

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°C to 60°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 of the RCCB with the test button. Magnetic RCCBs should be tested regularly with a period of one month.

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 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive part 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 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive part 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 part 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 part 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 60 °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 of the RCCB with the T test button. Magnetic RCCBs should be tested regularly with a period of one month.

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 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive part 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 3000 A
- 30 mA version suitable for protection of people in case of direct and indirect contact with live parts and exposed conductive part 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 part 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 part 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)



| 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)



| 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 |
| Magnetic RCCBs should be tested regularly with a period of one month. This is a responsibility of the user of an installation given by law |
| 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 | 3000 A |
| Mechanical service life | 20 000 operation cycles |
| Electrical service life | 4 000 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 |

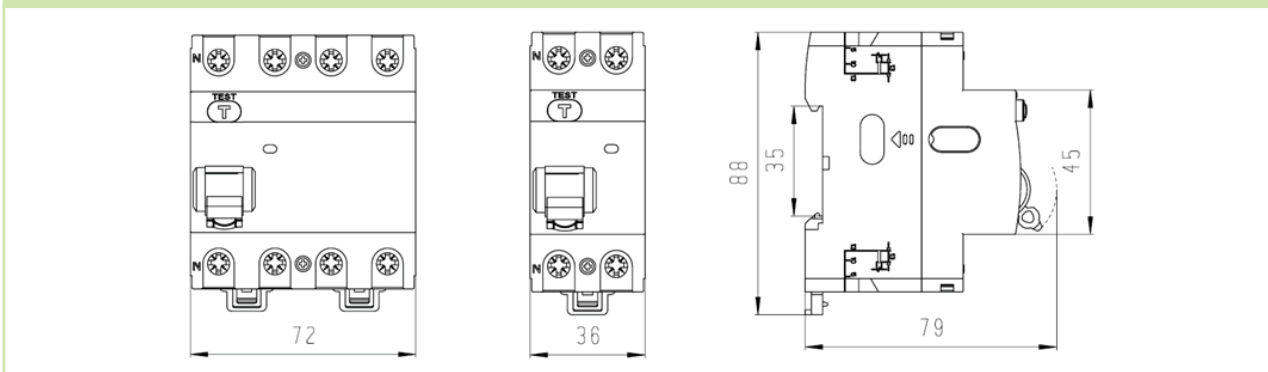
Technical Data Ex9L-H

Residual Current Circuit Breakers, 10 kA

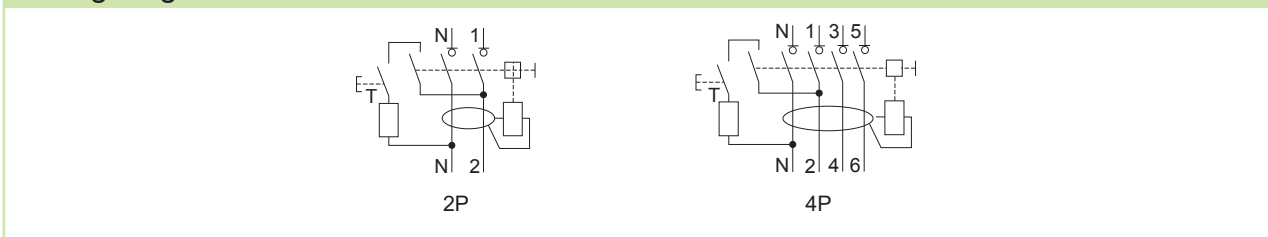
Mechanical parameters

| | |
|---------------------------------|---|
| 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 — +60 °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



