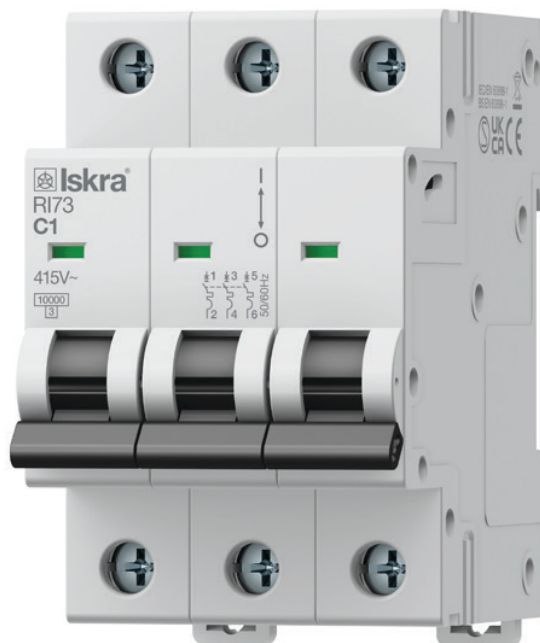


RI70 **10 kA**

Miniature Circuit Breakers

Types

| | |
|-------|----------------------------|
| RI71 | single pole |
| RI72 | two pole |
| RI73 | three pole |
| RI74 | four pole |
| RI71N | single pole + neutral pole |
| RI73N | three pole + neutral pole |



Benefits

- ▶ Protection against both overload and short circuit, function of isolation
- ▶ High Breaking Capacity [I_{cn}]: 10 kA
- ▶ High Rated Service Breaking Capacity [I_{cs}]: 7.5 kA
- ▶ Contact position indicator
- ▶ 35 mm DIN rail mounting and screw mounting
- ▶ Full range accessories are available



| Technical data | Symbol | Unit | RI70 |
|---------------------------------|-----------|-----------------|---|
| Standards | | | IEC/EN 60898-1 |
| Rated current | I_n | A | 0.5, 1, 2, 3, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63 |
| Rated voltage | U_n | V | AC 230/240, AC 400/415 |
| Breaking capacity | I_{cn} | kA | 10 |
| Service breaking capacity | I_{cs} | kA | 7.5 |
| Rated frequency | f_n | Hz | 50/60 |
| Tripping characteristics | | | B, C, D |
| Number of poles | | | 1P, 2P, 3P, 4P, 1P+N, 3P+N |
| Rated impulse withstand voltage | U_{imp} | kV | 4 |
| Electrical endurance | | | 10000 cycles |
| Mechanical endurance | | | 20000 cycles |
| Terminal | | | pillar type |
| Cable termination | | mm ² | 25 |
| Torque of screw | | Nm | 2.5 |
| Ambient temperature | | °C | -25 ... +55 |
| Storage temperature | | °C | -40 ... +70 |
| IP degree | | | IP20 |

RI70 — C characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|-------------|----------------------------|----------------------------|-----------------|--------------|---------------|-------------------|-------------------|
| RI71 | | | | | | | |
| RI71 C0.5 | 0.5 | 230/240 | 1 | 786.091.483 | 100 | 12 | 120 |
| RI71 C1 | 1 | 230/240 | 1 | 786.091.182 | 105 | 12 | 120 |
| RI71 C2 | 2 | 230/240 | 1 | 786.091.183 | 102 | 12 | 120 |
| RI71 C3 | 3 | 230/240 | 1 | 786.091.184 | 104 | 12 | 120 |
| RI71 C4 | 4 | 230/240 | 1 | 786.091.185 | 104 | 12 | 120 |
| RI71 C6 | 6 | 230/240 | 1 | 786.091.186 | 104 | 12 | 120 |
| RI71 C8 | 8 | 230/240 | 1 | 786.091.187 | 105 | 12 | 120 |
| RI71 C10 | 10 | 230/240 | 1 | 786.091.188 | 105 | 12 | 120 |
| RI71 C13 | 13 | 230/240 | 1 | 786.091.189 | 104 | 12 | 120 |
| RI71 C16 | 16 | 230/240 | 1 | 786.091.190 | 104 | 12 | 120 |
| RI71 C20 | 20 | 230/240 | 1 | 786.091.191 | 105 | 12 | 120 |
| RI71 C25 | 25 | 230/240 | 1 | 786.091.192 | 105 | 12 | 120 |
| RI71 C32 | 32 | 230/240 | 1 | 786.091.193 | 105 | 12 | 120 |
| RI71 C40 | 40 | 230/240 | 1 | 786.091.194 | 110 | 12 | 120 |
| RI71 C50 | 50 | 230/240 | 1 | 786.091.195 | 117 | 12 | 120 |
| RI71 C63 | 63 | 230/240 | 1 | 786.091.196 | 123 | 12 | 120 |
| RI72 | | | | | | | |
| RI72 C0.5 | 0.5 | 415 | 2 | 786.091.492 | 200 | 6 | 60 |
| RI72 C1 | 1 | 415 | 2 | 786.091.197 | 210 | 6 | 60 |
| RI72 C2 | 2 | 415 | 2 | 786.091.198 | 220 | 6 | 60 |
| RI72 C3 | 3 | 415 | 2 | 786.091.199 | 220 | 6 | 60 |
| RI72 C4 | 4 | 415 | 2 | 786.091.200 | 220 | 6 | 60 |
| RI72 C6 | 6 | 415 | 2 | 786.091.201 | 225 | 6 | 60 |
| RI72 C8 | 8 | 415 | 2 | 786.091.202 | 226 | 6 | 60 |
| RI72 C10 | 10 | 415 | 2 | 786.091.203 | 226 | 6 | 60 |
| RI72 C13 | 13 | 415 | 2 | 786.091.204 | 226 | 6 | 60 |
| RI72 C16 | 16 | 415 | 2 | 786.091.205 | 225 | 6 | 60 |
| RI72 C20 | 20 | 415 | 2 | 786.091.206 | 226 | 6 | 60 |
| RI72 C25 | 25 | 415 | 2 | 786.091.207 | 226 | 6 | 60 |
| RI72 C32 | 32 | 415 | 2 | 786.091.208 | 226 | 6 | 60 |
| RI72 C40 | 40 | 415 | 2 | 786.091.209 | 235 | 6 | 60 |
| RI72 C50 | 50 | 415 | 2 | 786.091.210 | 235 | 6 | 60 |
| RI72 C63 | 63 | 415 | 2 | 786.091.211 | 246 | 6 | 60 |
| RI73 | | | | | | | |
| RI73 C0.5 | 0.5 | 415 | 3 | 786.091.493 | 300 | 4 | 40 |
| RI73 C1 | 1 | 415 | 3 | 786.091.212 | 315 | 4 | 40 |
| RI73 C2 | 2 | 415 | 3 | 786.091.213 | 306 | 4 | 40 |
| RI73 C3 | 3 | 415 | 3 | 786.091.214 | 312 | 4 | 40 |
| RI73 C4 | 4 | 415 | 3 | 786.091.215 | 312 | 4 | 40 |
| RI73 C6 | 6 | 415 | 3 | 786.091.216 | 312 | 4 | 40 |
| RI73 C8 | 8 | 415 | 3 | 786.091.187 | 312 | 4 | 40 |
| RI73 C10 | 10 | 415 | 3 | 786.091.218 | 312 | 4 | 40 |
| RI73 C13 | 13 | 415 | 3 | 786.091.189 | 312 | 4 | 40 |
| RI73 C16 | 16 | 415 | 3 | 786.091.220 | 312 | 4 | 40 |
| RI73 C20 | 20 | 415 | 3 | 786.091.221 | 315 | 4 | 40 |
| RI73 C25 | 25 | 415 | 3 | 786.091.222 | 315 | 4 | 40 |
| RI73 C32 | 32 | 415 | 3 | 786.091.223 | 315 | 4 | 40 |
| RI73 C40 | 40 | 415 | 3 | 786.091.224 | 330 | 4 | 40 |
| RI73 C50 | 50 | 415 | 3 | 786.091.225 | 351 | 4 | 40 |
| RI73 C63 | 63 | 415 | 3 | 786.091.226 | 367 | 4 | 40 |



