A 100mA G	1/81
25 A	100 mA	2	108417	Ex9L-N 2P 25A 100mA G	1/81
40 A	100 mA	2	108418	Ex9L-N 2P 40A 100mA G	1/81
63 A	100 mA	2	108419	Ex9L-N 2P 63A 100mA G	1/81
16 A	300 mA	2	108420	Ex9L-N 2P 16A 300mA G	1/81
25 A	300 mA	2	108421	Ex9L-N 2P 25A 300mA G	1/81
40 A	300 mA	2	108422	Ex9L-N 2P 40A 300mA G	1/81
63 A	300 mA	2	108423	Ex9L-N 2P 63A 300mA G	1/81
16 A	500 mA	2	108424	Ex9L-N 2P 16A 500mA G	1/81
25 A	500 mA	2	108425	Ex9L-N 2P 25A 500mA G	1/81
40 A	500 mA	2	108426	Ex9L-N 2P 40A 500mA G	1/81
63 A	500 mA	2	108427	Ex9L-N 2P 63A 500mA G	1/81

G type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108428	Ex9L-N 4P 16A 30mA G	1/45
25 A	30 mA	4	108429	Ex9L-N 4P 25A 30mA G	1/45
40 A	30 mA	4	108430	Ex9L-N 4P 40A 30mA G	1/45
63 A	30 mA	4	108431	Ex9L-N 4P 63A 30mA G	1/45
16 A	100 mA	4	108432	Ex9L-N 4P 16A 100mA G	1/45
25 A	100 mA	4	108433	Ex9L-N 4P 25A 100mA G	1/45
40 A	100 mA	4	108434	Ex9L-N 4P 40A 100mA G	1/45
63 A	100 mA	4	108435	Ex9L-N 4P 63A 100mA G	1/45
16 A	300 mA	4	108436	Ex9L-N 4P 16A 300mA G	1/45
25 A	300 mA	4	108437	Ex9L-N 4P 25A 300mA G	1/45
40 A	300 mA	4	108438	Ex9L-N 4P 40A 300mA G	1/45
63 A	300 mA	4	108439	Ex9L-N 4P 63A 300mA G	1/45
16 A	500 mA	4	108440	Ex9L-N 4P 16A 500mA G	1/45
25 A	500 mA	4	108441	Ex9L-N 4P 25A 500mA G	1/45
40 A	500 mA	4	108442	Ex9L-N 4P 40A 500mA G	1/45
63 A	500 mA	4	108443	Ex9L-N 4P 63A 500mA G	1/45

RCCBs Ex9L-N, 6 kA

G+A type, 2-pole

- G type of residual current circuit breaker based on A type sensitive on residual AC and pulsating DC current
- High reliability against unwanted tripping
- Compulsory for any circuit where personal injury or damage to property may occur in case of unwanted tripping
- With time delay (insensitivity) 10 - 300 ms
- Surge current-proof 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive parts during a fault, respectively

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	2	108444	Ex9L-N 2P 16A A 30mA G	1/81
25 A	30 mA	2	108445	Ex9L-N 2P 25A A 30mA G	1/81
40 A	30 mA	2	108446	Ex9L-N 2P 40A A 30mA G	1/81
63 A	30 mA	2	108447	Ex9L-N 2P 63A A 30mA G	1/81
16 A	100 mA	2	108448	Ex9L-N 2P 16A A 100mA G	1/81
25 A	100 mA	2	108449	Ex9L-N 2P 25A A 100mA G	1/81
40 A	100 mA	2	108450	Ex9L-N 2P 40A A 100mA G	1/81
63 A	100 mA	2	108451	Ex9L-N 2P 63A A 100mA G	1/81
16 A	300 mA	2	108452	Ex9L-N 2P 16A A 300mA G	1/81
25 A	300 mA	2	108453	Ex9L-N 2P 25A A 300mA G	1/81
40 A	300 mA	2	108454	Ex9L-N 2P 40A A 300mA G	1/81
63 A	300 mA	2	108455	Ex9L-N 2P 63A A 300mA G	1/81

