

Beschreibung

NV Sicherungs-Lasttrennschalter sind für Distribution der Stromenergie und Schutz der elektrischen Ausrüstung und -Kabel vor Überlastungen und Kurzschlüssen geeignet; natürlich bei Verwendung richtiger NV Schmelzeinsätze (mit Charakteristiken, die der Schutzausrüstung bzw. dem Kabel entsprechen). Große Auswahl an NV horizontalen Sicherungs-Lasttrennschalter mit Gehäusegrößen 00, 1, 2, 3 und 4a eignen sich für Montage auf die Montageplatte, DIN-Leisten und Schienensysteme. Im Standardangebot stehen 1-, 2-, 3-, und 4-polige Ausführungen zur Verfügung.

Anwendungsbereiche und Merkmale

HNV horizontale Sicherungs-Lasttrennschalter eignen sich für Anwendung in anspruchsvollsten Fällen, in denen eine Trennfunktion benötigt wird. Diese sind anspruchsvolle Anwendungsbereiche in Außenelektroverteilerschrank und bei öffentlicher Beleuchtung, zum Schutz der Kabelabzweigungen in industriellen Applikationen und für Trennstellen der Distributionsmessschränke. Das Programm HVL horizontaler Sicherungs-Lasttrennschalter bietet eine breite Auswahl an unterschiedlichen Kabelanschlüssen, die eine große Anpassungsfähigkeit bei ihrer Anwendung ermöglichen.

Für mehr Funktionalität steht auch eine breite Palette des zusätzlichen Zubehörs zur Verfügung. Sicherungs-Lasttrennschalter HVL sind gemäß folgenden Standards hergestellt:

IEC 60947-1:2007 +A1:2010

IEC 60947-3:2008

EN 60947-1:2011

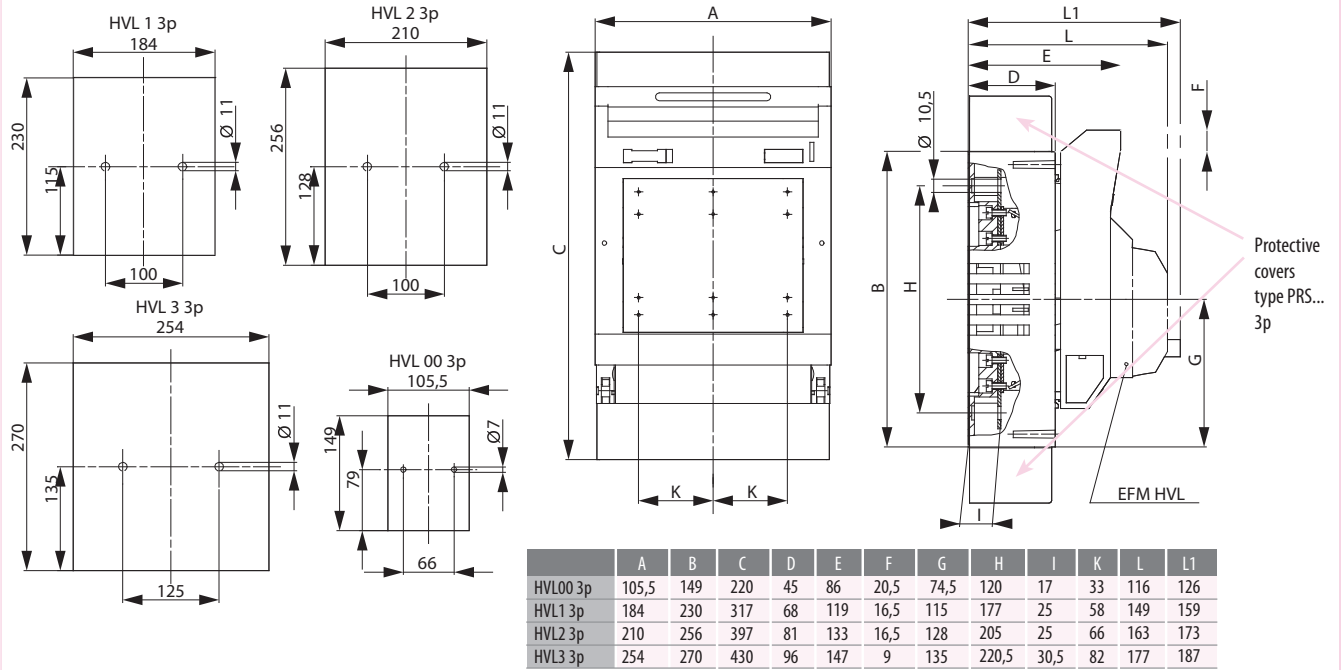
EN 60947-3:2009

VDE 0660-100:2011

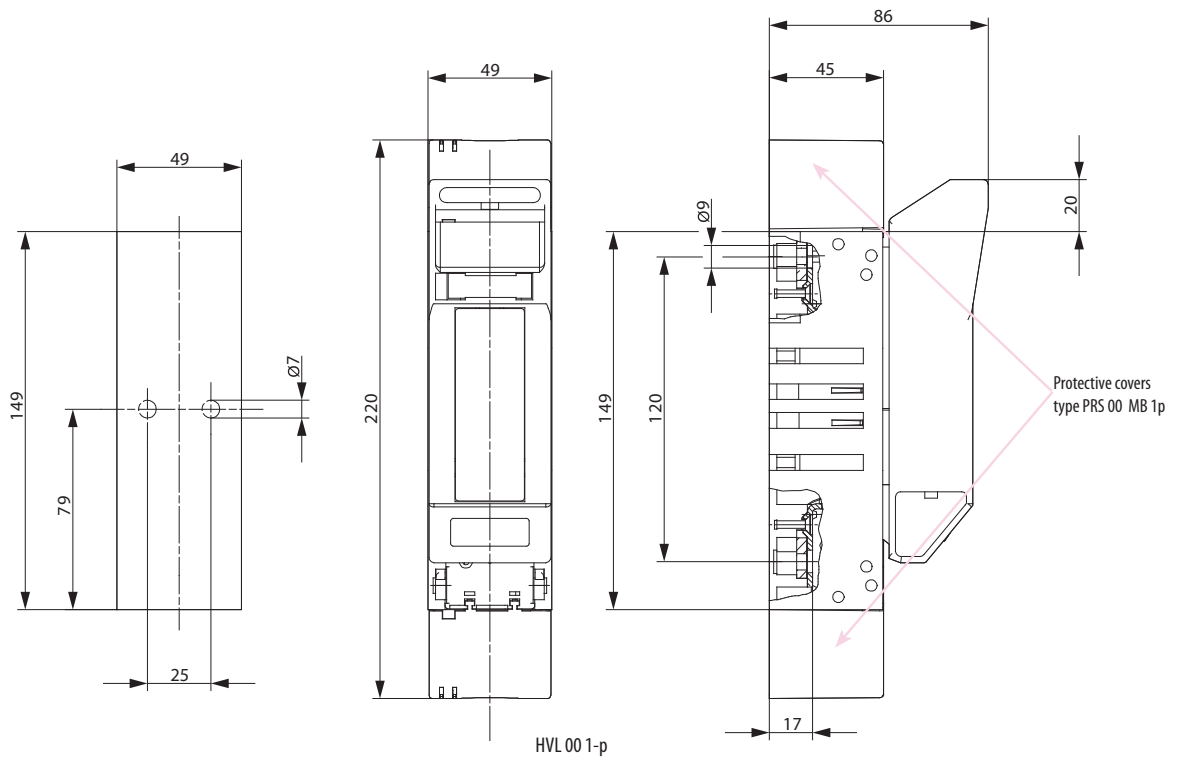
VDE 0660-107:2010

| Technical data (in accordance with IEC/EN 60947-3 and VDE 0660, part 107) | | | | | | | | | | |
|---|-------|-----------------|----------------------|--------|--------|--------|------------|--------|--------|--------|
| Technical Specifications | | | Size 2 | | | | Size 3 | | | |
| Technical Characteristics | | | | | | | | | | |
| Rated operational voltage | U_e | V | 500 AC | 690 AC | 220 DC | 440 DC | 500 AC | 690 AC | 220 DC | 440 DC |
| Rated operational current | I_e | A | 400 | 315 | 400 | 315 | 630 | 500 | 630 | 500 |
| Rated frequency | - | Hz | 40-60 | 40-60 | - | - | 40-60 | 40-60 | - | - |
| Rated insulation voltage | U_i | V | 750 AC | | | | 750 AC | | | |
| Total power loss (without fuse) | P_v | W | 27 | 16,7 | 18 | 11,2 | 52 | 32,8 | 34,6 | 21,8 |
| Utilisation category | - | - | AC22B | AC22B | DC22B | DC21B | AC22B | AC22B | DC22B | DC21B |
| Fuse links | | | | | | | | | | |
| Size - DIN 43 620 | - | - | 2 | | | | 3 | | | |
| Max. rated current (gG/gL) | I_n | A | 400 | 315 | 400 | 315 | 630 | 500 | 630 | 500 |
| Max. permissible power loss per fuse link | P_v | W | 34 | | | | 48 | | | |
| Screw | - | - | M10 | | | | M10 | | | |
| Torque | M_a | Nm | 30-35 | | | | 30-35 | | | |
| V-clip | - | mm ² | 25-240 | | | | 25-240 | | | |
| Torque | M_a | Nm | 23 | | | | 23 | | | |
| Protection | | | | | | | | | | |
| Front cover close | - | - | IP20 | | | | IP20 | | | |
| Front cover open | - | - | IP10 | | | | IP10 | | | |
| Operating condition | | | | | | | | | | |
| Ambient temperature | T_u | °C | -25 to +55 | | | | -25 to +55 | | | |
| Operating condition | - | - | Continuous operation | | | | | | | |
| Mounting | - | - | vertical, horizontal | | | | | | | |
| Altitude | - | m | ≤ 2000 | | | | | | | |
| Pollution degree | - | - | 3 | | | | | | | |
| Overvoltage category | - | - | III | | | | III | | | |