RI70 — C characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|--------------|----------------------------|----------------------------|-----------------|--------------|---------------|-------------------|-------------------|
| RI74 | | | | | | | |
| RI74 C0.5 | 0.5 | 415 | 4 | 786.091.494 | 400 | 3 | 30 |
| RI74 C1 | 1 | 415 | 4 | 786.091.227 | 420 | 3 | 30 |
| RI74 C2 | 2 | 415 | 4 | 786.091.228 | 424 | 3 | 30 |
| RI74 C3 | 3 | 415 | 4 | 786.091.229 | 432 | 3 | 30 |
| RI74 C4 | 4 | 415 | 4 | 786.091.230 | 432 | 3 | 30 |
| RI74 C6 | 6 | 415 | 4 | 786.091.231 | 432 | 3 | 30 |
| RI74 C8 | 8 | 415 | 4 | 786.091.232 | 432 | 3 | 30 |
| RI74 C10 | 10 | 415 | 4 | 786.091.233 | 432 | 3 | 30 |
| RI74 C13 | 13 | 415 | 4 | 786.091.234 | 432 | 3 | 30 |
| RI74 C16 | 16 | 415 | 4 | 786.091.235 | 448 | 3 | 30 |
| RI74 C20 | 20 | 415 | 4 | 786.091.236 | 448 | 3 | 30 |
| RI74 C25 | 25 | 415 | 4 | 786.091.237 | 448 | 3 | 30 |
| RI74 C32 | 32 | 415 | 4 | 786.091.238 | 447 | 3 | 30 |
| RI74 C40 | 40 | 415 | 4 | 786.091.239 | 448 | 3 | 30 |
| RI74 C50 | 50 | 415 | 4 | 786.091.240 | 468 | 3 | 30 |
| RI74 C63 | 63 | 415 | 4 | 786.091.241 | 489 | 3 | 30 |
| RI71N | | | | | | | |
| RI71N C0.5 | 0.5 | 230/240 | 1+N | 786.091.500 | 199 | 6 | 60 |
| RI71N C1 | 1 | 230/240 | 1+N | 786.091.242 | 204 | 6 | 60 |
| RI71N C2 | 2 | 230/240 | 1+N | 786.091.243 | 201 | 6 | 60 |
| RI71N C3 | 3 | 230/240 | 1+N | 786.091.244 | 203 | 6 | 60 |
| RI71N C4 | 4 | 230/240 | 1+N | 786.091.245 | 203 | 6 | 60 |
| RI71N C6 | 6 | 230/240 | 1+N | 786.091.246 | 203 | 6 | 60 |
| RI71N C8 | 8 | 230/240 | 1+N | 786.091.247 | 204 | 6 | 60 |
| RI71N C10 | 10 | 230/240 | 1+N | 786.091.248 | 204 | 6 | 60 |
| RI71N C13 | 13 | 230/240 | 1+N | 786.091.249 | 203 | 6 | 60 |
| RI71N C16 | 16 | 230/240 | 1+N | 786.091.250 | 203 | 6 | 60 |
| RI71N C20 | 20 | 230/240 | 1+N | 786.091.251 | 204 | 6 | 60 |
| RI71N C25 | 25 | 230/240 | 1+N | 786.091.252 | 204 | 6 | 60 |
| RI71N C32 | 32 | 230/240 | 1+N | 786.091.253 | 204 | 6 | 60 |
| RI71N C40 | 40 | 230/240 | 1+N | 786.091.254 | 209 | 6 | 60 |
| RI71N C50 | 50 | 230/240 | 1+N | 786.091.255 | 216 | 6 | 60 |
| RI71N C63 | 63 | 230/240 | 1+N | 786.091.256 | 222 | 6 | 60 |
| RI73N | | | | | | | |
| RI73N C0.5 | 0.5 | 415 | 3+N | 786.091.502 | 400 | 3 | 30 |
| RI73N C1 | 1 | 415 | 3+N | 786.091.257 | 414 | 3 | 30 |
| RI73N C2 | 2 | 415 | 3+N | 786.091.258 | 405 | 3 | 30 |
| RI73N C3 | 3 | 415 | 3+N | 786.091.259 | 411 | 3 | 30 |
| RI73N C4 | 4 | 415 | 3+N | 786.091.260 | 411 | 3 | 30 |
| RI73N C6 | 6 | 415 | 3+N | 786.091.261 | 411 | 3 | 30 |
| RI73N C8 | 8 | 415 | 3+N | 786.091.262 | 411 | 3 | 30 |
| RI73N C10 | 10 | 415 | 3+N | 786.091.263 | 411 | 3 | 30 |
| RI73N C13 | 13 | 415 | 3+N | 786.091.264 | 411 | 3 | 30 |
| RI73N C16 | 16 | 415 | 3+N | 786.091.265 | 411 | 3 | 30 |
| RI73N C20 | 20 | 415 | 3+N | 786.091.266 | 414 | 3 | 30 |
| RI73N C25 | 25 | 415 | 3+N | 786.091.267 | 414 | 3 | 30 |
| RI73N C32 | 32 | 415 | 3+N | 786.091.268 | 414 | 3 | 30 |
| RI73N C40 | 40 | 415 | 3+N | 786.091.269 | 429 | 3 | 30 |
| RI73N C50 | 50 | 415 | 3+N | 786.091.270 | 466 | 3 | 30 |
| RI73N C63 | 63 | 415 | 3+N | 786.091.271 | 466 | 3 | 30 |



