# Consumer unit L · EV

Large house of 150–250 m², usually two-storey — separate circuits for each floor, the garage and the garden, with an electric vehicle (EV): a dedicated 11 kW charger circuit with a Type B RCD.

## PLN 5,510.40

incl. 23% VAT · PLN 4,480.00 excl. VAT · excluding delivery

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|---|---|
| Size | **Size L — large house of 150–250 m², about 22 circuits** |
| Enclosure | **72-module enclosure — room for the EV charger** |

22 circuits in 4 groups of 4-pole Type A RCDs (30 mA), induction hob on a 3-phase circuit, T1+T2 surge protection. An 11 kW EV charger on a dedicated 3-phase circuit with a Type B RCD — required for chargers without DC leakage detection. 72-module enclosure (4 rows × 18) — room for the EV charger. Devices take 55 — 23% spare.

### MOUNTING AND DIMENSIONS

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|---|---|
| Mounting | **surface-mounted — enclosure on the wall** |
| Enclosure dimensions | **565 × 750 × 151 mm (W × H × D)** |

Approximate dimensions — we confirm them against the data sheet of the selected enclosure in the order confirmation (before you cut the recess).

### CONTENTS

72-module enclosure · 4 rows · devices take 55

| | |
|---|---|
| Main switch, surge protection device, phase indicators, N/PE terminal bars | 8 mod. |
| 4-pole Type A residual current devices (RCDs) × 4 (circuit groups) | 16 mod. |
| Circuit breakers (MCBs) × 22 (sockets, lighting, appliances; induction hob — 3-phase) | 24 mod. |
| EV charging — 11 kW | 7 mod. |
| Type B RCD for the charger | – |

### SPECIFICATIONS

DIN modules: **55 used of 72 (spare 17)**

Circuits: **22 (max. 30 in this enclosure)**

Residual current devices (RCDs): **4 × 4-pole 40 A, 30 mA, Type A — circuits split into groups**

Surge protection device (SPD): **T1+T2**

Lead time: 5–10 working days from receipt of the deposit.

Included: wiring diagram, circuit chart, test report, EU declaration of conformity, 24-month warranty. Built to EN 61439-3 (PN-EN 61439-3). Technical documents are issued in Polish.

https://svalcon.co.uk/products/l-ev

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## CIRCUITS AND RCD GROUPS

Typical set of circuits for this size (board model shared by the shop and the workshop). Cable sizes are indicative — selected by length and installation method.

Circuit names and the diagram are in Polish.

| Ref. | Circuit / load | Protection | Poles | Phase | Cable | RCD |
|---|---|---|---|---|---|---|
| F1 | Gniazda — kuchnia (blat) | B16 | 1P | L3 | 3×2,5 | Q1 |
| F2 | Łazienka — gniazda | B16 | 1P | L1 | 3×2,5 | Q1 |
| F3 | Pralka | B16 | 1P | L3 | 3×2,5 | Q1 |
| F4 | Gniazda — sypialnie | B16 | 1P | L2 | 3×2,5 | Q1 |
| F5 | Oświetlenie zewnętrzne | B10 | 1P | L3 | 3×1,5 | Q1 |
| F6 | Gniazda — sypialnia główna | B16 | 1P | L3 | 3×2,5 | Q1 |
| F7 | Oświetlenie — strefa dzienna | B10 | 1P | L1 | 3×1,5 | Q2 |
| F8 | Zmywarka | B16 | 1P | L2 | 3×2,5 | Q2 |
| F9 | Oświetlenie — pomieszczenia gospodarcze | B10 | 1P | L1 | 3×1,5 | Q2 |
| F10 | Łazienka 2 — gniazda | B16 | 1P | L3 | 3×2,5 | Q2 |
| F11 | Gniazda — piętro (pokoje) | B16 | 1P | L2 | 3×2,5 | Q2 |
| F12 | Rezerwa 2 | B16 | 1P | L2 | 3×2,5 | Q2 |
| F13 | Gniazda — salon | B16 | 1P | L2 | 3×2,5 | Q3 |
| F14 | Piekarnik | B16 | 1P | L1 | 3×2,5 | Q3 |
| F15 | Gniazda zewnętrzne / ogród (IP44) | B16 | 1P | L3 | 3×2,5 | Q3 |
| F16 | Oświetlenie — piętro | B10 | 1P | L1 | 3×1,5 | Q3 |
| F17 | Garaż / kotłownia | B16 | 1P | L1 | 3×2,5 | Q3 |
| F18 | Płyta indukcyjna (3-fazowa) | B16 | 3P | L1–L3 | 5×2,5 | Q4 |
| F19 | Oświetlenie — sypialnie i korytarz | B10 | 1P | L2 | 3×1,5 | Q4 |
| F20 | Suszarka | B16 | 1P | L2 | 3×2,5 | Q4 |
| F21 | Gniazda — pokój / biuro | B16 | 1P | L1 | 3×2,5 | Q4 |
| F22 | Rezerwa | B16 | 1P | L1 | 3×2,5 | Q4 |
| F23 | Ładowarka samochodu (wallbox) 11 kW | B16 | 3P | L1–L3 | 5×4 | Q5 |

