

产品参数表

规格



TeSys Deca GV2 电动机磁断路器, 磁脱扣范围: 18 A, 螺钉夹紧端子

GV2L20

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 AC-3 符合 IEC 60947-4-1 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)	7.5 kW 在...上 400/415 V AC 50/60 Hz 9 kW 在...上 500 V AC 50/60 Hz 15 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 50 kA Icu 在...上 400/415 V AC 50/60 Hz 符合 IEC 60947-2 20 kA Icu 在...上 440 V AC 50/60 Hz 符合 IEC 60947-2 10 kA Icu 在...上 500 V AC 50/60 Hz 符合 IEC 60947-2 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 50 % 在...上 400/415 V AC 50/60 Hz 符合 IEC 60947-2 75 % 在...上 440 V AC 50/60 Hz 符合 IEC 60947-2 75 % 在...上 500 V AC 50/60 Hz 符合 IEC 60947-2 100 % 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]	18 A
电磁脱扣电流	341 A
约定发热电流 [Ith]	18 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

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电气寿命	100000 次 适用 AC-3 在...上 415 V In 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 面板: 螺钉式 (with 2 x M4 screws)
安装位置	水平方向 垂直
宽度	45 mm
高度	89 mm
深度	97 mm
产品重量	0.33 kg
颜色	深灰色

环境

标准	TM-D EN/IEC 60947-4-1 UL 60947-4-1 DIN 3852-Y IEC/EN 60335-2-40:Annex JJ
产品认证	CCC UL CSA EAC LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA 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 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	9.300 cm
Package 1 Width	4.600 cm
Package 1 Length	10.000 cm
Package 1 Weight	330.000 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	6.930 kg

合同保修

保修单	18 months
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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

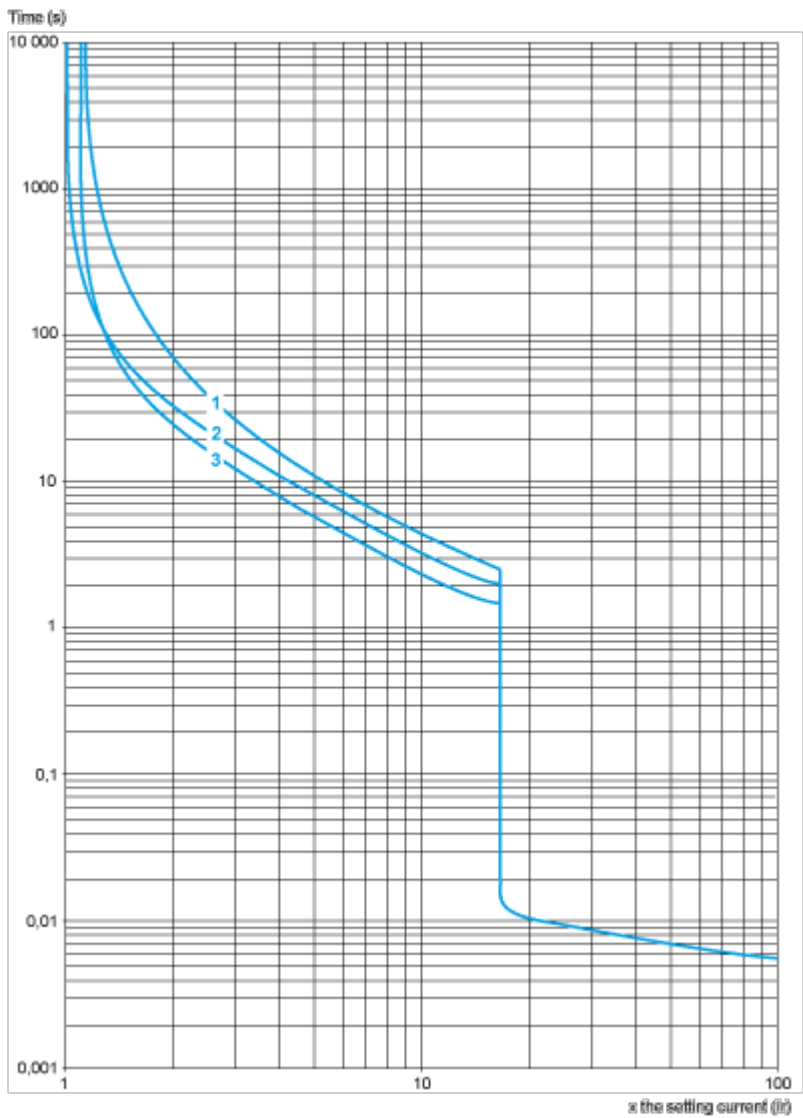
材料和包装	
回收纸板包装	否
无塑料包装	否
SCIP编号	04104e70-ba29-493c-b2cc-b5837d1f902b
中国RoHS法规	中国 ROHS 声明

