

Motor circuit-breakers

Thermal-magnetic motor circuit-breakers type GV2-M

References



1



GV2-M

Thermal-magnetic motor circuit-breakers GV2-M

Pushbutton control

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3					Setting range of thermal trips	Magnetic tripping current $I_d \pm 20\%$	Thermal current I_{th} in GV2-M... enclosure	Reference	Weight
220 V	400 V	415 V	440 V	500 V					
kW	kW	kW	kW	kW	A	A	A		kg
–	–	–	–	–	0.1...0.16	1.5	0.16	GV2-M01	0.260
–	0.06	0.06	–	–	0.16...0.25	2.4	0.25	GV2-M02	0.260
0.06	0.09	0.09	–	–	0.25...0.40	5	0.40	GV2-M03	0.260
–	0.12	0.18	–	0.37	0.40...0.63	8	0.63	GV2-M04	0.260
0.09	0.25	0.25	0.37	0.55	0.63...1	13	1	GV2-M05	0.260
0.12	0.37	0.37	–	–	–	–	–	–	–
0.18	0.37	0.37	0.37	0.75	1...1.6	22.5	1.6	GV2-M06	0.260
0.25	0.55	0.55	0.55	1.1	–	–	–	–	–
0.37	0.75	0.75	1.1	1.5	1.6...2.5	33.5	2.5	GV2-M07	0.260
0.55	1.1	1.5	1.5	2.2	2.5...4	51	4	GV2-M08	0.260
0.75	1.5	–	–	–	–	–	–	–	–
1.1	2.2	2.2	3	4	4...6.3	78	6.3	GV2-M10	0.260
1.5	3	4	4	5.5	6...10	138	9	GV2-M14	0.260
2.2	4	–	–	–	–	–	–	–	–
2.2	5.5	5.5	7.5	9	9...14	170	13	GV2-M16	0.260
3	–	–	–	–	–	–	–	–	–
4	7.5	7.5	9	15	13...18	223	17	GV2-M20	0.260
5.5	9	11	11	18.5	17...23	327	21	GV2-M21	0.260
5.5	11	11	15	22	20...25	327	23	GV2-M22	0.260
7.5	15	15	18.5	22	24...32	416	30	GV2-M32	0.260

Thermal-magnetic motor circuit-breakers GV2-M with built-in auxiliary contact block

With instantaneous auxiliary contact block :

- GV2-AE1, add suffix **AE1TQ** to the motor circuit-breaker reference selected above.

Example : **GV2-M01** becomes **GV2-M01AE1TQ**.

- GV2-AE11, add suffix **AE11TQ** to the motor circuit-breaker reference selected above.

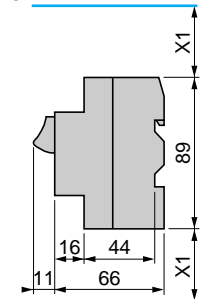
Example : **GV2-M01** becomes **GV2-M01AE11TQ**.

- GV2-AN11, add suffix **AN11TQ** to the motor circuit-breaker reference selected above.

Example : **GV2-M01** becomes **GV2-M01AN11TQ**.

These thermal-magnetic motor circuit-breakers with built-in contact block are sold in lots of 20 parts in a single pack.

GV2-M



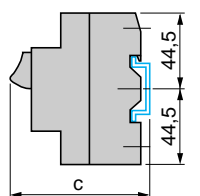
X1 Electrical clearance = 40 mm for $U_e \leq 690$ V

Mounting of GV2-M

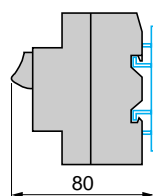
On 35 mm rail

c = 78.5 on AM1-DP200 (35 x 7.5)

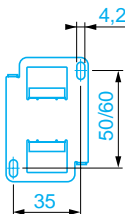
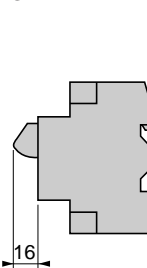
c = 86 on AM1-DE200, ED200 (35 x 15)



