

# 产品参数表

规格



## TeSys Deca GV2 电动机电磁断路器, 磁脱扣范围: 1.6 A, 螺钉夹紧端子

GV2L06

### 主要信息

|       |                       |
|-------|-----------------------|
| 产品系列  | TeSys Deca            |
| 产品名称  | TeSys GV2             |
| 产品类型  | Motor circuit breaker |
| 产品短名  | GV2L                  |
| 产品应用  | 电动机保护                 |
| 脱扣器类型 | 磁性                    |

### 补充信息

|                 |                                                                                                                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 极数              | 3P                                                                                                                                                                                                                                                                          |
| 电网类型            | AC                                                                                                                                                                                                                                                                          |
| 使用类别            | AC类 符合 IEC 60947-2<br>AC-3 符合 IEC 60947-4-1<br>AC-3e 符合 IEC 60947-4-1                                                                                                                                                                                                       |
| 网络频率            | 50/60 Hz 符合 IEC 60947-2                                                                                                                                                                                                                                                     |
| 电动机功率 (kW)      | 0.55 kW 在...上 400/415 V AC 50/60 Hz<br>0.55 kW 在...上 500 V AC 50/60 Hz<br>0.75 kW 在...上 500 V AC 50/60 Hz<br>1.1 kW 在...上 690 V AC 50/60 Hz                                                                                                                                 |
| 分断能力            | 100 kA Icu 在...上 230/240 V AC 50/60 Hz 符合 IEC 60947-2<br>100 kA Icu 在...上 400/415 V AC 50/60 Hz 符合 IEC 60947-2<br>100 kA Icu 在...上 440 V AC 50/60 Hz 符合 IEC 60947-2<br>100 kA Icu 在...上 500 V AC 50/60 Hz 符合 IEC 60947-2<br>4 kA Icu 在...上 690 V AC 50/60 Hz 符合 IEC 60947-2 |
| 额定使用短路分断能力[Ics] | 100 % 在...上 230/240 V AC 50/60 Hz 符合 IEC 60947-2<br>100 % 在...上 400/415 V AC 50/60 Hz 符合 IEC 60947-2<br>100 % 在...上 440 V AC 50/60 Hz 符合 IEC 60947-2<br>100 % 在...上 500 V AC 50/60 Hz 符合 IEC 60947-2<br>100 % 在...上 690 V AC 50/60 Hz 符合 IEC 60947-2                        |
| 控制类型            | 旋转手柄                                                                                                                                                                                                                                                                        |
| 额定电流 [In]       | 1.6 A                                                                                                                                                                                                                                                                       |
| 电磁脱扣电流          | 26.2 A                                                                                                                                                                                                                                                                      |
| 约定发热电流 [Ith]    | 1.6 A 符合 IEC 60947-4-1                                                                                                                                                                                                                                                      |
| 额定工作电压 [Ue]     | 690 V AC 50/60 Hz 符合 IEC 60947-2                                                                                                                                                                                                                                            |
| 额定绝缘电压 [Ui]     | 690 V AC 50/60 Hz 符合 IEC 60947-2                                                                                                                                                                                                                                            |
| 额定冲击耐受电压 [Uimp] | 6 kV 符合 IEC 60947-2                                                                                                                                                                                                                                                         |
| 隔离功能            | 适用 符合 IEC 60947-1                                                                                                                                                                                                                                                           |
| 每极功耗            | 1.8 W                                                                                                                                                                                                                                                                       |
| 机械寿命            | 100000 次                                                                                                                                                                                                                                                                    |

免责声明：本文档不构成要约，不作为产品使用或安装的指南。产品的适用性或兼容性

|      |                                                                     |
|------|---------------------------------------------------------------------|
| 电气寿命 | 100000 次 适用 AC-3 在...上 415 V In<br>100000 次 适用 AC-3e 在...上 415 V In |
| 额定负载 | 连续 符合 IEC 60947-4-1                                                 |
| 紧固扭矩 | 1.7 N.m 通过 螺旋压入式端子                                                  |
| 固定模式 | 35 mm DIN 导轨: clipped<br>面板: 螺钉式 (with 2 x M4 screws)               |
| 安装位置 | 水平方向<br>垂直                                                          |
| 宽度   | 45 mm                                                               |
| 高度   | 89 mm                                                               |
| 深度   | 97 mm                                                               |
| 净重   | 0.33 kg                                                             |
| 颜色   | 深灰色                                                                 |