G+A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	30 mA	4	108456	Ex9L-N 4P 16A A 30mA G	1/45
25 A	30 mA	4	108457	Ex9L-N 4P 25A A 30mA G	1/45
40 A	30 mA	4	108458	Ex9L-N 4P 40A A 30mA G	1/45
63 A	30 mA	4	108459	Ex9L-N 4P 63A A 30mA G	1/45
16 A	100 mA	4	108460	Ex9L-N 4P 16A A 100mA G	1/45
25 A	100 mA	4	108461	Ex9L-N 4P 25A A 100mA G	1/45
40 A	100 mA	4	108462	Ex9L-N 4P 40A A 100mA G	1/45
63 A	100 mA	4	108463	Ex9L-N 4P 63A A 100mA G	1/45
16 A	300 mA	4	108464	Ex9L-N 4P 16A A 300mA G	1/45
25 A	300 mA	4	108465	Ex9L-N 4P 25A A 300mA G	1/45
40 A	300 mA	4	108466	Ex9L-N 4P 40A A 300mA G	1/45
63 A	300 mA	4	108467	Ex9L-N 4P 63A A 300mA G	1/45

RCCBs Ex9L-N, 6 kA

S type, 2-pole

- S type of residual current circuit breaker based on AC type sensitive on residual AC current
- With time delay (insensitivity) 130 - 500 ms
- Surge current-proof 3000 A
- Suitable for protection against fire, as a main RCCB of a house or flat or as a protection against leakage currents (e.g. due to imperfect isolation)
- Selective with downstream installed AC or A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	2	108372	Ex9L-N 2P 16A 100mA S	1/81
25 A	100 mA	2	108373	Ex9L-N 2P 25A 100mA S	1/81
40 A	100 mA	2	108374	Ex9L-N 2P 40A 100mA S	1/81
63 A	100 mA	2	108375	Ex9L-N 2P 63A 100mA S	1/81
16 A	300 mA	2	108376	Ex9L-N 2P 16A 300mA S	1/81
25 A	300 mA	2	108377	Ex9L-N 2P 25A 300mA S	1/81
40 A	300 mA	2	108378	Ex9L-N 2P 40A 300mA S	1/81
63 A	300 mA	2	108379	Ex9L-N 2P 63A 300mA S	1/81
16 A	500 mA	2	108380	Ex9L-N 2P 16A 500mA S	1/81
25 A	500 mA	2	108381	Ex9L-N 2P 25A 500mA S	1/81
40 A	500 mA	2	108382	Ex9L-N 2P 40A 500mA S	1/81
63 A	500 mA	2	108383	Ex9L-N 2P 63A 500mA S	1/81

S type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	4	108384	Ex9L-N 4P 16A 100mA S	1/45
25 A	100 mA	4	108385	Ex9L-N 4P 25A 100mA S	1/45
40 A	100 mA	4	108386	Ex9L-N 4P 40A 100mA S	1/45
63 A	100 mA	4	108387	Ex9L-N 4P 63A 100mA S	1/45
16 A	300 mA	4	108388	Ex9L-N 4P 16A 300mA S	1/45
25 A	300 mA	4	108389	Ex9L-N 4P 25A 300mA S	1/45
40 A	300 mA	4	108390	Ex9L-N 4P 40A 300mA S	1/45
63 A	300 mA	4	108391	Ex9L-N 4P 63A 300mA S	1/45
16 A	500 mA	4	108392	Ex9L-N 4P 16A 500mA S	1/45
25 A	500 mA	4	108393	Ex9L-N 4P 25A 500mA S	1/45
40 A	500 mA	4	108394	Ex9L-N 4P 40A 500mA S	1/45
63 A	500 mA	4	108395	Ex9L-N 4P 63A 500mA S	1/45

RCCBs Ex9L-N, 6 kA

S+A type, 2-pole

- S type of residual current circuit breaker based on A type sensitive on residual AC and pulsating DC current
- With time delay (insensitivity) 130 - 500 ms
- Surge current-proof 3000 A
- Suitable for protection against fire, as a main RCCB of a house or flat or as a protection against leakage currents (e.g. due to imperfect isolation)
- Selective with downstream installed AC or A type RCCB

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	2	108396	Ex9L-N 2P 16A A 100mA S	1/81
25 A	100 mA	2	108397	Ex9L-N 2P 25A A 100mA S	1/81
40 A	100 mA	2	108398	Ex9L-N 2P 40A A 100mA S	1/81
63 A	100 mA	2	108399	Ex9L-N 2P 63A A 100mA S	1/81
16 A	300 mA	2	108400	Ex9L-N 2P 16A A 300mA S	1/81
25 A	300 mA	2	108401	Ex9L-N 2P 25A A 300mA S	1/81
40 A	300 mA	2	108402	Ex9L-N 2P 40A A 300mA S	1/81
63 A	300 mA	2	108403	Ex9L-N 2P 63A A 300mA S	1/81