On panel with adaptor plate **GV2-AF02**

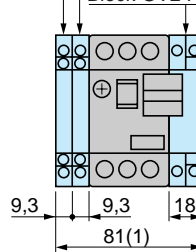


GV2-AX



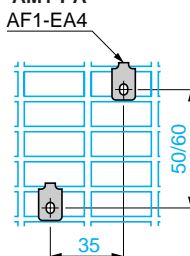
GV2-AD, AM, AN, AU, AS, AX

Block GV2-AD, AM, AN, AU, AS, AX

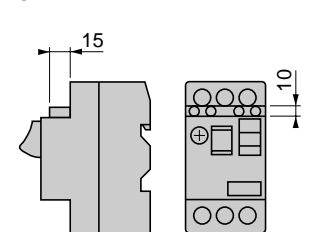


(1) Maximum

On pre-slotted mounting plate



GV2-AE

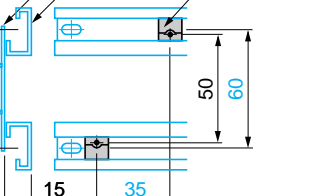


On mounting rail **DZ5-MB201**

GV2-AF02

DZ5-MB201

DZ5-ME8



Motor circuit-breakers

Thermal-magnetic motor circuit-breakers type GV2-P

References



Thermal-magnetic motor circuit-breakers GV2-P

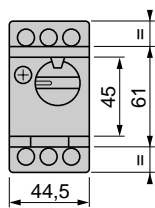
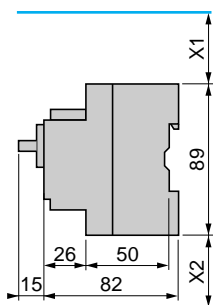
Control by rotary handle

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3					Setting range of thermal trips	Magnetic tripping current $I_d \pm 20\%$	Reference	Weight
220 V	415 V	440 V	500 V	690 V				
kW	kW	kW	kW	kW	A	A		kg
–	–	–	–	–	0.1...0.16	1.5	GV2-P01	0.350
–	0.06	0.06	–	–	0.16...0.25	2.4	GV2-P02	0.350
0.06	0.09	0.09	–	–	0.25...0.40	5	GV2-P03	0.350
–	0.12	0.18	–	0.37	0.40...0.63	8	GV2-P04	0.350
0.09	0.25	0.25	0.37	0.55	0.63...1	13	GV2-P05	0.350
0.12	0.37	0.37	0.37	0.75	1...1.6	22.5	GV2-P06	0.350
0.18	0.37	0.37	0.37	0.75	1...1.6	22.5	GV2-P06	0.350
0.25	0.55	0.55	0.55	1.1	1.6...2.5	33.5	GV2-P07	0.350
0.37	0.75	0.75	1.1	1.5	1.6...2.5	33.5	GV2-P07	0.350
0.55	1.1	1.5	1.5	2.2	2.5...4	51	GV2-P08	0.350
0.75	1.5	2.2	2.2	3	4...6.3	78	GV2-P10	0.350
1.1	2.2	2.2	3	4	4...6.3	78	GV2-P10	0.350
1.5	3	4	4	5.5	6...10	138	GV2-P14	0.350
2.2	4	5.5	5.5	7.5	9...14	170	GV2-P16	0.350
2.2	5.5	5.5	7.5	9	9...14	170	GV2-P16	0.350
3	7.5	7.5	9	11	13...18	223	GV2-P20	0.350
4	7.5	7.5	9	15	13...18	223	GV2-P20	0.350
5.5	9	11	11	18.5	17...23	327	GV2-P21	0.350
5.5	11	11	15	22	20...25	327	GV2-P22	0.350

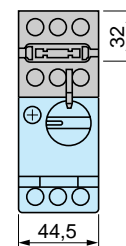
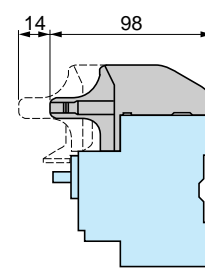
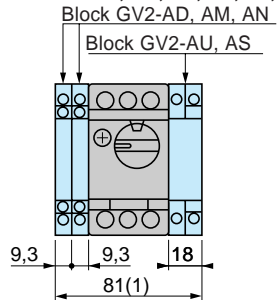


GV2-P

GV2-P



GV2-AD, AM, AN, AU, AS, GV2-AK00



X2 = 40 mm
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

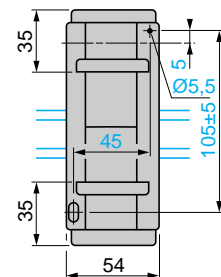
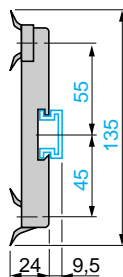
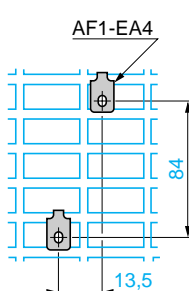
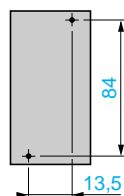
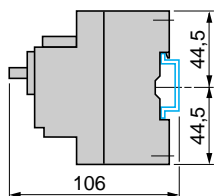
Mounting of GV2-P

