

# Product datasheet

Specifications



## EasyPact CVS160F circuit breaker, 36 Ka@415 VAC, 3P 3d, Vigi MH, TM100D TU

LV516391

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

### Main

|                                        |                                                                                                                                                                                          |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                  | EasyPact                                                                                                                                                                                 |
| Range of product                       | EasyPact CVS100...250                                                                                                                                                                    |
| Product name                           | EasyPact CVS                                                                                                                                                                             |
| Device short name                      | Vigi CVS160F                                                                                                                                                                             |
| Product or component type              | Earth leakage circuit breaker                                                                                                                                                            |
| Device application                     | Distribution                                                                                                                                                                             |
| Poles description                      | 3P                                                                                                                                                                                       |
| Protected poles description            | 3D                                                                                                                                                                                       |
| Earth leakage protection (Vigi add on) | With                                                                                                                                                                                     |
| [In] rated current                     | 100 A at 40 °C                                                                                                                                                                           |
| Network type                           | AC                                                                                                                                                                                       |
| Utilisation category                   | Category A                                                                                                                                                                               |
| [Icu] Breaking capacity                | 36 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 220/240 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                        | Overload protection (thermal)<br>Short-circuit protection (magnetic)<br>Earth-leakage protection                                                                                         |

### Complementary

|                                        |                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Uimp] rated impulse withstand voltage | 8 kV conforming to EN/IEC 60947-2                                                                                                                                            |
| Network frequency                      | 50/60 Hz                                                                                                                                                                     |
| Breaking capacity code                 | F                                                                                                                                                                            |
| [Ics] rated service breaking capacity  | 18 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                  | 25000 cycles                                                                                                                                                                 |
| Electrical durability                  | 12000 cycles 415 V In conforming to IEC 60947-2                                                                                                                              |
| Control type                           | Toggle                                                                                                                                                                       |
| Thermal protection adjustment range    | 70...100 A                                                                                                                                                                   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                            |                                                              |
|------------------------------------------------------------|--------------------------------------------------------------|
| Long time pick-up adjustment type I <sub>r</sub>           | Adjustable                                                   |
| Long time pick-up adjustment range                         | 0.7...1 x I <sub>n</sub>                                     |
| Long time delay adjustment type                            | Fixed                                                        |
| Instantaneous pick-up adjustment type I <sub>i</sub>       | Fixed                                                        |
| Instantaneous pick-up adjustment range                     | 800 A                                                        |
| Earth-leakage add-on module name                           | MH                                                           |
| Earth-leakage protection class                             | Class A                                                      |
| Residual earth-leakage sensitivity adjustment type         | Adjustable 5 settings                                        |
| [I $\Delta$ n] residual earth-leakage sensitive adjustment | 0.3 A<br>1 A<br>3 A<br>10 A<br>30 A                          |
| Residual earth-leakage time delay adjustment type          | Adjustable 5 settings                                        |
| [ $\Delta$ t] residual earth-leakage time delay adjustment | 0 ms 40 ms<br>60 ms 140 ms<br>150 ms 300 ms<br>310 ms 800 ms |
| 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                                         | CVS160                                                       |
| Width                                                      | 105 mm                                                       |
| Depth                                                      | 86 mm                                                        |
| Height                                                     | 236 mm                                                       |
| Net weight                                                 | 1.8 kg                                                       |

## Environment

|                                       |                             |
|---------------------------------------|-----------------------------|
| Standards                             | IEC 60947-2<br>EN 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 | -25...70 °C                 |
| Ambient air temperature for storage   | -50...85 °C                 |

## Packing Units

|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

|                              |         |
|------------------------------|---------|
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 9 cm    |
| Package 1 Width              | 10.2 cm |
| Package 1 Length             | 15.8 cm |
| Package 1 Weight             | 2.3 kg  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

EU RoHS Directive

[Compliant](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



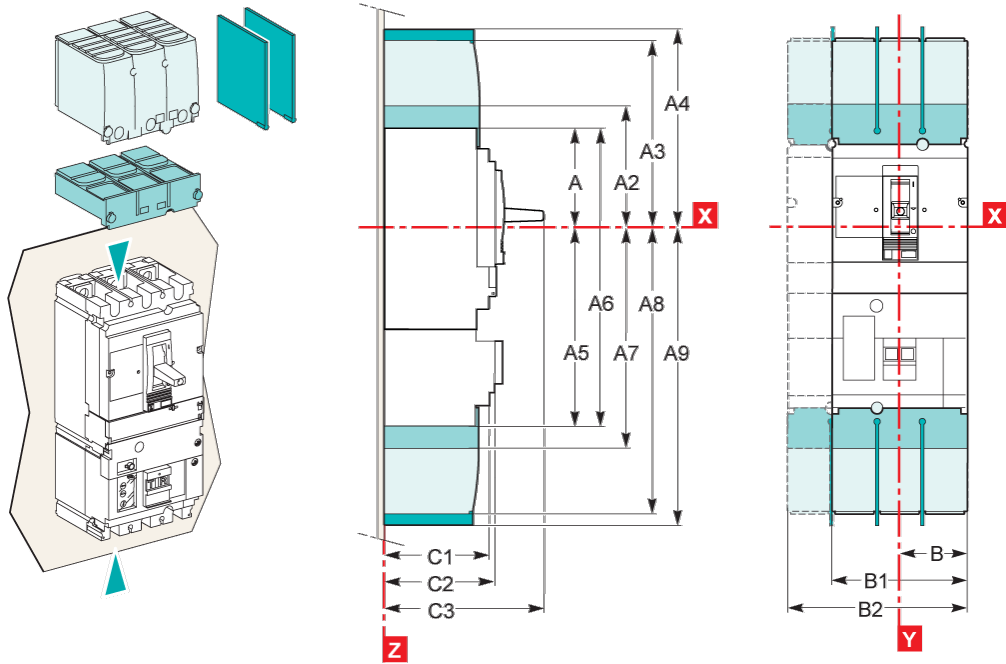
#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