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

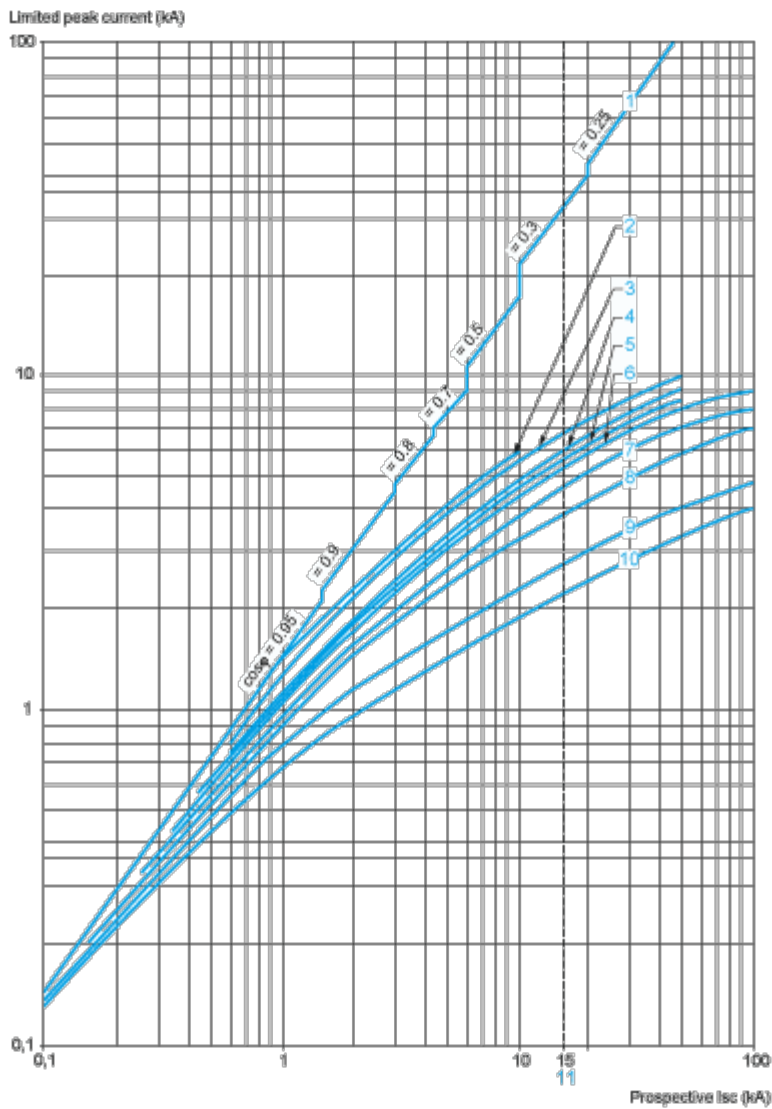


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

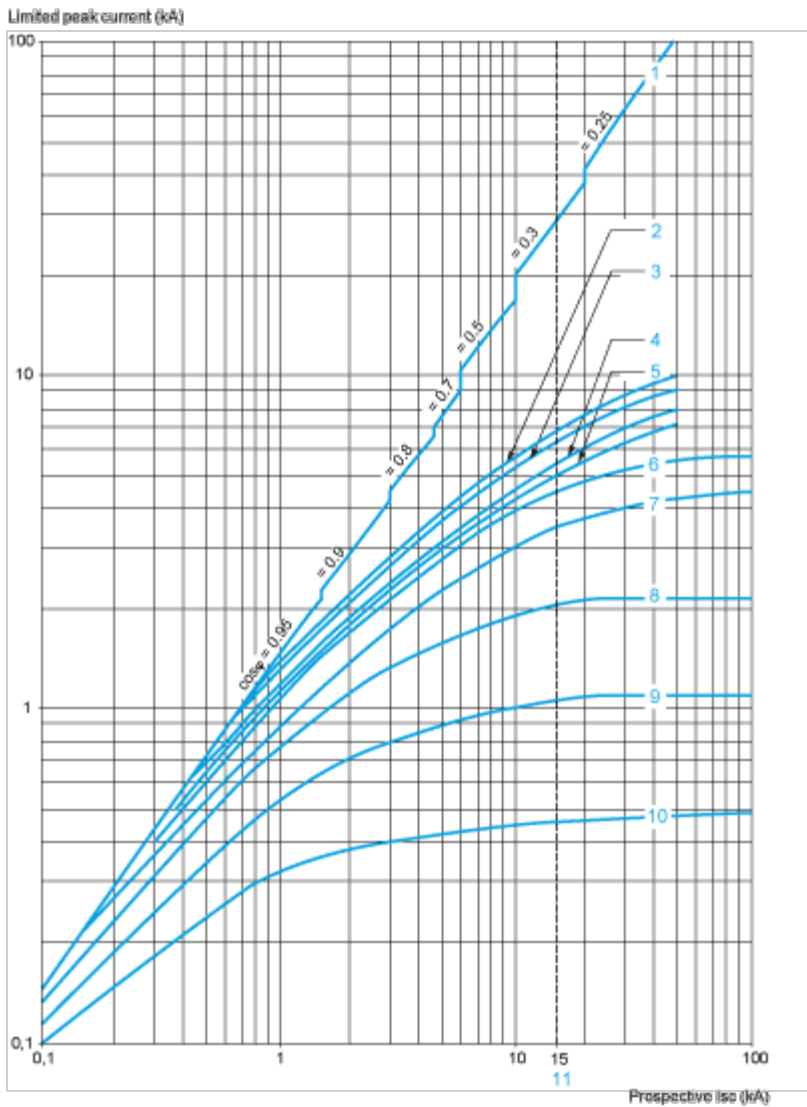
$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$