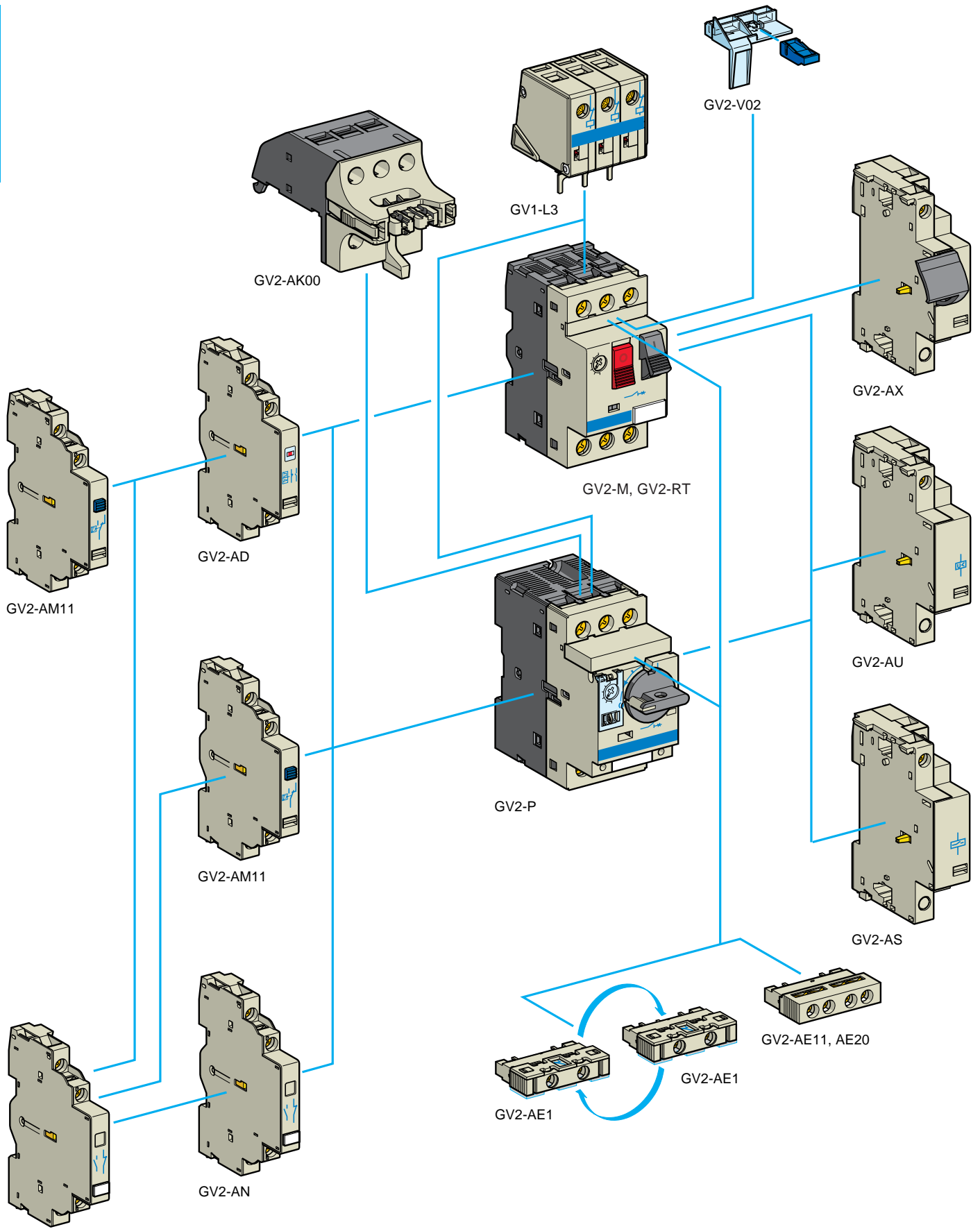
On 35 mm mounting rail ED200 (35 x 15)

On panel

On pre-slotted mounting plate AM1-PA

Adaptor plate GK2-AF01





Motor circuit-breakers

Thermal-magnetic motor circuit-breakers types GV2-M, GV2-RT and GV2-P
Accessories

Illustrations :
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Dimensions :
pages 1/84 and 1/85

References

Contact blocks (5)

