# **Product datasheet**

Specifications





# circuit breaker EasyPact CVS100B, 25 kA at 415 VAC, 100 A rating thermal magnetic TM-D trip unit, 3P 3d

LV510307

#### Main

| Range                                  | EasyPact   |
|--|--|
| Range of product                       | EasyPact CVS100250   |
| Product name                           | EasyPact CVS   |
| Device short name                      | CVS100B  |
| Product or component type              | Circuit breaker  |
| Device application                     | Distribution   |
| poles description                      | 3P   |
| Protected poles description            | 3D   |
| Earth leakage protection (Vigi add on) | Without  |
| [In] rated current                     | 100 A at 40 °C   |
| network type                           | AC   |
| Utilisation category                   | Category A   |
| [Icu] Breaking capacity                | 40 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Trip unit name                         | TM-D   |
| Trip unit technology                   | Thermal-magnetic   |
| Trip unit rating                       | 100 A at 40 °C   |
| Protection type                        | Short-circuit protection (magnetic)<br>Overload protection (thermal)   |

### Complementary

| [Uimp] rated impulse withstand voltage | 8 kV conforming to EN/IEC 60947-2  |
|--|--|
| Network frequency                      | 50/60 Hz   |
| Breaking capacity code                 | В  |
| [Ics] rated service breaking capacity  | 15 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                  | 30000 cycles   |
| Electrical durability                  | 12000 cycles 415 V In conforming to IEC 60947-2  |
| Control type                           | Toggle   |
| Thermal protection adjustment range    | 70100 A  |
| Long time pick-up adjustment type Ir   | Adjustable   |

| Long time pick-up adjustment<br>range       | 0.71 x ln        |
|---|------------------|
| Long time delay adjustment type             | Fixed            |
| Instantaneous pick-up adjustment<br>type li | Fixed            |
| instantaneous pick-up adjustment range      | 800 A            |
| Contact position indicator                  | Yes              |
| Mounting support                            | Backplate        |
| Mounting mode                               | Fixed            |
| Upside connection                           | Front            |
| downside connection                         | Front            |
| Connections - terminals                     | Screw connection |
| Connection pitch                            | 35 mm            |
| Compatibility code                          | CVS100           |
| Width                                       | 105 mm           |
| Depth                                       | 86 mm            |
| Height                                      | 161 mm           |
| Net weight                                  | 1.5 kg           |

### Environment

| Standards                             | EN 60947-2<br>IEC 60947-2   |
|---------------------------------------|-----------------------------|
| Product certifications                | GOST<br>IEC                 |
| Electrical shock protection class     | Class II                    |
| Pollution degree                      | 3 conforming to IEC 60664-1 |
| IP degree of protection               | IP40                        |
| Ambient air temperature for operation | -2570 °C                    |
| Ambient air temperature for storage   | -5085 °C                    |

## **Packing Units**

| Unit Type of Package 1       | PCE       |
|------------------------------|-----------|
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 14.000 cm |
| Package 1 Width              | 13.400 cm |
| Package 1 Length             | 19.000 cm |
| Package 1 Weight             | 1.670 kg  |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 12        |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 40.000 cm |
| Package 2 Length             | 60.000 cm |
| Package 2 Weight             | 20.806 kg |

### Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

#### Well-being performance

Mercury Free

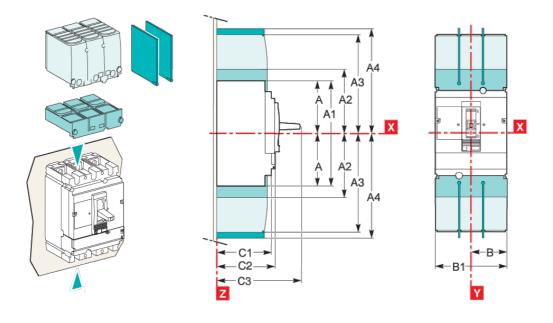
Rohs Exemption Information

### **Certifications & Standards**

| Reach Regulation         | REACh Declaration   |
|--------------------------|---|
| Eu Rohs Directive        | Compliant with Exemptions   |
| China Rohs Regulation    | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information                       |
| Environmental Disclosure | Product Environmental Profile   |
| Weee                     | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Circularity Profile      | No need of specific recycling operations  |