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

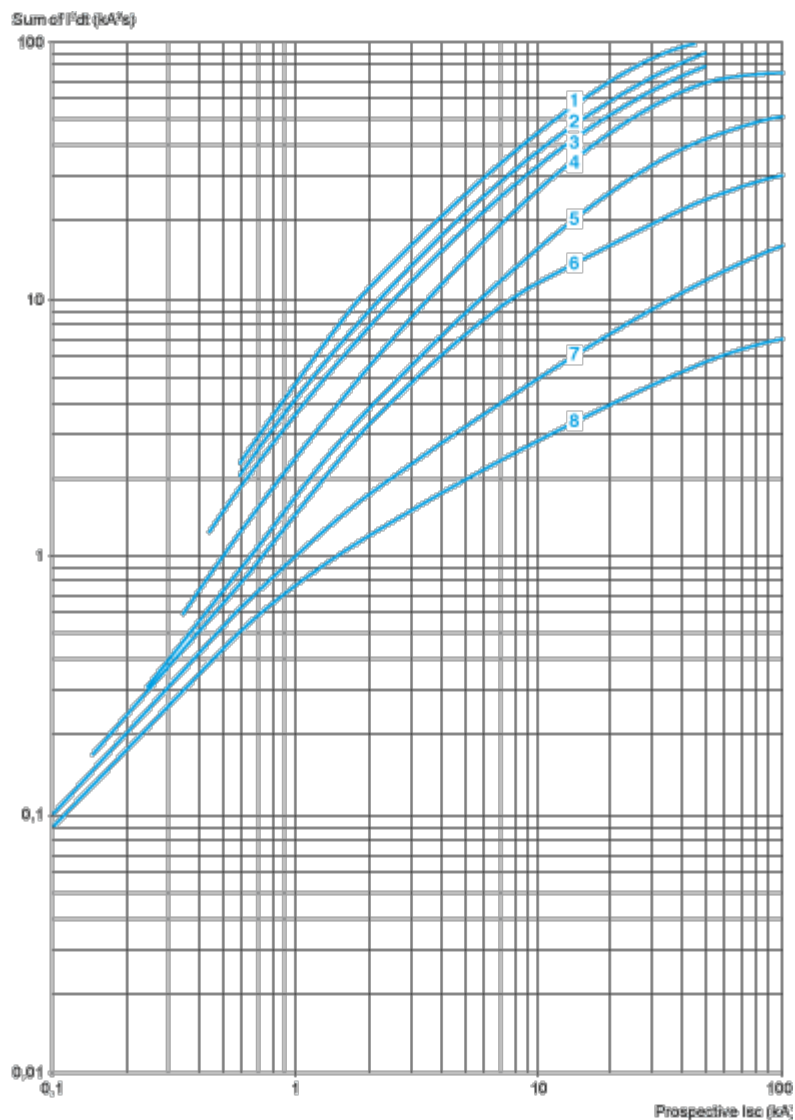


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2L Only

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

Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V

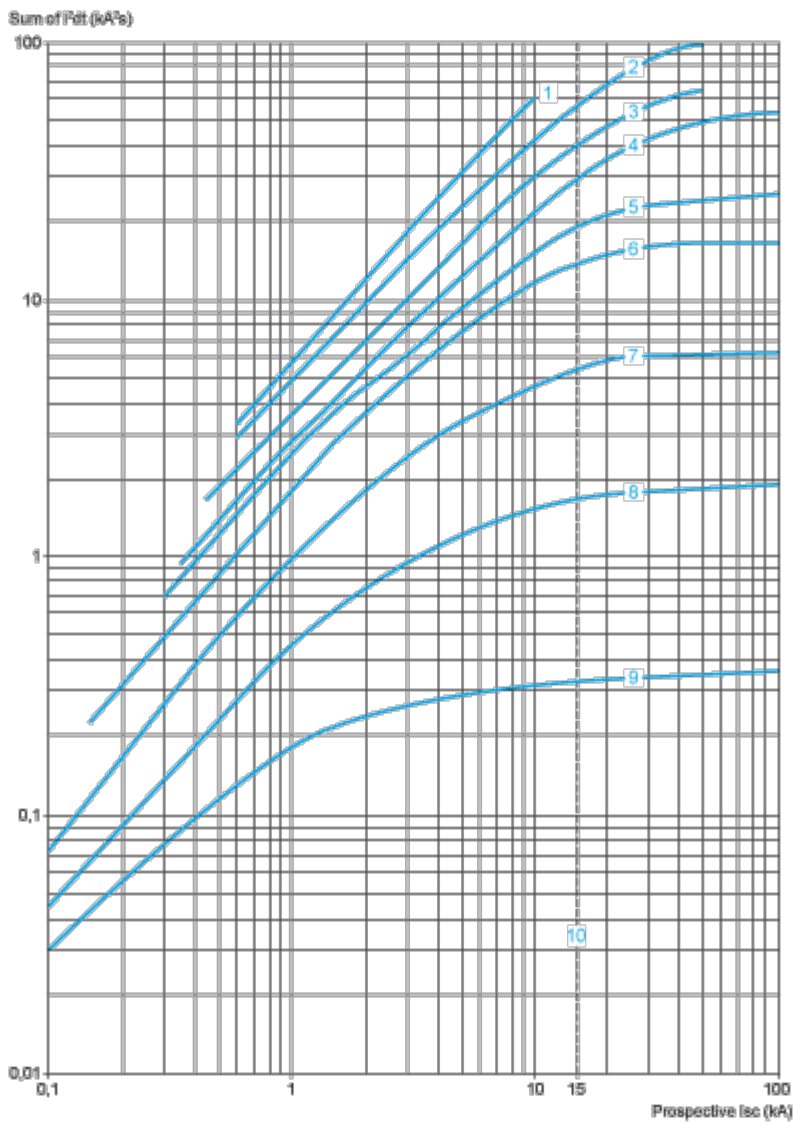


- 1 25 A and 32 A
- 2 18 A
- 3 14 A
- 4 10 A
- 5 6.3 A
- 6 4 A
- 7 2.5 A
- 8 1.6 A