Description	Mounting	Contact types	Sold in lots of	Unit reference	Weight kg	
Instantaneous auxiliary contacts	Front (1) (1 block per breaker)	N/O or N/C (2)	10	GV2-AE1	0.015	
		N/O + N/C	10	GV2-AE11	0.020	
		N/O + N/O	10	GV2-AE20	0.020	
	Side (up to 2 blocks on LH side of breaker)	N/O + N/C	1	GV2-AN11	0.050	
		N/O + N/O	1	GV2-AN20	0.050	
Fault signalling contact + instantaneous auxiliary contact	Side (3) (1 block on LH side of breaker)	Fault	Instantaneous			
		N/O	+ N/O	1	GV2-AD1010	0.055
		N/O	+ N/C	1	GV2-AD1001	0.055
		N/C	+ N/O	1	GV2-AD0110	0.055
		N/C	+ N/C	1	GV2-AD0101	0.055
Short-circuit signalling contact	Side (1 block on LH side of breaker)	C/O common point	1	GV2-AM11	0.045	

Electric trips

Mounting	Type	Voltage	Reference	Weight kg	
Side (1 block on RH side of breaker)	Undervoltage trip	110...115 V 50 Hz	GV2-AU115	0.105	
		60 Hz	GV2-AU116	0.105	
		220...240 V 50 Hz	GV2-AU225	0.105	
		60 Hz	GV2-AU226	0.105	
		380...400 V 50 Hz	GV2-AU385	0.105	
		60 Hz	GV2-AU386	0.105	
		415...440 V 50 Hz	GV2-AU415	0.105	
		440 V 60 Hz	GV2-AU385	0.105	
		500 V 50 Hz	GV2-AU505	0.105	
		600 V 60 Hz	GV2-AU505	0.105	
		Shunt trip	110...115 V 50 Hz	GV2-AS115	0.105
			60 Hz	GV2-AS116	0.105
			220...240 V 50 Hz	GV2-AS225	0.105
			60 Hz	GV2-AS226	0.105
	380...400 V 50 Hz		GV2-AS385	0.105	
	60 Hz		GV2-AS386	0.105	
	Undervoltage trip INRS (4)	110...115 V 50 Hz	GV2-AX115	0.110	
		60 Hz	GV2-AX116	0.110	
		220...240 V 50 Hz	GV2-AX225	0.110	
		60 Hz	GV2-AX226	0.110	
380...400 V 50 Hz		GV2-AX385	0.110		
60 Hz		GV2-AX386	0.110		
415V 50Hz		GV2-AX415	0.110		

