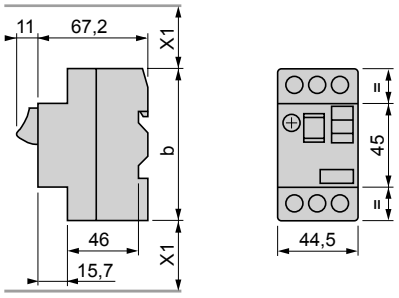
TeSys protection components
Thermal-magnetic motor circuit-breakers
GV2 ME and GV2 P

Dimensions

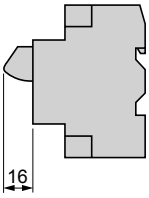
GV2 ME



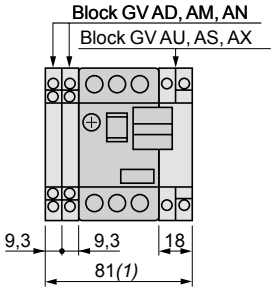
	b
GV2 ME●●	89
GV2 ME●●3	101

(1) Maximum
X1 Electrical clearance = 40 mm for Ue ≤ 690 V

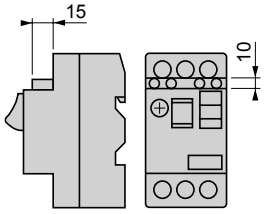
GV AX



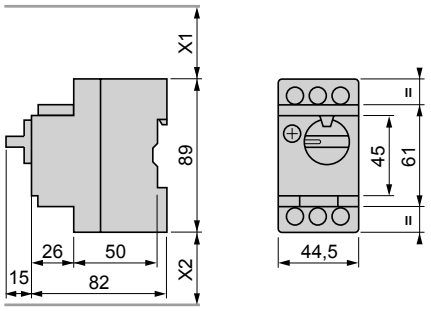
GV AD, AM, AN, AU, AS, AX



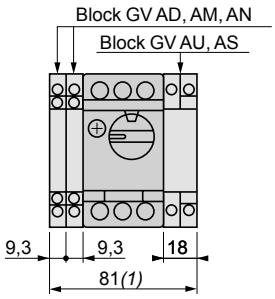
GV AE



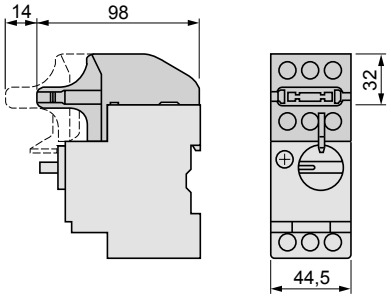
GV2 P



GV AD, AM, AN, AU, AS

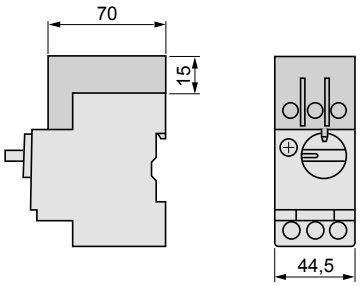


GV2 AK00



(1) Maximum
X1 Electrical clearance = 40 mm for Ue ≤ 415 V, or 80 mm for Ue = 440 V, or 120 mm for Ue = 500 and 690 V
X2 = 40 mm

GV2 GH7

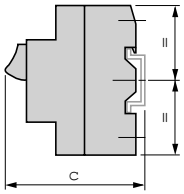


TeSys protection components
Thermal-magnetic motor circuit-breakers
GV2 ME and GV2 P

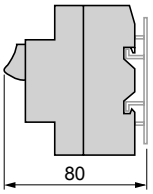
Mounting

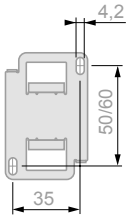
GV2 ME

On 35 mm ⊥ rail

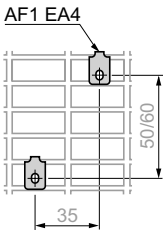


On panel with adapter plate GV2 AF02

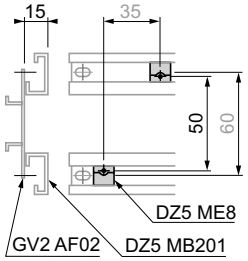




On pre-slotted plate AM1 PA



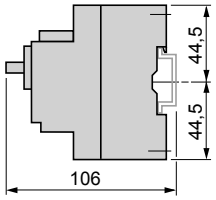
On rails DZ5 MB201



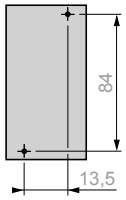
c = 78.5 on AM1 DP200 (35 x 7.5)
c = 86 on AM1 DE200, ED200 (35 x 15)

GV2 P

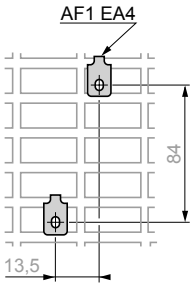
On rail AM1 DE200, ED200 (35 x 15)



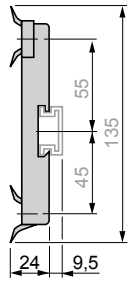
Panel mounted

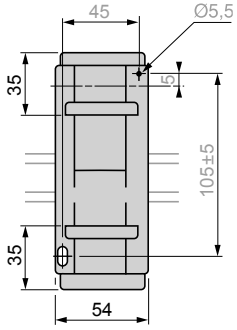


On pre-slotted plate AM1 PA



Adapter plate GK2 AF01

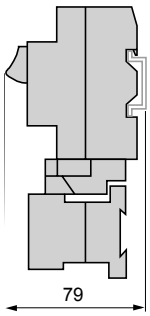


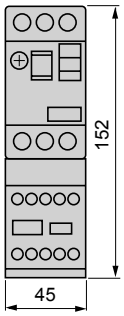


Dimensions

GV2 AF01

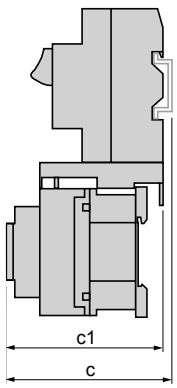
Combination GV2 ME + TeSys K contactor



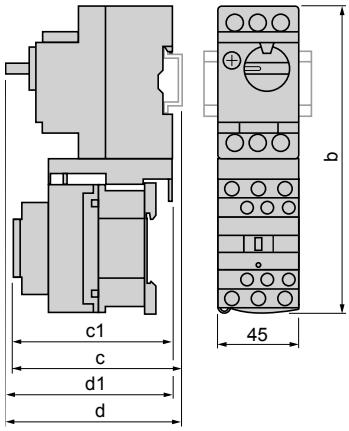


GV2 AF3

Combination GV2 ME + TeSys D contactor



Combination GV2 P + TeSys D contactor



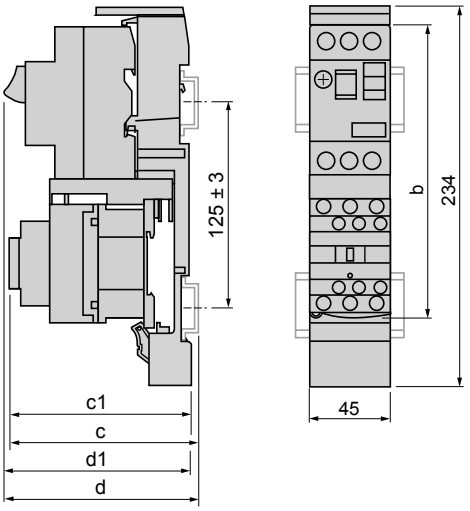
GV2 ME +	LC1 D09 …D18	LC1 D25 and D32
b	176.4	186.8
c1	94.1	100.4
c	99.6	105.9