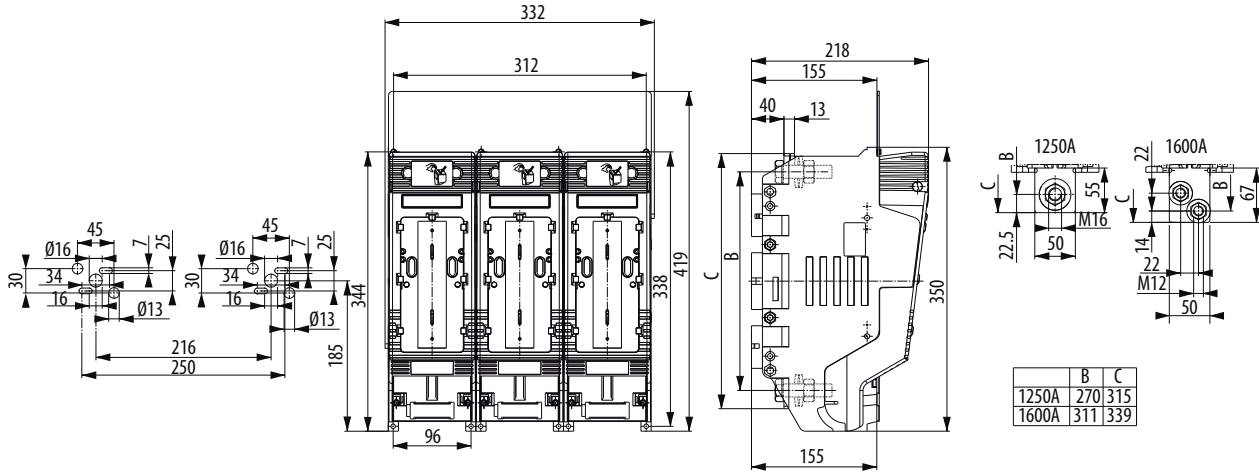
| Technical data (in accordance with IEC/EN 60947-3 and VDE 0660, part 107) | | | | | | | | | | |
|---|-------|----|-------------------------------|--|--|--|-------------------------------|--|--|--|
| Technical Specifications | | | Size 4a/1250 | | | | Size 4a/1600 | | | |
| Technical Characteristics | | | | | | | | | | |
| Rated operational voltage | U_e | V | 690 AC | | | | 690 AC | | | |
| Rated operational current | I_e | A | 1250 | | | | 1600 | | | |
| Rated frequency | - | Hz | 40-60 | | | | 40-60 | | | |
| Rated insulation voltage | U_i | V | AC800 | | | | AC800 | | | |
| Total power loss (without fuse) | P_v | W | 32 | | | | 74 | | | |
| Utilisation category | - | - | AC22B (500V), AC21B (690V) | | | | AC22B (500V), AC21B (690V) | | | |
| Fuse links | | | | | | | | | | |
| Size - DIN 43 620 | - | - | 4a | | | | 4a | | | |
| Max. permissible power loss per fuse link | P_v | W | 110 | | | | 164 | | | |
| Screw | - | - | 1xM16 | | | | 2xM12 | | | |
| Torque | M_a | Nm | 50-60 | | | | 35-40 | | | |
| Protection | | | | | | | | | | |
| Front cover close | - | - | IP20 | | | | IP20 | | | |
| Front cover open | - | - | IP10 | | | | IP10 | | | |
| Operating condition | | | | | | | | | | |
| Ambient temperature | T_u | °C | -25 to +55 | | | | -25 to +55 | | | |
| Operating condition | - | - | Continuous operation | | | | | | | |
| Mounting | - | - | vertical, horizontal | | | | | | | |
| Altitude | - | m | ≤ 2000 | | | | | | | |
| Pollution degree | - | - | 3 | | | | | | | |
| Overvoltage category | - | - | IV | | | | IV | | | |