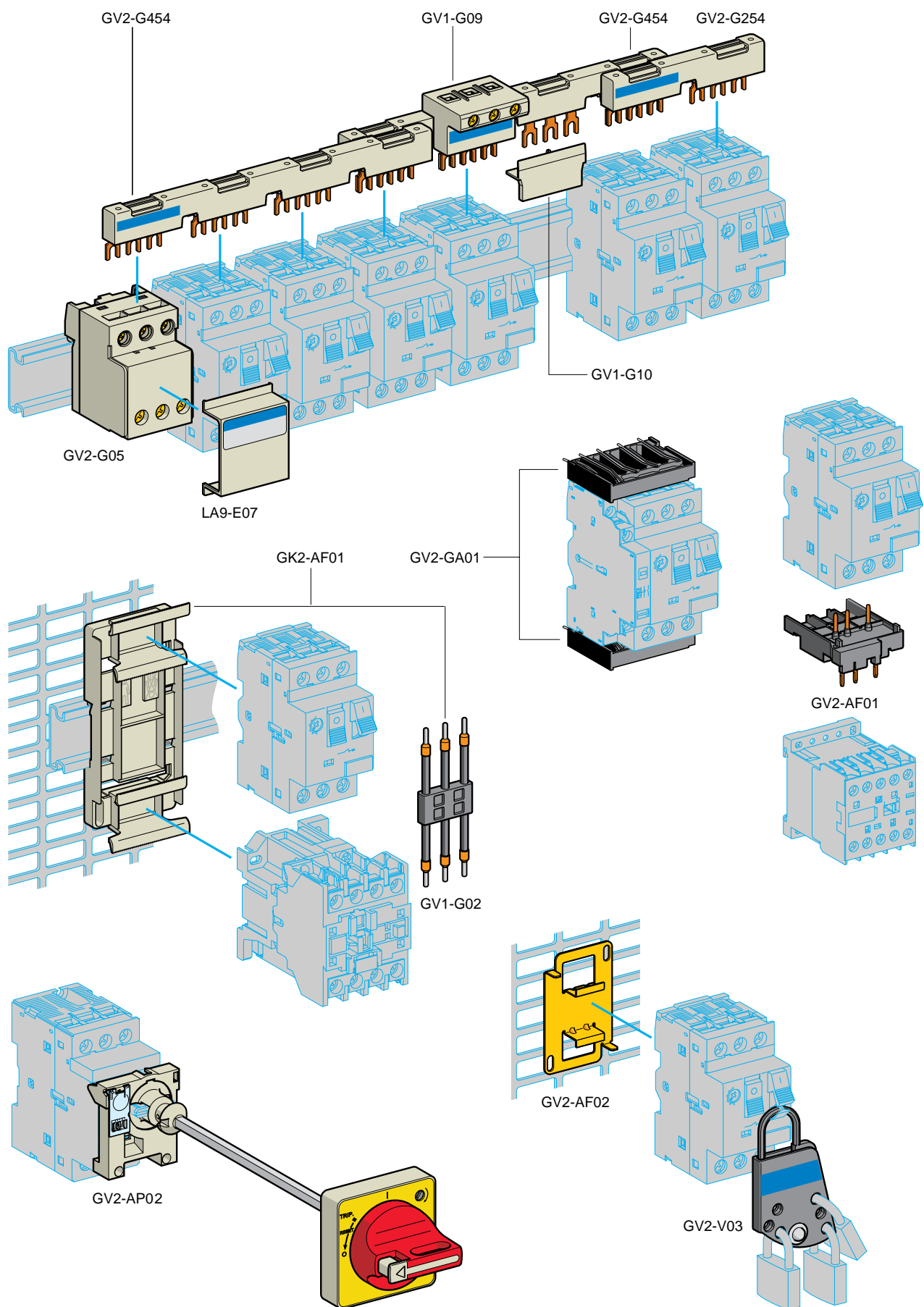
Add-on contact blocks

Description	Mounting	Operation	Sold in lots of	Unit reference	Weight kg
Visible isolation block	Front (1) (1 block per breaker)	3-pole on incoming side of GV2-P motor circuit-breaker	1	GV2-AK00	0.150
100 kA limiter	At top	–	1	GV1-L3	0.130

Sealing kit

For GV2-M	Front	–	10	GV2-V02	0.010
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- (1) Mounting of a **GV2-AE** contact block or a **GV2-AK00** visible isolation block on **GV2-P**.
- (2) Choice of N/C or N/O contact operation depending on which way round the reversible block is mounted.
- (3) The **GV2-AD** is always mounted next to the circuit-breaker.
- (4) Safety device for dangerous machines conforming to INRS and VDE 0113. Can only be mounted on **GV2-M**.
- (5) Maximum of 2 contact blocks on left hand side of breaker.



Motor circuit-breakers

Thermal-magnetic motor circuit-breakers types GV2-M and GV2-P
Accessories

References

Illustrations :
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Mounting accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Motor starter adaptor plate	With 3-pole connection for mounting of a GV2 and an LC1-D09 to D25 contactor	1	GK2-AF01	0.120
Adaptor plate	For screw fixing of a GV2-M	10	GV2-AF02	0.021
7.5 mm height compensation plate	To allow GV2-M and GV2-L/P to be mounted on a common busbar	10	GV1-F03	0.003
Combination block	Between GV2-M and LC1-K or LP1-K contactor	10	GV2-AF01	0.020

Cabling accessories

Description	Application	Pitch mm	Reference	Weight kg
Sets of 3-pole, 63 A busbars	2 tap-offs	45	GV2-G245	0.036
		54	GV1-G254	0.038
		72	GV2-G272	0.042
	3 tap-offs	54	GV2-G354	0.060
		45	GV2-G445	0.077
	4 tap-offs	54	GV1-G454	0.085
		72	GV2-G472	0.094
5 tap-offs	54	GV2-G554	0.100	

Description	Application	Sold in lots of	Unit reference	Weight kg
Protective end cover	For unused busbar outlets	5	GV1-G10	0.005
Terminal blocks for supply to one or more GV1-G0● or GV2-G0● busbar sets	Connection from the top	1	GV1-G09	0.040
	Can be fitted with a GV1-L3 current limiter	1	GV2-G05	0.115
Flexible 3-pole connection For connecting a GV2 to an LC1-D09...D25 contactor	Centre distance between mounting rails: 100...120 mm	10	GV1-G02	0.013