## 环境

|            |                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------|
| 标准         | TM-D<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>DIN 3852-Y<br>IEC/EN 60335-2-40:Annex JJ                             |
| 产品认证       | CCC<br>UL<br>CSA<br>EAC<br>LROS (Lloyds register of shipping)<br>BV<br>RINA<br>DNV-GL<br>UKCA<br>IECEE CB Scheme |
| IK 保护等级    | IK04                                                                                                             |
| IP 保护等级    | IP20 符合 IEC 60529                                                                                                |
| 气候耐受       | 符合 IACS E10                                                                                                      |
| 贮存环境温度     | -40...80 °C                                                                                                      |
| 耐火及耐异常高温能力 | 960 °C 符合 IEC 60695-2-11                                                                                         |
| 环境温度       | -20...60 °C                                                                                                      |
| 抗冲击、震动性能   | 抗冲击性能: 30 Gn 持续 11 ms<br>抗震性能: 5 gn (5...150 Hz)                                                                 |
| 工作海拔       | 2000米                                                                                                            |

## 包装单位

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 4.700 cm  |
| Package 1 Width              | 9.400 cm  |
| Package 1 Length             | 10.000 cm |
| Package 1 Weight             | 316.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 20        |

|                              |            |
|------------------------------|------------|
| Package 2 Height             | 15.000 cm  |
| Package 2 Width              | 30.000 cm  |
| Package 2 Length             | 40.000 cm  |
| Package 2 Weight             | 6.750 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 320        |
| Package 3 Height             | 77.000 cm  |
| Package 3 Width              | 80.000 cm  |
| Package 3 Length             | 60.000 cm  |
| Package 3 Weight             | 116.500 kg |

## 合同保修

|     |           |
|-----|-----------|
| 保修单 | 18 months |
|-----|-----------|

Environmental Data

施耐德电气希望通过不断开展的“使用更好、使用更长时间、再次使用”的宣传活动来建立供应链伙伴关系、降低材料的影响力并促进材料循环，从而到2050年实现净零排放。

环境数据说明 >

环境足迹

碳足迹 (kg CO2 eq.)8

环境披露[产品环境文件](#)

Use Better

材料和包装

回收纸板包装否

无塑料包装否

欧盟RoHS指令符合例外情况

SCIP编号04104e70-ba29-493c-b2cc-b5837d1f902b

REACH法规[REACH 声明](#)

中国RoHS法规[中国 ROHS 声明](#)

Use Again

重新包装和再制造

循环配置文件[产品使用寿命终期信息](#)