RI70 — B characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|-------------|----------------------------|----------------------------|-----------------|--------------|---------------|-------------------|-------------------|
| RI71 | | | | | | | |
| RI71 B0.5 | 0.5 | 230/240 | 1 | 786.091.495 | 100 | 12 | 120 |
| RI71 B1 | 1 | 230/240 | 1 | 786.091.272 | 105 | 12 | 120 |
| RI71 B2 | 2 | 230/240 | 1 | 786.091.273 | 102 | 12 | 120 |
| RI71 B3 | 3 | 230/240 | 1 | 786.091.274 | 104 | 12 | 120 |
| RI71 B4 | 4 | 230/240 | 1 | 786.091.275 | 104 | 12 | 120 |
| RI71 B6 | 6 | 230/240 | 1 | 786.091.276 | 104 | 12 | 120 |
| RI71 B8 | 8 | 230/240 | 1 | 786.091.277 | 105 | 12 | 120 |
| RI71 B10 | 10 | 230/240 | 1 | 786.091.278 | 105 | 12 | 120 |
| RI71 B13 | 13 | 230/240 | 1 | 786.091.279 | 104 | 12 | 120 |
| RI71 B16 | 16 | 230/240 | 1 | 786.091.280 | 104 | 12 | 120 |
| RI71 B20 | 20 | 230/240 | 1 | 786.091.281 | 105 | 12 | 120 |
| RI71 B25 | 25 | 230/240 | 1 | 786.091.282 | 105 | 12 | 120 |
| RI71 B32 | 32 | 230/240 | 1 | 786.091.283 | 105 | 12 | 120 |
| RI71 B40 | 40 | 230/240 | 1 | 786.091.284 | 110 | 12 | 120 |
| RI71 B50 | 50 | 230/240 | 1 | 786.091.285 | 117 | 12 | 120 |
| RI71 B63 | 63 | 230/240 | 1 | 786.091.286 | 123 | 12 | 120 |
| RI72 | | | | | | | |
| RI72 B0.5 | 0.5 | 415 | 2 | 786.091.484 | 200 | 6 | 60 |
| RI72 B1 | 1 | 415 | 2 | 786.091.287 | 210 | 6 | 60 |
| RI72 B2 | 2 | 415 | 2 | 786.091.288 | 220 | 6 | 60 |
| RI72 B3 | 3 | 415 | 2 | 786.091.289 | 220 | 6 | 60 |
| RI72 B4 | 4 | 415 | 2 | 786.091.290 | 220 | 6 | 60 |
| RI72 B6 | 6 | 415 | 2 | 786.091.291 | 225 | 6 | 60 |
| RI72 B8 | 8 | 415 | 2 | 786.091.292 | 226 | 6 | 60 |
| RI72 B10 | 10 | 415 | 2 | 786.091.293 | 226 | 6 | 60 |
| RI72 B13 | 13 | 415 | 2 | 786.091.294 | 226 | 6 | 60 |
| RI72 B16 | 16 | 415 | 2 | 786.091.295 | 225 | 6 | 60 |
| RI72 B20 | 20 | 415 | 2 | 786.091.296 | 226 | 6 | 60 |
| RI72 B25 | 25 | 415 | 2 | 786.091.297 | 226 | 6 | 60 |
| RI72 B32 | 32 | 415 | 2 | 786.091.298 | 226 | 6 | 60 |
| RI72 B40 | 40 | 415 | 2 | 786.091.299 | 235 | 6 | 60 |
| RI72 B50 | 50 | 415 | 2 | 786.091.300 | 235 | 6 | 60 |
| RI72 B63 | 63 | 415 | 2 | 786.091.301 | 246 | 6 | 60 |
| RI73 | | | | | | | |
| RI73 B0.5 | 0.5 | 415 | 2 | 786.091.496 | 300 | 4 | 40 |
| RI73 B1 | 1 | 415 | 3 | 786.091.302 | 315 | 4 | 40 |
| RI73 B2 | 2 | 415 | 3 | 786.091.303 | 306 | 4 | 40 |
| RI73 B3 | 3 | 415 | 3 | 786.091.304 | 312 | 4 | 40 |
| RI73 B4 | 4 | 415 | 3 | 786.091.305 | 312 | 4 | 40 |
| RI73 B6 | 6 | 415 | 3 | 786.091.306 | 312 | 4 | 40 |
| RI73 B8 | 8 | 415 | 3 | 786.091.307 | 312 | 4 | 40 |
| RI73 B10 | 10 | 415 | 3 | 786.091.308 | 312 | 4 | 40 |
| RI73 B13 | 13 | 415 | 3 | 786.091.309 | 312 | 4 | 40 |
| RI73 B16 | 16 | 415 | 3 | 786.091.310 | 312 | 4 | 40 |
| RI73 B20 | 20 | 415 | 3 | 786.091.311 | 315 | 4 | 40 |
| RI73 B25 | 25 | 415 | 3 | 786.091.312 | 315 | 4 | 40 |
| RI73 B32 | 32 | 415 | 3 | 786.091.313 | 315 | 4 | 40 |
| RI73 B40 | 40 | 415 | 3 | 786.091.314 | 330 | 4 | 40 |
| RI73 B50 | 50 | 415 | 3 | 786.091.315 | 351 | 4 | 40 |
| RI73 B63 | 63 | 415 | 3 | 786.091.316 | 367 | 4 | 40 |