GV2 P +	LC1 D09 …D18	LC1 D25 and D32
b	176.4	186.8
c1	100.1	106.4
c	105.6	111.9
d1	95	95
d	100.5	100.5

Dimensions *(continued)*

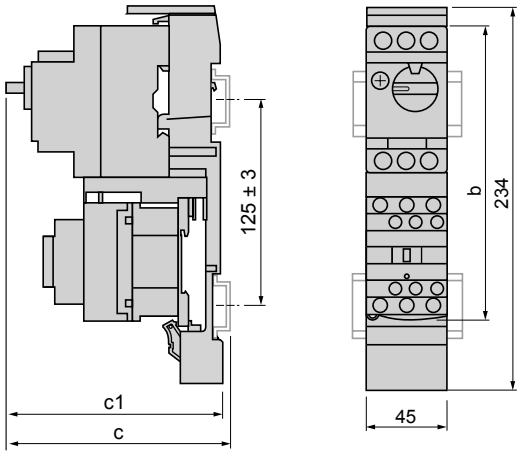
GV2 AF4 + LAD 311

Combination GV2 ME + TeSys D contactor



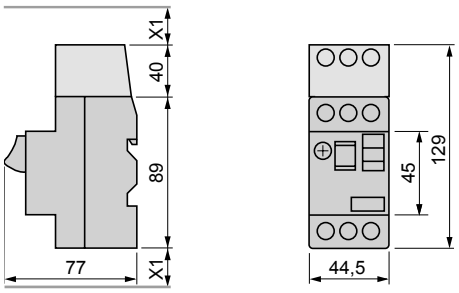
GV2 ME +	LC1 D09…D18	LC1 D25 and D32
b	176.4	186.8
c1	103.1	136.4
c	135.6	141.9
d1	107	107
d	112.5	112.5

Combination GV2 P + TeSys D contactor



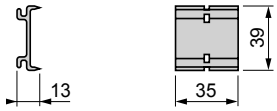
GV2 P +	LC1 D09…D18	LC1 D25 and D32
b	176.4	186.8
c1	136.5	142.4
c	141.6	147.9

GV2 ME + GV1 L3 (current limiter)



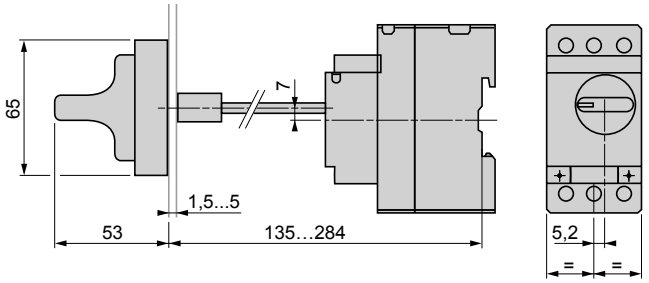
X1 = 10 mm for Ue = 230 V
or 30 mm for 230 V < Ue ≤ 690 V

7.5 mm height compensation plate GV1 F03

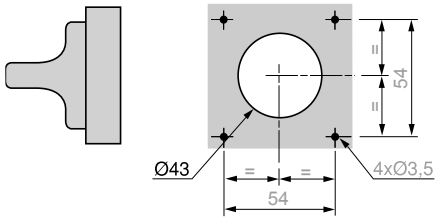


Mounting

Mounting of external operator GV2 AP01 or GV2 AP02 for motor circuit-breakers GV2 P

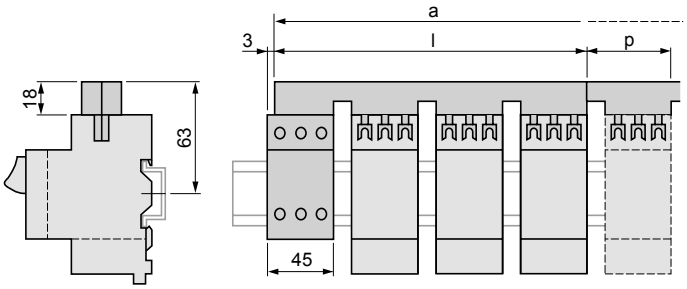


Door cut-out



GV2 ME, GV2 P

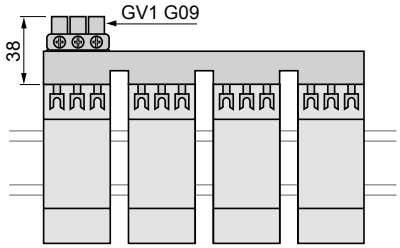
Sets of busbars GV2 G445, GV2 G454, GV2 G472, with terminal block GV2 G05



	l	p
GV2 G445 (4 x 45 mm)	179	45
GV2 G454 (4 x 54 mm)	206	54
GV2 G472 (4 x 72 mm)	260	72

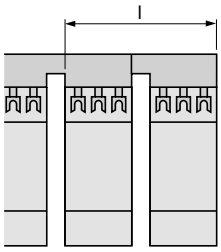
	a			
Number of tap-offs	**5**	**6**	**7**	**8**
GV2 G445	224	269	314	359
GV2 G454	260	314	368	422
GV2 G472	332	404	476	548

Sets of busbars GV2 G●●● with terminal block GV1 G09

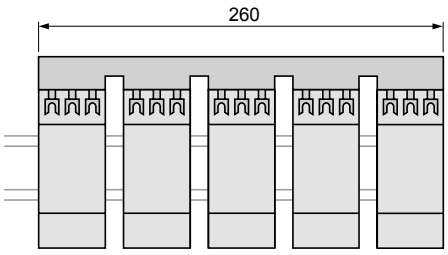


	l
GV2 G245 (2 x 45 mm)	89
GV2 G254 (2 x 54 mm)	98
GV2 G272 (2 x 72 mm)	116

Sets of busbars GV2 G245, GV2 G254, GV2 G272

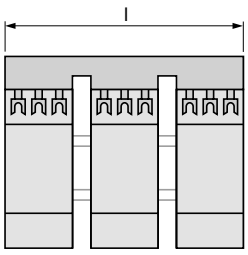


Sets of busbars GV2 G554



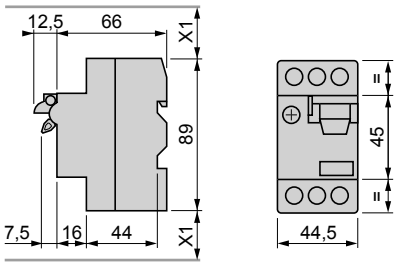
	l
GV2 G345 (3 x 45 mm)	134
GV2 G354 (3 x 54 mm)	152