S+A type, 4-pole

Rated current	Rated residual current	Poles	Article No.	Type	Packing
16 A	100 mA	4	108404	Ex9L-N 4P 16A A 100mA S	1/45
25 A	100 mA	4	108405	Ex9L-N 4P 25A A 100mA S	1/45
40 A	100 mA	4	108406	Ex9L-N 4P 40A A 100mA S	1/45
63 A	100 mA	4	108407	Ex9L-N 4P 63A A 100mA S	1/45
16 A	300 mA	4	108408	Ex9L-N 4P 16A A 300mA S	1/45
25 A	300 mA	4	108409	Ex9L-N 4P 25A A 300mA S	1/45
40 A	300 mA	4	108410	Ex9L-N 4P 40A A 300mA S	1/45
63 A	300 mA	4	108411	Ex9L-N 4P 63A A 300mA S	1/45

RCCBs Ex9L-N, 6 kA

Information sticker

- Sticker with information about regular monthly testing
- Languages EN, CZ, SK, FR, RU, PL, DE, RO
- In a scope of delivery of all magnetic RCCBs and RCBOs NOARK, spare part

Description	Languages	Article No.	Type	Packing
Information sticker	EN, CZ, SK, FR, RU, PL, DE, RO	101445	YS31	1

Technical Data Ex9L-H

Residual Current Circuit Breakers, 10 kA

General parameters

Permanent magnet principle - voltage independent tripping function
Suitable for household as well as industrial applications
AC, A, S and G types
Recommend is to test it every 6 months in fair environment and every month in heavy condition
In case all wires are not connected at 4-pole RCCB, it is necessary to ensure that circuit of the test button T is supplied with appropriate voltage (by means of mutual connection of respective terminals of the RCCB, see wiring diagram)
Indication of electrical tripping

Electrical parameters

Tested according to	EN 61008
Rated operational voltage U_e	230/400 V AC
Min. voltage for RCD function	voltage independent
Voltage range of the test button T	150 — 254 V AC (2-pole) 150 — 440 V AC (4-pole)
Rated frequency f	50/60 Hz
Conditional short circuit strength I_{nc}	10 kA
Rated current I_n	16, 25, 40, 63 A
Rated residual current $I_{\Delta n}$	10, 30, 100, 300, 500 mA
Sensitivity to residual current	AC type - AC residual current A type - residual AC and pulsating DC current
Time characteristic	AC, A - undelayed type G - delay (insensitivity) 10 - 300 ms S - delay (insensitivity) 130 - 500 ms
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage U_i	500 V
Surge current proof	AC, A (undelayed type) - 250 A G, S (with delay) - 3000 A
Mechanical service life	2 000 operation cycles
Electrical service life	2 000 operation cycles
Back-up fuse for overload	
I_n = 16 A	max. 25 A gG
I_n = 25 A	max. 25 A gG
I_n = 40 A	max. 32 A gG
I_n = 63 A	max. 50 A gG
Back-up fuse for short circuit	
I_n = 16 A	max. 63 A gG
I_n = 25 A	max. 63 A gG
I_n = 40 A	max. 63 A gG
I_n = 63 A	max. 63 A gG
Rated making capacity I_m (rated residual making capacity $I_{\Delta m}$)	
I_n = 16 A	500 A
I_n = 25 A	500 A
I_n = 40 A	500 A
I_n = 63 A	630 A
Line voltage connection	arbitrary above or below