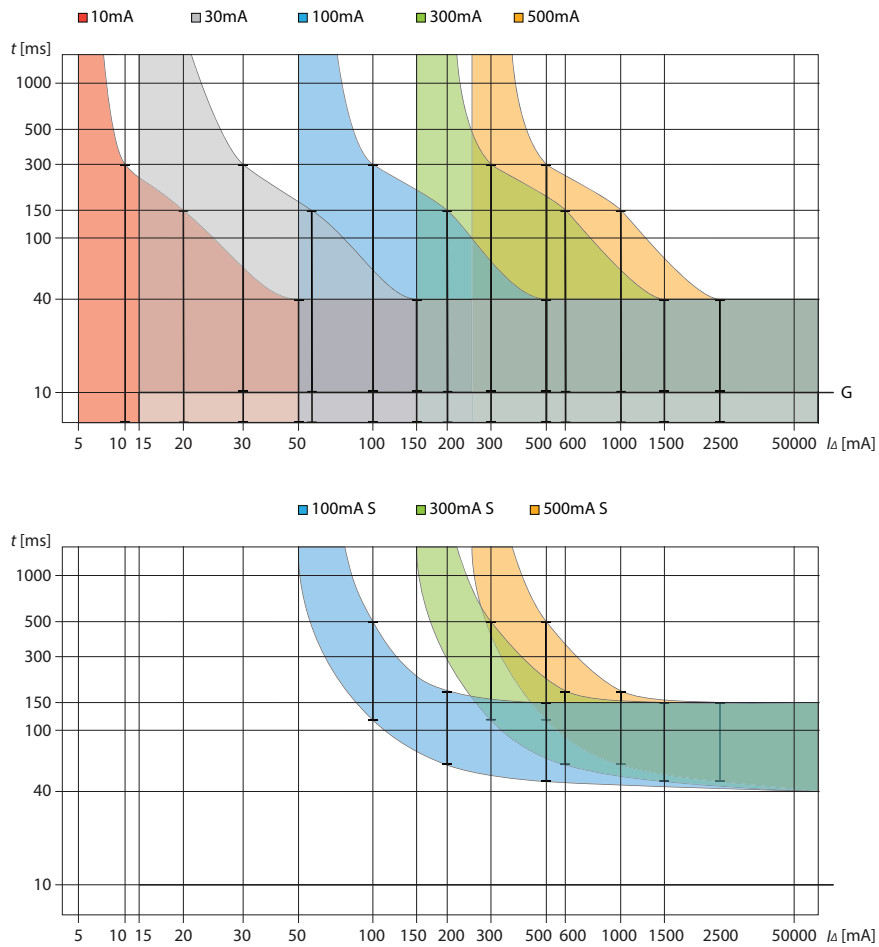
Wiring diagrams



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 |
| Magnetic RCCBs should be tested regularly with a period of one month. This is a responsibility of the user of an installation given by law |
| 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 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 | 3000 A |
| Mechanical service life | 20 000 operation cycles |
| Electrical service life | 4 000 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 |