Sets of busbars GV2 G345 and GV2 G354



GV2 RT

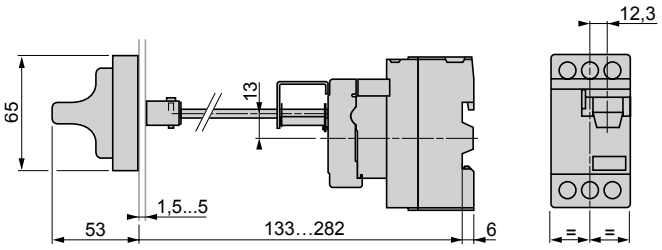
Dimensions



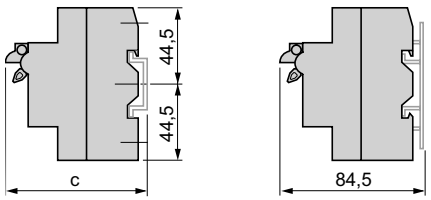
X1: Electrical clearance = 40 mm for Ue < 690 V

Mounting

Mounting of external operator GV2 AP03

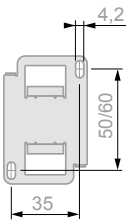


On 35 mm ⎓ rail

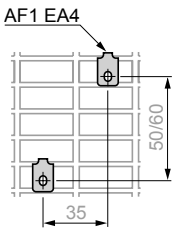


c = 80 on AM1 DP200 (35 x 7.5)
c = 88 on AM1 DE200, ED200 (35 x 15)

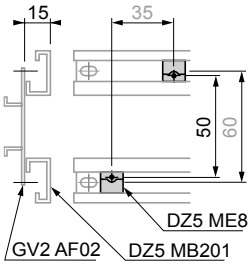
On panel with adapter plate GV2 AF02



On pre-slotted plate AM1 PA

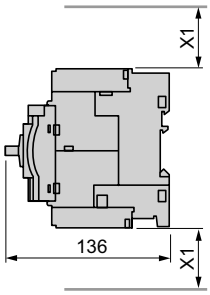


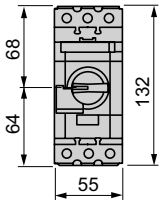
On rails DZ5 MB

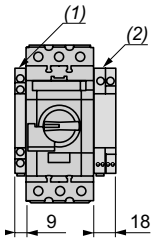


GV3 P

Dimensions







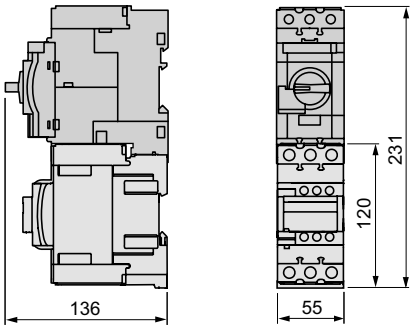
X1 = Electrical clearance (ISC max)
40 mm for Ue ⩽ 500 V, 50 mm for Ue ⩽ 690 V

(1) Blocks GV AN●● , GV AD●● and GV AM11
(2) Blocks GV3 AU●● and GV3 AS●●

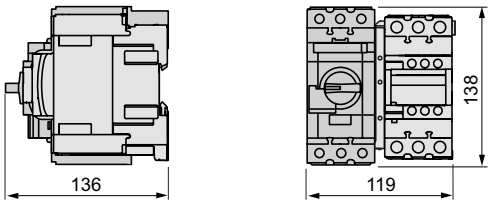
***Note:** Leave a gap of 9 mm between 2 circuit-breakers: either an empty space or side-mounting add-on contact blocks.*
Horizontal mounting is possible up to 40 °C

Mounting

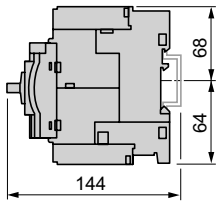
Mounting with TeSys contactor LC1 D40A…D65A



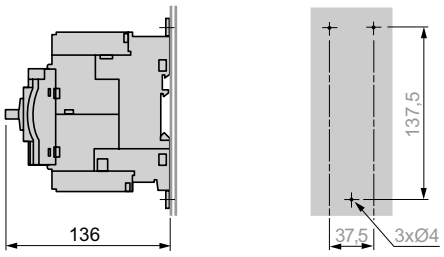
Side by side mounting with TeSys contactor LC1 D40A…D65A (S-shape busbar system GV3 S)



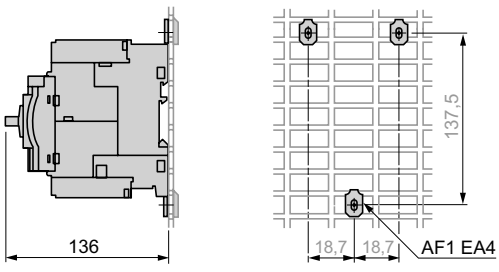
Mounting on rail AM1 DE200 or AM1 ED201



Panel mounting, using M4 screws



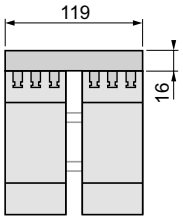
Mounting on pre-slotted plate AM1 PA



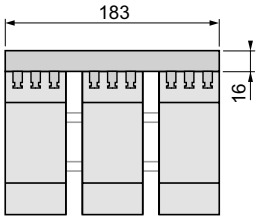
GV3 P *(continued)*

Busbar systems

Set of busbars GV3 G264



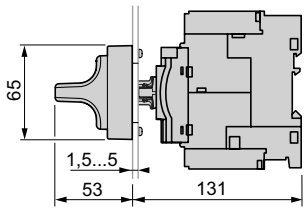
Set of busbars GV3 G364



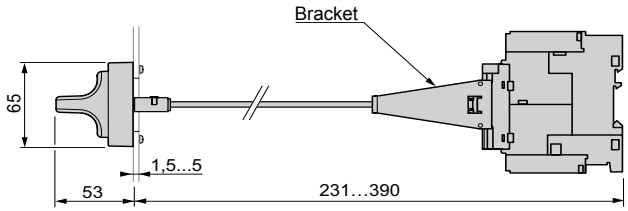
Note: *Leave a space of 9 mm between 2 circuit-breakers: either an empty space or side-mounting add-on contact blocks.*
Horizontal mounting is possible up to 40 °C.

Mounting of external operator GV3 AP01 or GV3 AP02

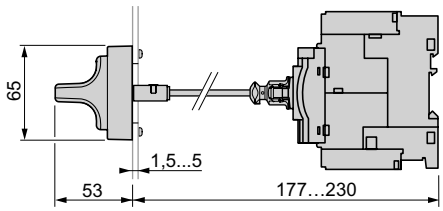
Depth 131 mm



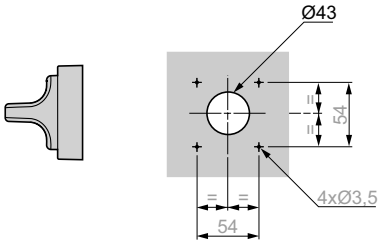
Depth 231 to 390 mm



Depth 177 to 230 mm

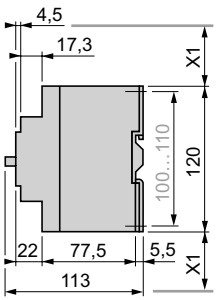


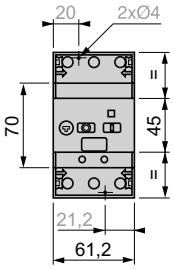
Door cut-out

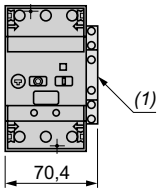


GV3 ME80

Dimensions





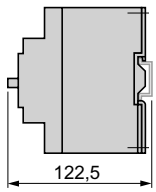


X1 = Electrical clearance (ISC max)
40 mm for Ue ⩽ 500 V, 50 mm for Ue ⩽ 690 V

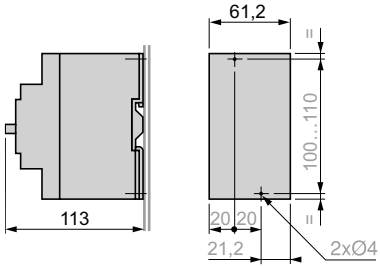
(1) Blocks GV3 A01…A07.