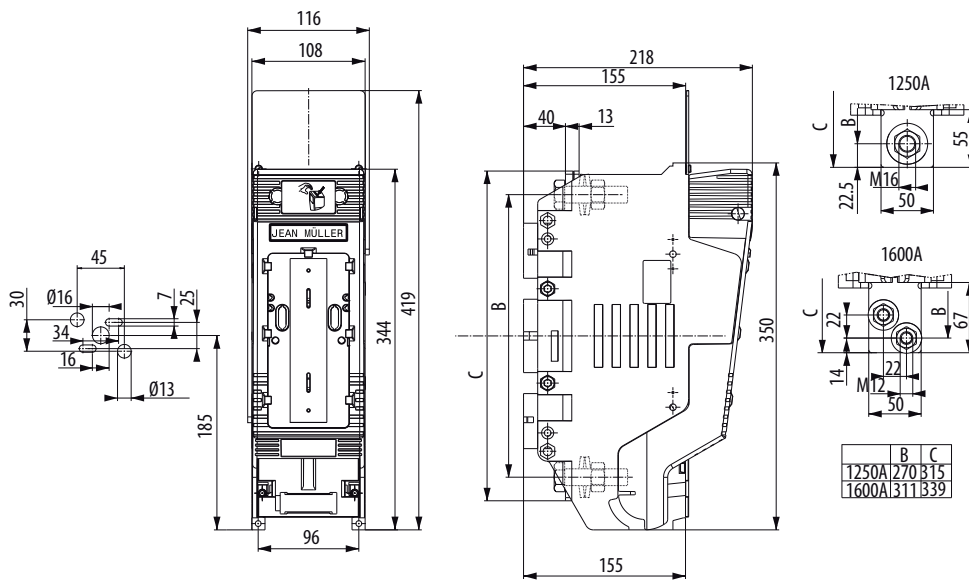
HVL 00,1,2,3 - 3p



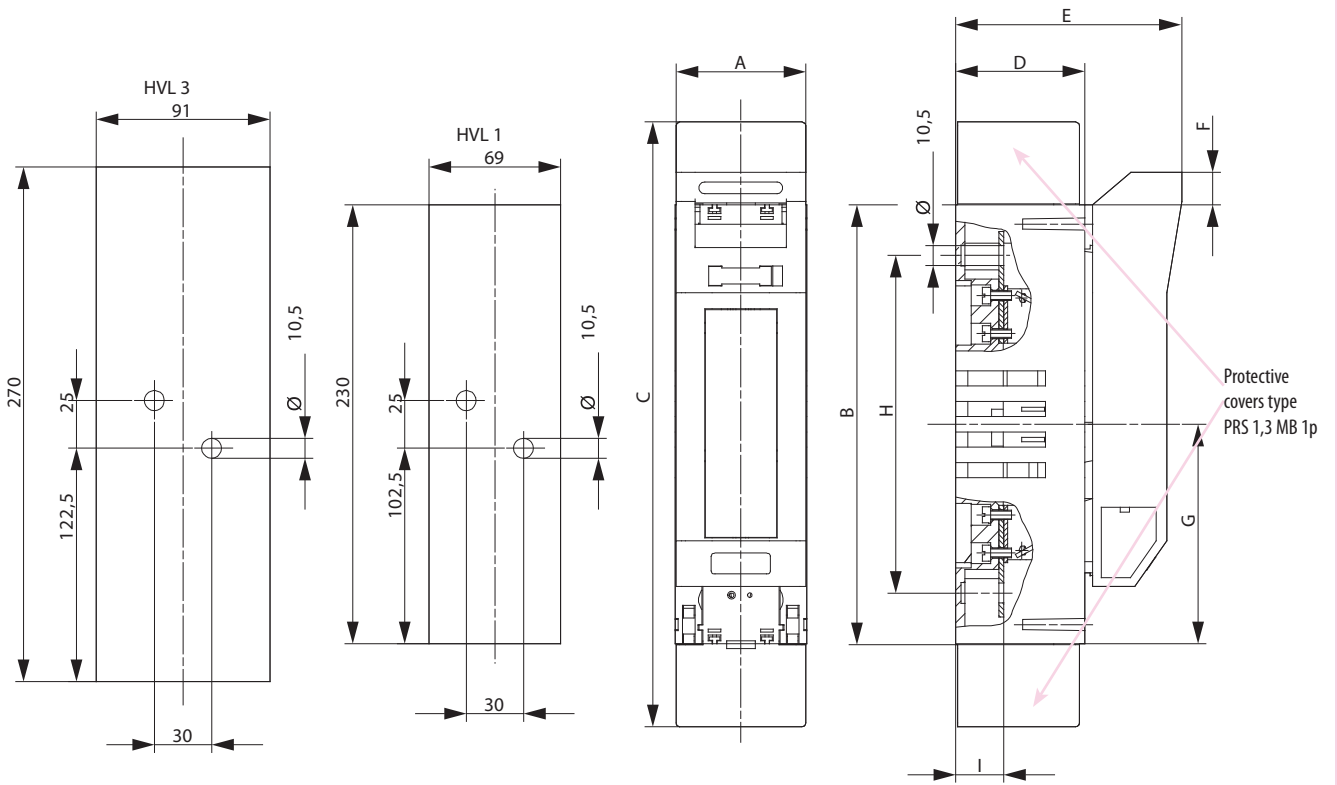
HVL 00 1-p



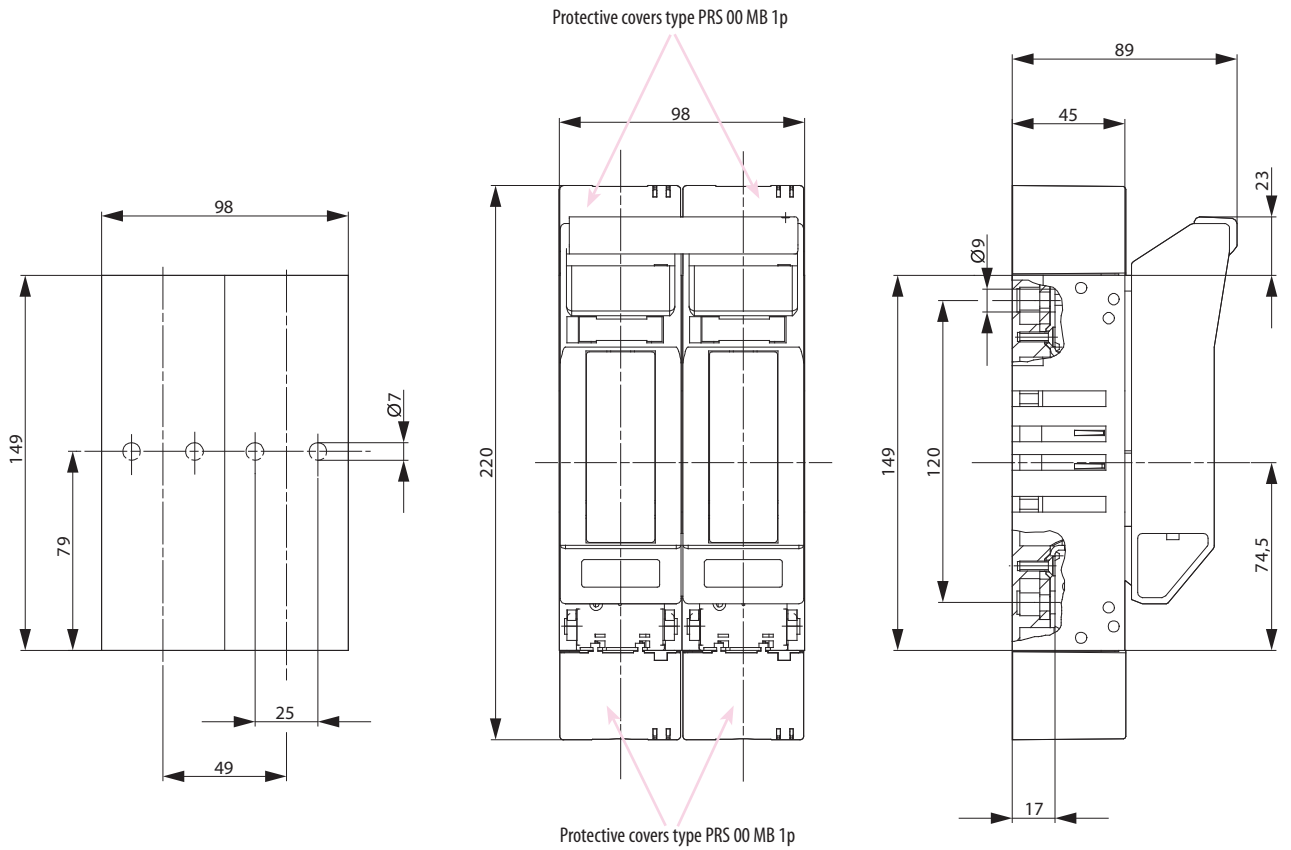
HVL 4 3p



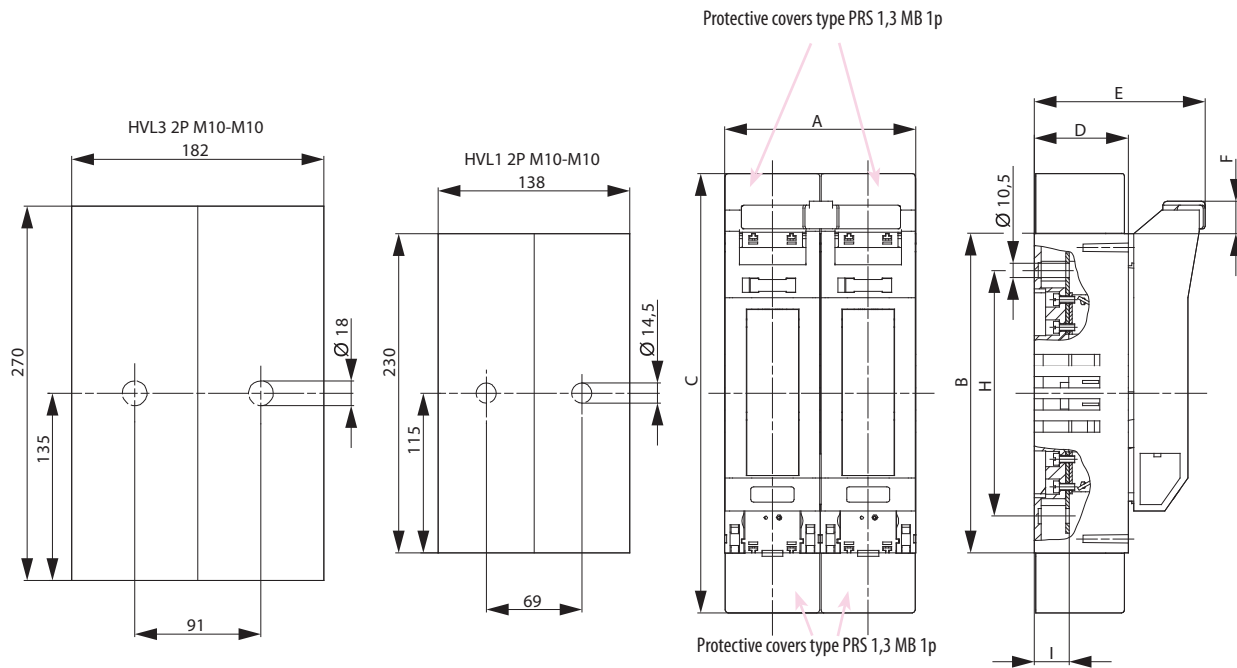
HVL 4 1-p



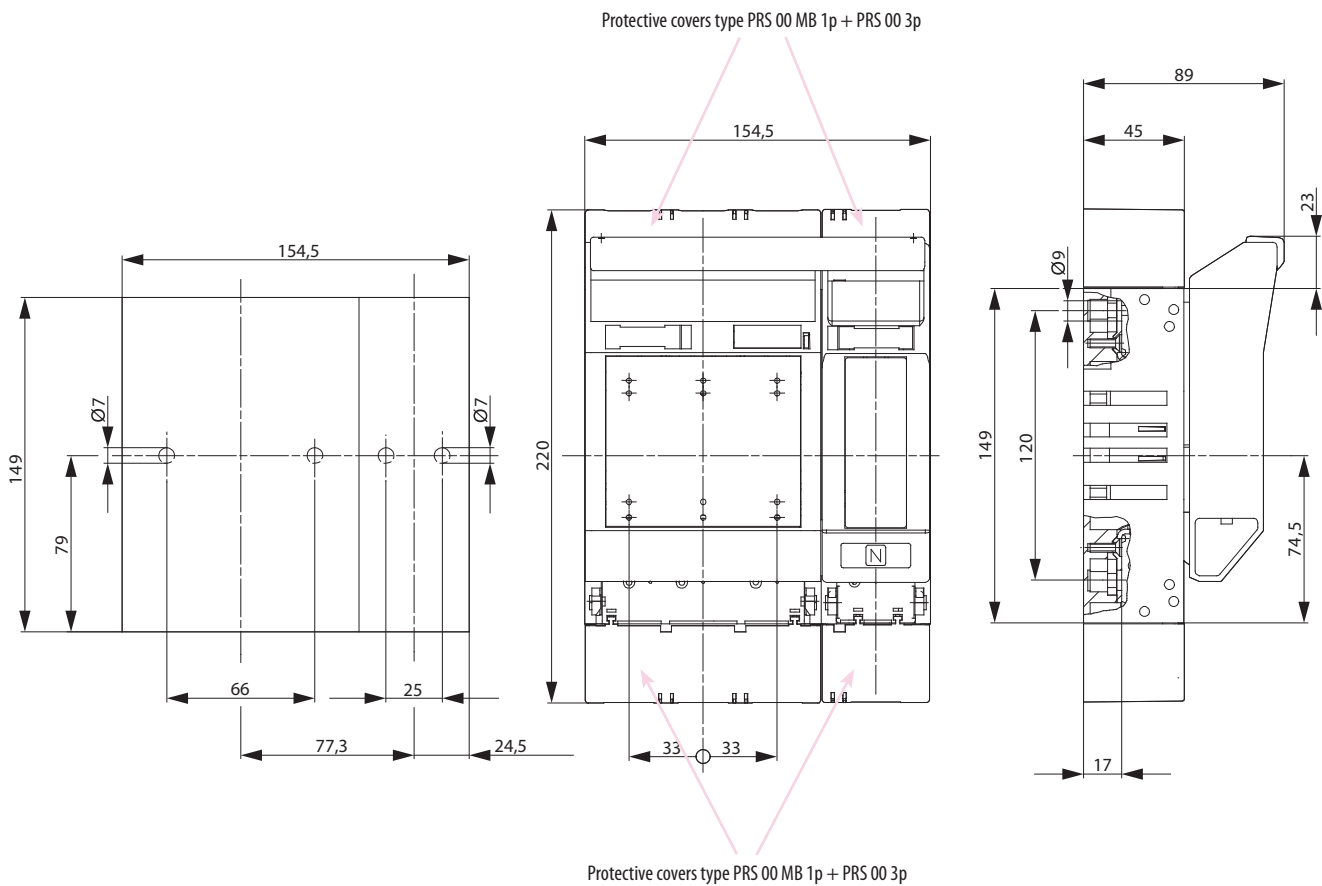
