



GV2 P



GV3 P

## Motor circuit-breakers from 0.06 to 30 kW / 400 V

Standard power ratings of 3-phase motors

50/60 Hz in category AC-3

| 400/415 V                     |     |         | 500 V |     |         | 690 V |     |         | of thermal trips | current Id ± 20 % |         | kg    |
|-------------------------------|-----|---------|-------|-----|---------|-------|-----|---------|------------------|-------------------|---------|-------|
| P                             | Icu | Ics (1) | P     | Icu | Ics (1) | P     | Icu | Ics (1) |                  |                   |         |       |
| kW                            | kA  | %       | kW    | kA  | %       | kW    | kA  | %       |                  |                   |         |       |
| GV2 P: control by rotary knob |     |         |       |     |         |       |     |         |                  |                   |         |       |
| Screw clamp terminals         |     |         |       |     |         |       |     |         |                  |                   |         |       |
| —                             | —   | —       | —     | —   | —       | —     | —   | —       | 0.1...0.16       | 1.5               | GV2 P01 | 0.350 |
| 0.06                          | ★   | ★       | —     | —   | —       | —     | —   | —       | 0.16...0.25      | 2.4               | GV2 P02 | 0.350 |
| 0.09                          | ★   | ★       | —     | —   | —       | —     | —   | —       | 0.25...0.40      | 5                 | GV2 P03 | 0.350 |
| 0.12                          | ★   | ★       | —     | —   | —       | 0.37  | ★   | ★       | 0.40...0.63      | 8                 | GV2 P04 | 0.350 |
| 0.18                          | ★   | ★       | —     | —   | —       | —     | —   | —       |                  |                   |         |       |
| 0.25                          | ★   | ★       | —     | —   | —       | 0.55  | ★   | ★       | 0.63...1         | 13                | GV2 P05 | 0.350 |
| 0.37                          | ★   | ★       | 0.37  | ★   | ★       | —     | —   | —       | 1...1.6          | 22.5              | GV2 P06 | 0.350 |
| 0.55                          | ★   | ★       | 0.55  | ★   | ★       | 0.75  | ★   | ★       |                  |                   |         |       |
| 0.75                          | ★   | ★       | 1.1   | ★   | ★       | 1.5   | 8   | 100     | 1.6...2.5        | 33.5              | GV2 P07 | 0.350 |
| 1.1                           | ★   | ★       | 1.5   | ★   | ★       | 2.2   | 8   | 100     | 2.5...4          | 51                | GV2 P08 | 0.350 |
| 2.2                           | ★   | ★       | 3     | ★   | ★       | 4     | 6   | 100     | 4...6.3          | 78                | GV2 P10 | 0.350 |
| 3                             | ★   | ★       | 5     | 50  | 100     | 5.5   | 6   | 100     | 6...10           | 138               | GV2 P14 | 0.350 |
| 5.5                           | ★   | ★       | 7.5   | 42  | 75      | 9     | 6   | 100     | 9...14           | 170               | GV2 P16 | 0.350 |
| —                             | —   | —       | —     | —   | —       | 11    | 6   | 100     |                  |                   |         |       |
| 7.5                           | 50  | 50      | 9     | 10  | 75      | 15    | 4   | 100     | 13...18          | 223               | GV2 P20 | 0.350 |
| 9                             | 50  | 50      | 11    | 10  | 75      | 18.5  | 4   | 100     | 17...23          | 327               | GV2 P21 | 0.350 |
| 11                            | 50  | 50      | 15    | 10  | 75      | —     | —   | —       | 20...25          | 327               | GV2 P22 | 0.350 |
| 15                            | 35  | 50      | 18.5  | 10  | 75      | 22    | 4   | 100     | 24...32          | 416               | GV2 P32 | 0.350 |

## GV3 P: control by rotary knob

Connection by EverLink® BTR screw connectors (3)