### **Product datasheet**

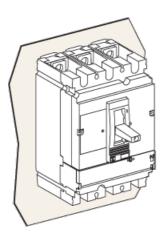
#### **Dimensions Drawings**

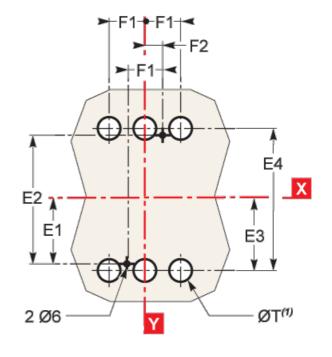


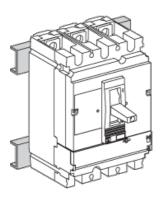
| Туре           | А      | A1    | A2    | A3    | A4    | A5    | A6  | A7    | A8   | A9    | в    | B1  | B2   | C1   | C2   | C3     | E1   |
|----------------|--------|-------|-------|-------|-------|-------|-----|-------|------|-------|------|-----|------|------|------|--------|------|
| CVS100/160/250 | 80.5   | 161   | 94    | 145   | 178.5 | 155.5 | 236 | 169   | 220  | 253.5 | 52.5 | 105 | 140  | 81   | 86   | 111(2) | 62.5 |
| CVS400/630     | 127.5  | 255   | 142.5 | 200   | 237   | 227.5 | 355 | 242.5 | 300  | 337   | 70   | 140 | 185  | 95.5 | 110  | 168    | 100  |
| Туре           | E2     | E3    | E4    | E5    | E6    | E7    | E8  | F1    | F2   | F3    | G1   | G2  | G3   | G4   | G5   | ØT     | U    |
| CVS100/160/250 | 125    | 70    | 140   | 137.5 | 200   | 145   | 215 | 35    | 17.5 | 70    | 95   | 75  | 13.5 | 23   | 17.5 | 24     | y 32 |
| CVS400/630     | 200    | 113.5 | 227   | 200   | 300   | 213.5 | 327 | 45    | 22.5 | 90    | -    | -   | -    | -    | -    | 32     | y 35 |
| (0) 00-100     | Con Do |       | 50D/E |       |       |       |     |       |      |       |      |     |      |      |      |        |      |

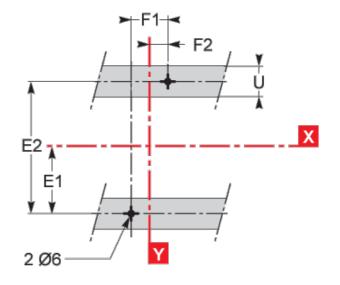
(2) C3=126mm for EasyPact CVS250B/F.