Mounting

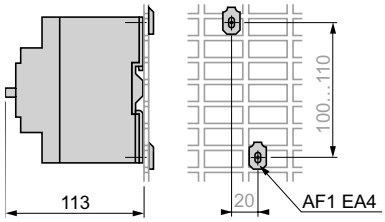
Mounting on rail AM1 DE200 or AM1 ED201



Panel mounting, using M4 screws

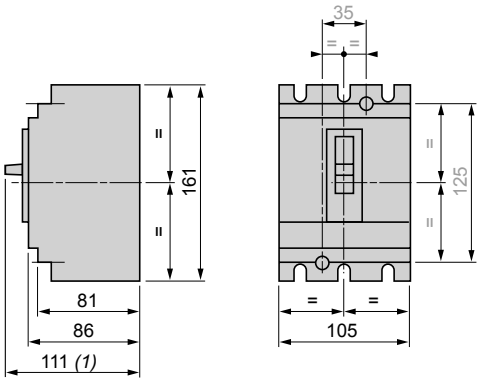


Mounting on pre-slotted plate AM1 PA



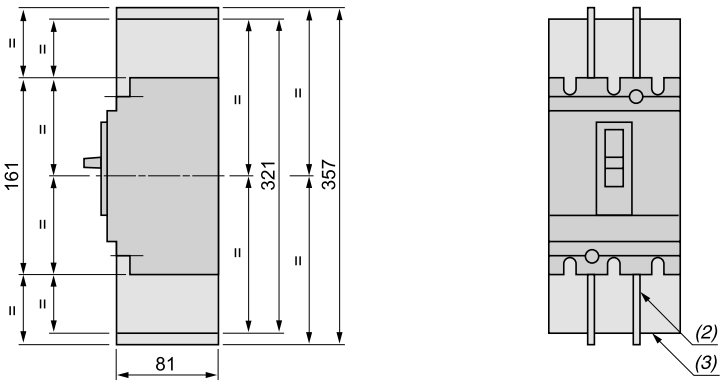
GV7 R

Dimensions



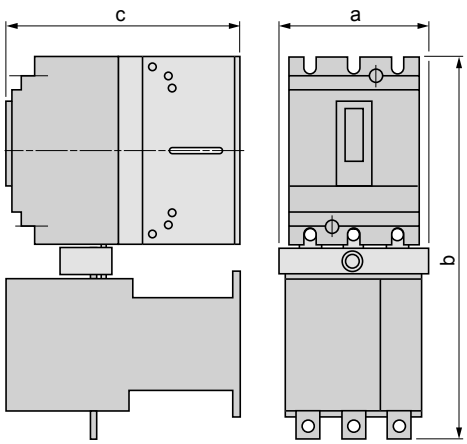
*(1) 126 for **GV7 R●220.***

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



*(2) Phase barriers: **GV7 AC04***
*(3) Terminal shields: **GV7 AC01***

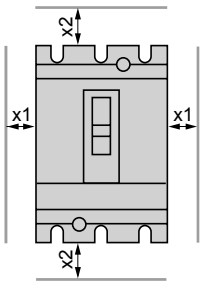
Combination of GV7 R and TeSys contactor LC1 F with kit GV7 AC0●



	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

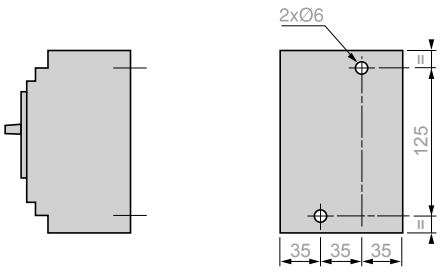
Minimum electrical clearance



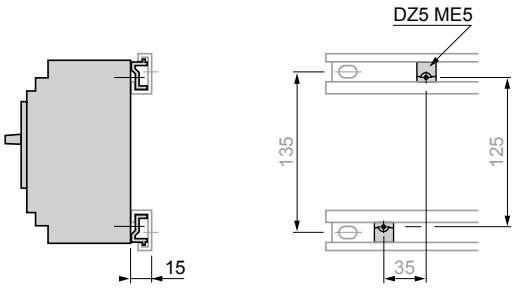
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	U ⩽ 440 V	5	35
	440 V < U < 600 V	10	35
	U ⩾ 600 V	20	35

GV7 R

Panel mounting

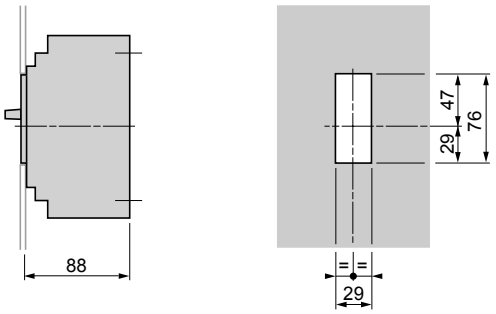


Mounting on 2 mounting rails DZ5 MB201

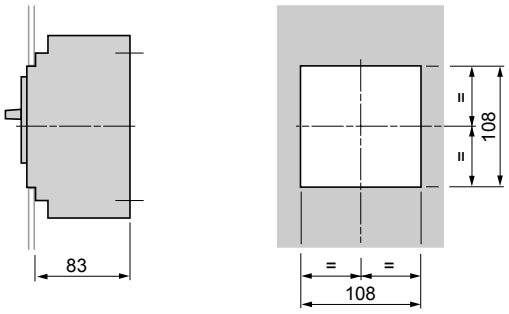


3

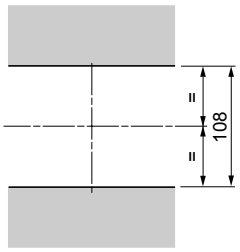
Flush-mounting



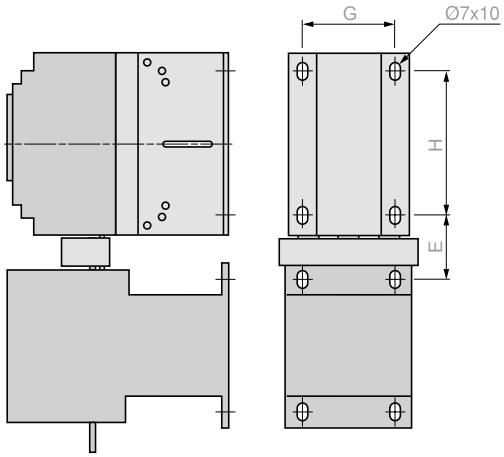
1 circuit-breaker GV7 R



n circuit-breakers GV7 R side by side



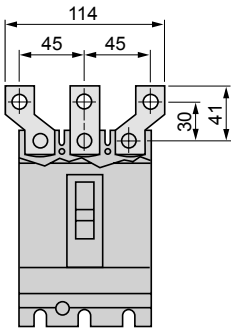
Combination of GV7 R and TeSys contactor LC1 F with kit GV7 AC0●