Marking accessories

Description	Application	Sold in lots of	Unit reference	Weight kg
Clip-in marker holders (supplied with each motor circuit-breaker)	For GV2-M (8 x 17 mm)	100	LA9-D90	0.001
	For GV2-P (8 x 22 mm)	100	LA9-D92	0.001

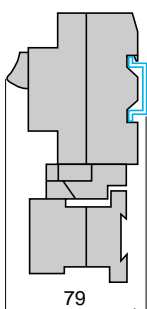
Padlockable external operator

Description	Reference	Weight kg
For GV2-P (150 to 290 mm)	Black handle, blue legend plate GV2-AP01 Red handle, yellow legend plate GV2-AP02	0.200 0.200

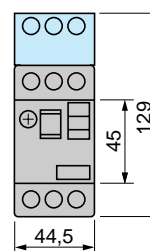
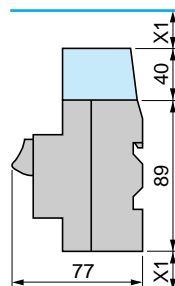
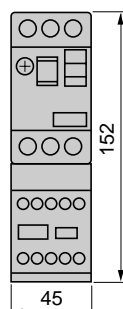
Padlocking device

For all GV2 devices	6 padlocks, Ø 6 mm shank max. (padlock not supplied)	GV2-V03	0.130
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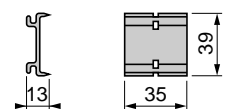
GV2-AF01
GV2-M + K contactor combination



GV2-M + GV1-L3 (current limiter)

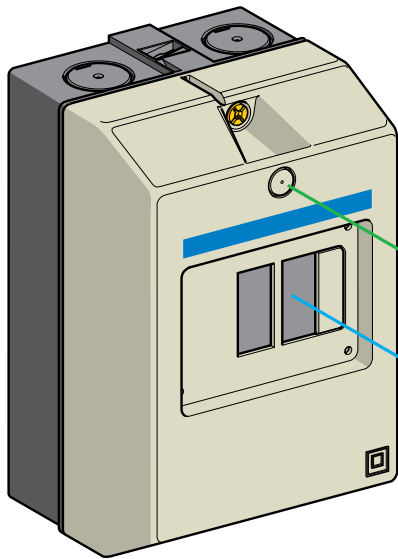


7.5 mm height compensation plate
GV1-F03

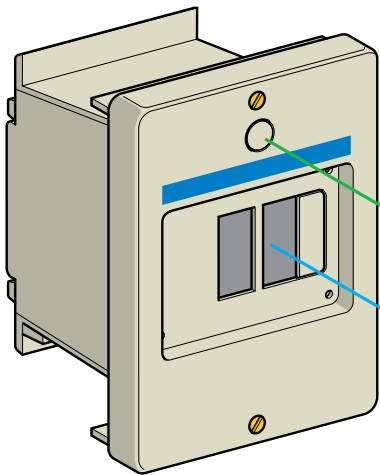


X1 = 10 mm for $U_e = 230$ V or 30 mm for 230 V < $U_e \leq 690$ V

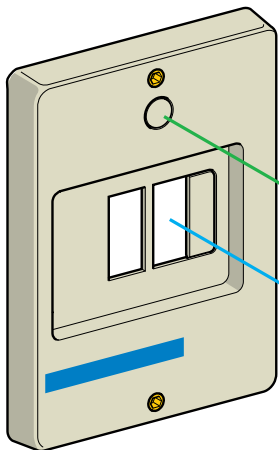
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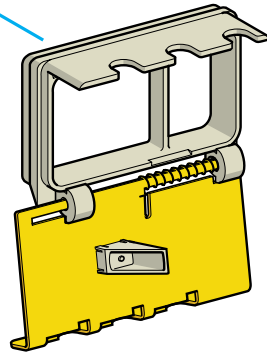
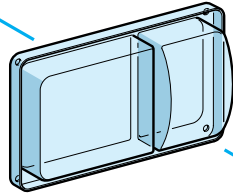
GV2-MC



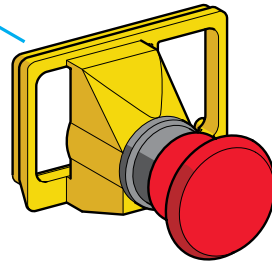
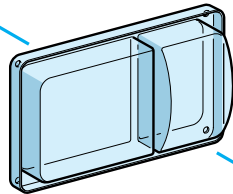
GV2-MP