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

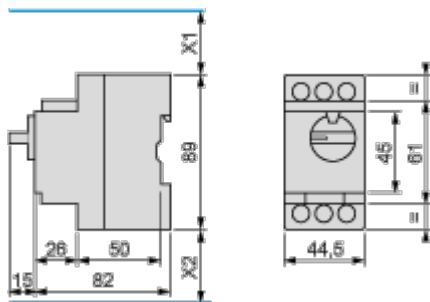


- 1 32 A (GV2LE32)
- 2 25 A and 32 A (GV2L32)
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A
- 10 Limit of rated ultimate breaking capacity on short-circuit of GV2 LE (14, 18, 23, and 25 A ratings).

Dimensions Drawings

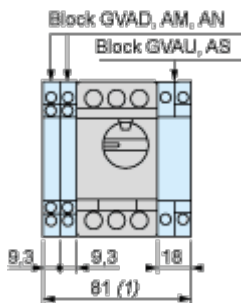
GV2L

Dimensions



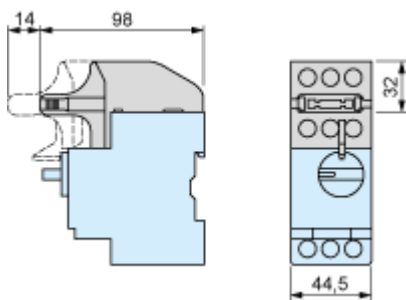
X1 Electrical clearance = 40 mm for $U_e \leq 415$ V, or 80 mm for $U_e = 440$ V, or 120 mm for $U_e = 500$ and 690 V.
X2 = 40 mm.

GVAD, AM, AN, AU, AS



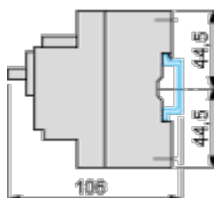
1 Maximum

GV2AK00

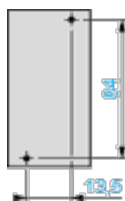


Mounting

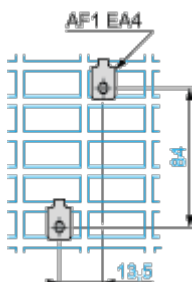
On rail AM1 DE200, AM1 ED200 (35 x 15)