Assembly









| Α     | A1                                | A2                                    | A3  | A4   | A5  | A6   | A7   | A8  | A9  | в   | B1  | B2  | C1  | C2  | C3  | E1  |
|-------|-----------------------------------|---------------------------------------|---|--|---|--|--|---|---|---|---|---|---|---|---|---|
| 80.5  | 161                               | 94                                    | 145   | 178.5  | 155.5   | 236  | 169  | 220   | 253.5   | 52.5  | 105   | 140   | 81  | 86  | 111(2)  | 62.5  |
| 127.5 | 255                               | 142.5                                 | 200   | 237  | 227.5   | 355  | 242.5  | 300   | 337   | 70  | 140   | 185   | 95.5  | 110   | 168   | 100   |
| E2    | E3                                | E4                                    | E5  | E6   | E7  | E8   | F1   | F2  | F3  | G1  | G2  | G3  | G4  | G5  | ØТ  | U   |
| 125   | 70                                | 140                                   | 137.5   | 200  | 145   | 215  | 35   | 17.5  | 70  | 95  | 75  | 13.5  | 23  | 17.5  | 24  | y 32  |
| 200   | 113.5                             | 227                                   | 200   | 300  | 213.5   | 327  | 45   | 22.5  | 90  | -   | -   | -   | -   | -   | 32  | y 35  |
|       | 80.5<br>127.5<br><b>E2</b><br>125 | 80.5 161   127.5 255   E2 E3   125 70 | 80.5   161   94     127.5   255   142.5     E2   E3   E4     125   70   140 | 80.5   161   94   145     127.5   255   142.5   200     E2   E3   E4   E5     125   70   140   137.5 | 80.5   161   94   145   178.5     127.5   255   142.5   200   237     E2   E3   E4   E5   E6     125   70   140   137.5   200 | 80.5   161   94   145   178.5   155.5     127.5   255   142.5   200   237   227.5     E2   E3   E4   E5   E6   E7     125   70   140   137.5   200   145 | 80.5   161   94   145   178.5   155.5   236     127.5   255   142.5   200   237   227.5   355 <b>E2 E3 E4 E5 E6 E7 E8</b> 125   70   140   137.5   200   145   215 | 80.5   161   94   145   178.5   155.5   236   169     127.5   255   142.5   200   237   227.5   355   242.5     E2   E3   E4   E5   E6   E7   E8   F1     125   70   140   137.5   200   145   215   35 | 80.5   161   94   145   178.5   155.5   236   169   220     127.5   255   142.5   200   237   227.5   355   242.5   300     E2   E3   E4   E5   E6   E7   E8   F1   F2     125   70   140   137.5   200   145   215   35   17.5 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5     127.5   255   142.5   200   237   227.5   355   242.5   300   337     E2   E3   E4   E5   E6   E7   E8   F1   F2   F3     125   70   140   137.5   200   145   215   35   17.5   70 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5     127.5   255   142.5   200   237   227.5   355   242.5   300   337   70     E2   E3   E4   E5   E6   E7   E8   F1   F2   F3   G1     125   70   140   137.5   200   145   215   35   17.5   70   95 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5   105     127.5   255   142.5   200   237   227.5   355   242.5   300   337   70   140     E2   E3   E4   E5   E6   E7   E8   F1   F2   F3   G1   G2     125   70   140   137.5   200   145   215   35   17.5   70   95   75 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5   105   140     127.5   255   142.5   200   237   227.5   355   242.5   300   337   70   140   185     E2   E3   E4   E5   E6   E7   E8   F1   F2   F3   G1   G2   G3     125   70   140   137.5   200   145   215   35   17.5   70   95   75   13.5 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5   105   140   81     127.5   255   142.5   200   237   227.5   355   242.5   300   337   70   140   185   95.5     22   E3   E4   E5   E6   E7   E8   F1   F2   F3   G1   G2   G3   G4     125   70   140   137.5   200   145   215   35   17.5   70   95   75   13.5   23 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5   105   140   81   86     127.5   255   142.5   200   237   227.5   355   242.5   300   337   70   140   185   95.5   110     E2   E3   E4   E5   E6   E7   E8   F1   F2   F3   G1   G2   G3   G4   G5   13.5   23   17.5     125   70   140   137.5   200   145   215   35   17.5   70   95   75   13.5   23   17.5 | 80.5   161   94   145   178.5   155.5   236   169   220   253.5   52.5   105   140   81   86   111 <sup>(7)</sup> 127.5   255   142.5   200   237   227.5   355   242.5   300   337   70   140   185   95.5   110   168     22   23   E4   E5   E6   E7   E8   F1   F2   F3   G1   G2   G3   G4   G5   ØT     125   70   140   137.5   200   145   215   35   17.5   70   95   75   13.5   23   17.5   24 |

(2) C3=126mm for EasyPact CVS250B/F.

Performance Curves