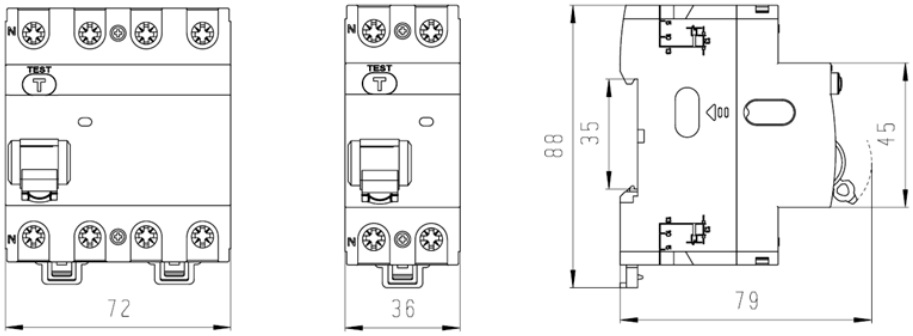
Technical Data Ex9L-H

Residual Current Circuit Breakers, 10 kA

Mechanical parameters

Device width	36 mm (2-pole), 72 mm (4-pole)
Device height	85 mm including rail clip
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	combined lift + open mouthed
Terminal capacity	1 — 25 mm^2
Fastening torque of terminals	1.5 — 2.5 Nm
Busbar thickness	0.8 — 2 mm
Ambient temperature	-25 — +40 °C
Altitude	≤ 2000 m
Relative humidity	≤ 95 %
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.22 kg (2-pole), 0.4 kg (4-pole)

Dimensions



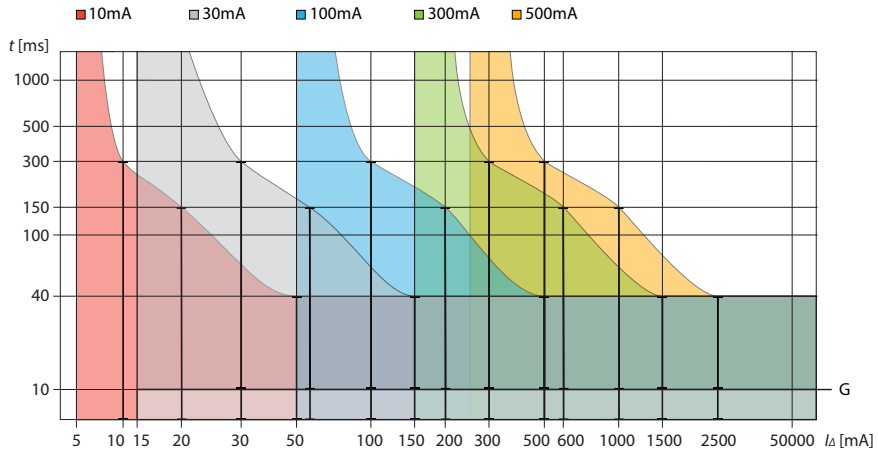
Wiring diagrams

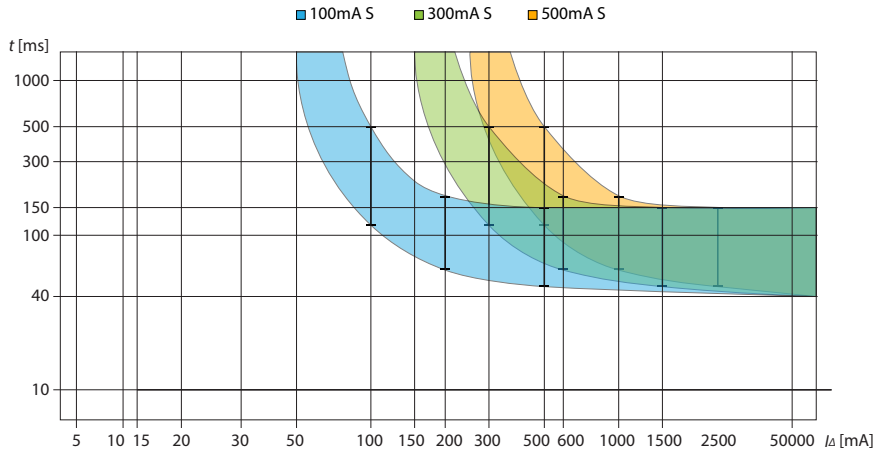
2P 4P

Technical Data Ex9L-H

Residual Current Circuit Breakers, 10 kA

Tripping characteristics





Power loss

I_n	I_Δ	2P	4P
16 A	10 mA	1.8 W	3.8 W
	30 mA	1.8 W	3.8 W
	100 mA	1.8 W	3.8 W
	300 mA	1.8 W	3.8 W
	500 mA	1.8 W	3.8 W
25 A	10 mA	3.4 W	7.2 W
	30 mA	3.4 W	7.2 W
	100 mA	3.4 W	7.2 W
	300 mA	3.4 W	7.2 W
	500 mA	3.4 W	7.2 W
40 A	30 mA	7.2 W	15.3 W
	100 mA	7.2 W	15.3 W
	300 mA	7.2 W	15.3 W
	500 mA	7.2 W	15.3 W
63 A	30 mA	15 W	24 W
	100 mA	15 W	24 W
	300 mA	15 W	24 W
	500 mA	15 W	24 W