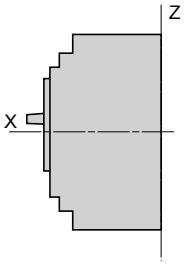
	E	G	H
GV7 R + LC1 F115 + GV7 AC06	44	85	120
GV7 R + LC1 F150 + GV7 AC06	46	85	120
GV7 R + LC1 F185 + GV7 AC06	48	85	120
GV7 R + LC1 F225 + GV7 AC07	57	85	120
GV7 R + LC1 F265 + GV7 AC07	60	85	120

GV7 R

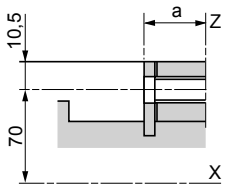
Spreaders GV7 AC03



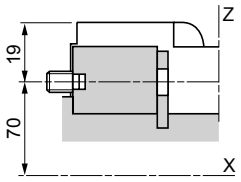
Connection



Smooth terminals

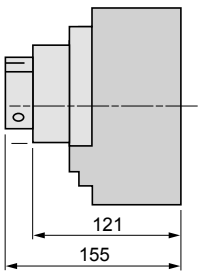


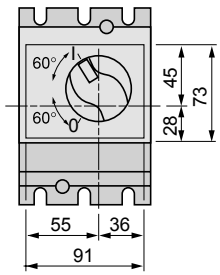
Connectors



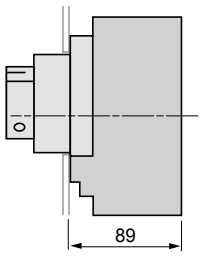
	a
GV7 R●40…R●150	19.5
GV7 R●220	21.5

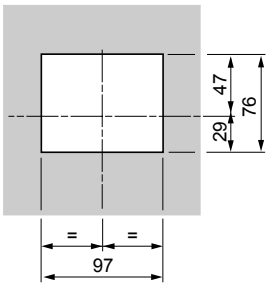
Direct rotary handle GV7 AP03, GV7 AP04



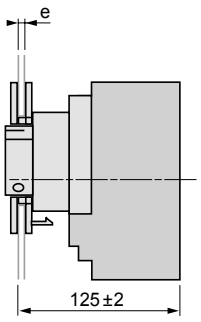


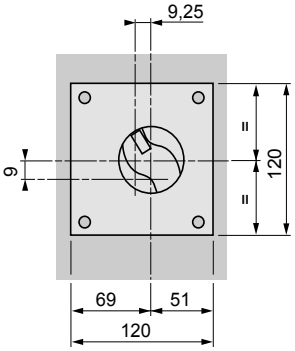
Flush-mounting



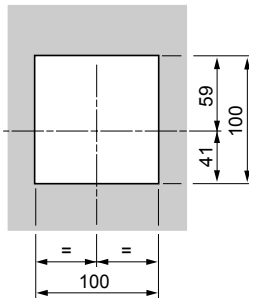


Direct rotary handle GV7 AP03 or GV7 AP04 with conversion accessory GV7 AP05

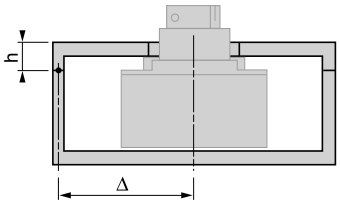




Front face cut-out



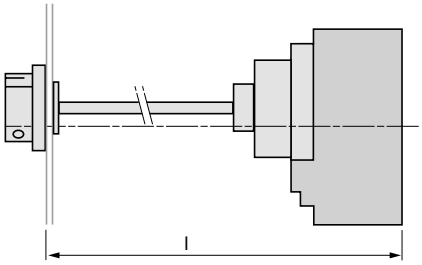
Enclosure viewed from top

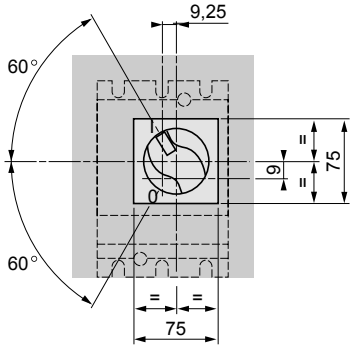


Door cut-outs require a minimum distance between the centre of the circuit-breaker and the door hinge point Δ ≥ 100 + (h x 5)

e = 1 to 3 max

Extended rotary handle GV7 AP01, GV7 AP02



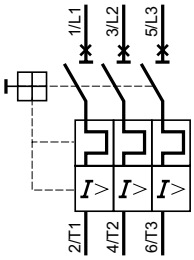


l : 185 min, 600 max
*The shaft of the extended rotary handle **GV7 AP01** or **GV7 AP02** must be cut to length: l – 126 mm.*

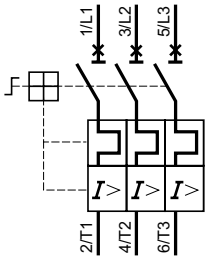
TeSys protection components
Thermal-magnetic motor circuit-breakers
GV2 ME, GV2 P, GV3 P and GV2 RT

Schemes

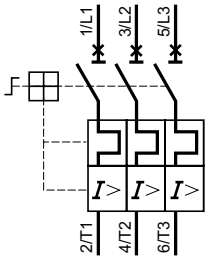
GV2 ME●● and GV2 RT



GV2 P●●

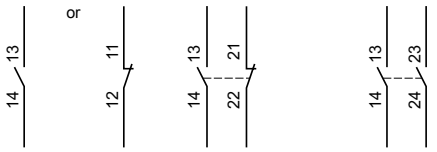


GV3 P●●



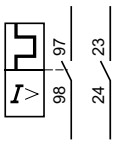
Front mounting add-on contact blocks
Instantaneous auxiliary contacts

GV AE1

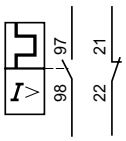


Front mounting add-on contact blocks
Instantaneous auxiliary contacts and fault signalling contacts

GV AED101

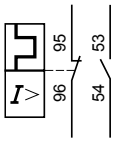


GV AED011

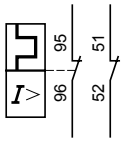


Side mounting add-on contact blocks
Instantaneous auxiliary contacts and fault signalling contacts