|             |     |    |             |    |    |             |   |    |         |     |                |       |
|-------------|-----|----|-------------|----|----|-------------|---|----|---------|-----|----------------|-------|
| <b>5.5</b>  | 100 | 50 | <b>7.5</b>  | 12 | 50 | <b>11</b>   | 6 | 50 | 9...13  | 182 | <b>GV3 P13</b> | 1.000 |
| <b>7.5</b>  | 100 | 50 | <b>9</b>    | 12 | 50 | <b>15</b>   | 6 | 50 | 12...18 | 252 | <b>GV3 P18</b> | 1.000 |
| <b>11</b>   | 100 | 50 | <b>15</b>   | 12 | 50 | <b>18.5</b> | 6 | 50 | 17...25 | 350 | <b>GV3 P25</b> | 1.000 |
| <b>15</b>   | 100 | 50 | <b>18.5</b> | 12 | 50 | <b>22</b>   | 6 | 50 | 23...32 | 448 | <b>GV3 P32</b> | 1.000 |
| <b>18.5</b> | 50  | 50 | <b>22</b>   | 10 | 50 | <b>37</b>   | 5 | 60 | 30...40 | 560 | <b>GV3 P40</b> | 1.000 |
| <b>22</b>   | 50  | 50 | <b>30</b>   | 10 | 50 | <b>45</b>   | 5 | 60 | 37...50 | 700 | <b>GV3 P50</b> | 1.000 |
| <b>30</b>   | 50  | 50 | <b>45</b>   | 10 | 50 | <b>55</b>   | 5 | 60 | 48...65 | 910 | <b>GV3 P65</b> | 1.000 |

## Connection by lugs

To order thermal magnetic circuit-breakers with connection by lugs, add the digit **6** to the end of reference selected above. Example: **GV3 P18** becomes **GV3 P186**.

## GV3 ME80: pushbutton control, screw clamp terminals

|           |    |    |           |   |     |           |   |     |         |  |                     |       |
|-----------|----|----|-----------|---|-----|-----------|---|-----|---------|--|---------------------|-------|
| <b>37</b> | 15 | 50 | <b>45</b> | 4 | 100 | <b>55</b> | 2 | 100 | 56...80 |  | <b>GV3 ME80 (4)</b> | 0.700 |
|-----------|----|----|-----------|---|-----|-----------|---|-----|---------|--|---------------------|-------|

## Motor circuit-breakers up to 50 hp / 600 V, UL 508 type E

## GV2 (5)

To obtain a GV2 P motor circuit-breaker, UL 508 type E, combine :

- a circuit-breaker **GV2 P●●H7** (except 32 A),
- and a "Large Spacing" adapter **GV2 GH7**.

## GV3 (6)

To obtain a motor-circuit-breaker GV3 P, UL 508 type E, use the following with the circuit-breaker:

- a "Large Spacing" cover **GV3 G66**,
- a short-circuit signalling contact **GV AM11**.

## GV3 with connection by lugs (6)

To obtain a motor-circuit-breaker GV3 P, UL 508 type E, with connection by lugs, add the digit **6** to the end of reference selected above and use the following with the circuit-breaker :

- two IP 20 covers **LAD 96570**,
- a short-circuit signalling contact **GV AM11**.

(1) As % of Icu.

(2) The thermal trip setting must be within the range marked on the graduated knob.

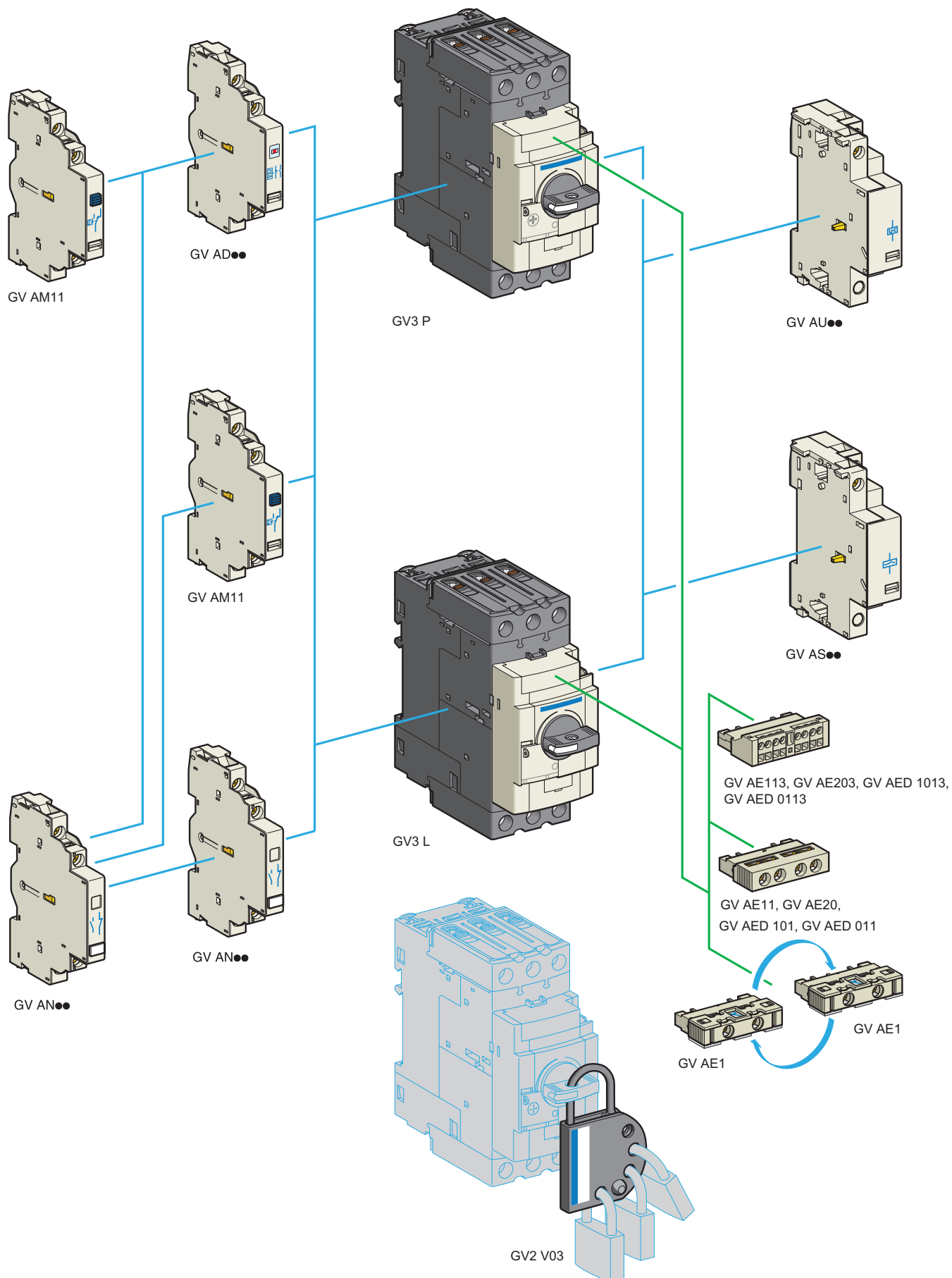
(3) BTR screws: hexagon socket head. Require use of an insulated Allen key, in compliance with local wiring regulations.