RI70 — B characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|--------------|----------------------------|----------------------------|-----------------|--------------|---------------|-------------------|-------------------|
| RI74 | | | | | | | |
| RI74 B0.5 | 0.5 | 415 | 4 | 786.091.497 | 400 | 3 | 30 |
| RI74 B1 | 1 | 415 | 4 | 786.091.317 | 420 | 3 | 30 |
| RI74 B2 | 2 | 415 | 4 | 786.091.318 | 424 | 3 | 30 |
| RI74 B3 | 3 | 415 | 4 | 786.091.319 | 432 | 3 | 30 |
| RI74 B4 | 4 | 415 | 4 | 786.091.320 | 432 | 3 | 30 |
| RI74 B6 | 6 | 415 | 4 | 786.091.321 | 432 | 3 | 30 |
| RI74 B8 | 8 | 415 | 4 | 786.091.322 | 432 | 3 | 30 |
| RI74 B10 | 10 | 415 | 4 | 786.091.323 | 432 | 3 | 30 |
| RI74 B13 | 13 | 415 | 4 | 786.091.324 | 432 | 3 | 30 |
| RI74 B16 | 16 | 415 | 4 | 786.091.325 | 448 | 3 | 30 |
| RI74 B20 | 20 | 415 | 4 | 786.091.326 | 448 | 3 | 30 |
| RI74 B25 | 25 | 415 | 4 | 786.091.327 | 448 | 3 | 30 |
| RI74 B32 | 32 | 415 | 4 | 786.091.328 | 447 | 3 | 30 |
| RI74 B40 | 40 | 415 | 4 | 786.091.329 | 448 | 3 | 30 |
| RI74 B50 | 50 | 415 | 4 | 786.091.330 | 468 | 3 | 30 |
| RI74 B63 | 63 | 415 | 4 | 786.091.331 | 489 | 3 | 30 |
| RI71N | | | | | | | |
| RI71N B0.5 | 0.5 | 230/240 | 1+N | 786.091.501 | 199 | 6 | 60 |
| RI71N B1 | 1 | 230/240 | 1+N | 786.091.332 | 204 | 6 | 60 |
| RI71N B2 | 2 | 230/240 | 1+N | 786.091.333 | 201 | 6 | 60 |
| RI71N B3 | 3 | 230/240 | 1+N | 786.091.334 | 203 | 6 | 60 |
| RI71N B4 | 4 | 230/240 | 1+N | 786.091.335 | 203 | 6 | 60 |
| RI71N B6 | 6 | 230/240 | 1+N | 786.091.336 | 203 | 6 | 60 |
| RI71N B8 | 8 | 230/240 | 1+N | 786.091.337 | 204 | 6 | 60 |
| RI71N B10 | 10 | 230/240 | 1+N | 786.091.338 | 204 | 6 | 60 |
| RI71N B13 | 13 | 230/240 | 1+N | 786.091.339 | 203 | 6 | 60 |
| RI71N B16 | 16 | 230/240 | 1+N | 786.091.340 | 203 | 6 | 60 |
| RI71N B20 | 20 | 230/240 | 1+N | 786.091.341 | 204 | 6 | 60 |
| RI71N B25 | 25 | 230/240 | 1+N | 786.091.342 | 204 | 6 | 60 |
| RI71N B32 | 32 | 230/240 | 1+N | 786.091.343 | 204 | 6 | 60 |
| RI71N B40 | 40 | 230/240 | 1+N | 786.091.344 | 209 | 6 | 60 |
| RI71N B50 | 50 | 230/240 | 1+N | 786.091.345 | 216 | 6 | 60 |
| RI71N B63 | 63 | 230/240 | 1+N | 786.091.346 | 222 | 6 | 60 |
| RI73N | | | | | | | |
| RI73N B0.5 | 0.5 | 415 | 3+N | 786.091.503 | 400 | 3 | 30 |
| RI73N B1 | 1 | 415 | 3+N | 786.091.347 | 414 | 3 | 30 |
| RI73N B2 | 2 | 415 | 3+N | 786.091.348 | 405 | 3 | 30 |
| RI73N B3 | 3 | 415 | 3+N | 786.091.349 | 411 | 3 | 30 |
| RI73N B4 | 4 | 415 | 3+N | 786.091.350 | 411 | 3 | 30 |
| RI73N B6 | 6 | 415 | 3+N | 786.091.351 | 411 | 3 | 30 |
| RI73N B8 | 8 | 415 | 3+N | 786.091.352 | 411 | 3 | 30 |
| RI73N B10 | 10 | 415 | 3+N | 786.091.353 | 411 | 3 | 30 |
| RI73N B13 | 13 | 415 | 3+N | 786.091.354 | 411 | 3 | 30 |
| RI73N B16 | 16 | 415 | 3+N | 786.091.355 | 411 | 3 | 30 |
| RI73N B20 | 20 | 415 | 3+N | 786.091.356 | 414 | 3 | 30 |
| RI73N B25 | 25 | 415 | 3+N | 786.091.357 | 414 | 3 | 30 |
| RI73N B32 | 32 | 415 | 3+N | 786.091.358 | 414 | 3 | 30 |
| RI73N B40 | 40 | 415 | 3+N | 786.091.359 | 429 | 3 | 30 |
| RI73N B50 | 50 | 415 | 3+N | 786.091.360 | 466 | 3 | 30 |
| RI73N B63 | 63 | 415 | 3+N | 786.091.361 | 466 | 3 | 30 |