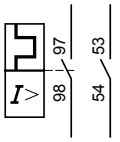
GV AD0110



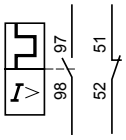
GV AD0101



GV AD1010

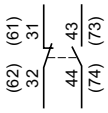


GV AD1001

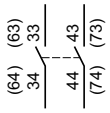


Instantaneous auxiliary contacts

GV AN11

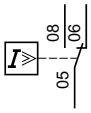


GV AN20



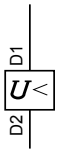
Short-circuit signalling contacts

GV AM11

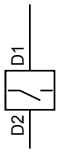


Voltage trips

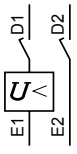
GV AU●●●



GV AS●●●

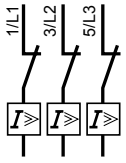


GV AX●●●

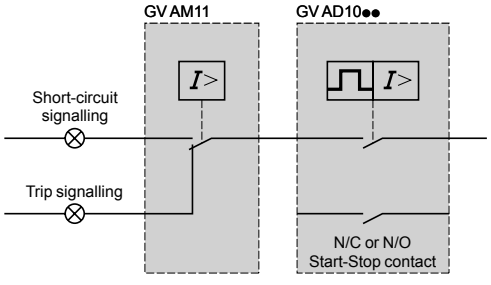


Current limiter

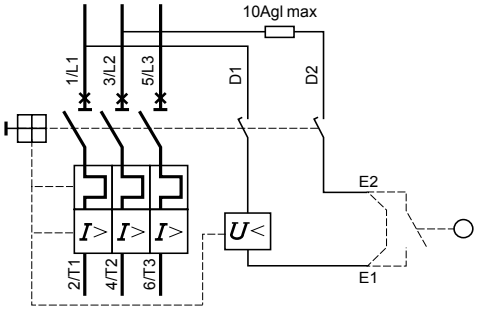
GV1 L3



Use of fault signalling contact and short-circuit signalling contact



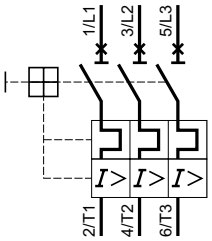
Connection of undervoltage trip for dangerous machines (conforming to INRS) on GV2 ME only



TeSys protection components
Thermal-magnetic motor circuit-breakers
GV3 ME80 and GV7 R

Schemes

Motor circuit-breakers
GV3 ME80



Auxiliary contact block modules

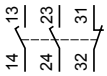
GV3 A01



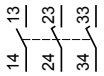
GV3 A02



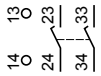
GV3 A03



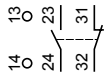
GV3 A05



GV3 A06

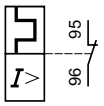


GV3 A07

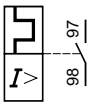


Fault signalling contacts

GV3 A08



GV3 A09



Voltage trips

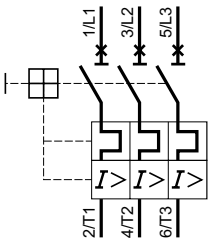
GV3 B



GV3 D



Motor circuit-breakers
GV7 R



Add-on auxiliary contacts according to their location *(1)*
GV7 AE11, GV7 AB11

Location 1
C/O contact



Location 2
Trip indication



Location 3
Electrical fault indication



Location 4
C/O contact



A self-adhesive label, supplied with the contact, can be affixed to the front face of the circuit-breaker to allow personalised marking according to the function of the contact or contacts.

(1) See pages 3/20 and 3/61.

Electric trips

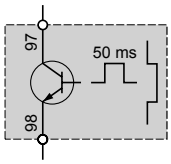
GV7 AU●●●



GV7 AS●●●

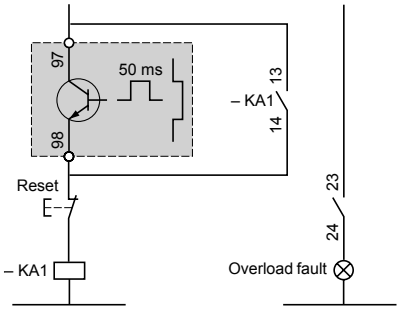


GV7 AD111, AD112



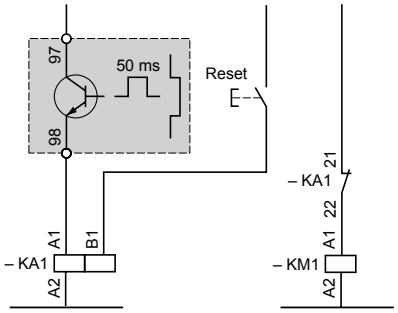
Recommended application schemes GV7 AD111, AD112

Fault indication



Associated components
KA1: CA2 KN or CAD N

Contactor opening on overload

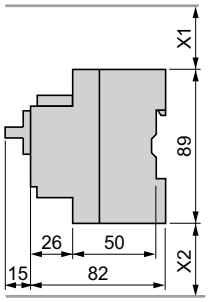


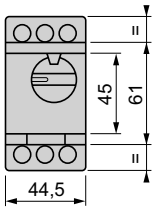
Associated components
KA1: CAD + LAD 6K10 or RHK
KM1: LC1 D or LC1 F

TeSys protection components
Magnetic motor circuit-breakers
GV2 L and GV2 LE

GV2 L

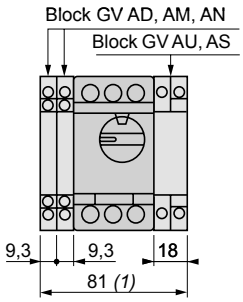
Dimensions





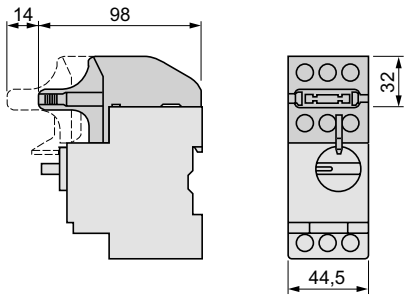
X1 Electrical clearance = 40 mm for Ue ≤ 415 V, or 80 mm for Ue = 440 V, or 120 mm for Ue = 500 and 690 V.
X2 = 40 mm.

GV AD, AM, AN, AU, AS



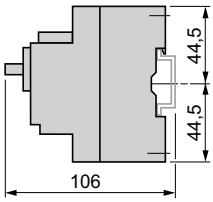
(1) Maximum

GV2 AK00

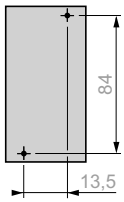


Mounting

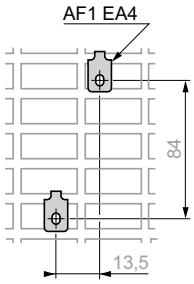
On rail AM1 DE200, AM1 ED200 (35 x 15)



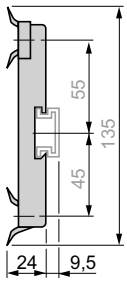
Panel mounted

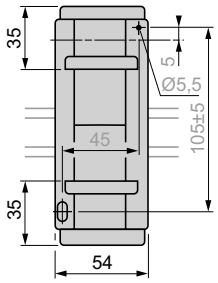


On pre-slotted mounting plate AM1 PA



Adapter plate GK2 AF01



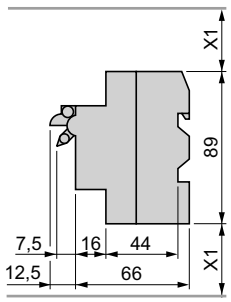


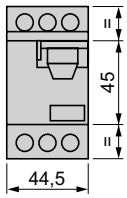
7.5 mm height compensation plate GV1 F03



GV2 LE

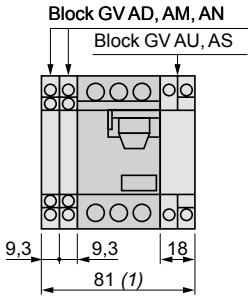
Dimensions





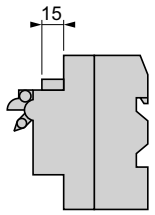
X1 Electrical clearance = 40 mm for Ue ≤ 690 V.