(4) Recommended for use in association with a contactor.

(5) Accessory: see page 63.

(6) Accessories: see page 57.

★ &gt; 100 kA.

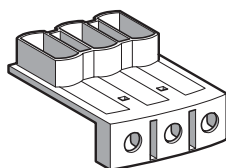


## Contact blocks

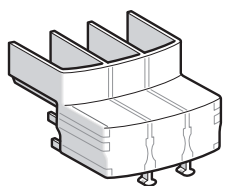
| Description                                                | Mounting      | Maximum number | Type of contacts  | Sold in lots of | Unit reference | Weight kg |
|------------------------------------------------------------|---------------|----------------|-------------------|-----------------|----------------|-----------|
| Instantaneous auxiliary contacts                           | Front         | 1              | N/O or N/C (1)    | 10              | GV AE1         | 0.015     |
|                                                            |               |                | N/O + N/C         | 10              | GV AE11 (2)    | 0.020     |
|                                                            |               |                | N/O + N/O         | 10              | GV AE20 (2)    | 0.020     |
|                                                            | Side (LH)     | 2              | N/O + N/C         | 1               | GV AN11 (2)    | 0.050     |
|                                                            |               |                | N/O + N/O         | 1               | GV AN20 (2)    | 0.050     |
| Fault signalling contact + instantaneous auxiliary contact | Front         | 1              | N/O (fault) + N/O | 1               | GV AED101 (2)  | 0.020     |
|                                                            |               |                | N/O (fault) + N/C | 1               | GV AED011 (2)  | 0.020     |
|                                                            | Side (3) (LH) | 1              | N/O (fault) + N/O | 1               | GV AD1010      | 0.055     |
|                                                            |               |                | + N/C             | 1               | GV AD1001      | 0.055     |
|                                                            |               |                | N/C (fault) + N/O | 1               | GV AD0110      | 0.055     |
|                                                            |               |                | + N/C             | 1               | GV AD0101      | 0.055     |
| Short-circuit signalling contact                           | Side (LH)     | 1              | C/O common point  | 1               | GV AM11        | 0.045     |