RI70 — D characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|-------------|----------------------------|----------------------------|-----------------|--------------|---------------|-------------------|-------------------|
| RI71 | | | | | | | |
| RI71 D0.5 | 0.5 | 230/240 | 1 | 786.091.482 | 100 | 12 | 120 |
| RI71 D1 | 1 | 230/240 | 1 | 786.091.362 | 105 | 12 | 120 |
| RI71 D2 | 2 | 230/240 | 1 | 786.091.363 | 102 | 12 | 120 |
| RI71 D3 | 3 | 230/240 | 1 | 786.091.364 | 104 | 12 | 120 |
| RI71 D4 | 4 | 230/240 | 1 | 786.091.365 | 104 | 12 | 120 |
| RI71 D6 | 6 | 230/240 | 1 | 786.091.366 | 104 | 12 | 120 |
| RI71 D8 | 8 | 230/240 | 1 | 786.091.367 | 105 | 12 | 120 |
| RI71 D10 | 10 | 230/240 | 1 | 786.091.368 | 105 | 12 | 120 |
| RI71 D13 | 13 | 230/240 | 1 | 786.091.369 | 104 | 12 | 120 |
| RI71 D16 | 16 | 230/240 | 1 | 786.091.370 | 104 | 12 | 120 |
| RI71 D20 | 20 | 230/240 | 1 | 786.091.371 | 105 | 12 | 120 |
| RI71 D25 | 25 | 230/240 | 1 | 786.091.372 | 105 | 12 | 120 |
| RI71 D32 | 32 | 230/240 | 1 | 786.091.373 | 105 | 12 | 120 |
| RI71 D40 | 40 | 230/240 | 1 | 786.091.374 | 110 | 12 | 120 |
| RI71 D50 | 50 | 230/240 | 1 | 786.091.375 | 117 | 12 | 120 |
| RI71 D63 | 63 | 230/240 | 1 | 786.091.376 | 123 | 12 | 120 |
| RI72 | | | | | | | |
| RI72 D0.5 | 0.5 | 415 | 2 | 786.091.484 | 200 | 6 | 60 |
| RI72 D1 | 1 | 415 | 2 | 786.091.377 | 210 | 6 | 60 |
| RI72 D2 | 2 | 415 | 2 | 786.091.378 | 220 | 6 | 60 |
| RI72 D3 | 3 | 415 | 2 | 786.091.379 | 220 | 6 | 60 |
| RI72 D4 | 4 | 415 | 2 | 786.091.380 | 220 | 6 | 60 |
| RI72 D6 | 6 | 415 | 2 | 786.091.381 | 225 | 6 | 60 |
| RI72 D8 | 8 | 415 | 2 | 786.091.382 | 226 | 6 | 60 |
| RI72 D10 | 10 | 415 | 2 | 786.091.383 | 226 | 6 | 60 |
| RI72 D13 | 13 | 415 | 2 | 786.091.384 | 226 | 6 | 60 |
| RI72 D16 | 16 | 415 | 2 | 786.091.385 | 225 | 6 | 60 |
| RI72 D20 | 20 | 415 | 2 | 786.091.386 | 226 | 6 | 60 |
| RI72 D25 | 25 | 415 | 2 | 786.091.387 | 226 | 6 | 60 |
| RI72 D32 | 32 | 415 | 2 | 786.091.388 | 226 | 6 | 60 |
| RI72 D40 | 40 | 415 | 2 | 786.091.389 | 235 | 6 | 60 |
| RI72 D50 | 50 | 415 | 2 | 786.091.390 | 235 | 6 | 60 |
| RI72 D63 | 63 | 415 | 2 | 786.091.391 | 246 | 6 | 60 |
| RI73 | | | | | | | |
| RI73 D0.5 | 0.5 | 415 | 3 | 786.091.498 | 300 | 4 | 40 |
| RI73 D1 | 1 | 415 | 3 | 786.091.392 | 315 | 4 | 40 |
| RI73 D2 | 2 | 415 | 3 | 786.091.393 | 306 | 4 | 40 |
| RI73 D3 | 3 | 415 | 3 | 786.091.394 | 312 | 4 | 40 |
| RI73 D4 | 4 | 415 | 3 | 786.091.395 | 312 | 4 | 40 |
| RI73 D6 | 6 | 415 | 3 | 786.091.396 | 312 | 4 | 40 |
| RI73 D8 | 8 | 415 | 3 | 786.091.397 | 312 | 4 | 40 |
| RI73 D10 | 10 | 415 | 3 | 786.091.398 | 312 | 4 | 40 |
| RI73 D13 | 13 | 415 | 3 | 786.091.399 | 312 | 4 | 40 |
| RI73 D16 | 16 | 415 | 3 | 786.091.400 | 312 | 4 | 40 |
| RI73 D20 | 20 | 415 | 3 | 786.091.401 | 315 | 4 | 40 |
| RI73 D25 | 25 | 415 | 3 | 786.091.402 | 315 | 4 | 40 |
| RI73 D32 | 32 | 415 | 3 | 786.091.403 | 315 | 4 | 40 |
| RI73 D40 | 40 | 415 | 3 | 786.091.404 | 330 | 4 | 40 |
| RI73 D50 | 50 | 415 | 3 | 786.091.405 | 351 | 4 | 40 |
| RI73 D63 | 63 | 415 | 3 | 786.091.406 | 367 | 4 | 40 |