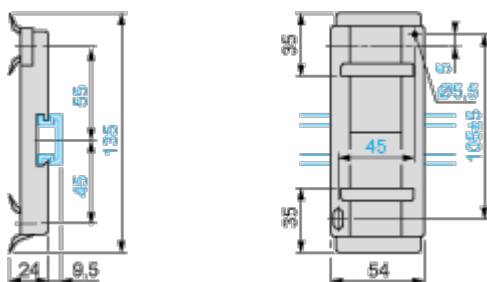
Panel mounted



On pre-slotted mounting plate AM1 PA



Adapter Plate GK2AF01

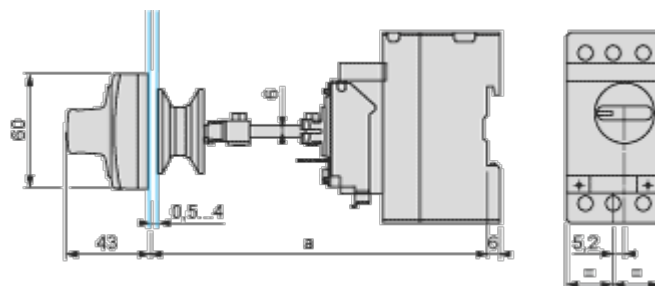


7.5 mm Height Compensation Plate GV1F03

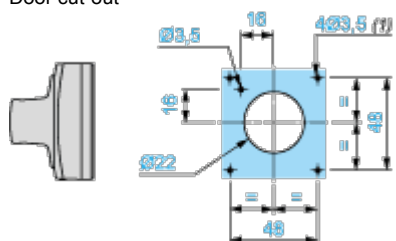


Mounting

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

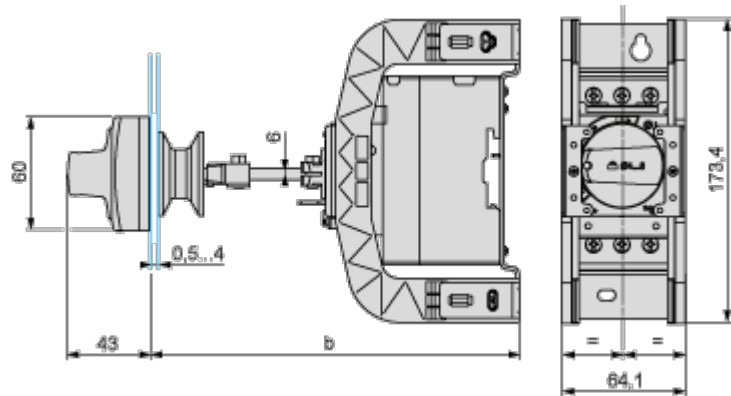


Door cut-out



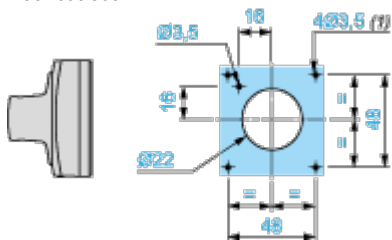
(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2L



	b	
	Minimum	Maximum
GV2 APN _{...} + GV APH02	151	250
GV2 APN _{...} + GV APH02 + GV APK11	250	445

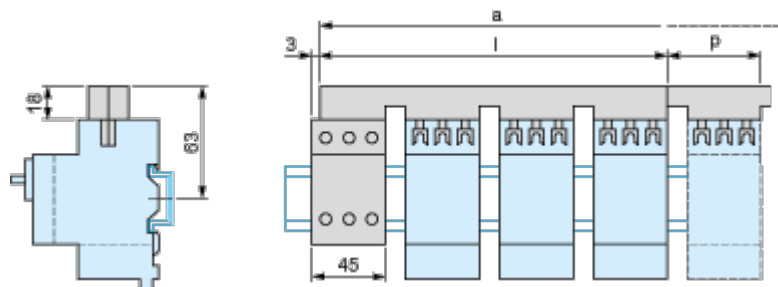
Door cut-out



(1) For IP65 only.

GV2L and GV2LE

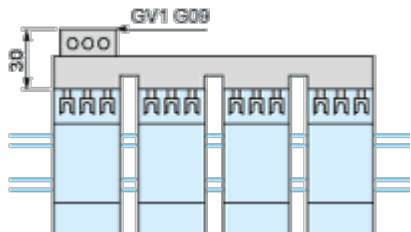
Sets of busbars GV2G445, GV2G454, GV2G472, with terminal block GV2G05



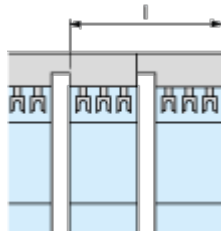
	l	p
GV2G445 (4 x 45 mm)	179	45
GV2G454 (4 x 54 mm)	206	54
GV2G472 (4 x 72 mm)	260	72

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

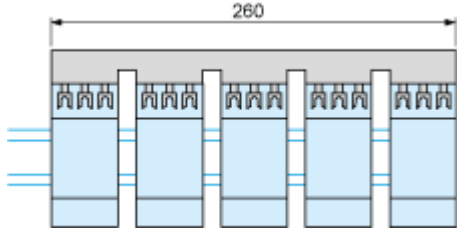


Sets of busbars GV2G245, GV2G254, GV2GR272

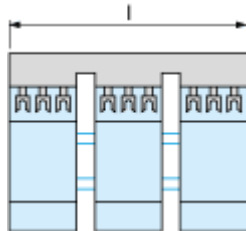


	l
GV2G245 (2 x 45 mm)	89
GV2G254 (2 x 54 mm)	98
GV2G272 (2 x 72 mm)	116

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••