Technical Data Ex9L-N

Residual Current Circuit Breakers, 6 kA

General parameters

Permanent magnet principle - Voltage independent tripping function
Suitable for household as well as industrial applications
AC, A, S and G type
Recommend is to test it every 6 months in fair environment and every month in heavy condition
In case all wires are not connected at 4-pole RCCB, it is necessary to ensure that circuit of the test button T is supplied with appropriate voltage (by means of mutual connection of respective terminals of the RCCB, see wiring diagram)
Indication of electrical tripping

Electrical parameters

Tested according to	EN 61008
Rated op. voltage U_e	240/415 V AC
Min. voltage for RCD function	voltage independent
Voltage range of the test button T	150 — 254 V AC (2-pole), 150 — 440 V AC (4-pole)
Rated frequency f	50/60 Hz
Conditional short circuit strength I_{nc}	6 kA
Rated current I_n	16, 25, 40, 63 A
Rated residual current $I_{\Delta n}$	10, 30, 100, 300, 500 mA
Sensitivity to residual current	AC type - AC residual current A type - residual AC and pulsating DC current
Time characteristic	AC, A - undelayed type G - delay (insensitivity) 10 - 300 ms S - delay (insensitivity) 130 - 500 ms
Rated impulse withstand voltage U_{imp}	6 kV
Rated insulation voltage U_i	500 V
Surge current proof	AC, A (undelayed type) - 250 A G, S (with delay) - 3000 A
Mechanical service life	2 000 operation cycles
Electrical service life	2 000 operation cycles
Back-up fuse for overload	
I_n = 16 A	max. 25 A gG
I_n = 25 A	max. 25 A gG
I_n = 40 A	max. 32 A gG
I_n = 63 A	max. 50 A gG
Back-up fuse for short circuit	
I_n = 16 A	max. 63 A gG
I_n = 25 A	max. 63 A gG
I_n = 40 A	max. 63 A gG
I_n = 63 A	max. 63 A gG
Rated making capacity I_m (rated residual making capacity $I_{\Delta m}$)	
I_n = 16 A	500 A
I_n = 25 A	500 A
I_n = 40 A	500 A
I_n = 63 A	630 A
Line voltage connection	arbitrary above or below

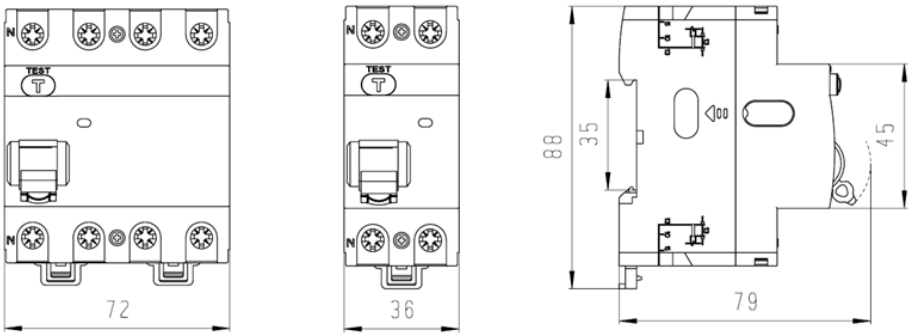
Technical Data Ex9L-N

Residual Current Circuit Breakers, 6 kA

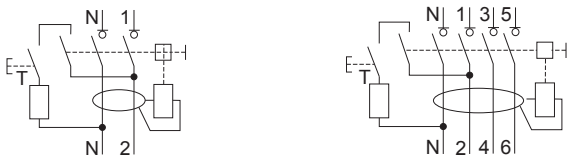
Mechanical parameters

Device width	36 mm (2-pole), 72 mm (4-pole)
Device height	85 mm including rail clip
Frame size	45 mm
Mounting	easy fastening onto 35 mm device rail (DIN)
Degree of protection	IP20
Terminals	combined lift + open mouthed
Terminal capacity	1 — 25 mm^2
Fastening torque of terminals	1.5 — 2.5 Nm
Busbar thickness	0.8 — 2 mm
Ambient temperature	-25 — +40 °C
Altitude	≤ 2000 m
Relative humidity	≤ 95 %
Resistance to humidity and heat	class 2
Pollution degree	2
Installation class	III
Weight	0.22 kg (2-pole), 0.4 kg (4-pole)

