

Telemecanique circuit-breakers
TeSys GV2 - GV3
A *stronger, safer*
and *long-term* connection



EverLink®

GV3 renews the TeSys circuit-breaker range

Simply Smart

More **ingenuity** and intelligence for continually improving **ease of use**.

Renowned for extensive experience in the development of motor starter solutions, **Telemecanique** renews its range of 9 to 65 A circuit-breakers.

Ingenuity and simplicity are the key words of this new range: thanks to its new **EverLink** power terminals, the new range of GV3 circuit-breakers assures **improved reliability of connections over time**. **EverLink** is designed to maintain a constant tightening force on the cables and assures a **strong, safe and long lasting connection in the most demanding environments...**

An enhanced and high performance offer

- 2 products: thermo-magnetic circuit-breakers GV3 P and magnetic circuit-breakers GV3 L.
- Control and protection of motors from 5.5 kW to 30 kW.
- IEC and UL 508 type E certification (GV3 P).
- Ring terminal product version designed for the asian market and specific applications.



This product is manufactured in conformity with the requirements of the RoHS (Restriction of Hazardous Substances) European Directive.

Increased security and protection

- High breaking capacity:
50 kA/400 V from 40 to 65 A and 100 kA/400 V from 9 to 32 A.
- 3-position, padlockable, rotary knob.
- Trip test button on front face.
- Sealable flap for protection of thermal setting.



Astute and versatile design

- Complete flexibility using add-on blocks that are common throughout the 0 to 65 A GV2-GV3 range.
- More compact, only 55 mm wide.
- Simple and secure terminal tightening using a 4 mm Allen key.
- Easier installation on Din Rail thanks to locking mechanism.

EverLink®: a strong, safe and long lasting power connection

EverLink®, the new patented terminal technology, assures une **permanent tightening quality** of the cable conductors. Even in the event of conductor creep*, the connection force on the cables is assured due to the spring effect of the power connectors.

The advantages of the EverLink® connection are:

- Reduced maintenance time, due to terminal re-tightening being no longer required.
- Safety of the connections, provided by the BTR screw and the 4 mm Allen key which enables a high tightening torque (5 Nm min.)
- Operator safety due to the IP20 protection against direct contact.

**Creep: deformation of the copper conductors over time leading to loss of tightness*



 **EverLink®**
Long lasting connection quality

A Schneider Electric patented technology

Possible to connect 2 cables of different cross-sectional areas.



Maintaining of cables assured by pressure of spring and crimping of conductor on the contact plate.



The spring compensates for cable conductor creep. Tightening force is assured.



Regular maintenance due to conductor creep no longer required

Telemecanique circuit-breakers

TeSys GV2 / GV3

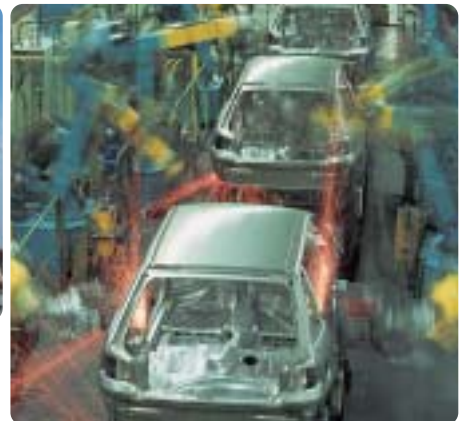
GV2 ME GV2 P



TeSys GV2

Pushbutton control (GV2 ME), rotary knob control (GV2 P)

Standard power ratings of 3-phase 50/60Hz motors in category AC-3	400/415 V	P	-	0.06 kW	0.09 kW	0.12...0.18 kW				
	Breaking capacity	Icu	-	> 100 kA	> 100 kA	> 100 kA				
	500 V	P	-	-	-	-				
	Breaking capacity	Icu	-	-	-	-				
690 V	P	-	-	-	-	0.37 kW				
	Breaking capacity	Icu	-	-	-	> 100 kA				
Setting range of thermal trips			0.1...0.16 A	0.16...0.25 A	0.25...0.40 A	0.40...0.63 A				
Magnetic tripping current			1.5 A	2.4 A	5 A	8 A				
Thermal-magnetic circuit-breaker with screw terminals			GV2 ME01	GV2 P01	GV2 ME02	GV2 P02	GV2 ME03	GV2 P03	GV2 ME04	GV2 P04
Thermal-magnetic circuit-breaker with spring terminals			GV2 ME013	-	GV2 ME023	-	GV2 ME033	-	GV2 ME043	-
Thermal-magnetic circuit-breaker with ring terminals			GV2 ME016	-	GV2 ME026	-	GV2 ME036	-	GV2 ME046	-