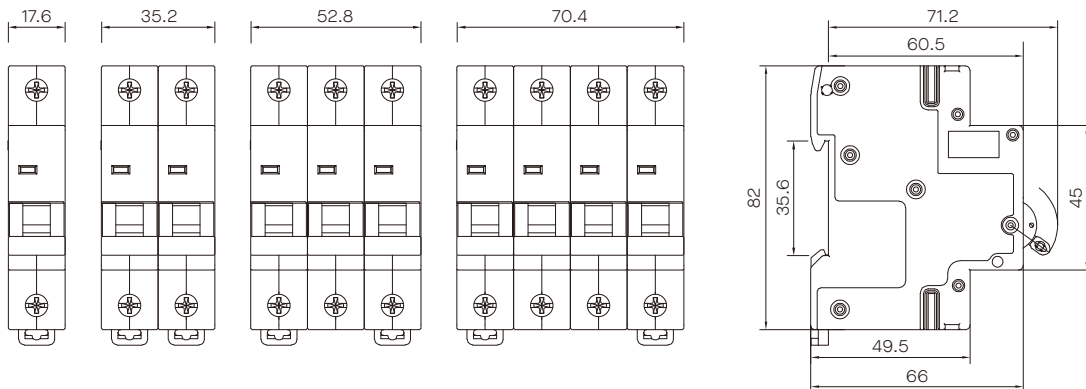
RI70 — D characteristics

| Type | Rated Current I_n (A) | Rated Voltage U_n (V) | No. of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|-------------|----------------------------|----------------------------|--------------|--------------|------------|----------------|----------------|
| RI74 | | | | | | | |
| RI74 D0.5 | 0.5 | 415 | 4 | 786.091.499 | 400 | 3 | 30 |
| RI74 D1 | 1 | 415 | 4 | 786.091.407 | 420 | 3 | 30 |
| RI74 D2 | 2 | 415 | 4 | 786.091.408 | 424 | 3 | 30 |
| RI74 D3 | 3 | 415 | 4 | 786.091.409 | 432 | 3 | 30 |
| RI74 D4 | 4 | 415 | 4 | 786.091.410 | 432 | 3 | 30 |
| RI74 D6 | 6 | 415 | 4 | 786.091.411 | 432 | 3 | 30 |
| RI74 D8 | 8 | 415 | 4 | 786.091.412 | 432 | 3 | 30 |
| RI74 D10 | 10 | 415 | 4 | 786.091.413 | 432 | 3 | 30 |
| RI74 D13 | 13 | 415 | 4 | 786.091.414 | 432 | 3 | 30 |
| RI74 D16 | 16 | 415 | 4 | 786.091.415 | 448 | 3 | 30 |
| RI74 D20 | 20 | 415 | 4 | 786.091.416 | 448 | 3 | 30 |
| RI74 D25 | 25 | 415 | 4 | 786.091.417 | 448 | 3 | 30 |
| RI74 D32 | 32 | 415 | 4 | 786.091.418 | 447 | 3 | 30 |
| RI74 D40 | 40 | 415 | 4 | 786.091.419 | 448 | 3 | 30 |
| RI74 D50 | 50 | 415 | 4 | 786.091.420 | 468 | 3 | 30 |
| RI74 D63 | 63 | 415 | 4 | 786.091.421 | 489 | 3 | 30 |

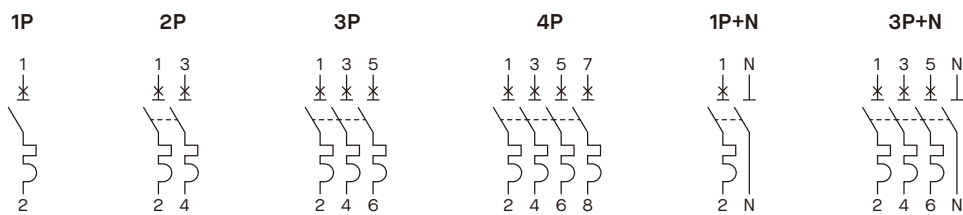


Dimensions

(mm)



Wiring diagram



RI70J

10 kA

DC

Miniature Circuit Breakers



Types

- RI71J single pole
- RI72J two pole
- RI73J three pole
- RI74J four pole

Benefits

- ▶ Used as DC protection for switchboards in PV systems
- ▶ Supports maximum system voltage up to 1200 VDC
- ▶ Short circuit, overload and surge protection



| Technical data | Symbol | Unit | RI70J | | | |
|---|-----------|------|---|---------|---------|----------|
| Standards | | | IEC/EN 60947-2 | | | |
| Rated current | I_n | A | 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 | | | |
| Number of poles | | | 1P | 2P | 3P | 4P |
| Voltage | U_i | V | 220/250 | 440/500 | 660/750 | 880/1000 |
| Rated short-time making capacity (I _{cm}) – 6 kA | | VDC | 500 | 600 | 1500 | 1500 |
| Rated short-time making capacity (I _{cm}) – 10 kA | | VDC | 300 | 600 | 1200 | 1200 |
| Tripping characteristics | | | C | | | |
| Tripping type | | | thermal magnetic | | | |
| Rated impulse withstand voltage | U_{imp} | kV | 6 | | | |
| Electrical endurance | | | 3000 cycles | | | |
| Mechanical endurance | | | 10000 cycles | | | |
| Ambient temperature | | °C | -25 ... +55 | | | |
| Storage temperature | | °C | -40 ... +70 | | | |
| IP degree | | | IP20 | | | |