WEEE

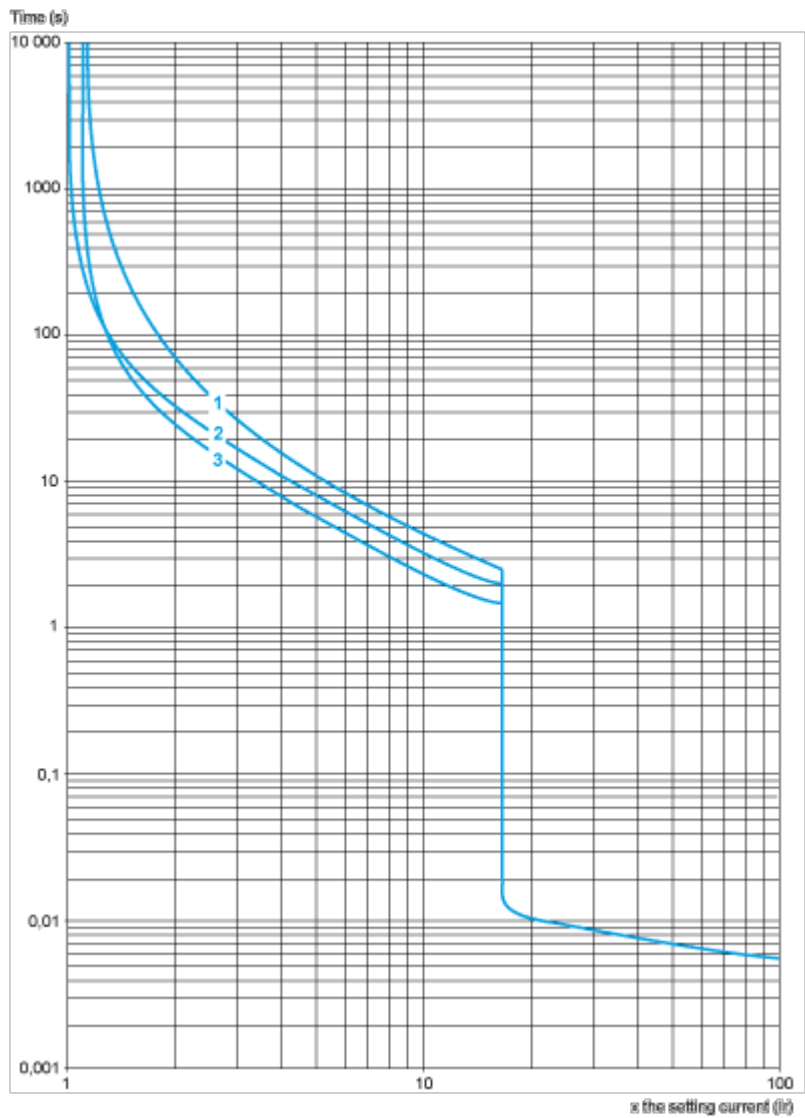
产品必须根据特定的废物收集要求在欧盟市场进行处置，不得扔入垃圾箱

回收

No

Performance Curves

Tripping Curves for GV2L or LE Combined with Thermal Overload Relay LRD or LR2K  
Average Operating Times at 20 °C Related to Multiples of the Setting Current

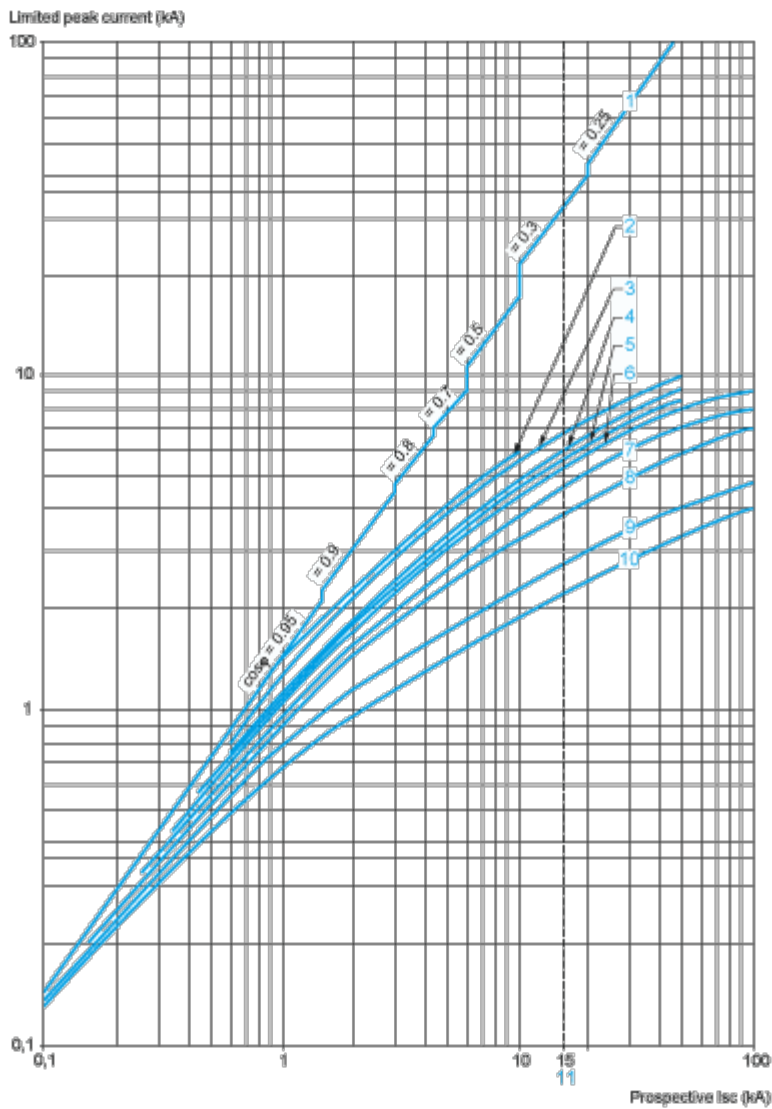


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

Current Limitation on Short-Circuit for GV2L and GV2LE Only (3-Phase 400/415 V)