HVL 1 & HVL 3



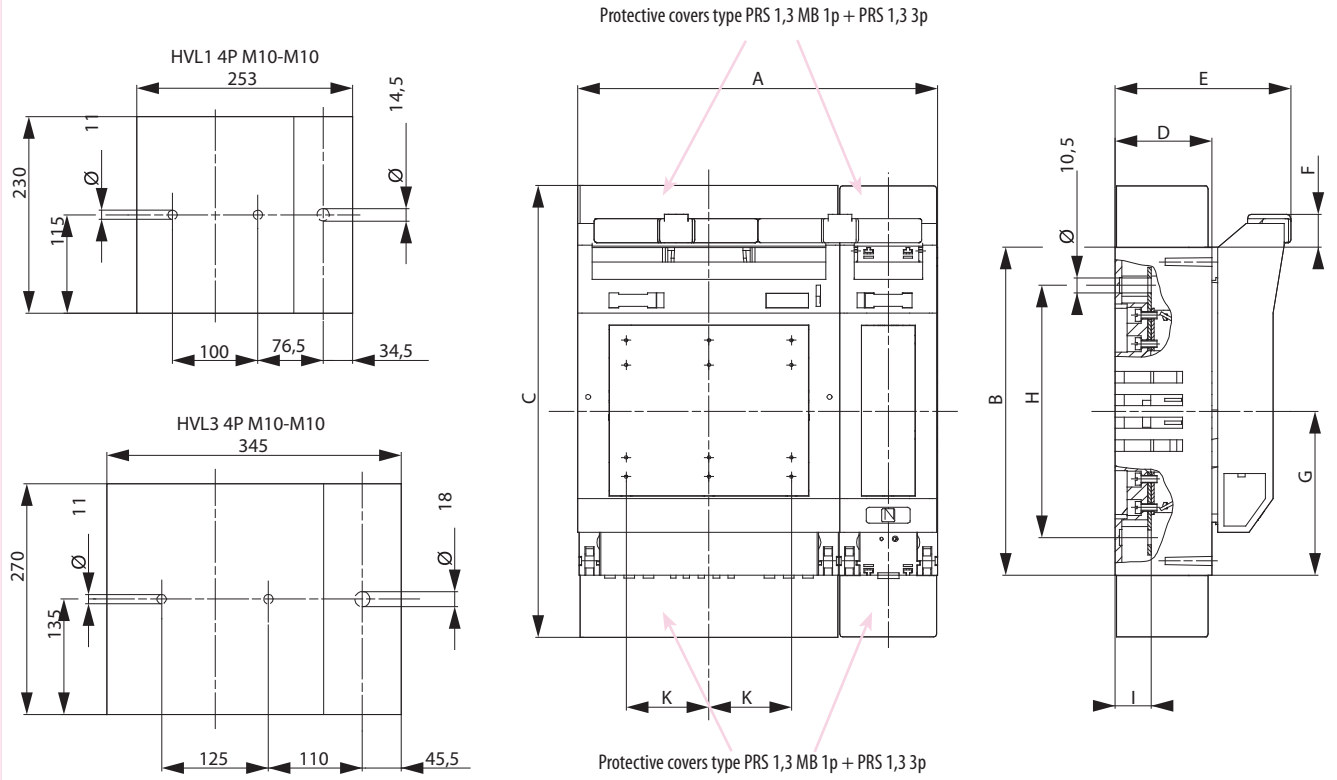
HVL00 2P M8-M8



HVL1, 3 2P M10-M10

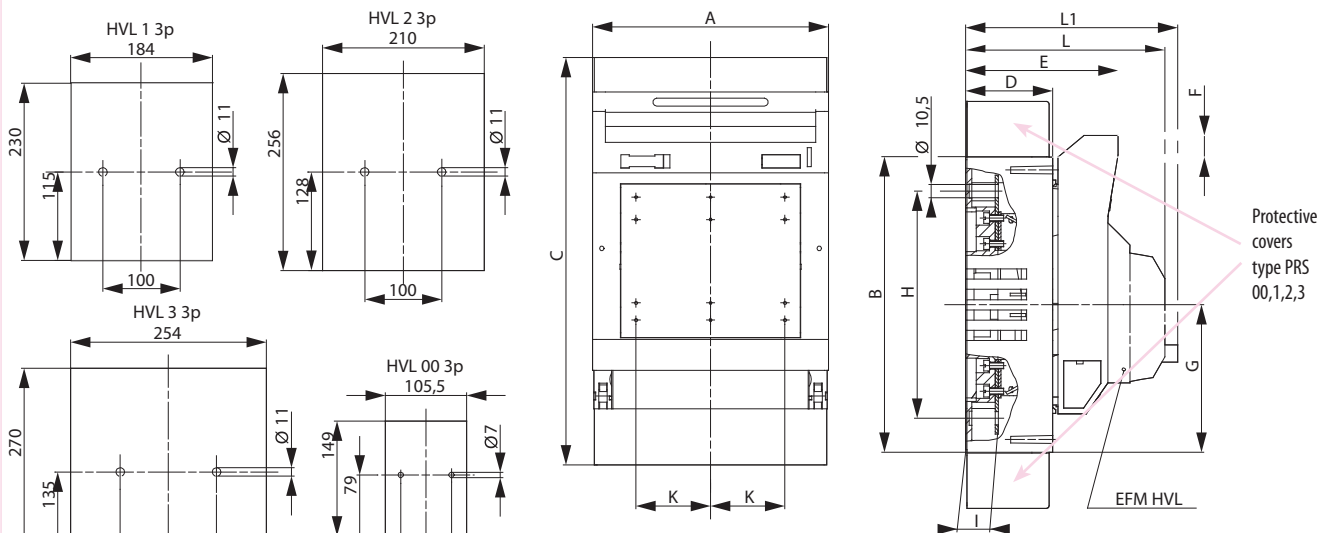


HVL00 4P M8-M8



| | A | B | C | D | E | F | G | H | I | K |
|-----------------|-----|-----|-----|----|-------|------|-----|-------|------|----|
| HVL1 4P M10-M10 | 253 | 230 | 317 | 68 | 123,5 | 23 | 115 | 177 | 25 | 58 |
| HVL3 4P M10-M10 | 345 | 270 | 430 | 96 | 151,5 | 15,5 | 135 | 220,5 | 30,5 | 82 |

HVL1,3 4P M10-M10



| | A | B | C | D | E | F | G | H | I | K | L | L1 |
|----------|-------|-----|-----|----|-----|------|------|-------|------|----|-----|-----|
| HVL00 3p | 105,5 | 149 | 220 | 45 | 86 | 20,5 | 74,5 | 120 | 17 | 33 | 116 | 126 |
| HVL1 3p | 184 | 230 | 317 | 68 | 119 | 16,5 | 115 | 177 | 25 | 58 | 149 | 159 |
| HVL2 3p | 210 | 256 | 397 | 81 | 133 | 16,5 | 128 | 205 | 25 | 66 | 163 | 173 |
| HVL3 3p | 254 | 270 | 430 | 96 | 147 | 9 | 135 | 220,5 | 30,5 | 82 | 177 | 187 |

HVL 00, 1, 3 – 3p EFM