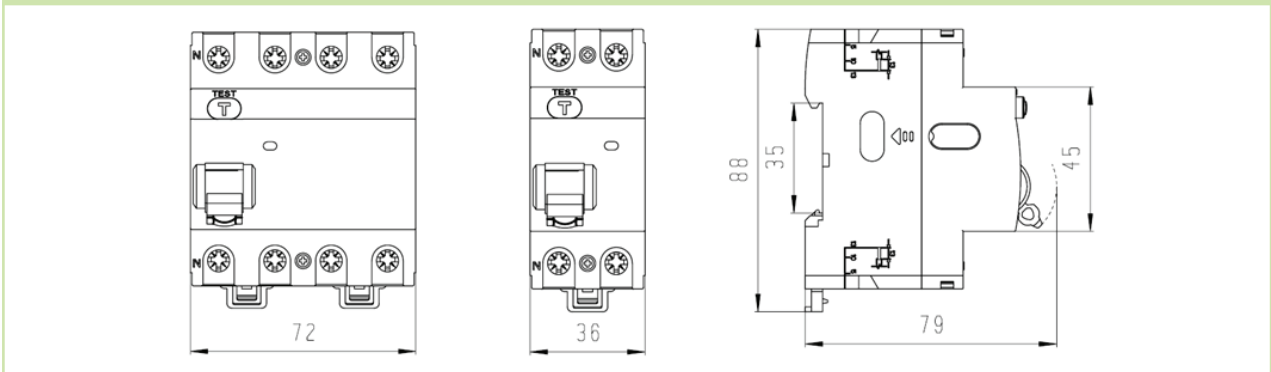
Technical Data Ex9L-N

Residual Current Circuit Breakers, 6 kA

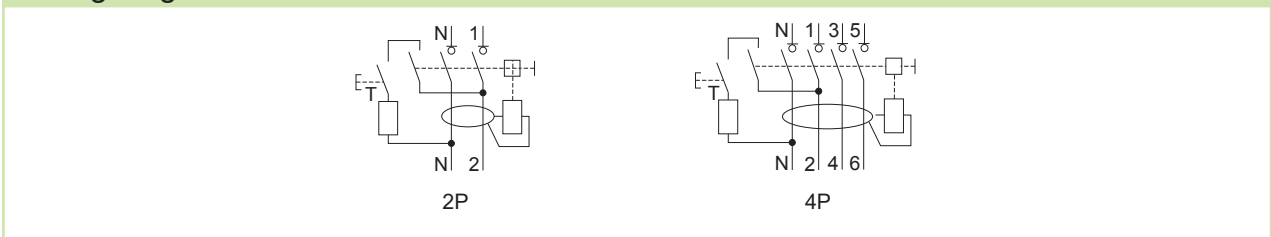
Mechanical parameters

| | |
|---------------------------------|---|
| 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 — +60 °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



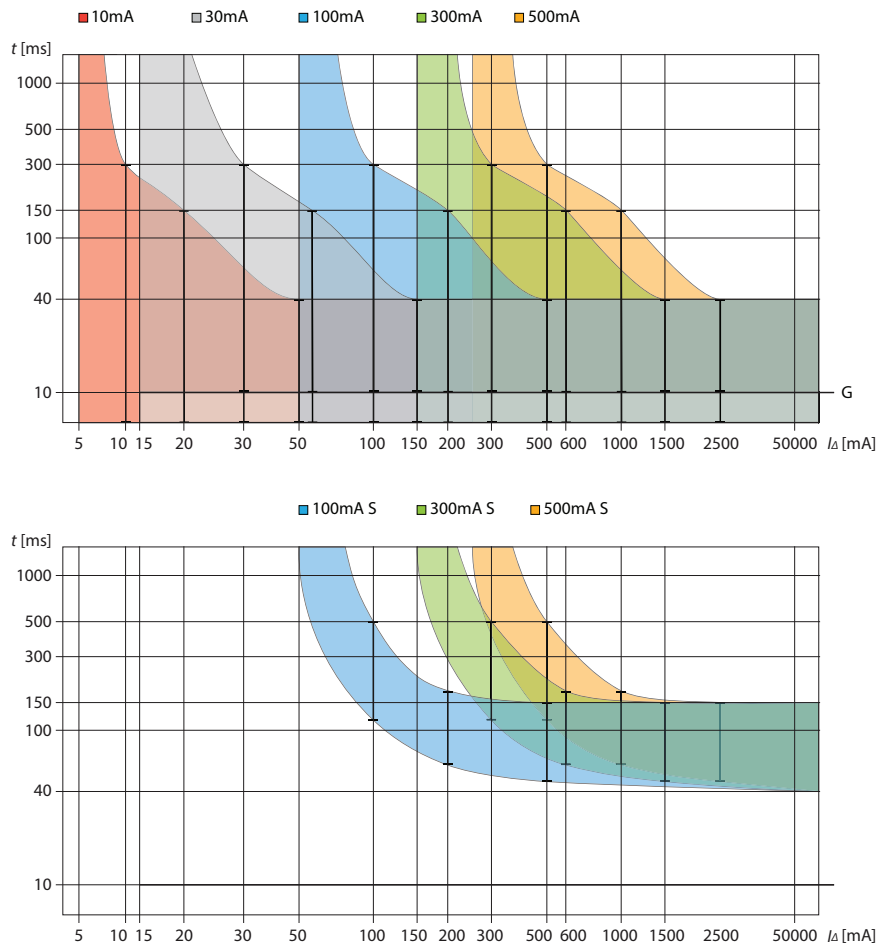
Wiring diagrams



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 |