Dynamic Stress

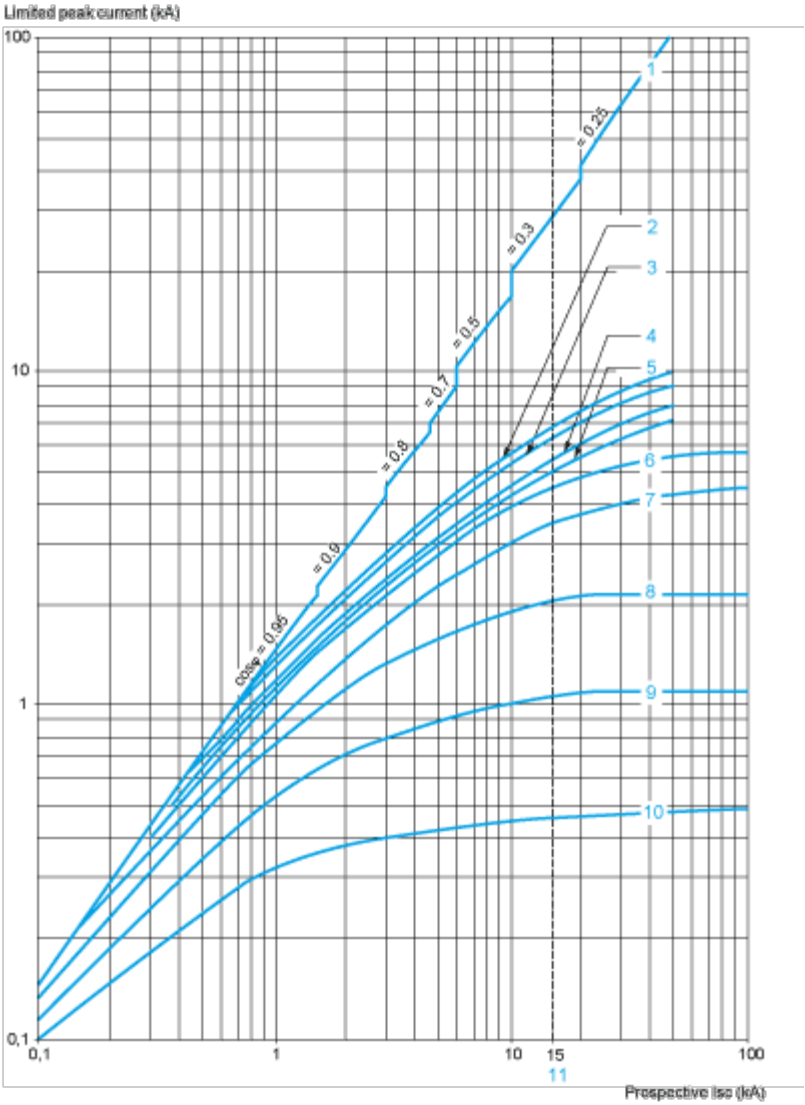
$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$



- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Current Limitation on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K (3-Phase 400/415 V)