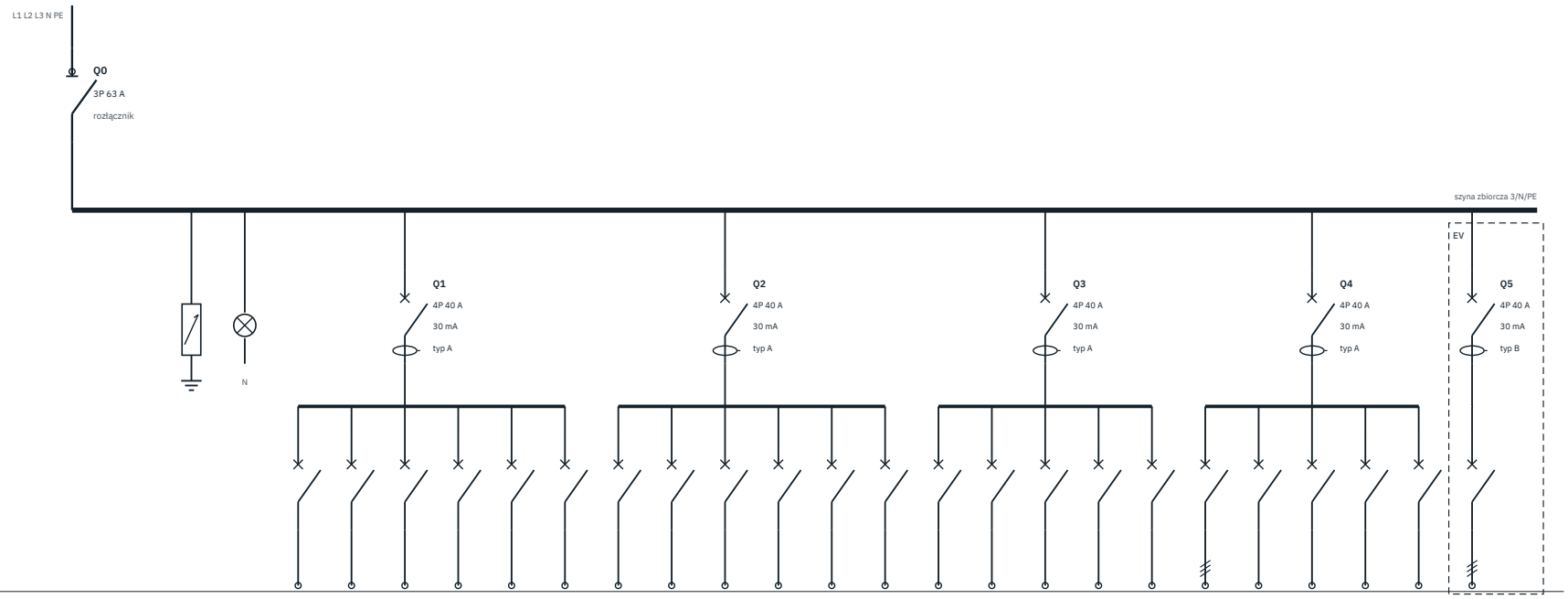
## RCD GROUPS

| | |
|---|---|
| Q1 | RCD 4P 40 A 30 mA typ A: F1, F2, F3, F4, F5, F6 |
| Q2 | RCD 4P 40 A 30 mA typ A: F7, F8, F9, F10, F11, F12 |
| Q3 | RCD 4P 40 A 30 mA typ A: F13, F14, F15, F16, F17 |
| Q4 | RCD 4P 40 A 30 mA typ A: F18, F19, F20, F21, F22 |
| Q5 | RCD 4P 40 A 30 mA typ B (ładowarka): F23 |

## Schemat jednokreskowy — Consumer unit L · EV

marka wg dostępności · natynkowa · nr wzór

Zasilanie z licznika: 3/N/PE ~ 400/230 V 50 Hz · sieć TN-C-S · zabezpieczenie przedlicznikowe gG / B ≤ 32 A (typowo 25–32 A, wg warunków przyłączenia)




| Oznaczenie | FV1 | H1 | F1 | F2 | F3 | F4 | F5 | F6 | F7 | F8 | F9 | F10 | F11 | F12 | F13 | F14 | F15 | F16 | F17 | F18 | F19 | F20 | F21 | F22 | F23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Zabezpieczenie | T1+T2 | — | B16 | B16 | B16 | B16 | B10 | B16 | B10 | B16 | B10 | B16 | B16 | B16 | B16 | B16 | B16 | B10 | B16 | B16 | B10 | B16 | B16 | B16 | B16 |
| Bieguny | 3+1 | 3 × 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 1P | 3P | 1P | 1P | 1P | 1P | 3P |
| Faza | L1–L3 | L1–L3 | L3 | L1 | L3 | L2 | L3 | L3 | L1 | L2 | L1 | L3 | L2 | L2 | L2 | L1 | L3 | L1 | L1 | L1–L3 | L2 | L2 | L1 | L1 | L1–L3 |