RI70J — C characteristics

| Type | Rated Current I_n (A) | Voltage U_i (V) | Number of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|--------------|----------------------------|----------------------|--------------------|--------------|---------------|-------------------|-------------------|
| RI71J | | | | | | | |
| RI71J C1 | 1 | 220/250 | 1 | 786.091.422 | 121 | 12 | 120 |
| RI71J C2 | 2 | 220/250 | 1 | 786.091.423 | 121 | 12 | 120 |
| RI71J C3 | 3 | 220/250 | 1 | 786.091.424 | 121 | 12 | 120 |
| RI71J C4 | 4 | 220/250 | 1 | 786.091.425 | 121 | 12 | 120 |
| RI71J C6 | 6 | 220/250 | 1 | 786.091.426 | 118 | 12 | 120 |
| RI71J C10 | 10 | 220/250 | 1 | 786.091.428 | 118 | 12 | 120 |
| RI71J C16 | 16 | 220/250 | 1 | 786.091.430 | 118 | 12 | 120 |
| RI71J C20 | 20 | 220/250 | 1 | 786.091.431 | 118 | 12 | 120 |
| RI71J C25 | 25 | 220/250 | 1 | 786.091.432 | 118 | 12 | 120 |
| RI71J C32 | 32 | 220/250 | 1 | 786.091.433 | 118 | 12 | 120 |
| RI71J C40 | 40 | 220/250 | 1 | 786.091.434 | 118 | 12 | 120 |
| RI71J C50 | 50 | 220/250 | 1 | 786.091.435 | 121 | 12 | 120 |
| RI71J C63 | 63 | 220/250 | 1 | 786.091.436 | 121 | 12 | 120 |
| RI72J | | | | | | | |
| RI72J C1 | 1 | 440/500 | 2 | 786.091.437 | 242 | 6 | 60 |
| RI72J C2 | 2 | 440/500 | 2 | 786.091.438 | 242 | 6 | 60 |
| RI72J C3 | 3 | 440/500 | 2 | 786.091.439 | 242 | 6 | 60 |
| RI72J C4 | 4 | 440/500 | 2 | 786.091.440 | 242 | 6 | 60 |
| RI72J C6 | 6 | 440/500 | 2 | 786.091.441 | 236 | 6 | 60 |
| RI72J C10 | 10 | 440/500 | 2 | 786.091.443 | 236 | 6 | 60 |
| RI72J C16 | 16 | 440/500 | 2 | 786.091.445 | 236 | 6 | 60 |
| RI72J C20 | 20 | 440/500 | 2 | 786.091.446 | 236 | 6 | 60 |
| RI72J C25 | 25 | 440/500 | 2 | 786.091.447 | 236 | 6 | 60 |
| RI72J C32 | 32 | 440/500 | 2 | 786.091.448 | 236 | 6 | 60 |
| RI72J C40 | 40 | 440/500 | 2 | 786.091.449 | 236 | 6 | 60 |
| RI72J C50 | 50 | 440/500 | 2 | 786.091.450 | 242 | 6 | 60 |
| RI72J C63 | 63 | 440/500 | 2 | 786.091.451 | 242 | 6 | 60 |
| RI73J | | | | | | | |
| RI73J C1 | 1 | 660/750 | 3 | 786.091.452 | 362 | 4 | 40 |
| RI73J C2 | 2 | 660/750 | 3 | 786.091.453 | 362 | 4 | 40 |
| RI73J C3 | 3 | 660/750 | 3 | 786.091.454 | 362 | 4 | 40 |
| RI73J C4 | 4 | 660/750 | 3 | 786.091.455 | 362 | 4 | 40 |
| RI73J C6 | 6 | 660/750 | 3 | 786.091.456 | 354 | 4 | 40 |
| RI73J C10 | 10 | 660/750 | 3 | 786.091.458 | 354 | 4 | 40 |
| RI73J C16 | 16 | 660/750 | 3 | 786.091.460 | 354 | 4 | 40 |
| RI73J C20 | 20 | 660/750 | 3 | 786.091.461 | 354 | 4 | 40 |
| RI73J C25 | 25 | 660/750 | 3 | 786.091.462 | 354 | 4 | 40 |
| RI73J C32 | 32 | 660/750 | 3 | 786.091.463 | 354 | 4 | 40 |
| RI73J C40 | 40 | 660/750 | 3 | 786.091.464 | 354 | 4 | 40 |
| RI73J C50 | 50 | 660/750 | 3 | 786.091.465 | 484 | 4 | 40 |
| RI73J C63 | 63 | 660/750 | 3 | 786.091.466 | 484 | 4 | 40 |



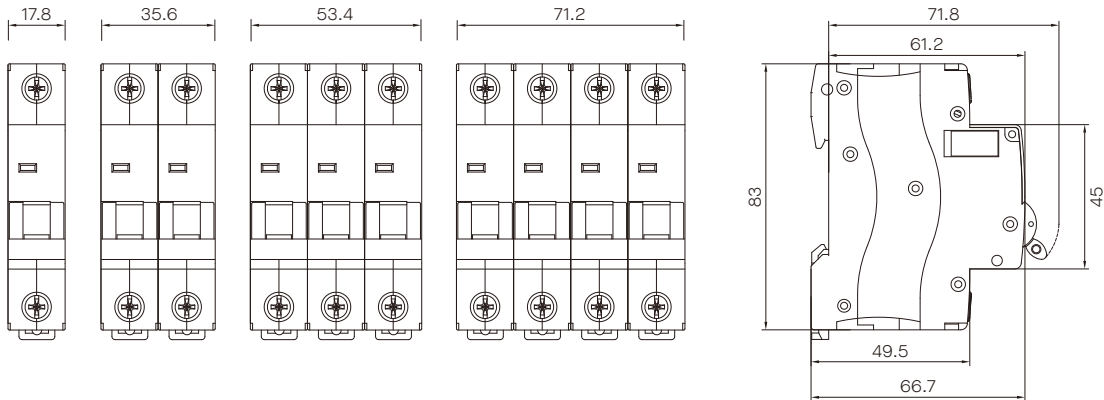
RI70J — C characteristics

| Type | Rated Current I_n (A) | Voltage U_i (V) | Number of Poles | Ordering No. | Weight (g) | Quantity / Box | Quantity / CTN |
|--------------|----------------------------|----------------------|--------------------|--------------|---------------|-------------------|-------------------|
| RI74J | | | | | | | |
| RI74J C1 | 1 | 880/1000 | 4 | 786.091.467 | 482 | 3 | 30 |
| RI74J C2 | 2 | 880/1000 | 4 | 786.091.468 | 482 | 3 | 30 |
| RI74J C3 | 3 | 880/1000 | 4 | 786.091.469 | 482 | 3 | 30 |
| RI74J C4 | 4 | 880/1000 | 4 | 786.091.470 | 482 | 3 | 30 |
| RI74J C6 | 6 | 880/1000 | 4 | 786.091.471 | 468 | 3 | 30 |
| RI74J C10 | 10 | 880/1000 | 4 | 786.091.473 | 468 | 3 | 30 |
| RI74J C16 | 16 | 880/1000 | 4 | 786.091.475 | 468 | 3 | 30 |
| RI74J C20 | 20 | 880/1000 | 4 | 786.091.476 | 468 | 3 | 30 |
| RI74J C25 | 25 | 880/1000 | 4 | 786.091.477 | 468 | 3 | 30 |
| RI74J C32 | 32 | 880/1000 | 4 | 786.091.478 | 468 | 3 | 30 |
| RI74J C40 | 40 | 880/1000 | 4 | 786.091.479 | 468 | 3 | 30 |
| RI74J C50 | 50 | 880/1000 | 4 | 786.091.480 | 482 | 3 | 30 |
| RI74J C63 | 63 | 880/1000 | 4 | 786.091.481 | 482 | 3 | 30 |