Dynamic Stress  
 $I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$

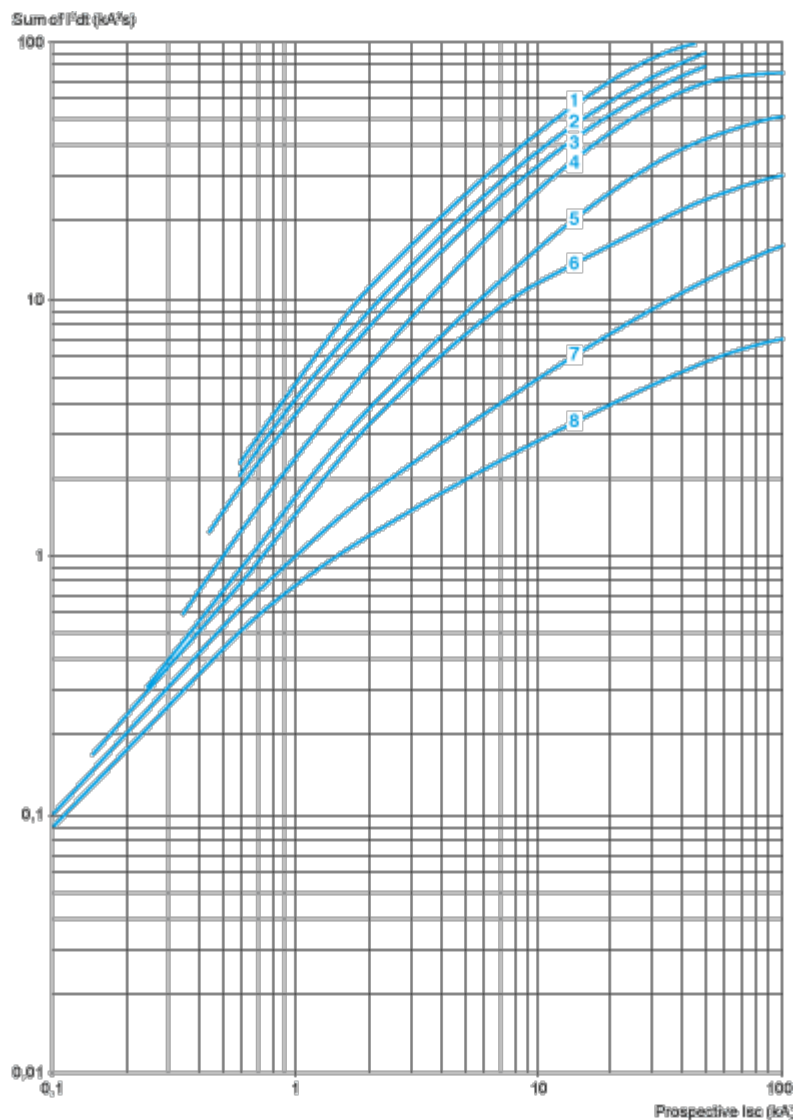


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2L Only

Thermal Limit in kA<sup>2</sup>s in the Magnetic Operating Zone

Sum of I<sup>2</sup>dt = f (prospective Isc) at 1.05 Ue = 435 V

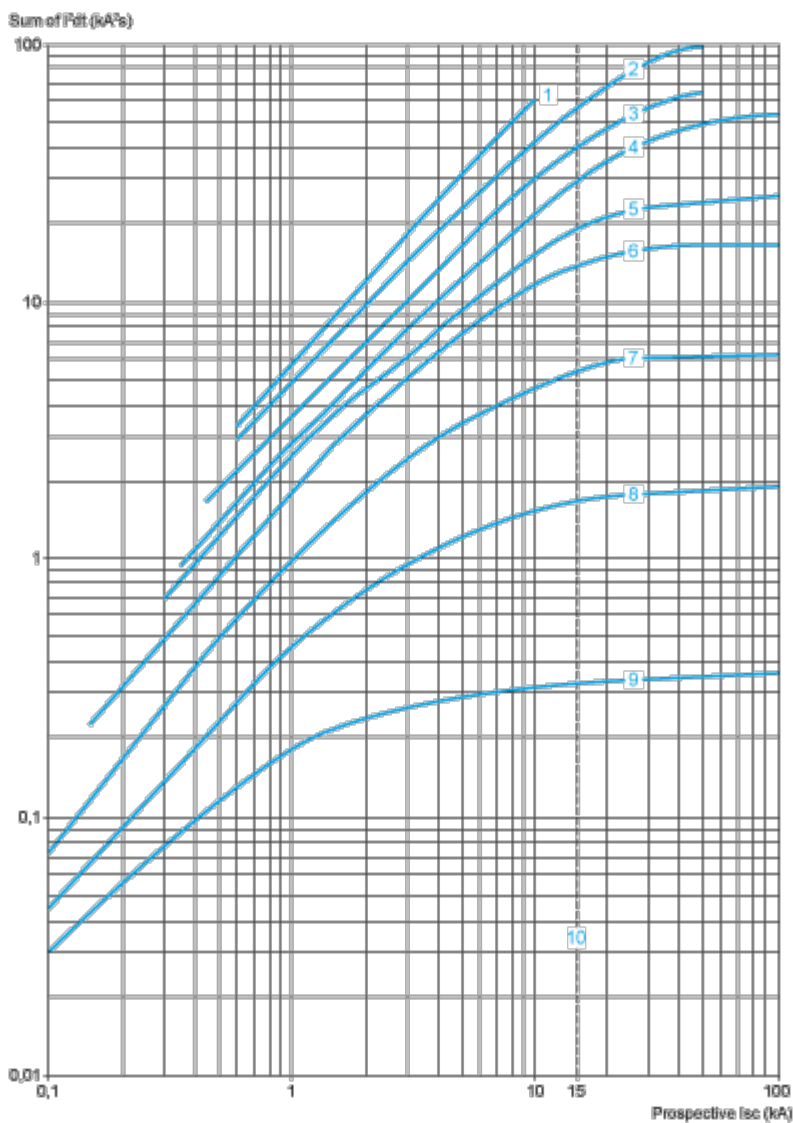


- 1 25 A and 32 A
- 2 18 A
- 3 14 A
- 4 10 A
- 5 6.3 A
- 6 4 A
- 7 2.5 A
- 8 1.6 A

**Thermal Limit on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K**

Thermal Limit in  $kA^2s$  in the Magnetic Operating Zone

Sum of  $I^2dt = f(\text{prospective } I_{sc})$  at  $1.05 U_e = 435 V$

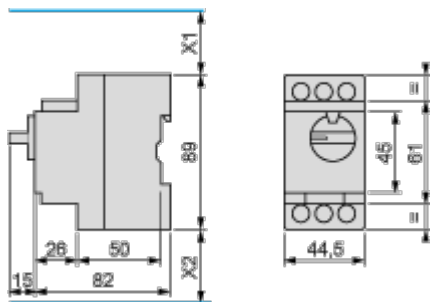