## Electric trips

| Mounting                                        | Voltage     |       | Reference | Weight kg |
|-------------------------------------------------|-------------|-------|-----------|-----------|
| Undervoltage or shunt trips (4)                 |             |       |           |           |
| Side<br>(1 block on RH side of circuit-breaker) | 24 V        | 50 Hz | GV A●025  | 0.105     |
|                                                 |             | 60 Hz | GV A●026  | 0.105     |
|                                                 | 48 V        | 50 Hz | GV A●055  | 0.105     |
|                                                 |             | 60 Hz | GV A●056  | 0.105     |
|                                                 | 100         | 50 Hz | GV A●107  | 0.105     |
|                                                 | 100...110 V | 60 Hz | GV A●107  | 0.105     |
|                                                 | 110...115 V | 50 Hz | GV A●115  | 0.105     |
|                                                 |             | 60 Hz | GV A●116  | 0.105     |
|                                                 | 120...127 V | 50 Hz | GV A●125  | 0.105     |
|                                                 | 127 V       | 60 Hz | GV A●115  | 0.105     |
|                                                 | 200 V       | 50 Hz | GV A●207  | 0.105     |
|                                                 | 200...220 V | 60 Hz | GV A●207  | 0.105     |
|                                                 |             | 50 Hz | GV A●225  | 0.105     |
|                                                 | 220...240 V | 60 Hz | GV A●226  | 0.105     |
|                                                 |             | 50 Hz | GV A●385  | 0.105     |
|                                                 | 380...400 V | 60 Hz | GV A●386  | 0.105     |
|                                                 | 415...440 V | 50 Hz | GV A●415  | 0.105     |
|                                                 | 415 V       | 60 Hz | GV A●416  | 0.105     |
|                                                 | 440 V       | 60 Hz | GV A●385  | 0.105     |
|                                                 | 480 V       | 60 Hz | GV A●415  | 0.105     |
|                                                 | 500 V       | 50 Hz | GV A●505  | 0.105     |
|                                                 | 600 V       | 60 Hz | GV A●505  | 0.105     |



GV3 G66



LAD 96570

## Accessories

| Description                                                                               | For circuit-breakers                         | Reference | Weight kg |
|-------------------------------------------------------------------------------------------|----------------------------------------------|-----------|-----------|
| Set of 3-pole 115 A busbars<br>3 tap-offs. Pitch: 64 mm                                   | GV3 P●● and GV3 L●●                          | GV3 G364  | 0.25      |
| Cover<br>"Large Spacing"<br>UL 508 type E<br>(Only one cover required on supply side)     | GV3 P●●                                      | GV3 G66   | 0.020     |
| IP 20 cover<br>(Two covers required per breaker)                                          | GV3 P●●6 and GV3 L●●6                        | LAD 96570 | 0.021     |
| Padlocking device<br>for use with up to 4 padlocks<br>(not supplied)<br>Ø 6 mm shank max. | GV3 P●● and GV3 L●●<br>GV3 P●●6 and GV3 L●●6 | GV2 V03   | 0.092     |

(1) Choice of N/C or N/O contact operation, depending on which way round the reversible block is mounted.

(2) Contact blocks available in version with spring terminal connections. Add a figure 3 at the end of the references selected above.

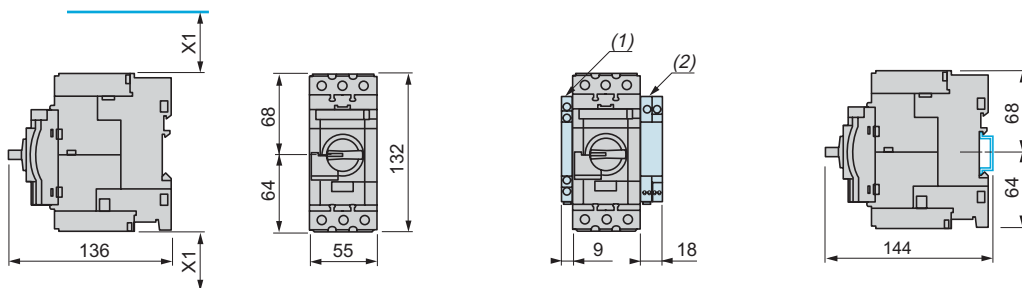
Example: GV AED101 becomes GV AED1013.

(3) The GV AD is always mounted next to the circuit-breaker.

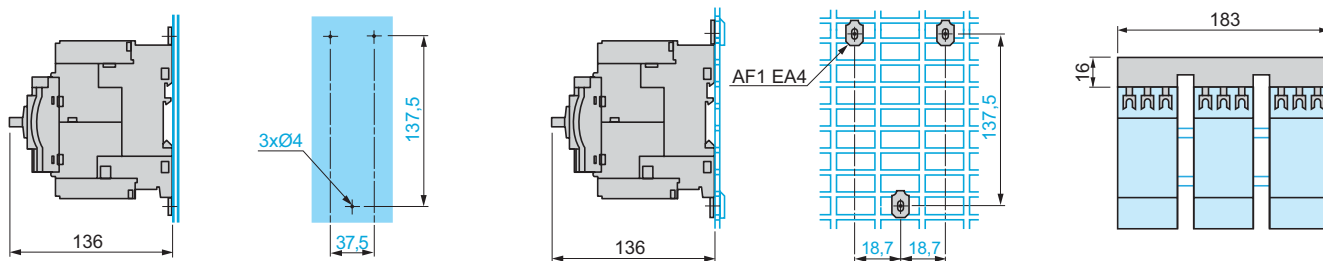
(4) To order an undervoltage trip: replace the dot (●) in the reference with a U, example: GV AU025.