| Przewód [mm²] | — | — | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×2,5 | 3×1,5 | 3×2,5 | 5×2,5 | 3×1,5 | 3×2,5 | 3×2,5 | 3×2,5 | 5×4 |
| Moc szac. [kW] | — | — | 2 | 2 | 2,2 | 1 | 0,2 | 1 | 0,4 | 2 | 0,2 | 2 | 1 | — | 1,5 | 3 | 1 | 0,4 | 1,5 | 7,2 | 0,3 | 2,5 | 1 | — | 11 |
| Odbiornik | Ogranicznik przepięć → PE | Lampki obecności faz | Gniazda — kuchnia (blat) | Łazienka — gniazda | Pralka | Gniazda — sypialnie | Oświetlenie zewnętrzne | Gniazda — sypialnia główna | Oświetlenie — strefa dzienna | Zmywarka | Oświetlenie — pomieszczenia gospodarcze | Łazienka 2 — gniazda | Gniazda — piętro (pokoje) | Rezerwa 2 | Gniazda — salon | Piekarnik | Gniazda zewnętrzne / ogród (IP44) | Oświetlenie — piętro | Garaż / kotłownia | Płyta indukcyjna (3-fazowa) | Oświetlenie — sypialnie i korytarz | Suszarka | Gniazda — pokój / biuro | Rezerwa | Ładowarka samochodu (wallbox) 11 kW |

**Svalcon · Consumer unit L · EV**

Nr wzór · marka wg dostępności · obudowa — (6 × 12 mod.)

Wersja karta 2026-10-14 · 2026-10-25 · arkusz 1/1

**SZKIC — do weryfikacji przez elektryka uprawnionego**

Diagram from the documentation generator (v1.20) without catalogue numbers — device brand by availability (Hager, Schneider Electric, Eaton); full documentation with numbers comes with the board.