Dimensions



Wiring diagrams

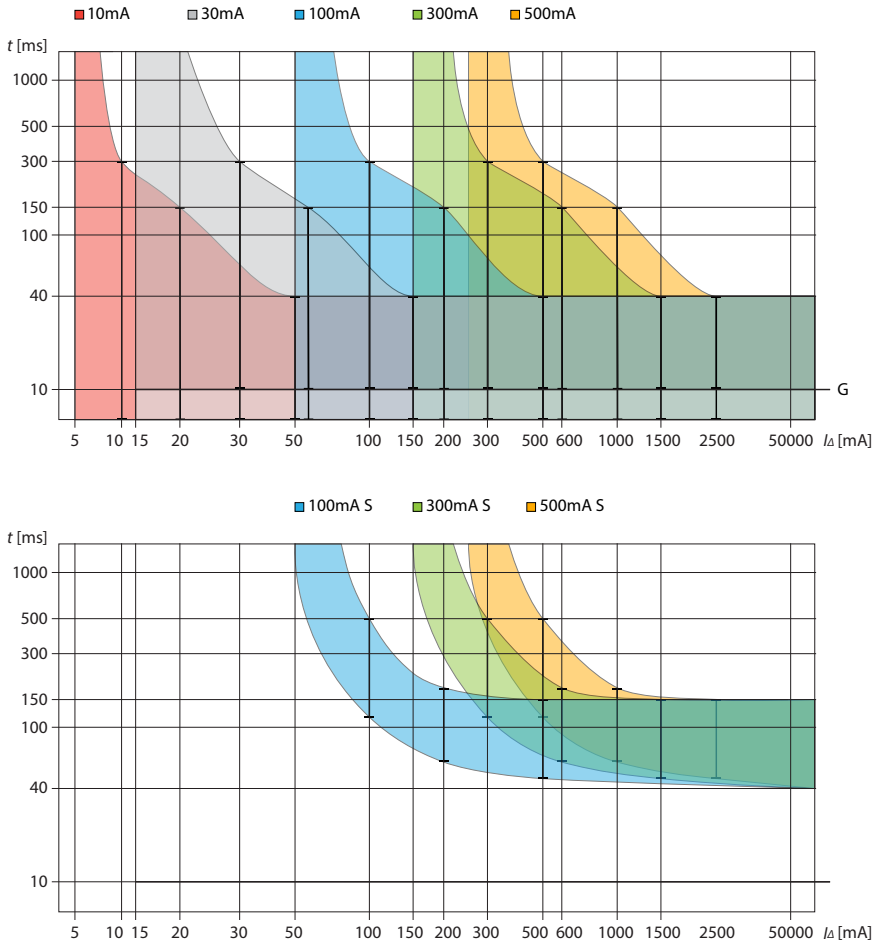


2P 4P

Technical Data Ex9L-N

Residual Current Circuit Breakers, 6 kA

Tripping characteristics



Power loss

I_n	I_Δ	2P	4P
16 A	10 mA	1.8 W	3.8 W
	30 mA	1.8 W	3.8 W
	100 mA	1.8 W	3.8 W
	300 mA	1.8 W	3.8 W
	500 mA	1.8 W	3.8 W
25 A	10 mA	3.4 W	7.2 W
	30 mA	3.4 W	7.2 W
	100 mA	3.4 W	7.2 W
	300 mA	3.4 W	7.2 W
	500 mA	3.4 W	7.2 W
40 A	30 mA	7.2 W	15.3 W
	100 mA	7.2 W	15.3 W
	300 mA	7.2 W	15.3 W
	500 mA	7.2 W	15.3 W
63 A	30 mA	15 W	24 W
	100 mA	15 W	24 W
	300 mA	15 W	24 W
	500 mA	15 W	24 W