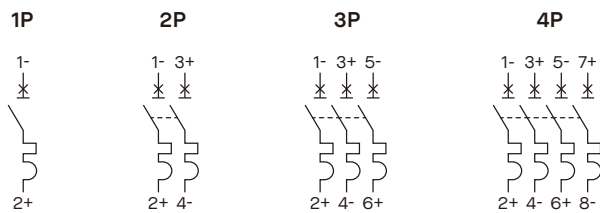


Dimensions

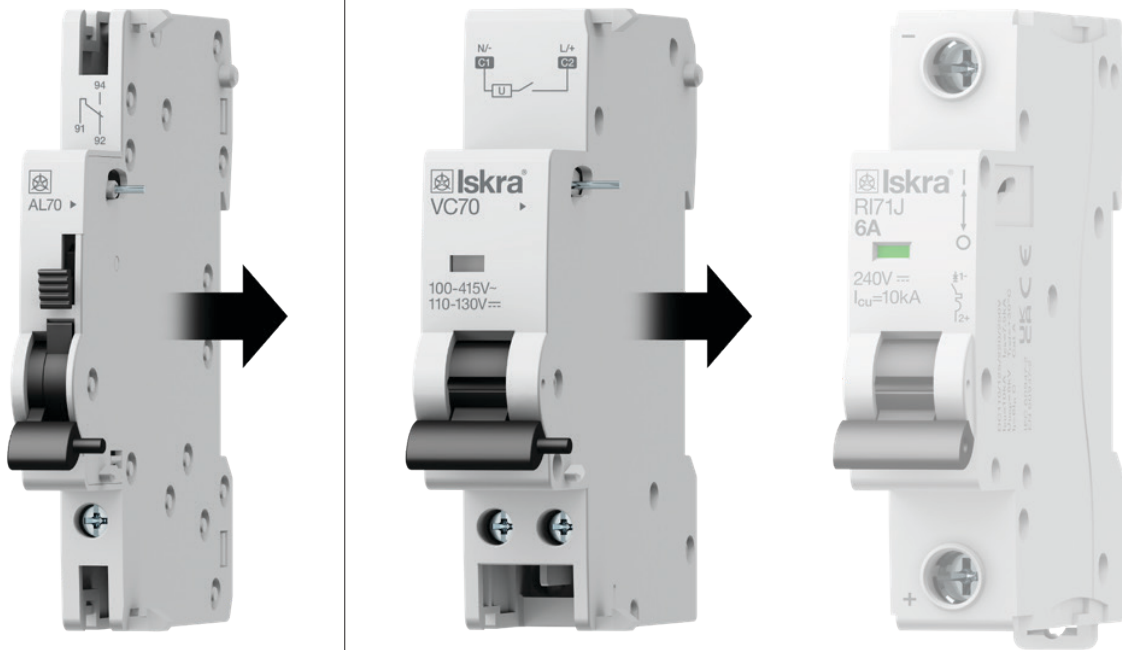
(mm)



Wiring diagram



Accessories for RI70



Types

- PS70-11 auxiliary contact
- AL70 alarm switch
- VC70 shunt release
- PC70 overvoltage and under-voltage release

PS70-11
Auxiliary Contact



AL70
Alarm Switch

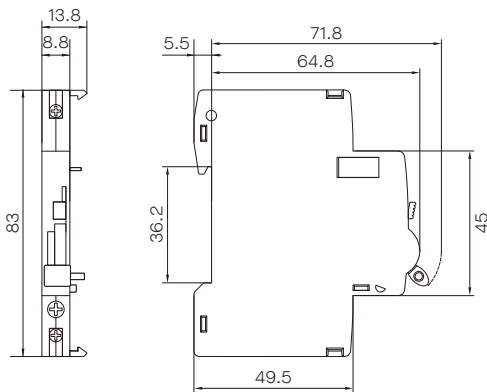


| Model | Symbol | Unit | Data |
|------------------------------|--------|-----------------|---|
| Rated current | I_n | A | 3 A (400 VAC) 6 A (240 VAC) 1 A (110 VDC) |
| Terminal | | mm ² | 0.5 - 4 |
| Dielectric strength | | V/1min | 2000 |
| Electro-mechanical endurance | | | ≥ 5000 times |
| Ordering No. | | | 786.091.488 |
| Quantity / Box | | | 10/100 |

| Model | Symbol | Unit | Data |
|------------------------------|--------|--------|--|
| Contact capacity | I_n | A | 3 A (400VAC) 6 A (230VAC) 9 A (125VDC) |
| Rated power voltage | U_s | V | 400, 230, 125 |
| Operating voltage range | U_s | | 70 - 100 % |
| Dielectric strength | | V/1min | 2000 |
| Rated insulating voltage | U_i | V | 500 |
| Electro-mechanical endurance | | | ≥ 4000 times |
| Ordering No. | | | 786.091.489 |
| Quantity / Box | | | 10/100 |

Dimensions

(mm)



VC70
Shunt Release



PC70
Overtoltage and
undervoltage release



| Model | Symbol | Unit | Data |
|------------------------------|--------|--------|---------------|
| Nominal voltage | U_e | VAC | 110 ~ 415 |
| Max inrush current | I_n | | 3 A (415 VAC) |
| | | | 6 A (230 VAC) |
| | | | 9 A (110 VAC) |
| Dielectric strength | | V/1min | 2000 |
| Release range | | VAC | 110 ~ 415 |
| Electro-mechanical endurance | | | ≥ 4000 times |
| Ordering No. | | | 786.091.490 |
| Quantity / Box | | | 10/100 |

| Model | Symbol | Unit | Data |
|------------------------------|--------|------|--------------|
| Rated voltage | U_e | VAC | 230 |
| Max tripping voltage | | V | 280 |
| Min tripping voltage | | VAC | 170 |
| Electro-mechanical endurance | | | ≥ 4000 times |
| Ordering No. | | | 786.091.491 |
| Quantity / Box | | | 10/100 |

Dimensions

(mm)