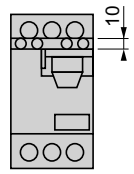
GV AD, AM, AN, AU, AS



(1) Maximum

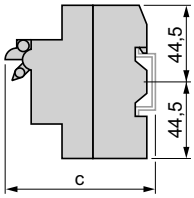
GV AE





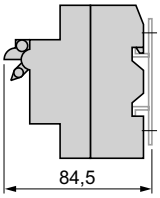
Mounting

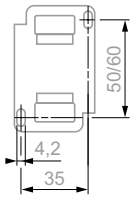
On 35 mm ⎓ rail



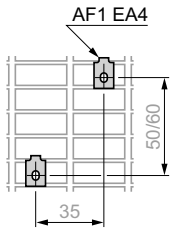
c = 80 on AM1 DP200 (35 x 7.5) and 88 on AM1 DE200, ED200 (35 x15)

On panel with adapter plate GV2 AF02

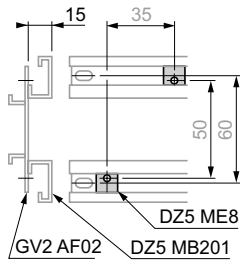




On pre-slotted plate AM1 PA

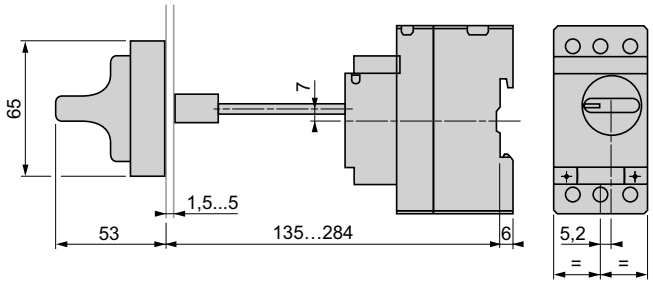


On rails DZ5 MB201

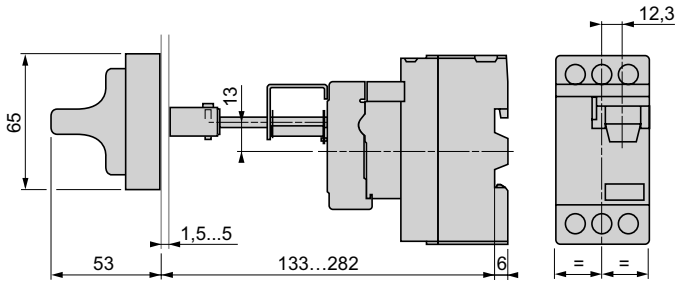


GV2 L and GV2 LE

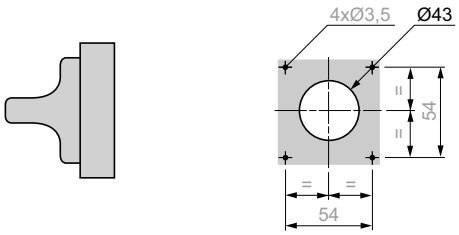
Mounting of external operator GV2 AP01 or GV2 AP02 for GV2 L



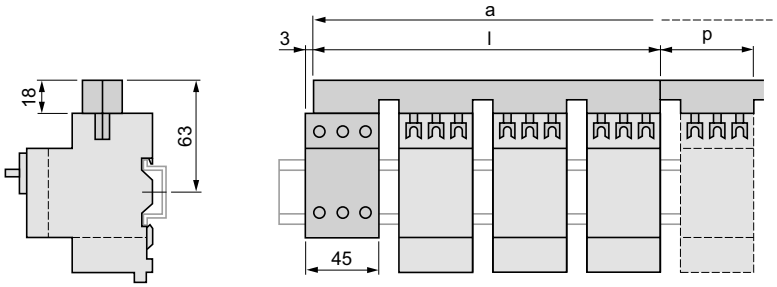
Mounting of external operator GV2 AP03 for GV2 LE



Door cut-out



Sets of busbars GV2 G445, GV2 G454, GV2 G472, with terminal block GV2 G05

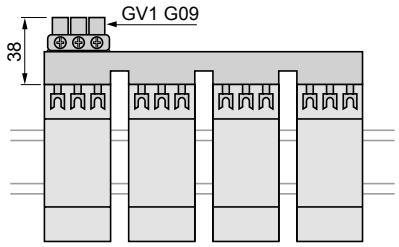


	l	p
GV2 G445 (4 x 45 mm)	179	45
GV2 G454 (4 x 54 mm)	206	54
GV2 G472 (4 x 72 mm)	260	72

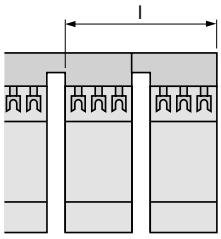
	a			
Number of tap-offs	**5**	**6**	**7**	**8**
GV2 G445	224	269	314	359
GV2 G454	260	314	368	422
GV2 G472	332	404	476	548

Sets of busbars for GV2 L and GV2 LE

Sets of busbars GV2 G●●● with term. block GV1 G09

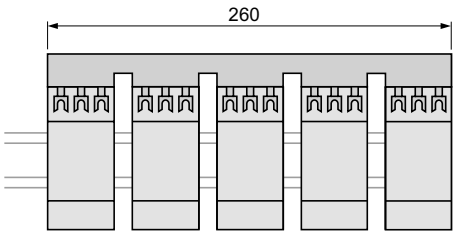


Sets of busbars GV2 G245, GV2 G254, GV2 GR272

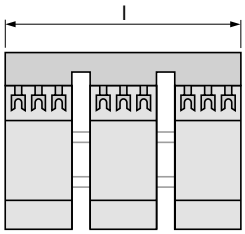


	l
GV2 G245 (2 x 45 mm)	89
GV2 G254 (2 x 54 mm)	98
GV2 G272 (2 x 72 mm)	116

Set of busbars GV2 G554



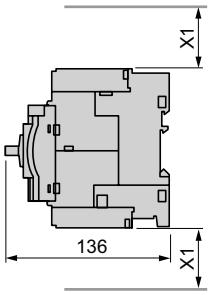
Sets of busbars GV2 G345 and GV2 G354

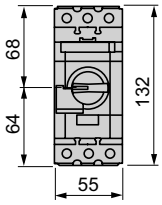


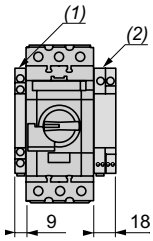
	l
GV2 G345 (3 x 45 mm)	134
GV2 G354 (3 x 54 mm)	152

GV3 L

Dimensions







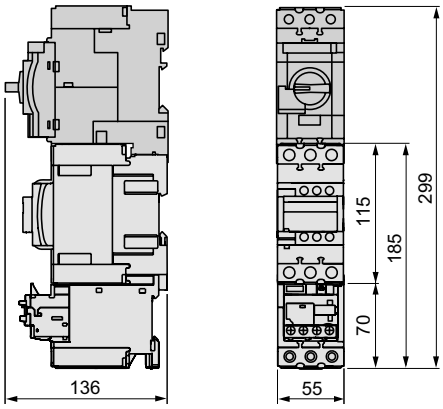
X1 = Electrical clearance (ISC max)
40 mm for Ue ⩽ 500 V, 50 mm for Ue ⩽ 690 V

(1) Blocks GV AN●● , GV AD●● and GV AM11
(2) Blocks GV3 AU●● and GV3 AS●●

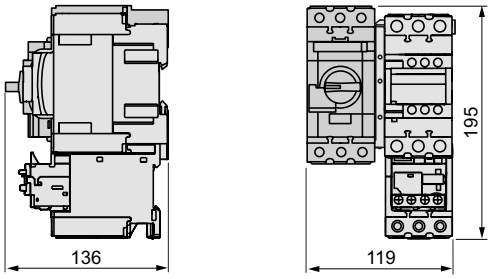
Note: *Leave a space of 9 mm between 2 circuit-breakers: either an empty space or side-mounting add-on contact blocks.*
Side by side mounting is possible up to 40 °C.