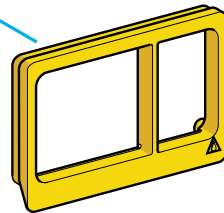
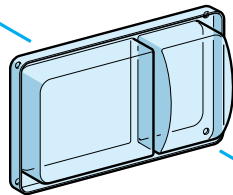
GV2-CP



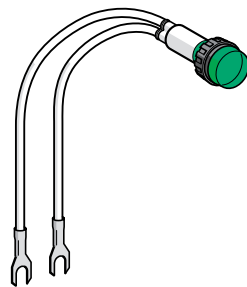
GV2-V01



GV2-K01



GV2-E01



GV2-SN

Motor circuit-breakers

Thermal-magnetic motor circuit-breakers types GV2-M and GV2-P

References

Illustrations :
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Enclosures for thermal-magnetic motor circuit-breakers GV2-M

Application	Type	Degree of protection of enclosure	Reference	Weight kg
For motor circuit-breakers with or without accessories (maximum of 1 accessory on right and left for GV2-MC● and GV2-MP01 or MP02, 1 accessory only on right for GV2-MP03 and GV2-MP04)	Surface mounting, double insulated with protective conductor. Sealable cover.	IP 41	GV2-MC01	0.290
		IP 55	GV2-MC02	0.300
		IP 55 for temperature < + 5 °C	GV2-MC03	0.300
	Flush mounting with protective conductor	IP 41 (front face)	GV2-MP01	0.115
		IP 41 (reduced flush mounting)	GV2-MP03	0.115
		IP 55 (front face)	GV2-MP02	0.130
		IP 55 (reduced flush mounting)	GV2-MP04	0.130

Front plate

Application	Degree of protection	Reference	Weight kg
For direct control, through a panel, of a GV2-M mounted in an enclosure	IP 55	GV2-CP21	0.800

Accessories common to all enclosures (to be ordered separately)

Description		Sold in lots of	Unit reference	Weight kg	
Padlocking device (1) for GV2-M operator (padlocking is only possible in the "O" position)		1	GV2-V01	0.075	
Mushroom head "stop" pushbutton (1) Ø 40 mm, red	Spring return	1	GV2-K01	0.052	
	Latching	Key release (key n° 455)	1	GV2-K02	0.095
		Turn to release	1	GV2-K03	0.052
Sealing kit	For enclosures and front plate	IP 55	10	GV2-E01	0.012
		IP 55 for temperature < + 5 °C	10	GV2-E02	0.012
Neutral link		10	GV2-N01	0.030	
Description	Voltage V	Colour	Sold in lots of	Reference	Weight kg
Neon indicator light	110	Green	10	GV2-SN13	0.019
		Red	10	GV2-SN14	0.019
		Orange	10	GV2-SN15	0.019
		Clear	10	GV2-SN17	0.019
	220/240	Green	10	GV2-SN23	0.019
		Red	10	GV2-SN24	0.019
		Orange	10	GV2-SN25	0.019
		Clear	10	GV2-SN27	0.019
	380/440	Green	10	GV2-SN33	0.019
		Red	10	GV2-SN34	0.019
		Orange	10	GV2-SN35	0.019
		Clear	10	GV2-SN37	0.019

(1) Supplied with IP 55 sealing kit.

Motor circuit-breakers

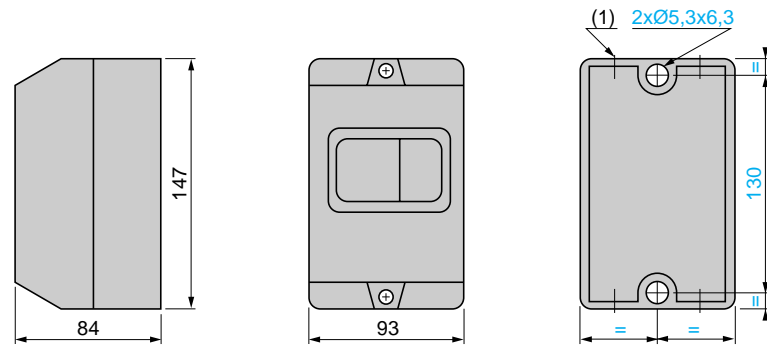
Thermal-magnetic motor circuit-breakers types GV2-M and GV2-P