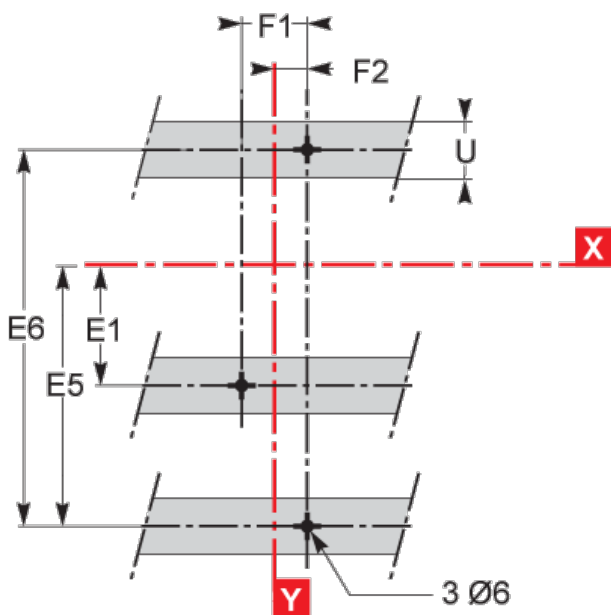
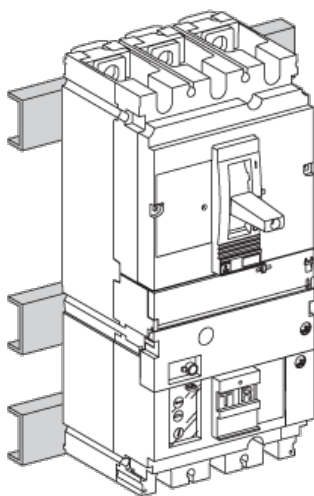
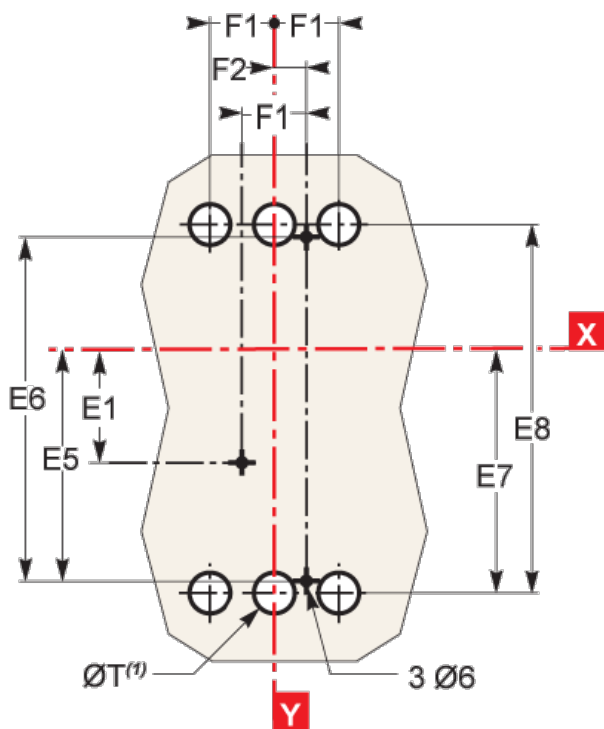
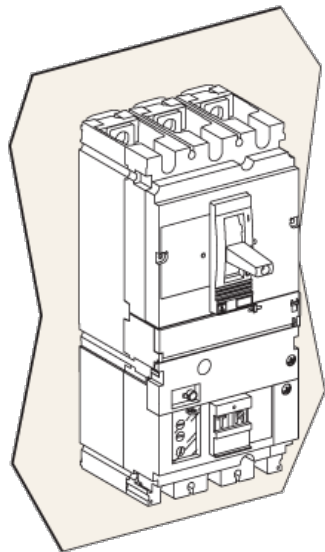
Dimensions Drawings



| Type           | A     | A1    | A2    | A3    | A4    | A5    | A6  | A7    | A8   | A9    | B    | 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 <sup>(2)</sup> | 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  |
| Type           | 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 |

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

Assembly



| Type           | A     | A1    | A2    | A3    | A4    | A5    | A6  | A7    | A8   | A9    | B    | B1  | B2   | C1   | C2   | C3                 | E1   |
|----------------|-------|-------|-------|-------|-------|-------|-----|-------|------|-------|------|-----|------|------|------|--------------------|------|
| CVS100/160/250 | 80.5  | 181   | 94    | 145   | 178.5 | 155.5 | 236 | 169   | 220  | 253.5 | 52.5 | 105 | 140  | 81   | 86   | 111 <sup>(2)</sup> | 62.5 |
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| Type           | 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 |

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

Performance Curves