- 1 32 A (GV2LE32)
- 2 25 A and 32 A (GV2L32)
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A
- 10 Limit of rated ultimate breaking capacity on short-circuit of GV2 LE (14, 18, 23, and 25 A ratings).

Dimensions Drawings

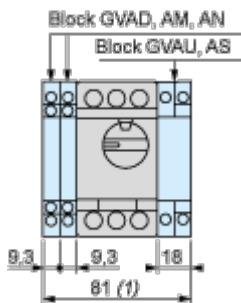
GV2L

Dimensions



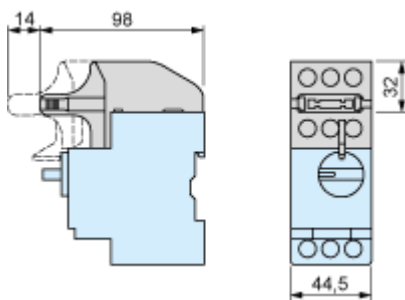
X1 Electrical clearance = 40 mm for  $U_e \leq 415$  V, or 80 mm for  $U_e = 440$  V, or 120 mm for  $U_e = 500$  and 690 V.  
X2 = 40 mm.

GVAD, AM, AN, AU, AS



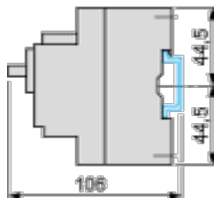
1 Maximum

GV2AK00

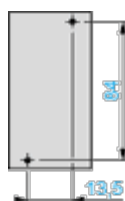


Mounting

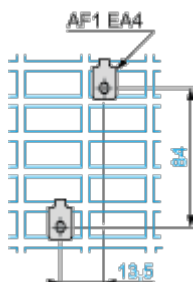
On rail AM1 DE200, AM1 ED200 (35 x 15)