To order a shunt trip: replace the dot (●) in the reference with an S, example: GV AS025.

### Mounting on rail AM1 DE200 or AM1 ED201

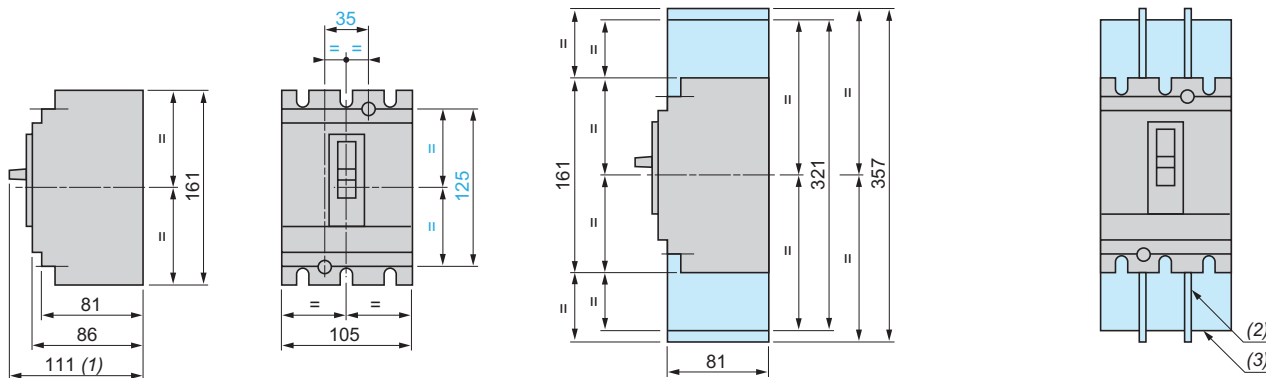


### Mounting on pre-slotted mounting plate AM1 PA



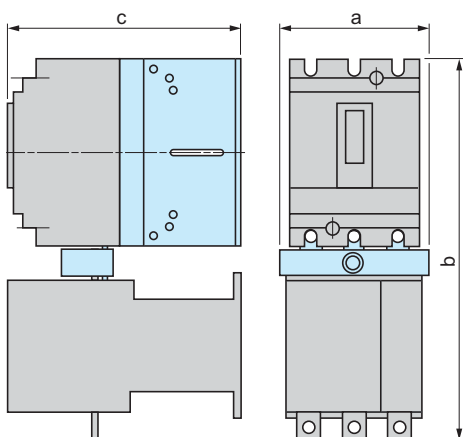
**Note:** Leave a space of 9 mm between 2 circuit-breakers: either an empty space or side-mounting add-on contact blocks. Horizontal mounting is possible up to 40 °C.

**Motor circuit-breakers with terminal shields or phase barriers**  
GV7 R + GV7 AC01 or AC04



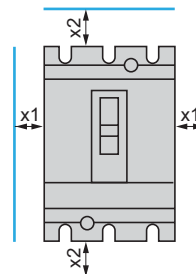
(3) *Terminal shields: GV7 AC01*

### Minimum electrical clearance



|                                     | a   | b   | c   |
|-------------------------------------|-----|-----|-----|
| GV7 R + LC1 F115 or F150 + GV7 AC06 | 119 | 334 | 181 |
| GV7 R + LC1 F185 + GV7 AC06         | 119 | 338 | 188 |
| GV7 R + LC1 F225 + GV7 AC07         | 131 | 358 | 188 |
| GV7 R + LC1 F265 + GV7 AC07         | 131 | 364 | 215 |

*Minimum distance between 2 circuit-breakers mounted side-by-side = 0*



|                                                                      |                                     | x1 | x2 |
|----------------------------------------------------------------------|-------------------------------------|----|----|
| <b>Painted or insulated metal plate, insulation or insulated bar</b> |                                     | 0  | 30 |
| <b>Bare metal plate</b>                                              | $U \leq 440 \text{ V}$              | 5  | 35 |
|                                                                      | $440 \text{ V} < U < 600 \text{ V}$ | 10 | 35 |
|                                                                      | $U \geq 600 \text{ V}$              | 20 | 35 |