Dimensions, mounting

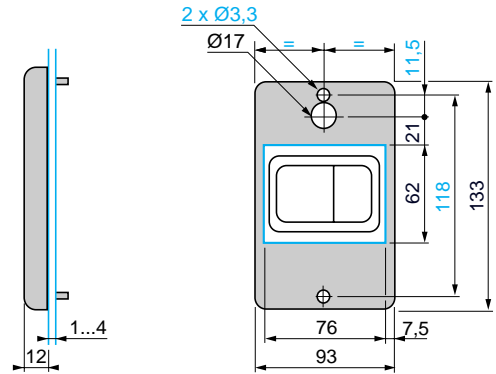
References :
pages : 91019/2 to 91019/5

1

Surface mounting enclosure GV2-MC0●



Front plate GV2-CP21

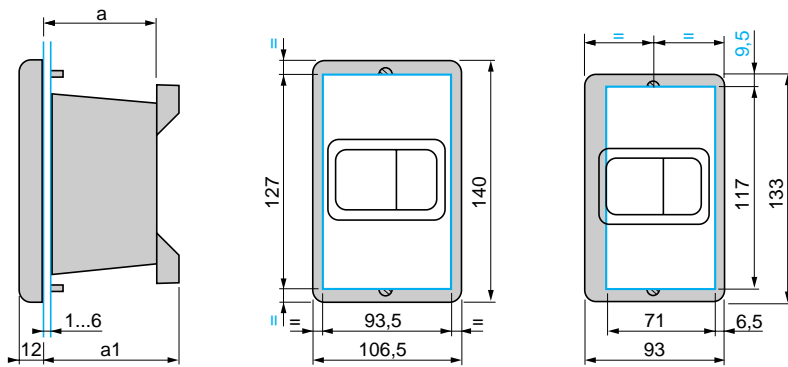


(1) 4 knock-outs for 16 mm plastic cable glands or n° 16 conduit

Flush mounting enclosure GV2-MP0● (bracket cut-out) GV2-MP0●

GV2-MP01, MP02

GV2-MP03, MP04



GV2-	a	a1
MP01, MP02	71	-
MP03, MP04	71	86

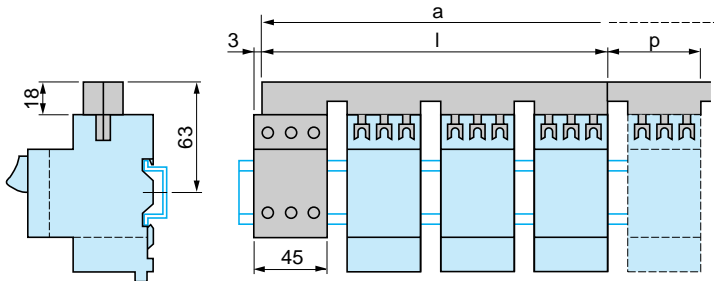
Motor circuit-breakers

Thermal-magnetic motor circuit-breakers types GV2-M and GV2-P

Dimensions, mounting

References :
pages 1/84 to 1/90

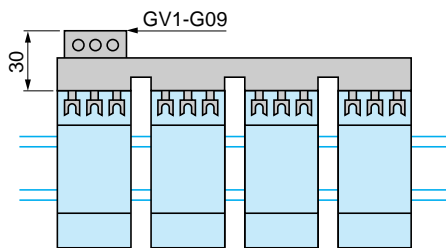
Sets of busbars GV1-G07, GV2-G01, GV2-G03, with terminal block GV2-G05



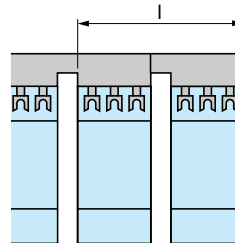
	l	p
GV1-G07 (4 x 54 mm)	206	54
GV2-G01 (4 x 45 mm)	179	45
GV2-G03 (4 x 45 mm)	260	72

	a			
No. of tap-offs	5	6	7	8
GV1-G07	260	314	368	422
GV2-G01	224	269	314	359
GV2-G03	332	404	476	548

Sets of busbars GV●-G0●
with terminal block GV1-G09

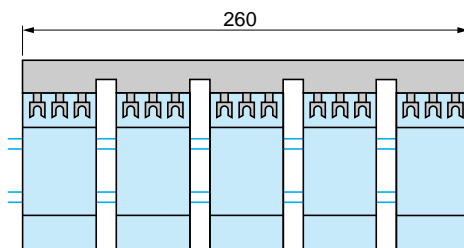


Sets of busbars GV1-G08, GV2-G02, GV2-G04



	l
GV1-G08 (2 x 54 mm)	98
GV2-G02 (2 x 45 mm)	89
GV2-G04 (2 x 72 mm)	116

Set of busbars GV2-G07



Set of busbars GV2-G06