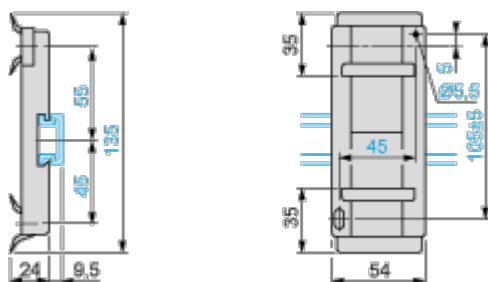
Panel mounted



On pre-slotted mounting plate AM1 PA



## Adapter Plate GK2AF01

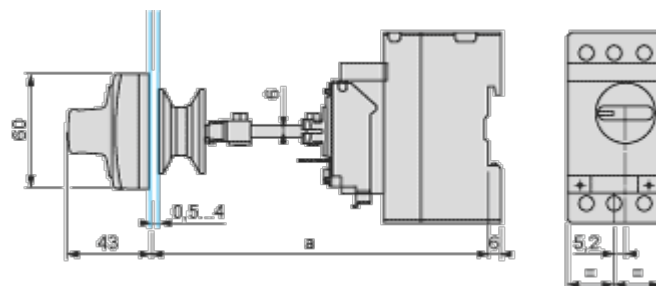


### 7.5 mm Height Compensation Plate GV1F03

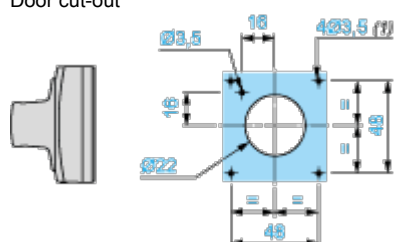


## Mounting

### Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2L

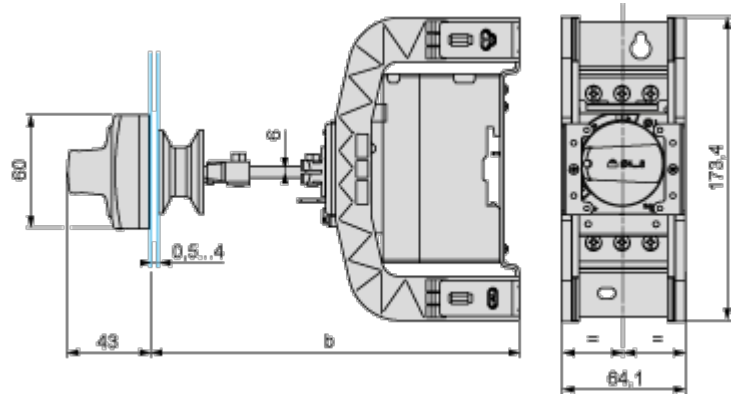


Door cut-out



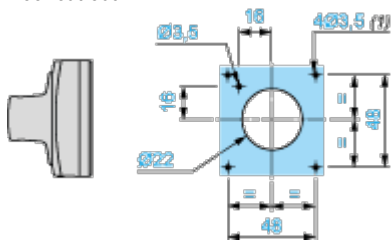
(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2L



|                                              | b       |         |
|----------------------------------------------|---------|---------|
|                                              | Minimum | Maximum |
| GV2 APN <sub>...</sub> + GV APH02            | 151     | 250     |
| GV2 APN <sub>...</sub> + GV APH02 + GV APK11 | 250     | 445     |

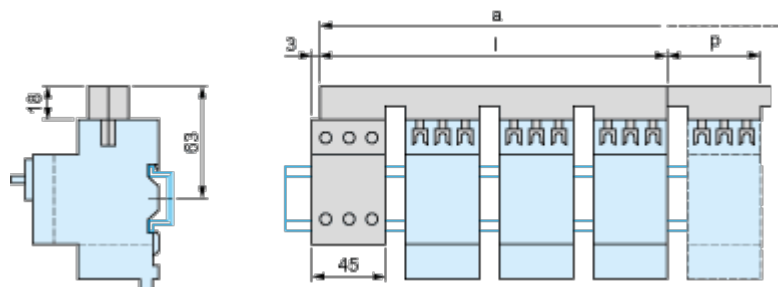
Door cut-out



(1) For IP65 only.

GV2L and GV2LE

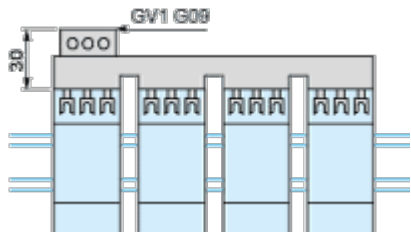
Sets of busbars GV2G445, GV2G454, GV2G472, with terminal block GV2G05



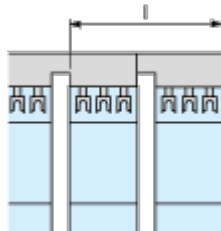
|                     | l   | p  |
|---------------------|-----|----|
| GV2G445 (4 x 45 mm) | 179 | 45 |
| GV2G454 (4 x 54 mm) | 206 | 54 |
| GV2G472 (4 x 72 mm) | 260 | 72 |

| Number of tap-offs | a   |     |     |     |
|--------------------|-----|-----|-----|-----|
|                    | 5   | 6   | 7   | 8   |
| GV2G445            | 224 | 269 | 314 | 359 |
| GV2G454            | 260 | 314 | 368 | 422 |
| GV2G472            | 332 | 404 | 476 | 548 |