Mounting

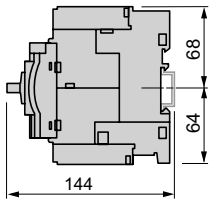
Mounting with Tesys contactor LC1 D40A…D65A and relay LR3 D313…365



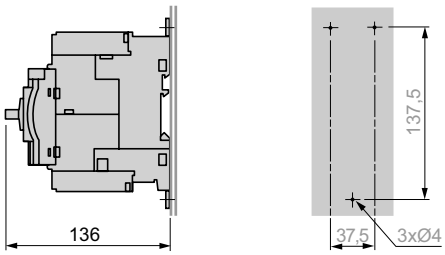
Side by side mounting with Tesys contactor LC1 D40A…D65A (S-shape busbar system GV3 S)



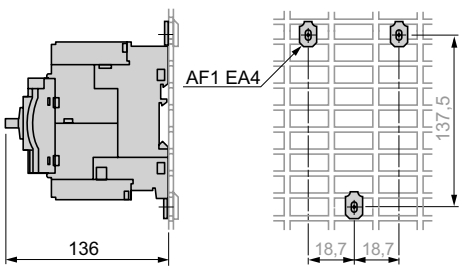
Mounting on rail AM1 DE200 or AM1 ED201



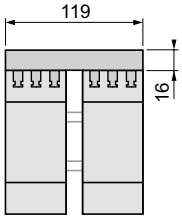
Panel mounting, using M4 screws



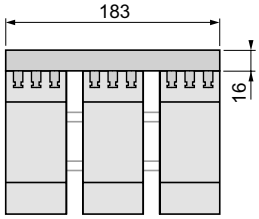
Mounting on pre-slotted plate AM1 PA



Set of busbars GV3 G264



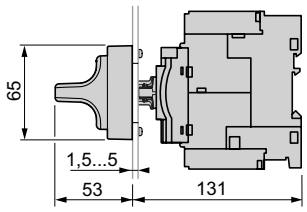
Set of busbars GV3 G364



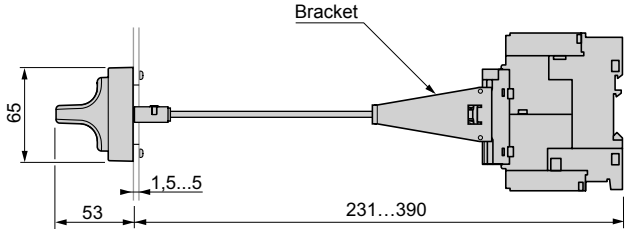
GV3 L *(continued)*

Mounting of external operator GV3 AP01 or GV3 AP02

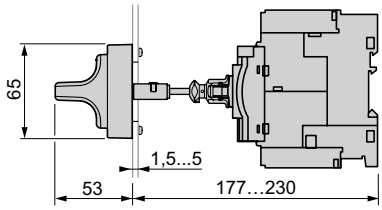
Depth 131 mm



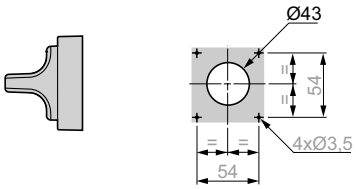
Depth 231 to 390 mm



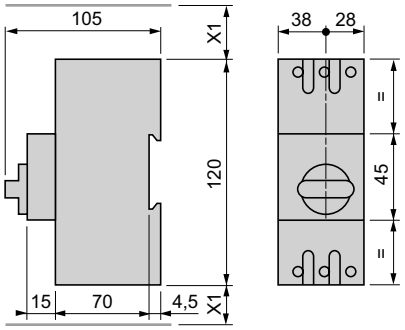
Depth 177 to 230 mm



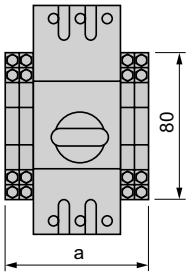
Door cut-out



GK3 EF80



GK3 EF80 + 4 GK2 AX

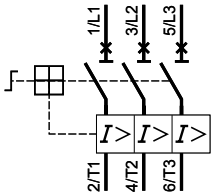


	Number of GK2 AX				
	0	1	2	3	4
a	66	74.8	83.5	92.5	101

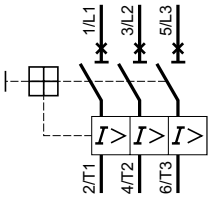
TeSys protection components
Magnetic motor circuit-breakers
GV2 L, GV2 LE, GV3 L and GK3 EF80

Magnetic motor circuit-breakers

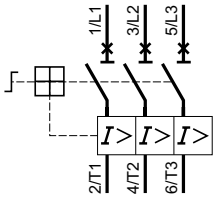
GV2 L●●



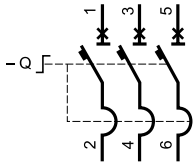
GV2 LE●●



GV3 L●●



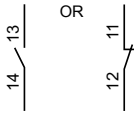
GK3 EF80



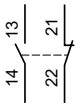
Accessories

Front mounting add-on contact blocks
Instantaneous auxiliary contacts

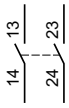
GV AE1



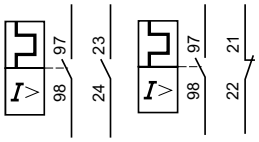
GV AE11



GV AE20

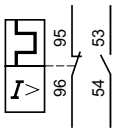


GV AED101 and GV AED011

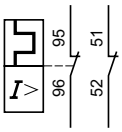


Side mounting add-on contact blocks
Instantaneous auxiliary contacts and fault signalling contacts

GV AD0110



GV AD0101



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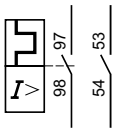
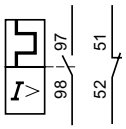
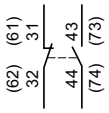


GV AD1001



Instantaneous auxiliary contacts

GV AN11



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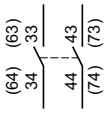
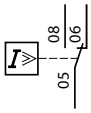


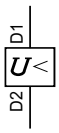
Short-circuit signalling contacts

GV AM11

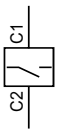


Voltage trips

GV AU●●●



GV AS●●●

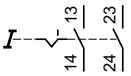


Start-Stop signalling contact blocks

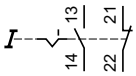
GK2 AX10



GK2 AX20



GK2 AX50

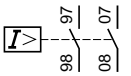


Fault signalling contact blocks

GK2 AX12



GK2 AX22



GK2 AX52