Sets of Busbars for GV2L and GV2LE  
Sets of busbars GV2G... with terminal block GV1G09

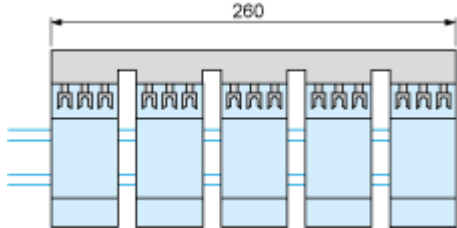


Sets of busbars GV2G245, GV2G254, GV2GR272

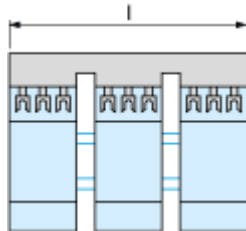


|                     | l   |
|---------------------|-----|
| GV2G245 (2 x 45 mm) | 89  |
| GV2G254 (2 x 54 mm) | 98  |
| GV2G272 (2 x 72 mm) | 116 |

Set of busbars GV2G554



Sets of busbars GV2G345 and GV2G354



|                     | l   |
|---------------------|-----|
| GV2G345 (3 x 45 mm) | 134 |

|                     | I   |
|---------------------|-----|
| GV2G354 (3 x 54 mm) | 152 |

Connections and Schema

GV2L••

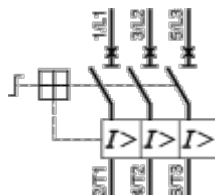
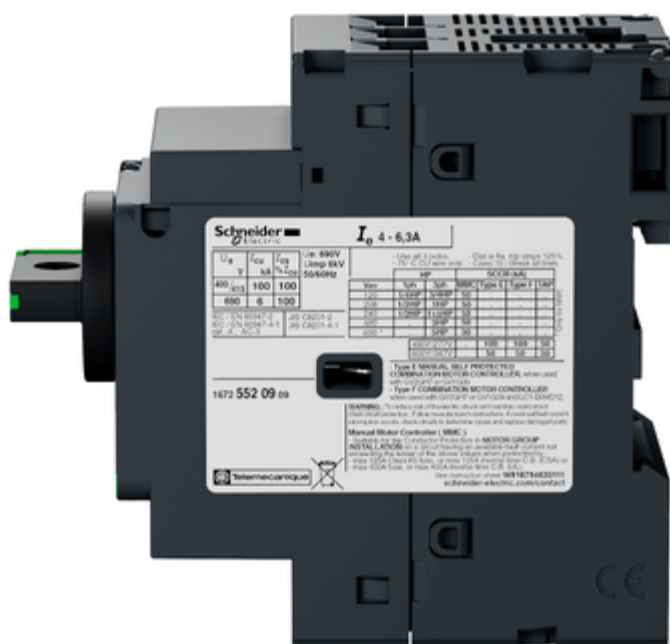
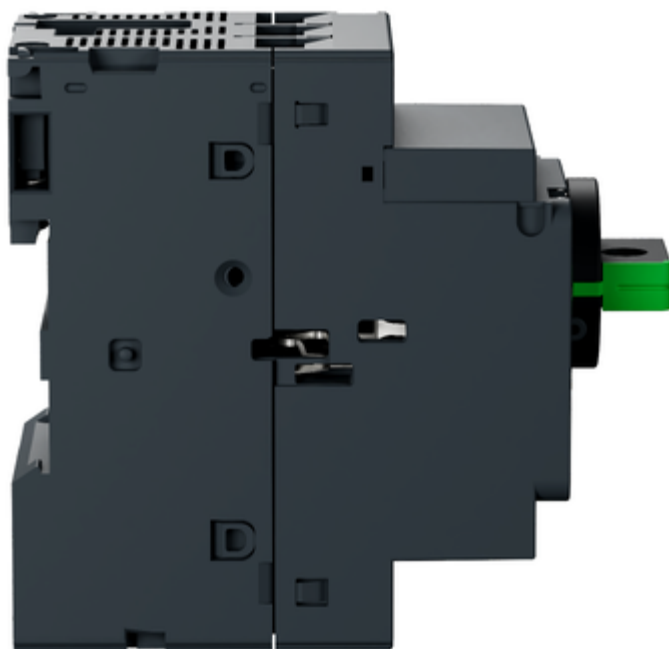


Image of product / Alternate images

Alternative

---





Technical Illustration

Assembly's dimensions