GV2 LE GV2 L



TeSys GV2

Rocker lever control (GV2 LE), rotary knob control (GV2 L)

Standard power ratings of 3-phase 50/60Hz motors in category AC-3	400/415 V	P	0.06...0.09 kW	0.12...0.18 kW		
	Breaking capacity	Icu	> 100 kA	> 100 kA		
	500 V	P	-	-		
	Breaking capacity	Icu	-	-		
690 V	P	-	-	0.37 kW		
	Breaking capacity	Icu	-	> 100 kA		
Magnetic protection rating			0.4 A	0.63 A		
Tripping current I _d +/- 20%			5 A	8 A		
Magnetic circuit-breaker with screw terminals			GV2 LE03	GV2 L03	GV2 LE04	GV2 L04



TeSys GV3

Standard power ratings of 3-phase 50/60Hz motors in category AC-3	400/415 V	P
	Breaking capacity	Icu
	500 V	P
	Breaking capacity	Icu
	690 V	P
	Breaking capacity	Icu

Setting range of thermal trips

Magnetic tripping current

EverLink[®] terminal thermal-magnetic circuit-breaker

Ring terminals thermal-magnetic circuit-breaker

0.25 kW > 100 kA -	0.37...0.55 kW > 100 kA 0.37...0.75 kW > 100 kA	0.75 kW > 100 kA 1.1 kW > 100 kA	1.1...1.5 kW > 100 kA 1.5...2.2 kW > 100 kA	2.2 kW > 100 kA 3 kW 50 kA	3...4 kW > 100 kA 4...5.5 kW 10 kA 50 kA						
0.55 kW > 100 kA	0.75...1.1 kW > 100 kA	1.5 kW 3 kA 8 kA	2.2...3 kW 3 kA 8 kA	4 kW 3 kA 6 kA	5.5...7.5 kW 3 kA 6 kA						
0.63...1 A 13 A	1...1.6 A 22.5 A	1.6...2.5 A 33.5 A	2.5...4 A 51 A	4...6.3 A 78 A	6...10 A 138 A						
GV2 ME05 GV2 ME053 GV2 ME056	GV2 P05 - -	GV2 ME06 GV2 ME063 GV2 ME066	GV2 P06 - -	GV2 ME07 GV2 ME073 GV2 ME076	GV2 P07 - -	GV2 ME08 GV2 ME083 GV2 ME086	GV2 P08 - -	GV2 ME10 GV2 ME103 GV2 ME106	GV2 P10 - -	GV2 ME14 GV2 ME143 GV2 ME146	GV2 P14 - -

GV3ME thermal-magnetic circuit-breaker substitution table

Power, 400 V	Range to substitute	I _r	I _{cu} / 400 V	Substitution range	I _r	I _{cu} / 400 V
0.55 kW	GV3ME06	1...1.6 A	100 kA	GV2P06	1...1.6 A	>100 kA
0.75 kW	GV3ME07	1.6...2.5 A	100 kA	GV2P07	1.6...2.5 A	>100 kA
1.5 kW	GV3ME08	2.5...4 A	100 kA	GV2P08	2.5...4 A	>100 kA
2.2 kW	GV3ME10	4...6 A	100 kA	GV2P10	4...6 A	>100 kA
4 kW	GV3ME14	6...10 A	100 kA	GV2P14	6...10 A	>100 kA
5.5 kW	GV3ME20	10...16 A	100 kA	GV3P13	9...13 A	100 kA
7.5 kW	GV3ME20	10...16 A	100 kA	GV3P18	12...18 A	100 kA
11 kW	GV3ME25	16...25 A	100 kA	GV3P25	17...25 A	100 kA
15 kW	GV3ME40	25...40 A	35 kA	GV3P32	23...32 A	100 kA
18.5 kW	GV3ME40	25...40 A	35 kA	GV3P40	30...40 A	50 kA
22 kW	GV3ME63	40...63 A	35 kA	GV3P50	37...50 A	50 kA
30 kW	GV3ME63	40...63 A	35 kA	GV3P65	48...65 A	50 kA

GK3EF magnetic circuit-breaker substitution table

Power, 400 V	Range to substitute	I _{cu} / 400 V	Substitution range	I _e	I _{cu} / 400 V
11 kW	GK3EF40	50 kA	GV3L25	25 A	100 kA
15 kW	GK3EF40	50 kA	GV3L32	32 A	100 kA
18.5 kW	GK3EF40	50 kA	GV3L40	40 A	50 kA
22 kW	GK3EF65	35 kA	GV3L50	50 A	50 kA
30 kW	GK3EF65	35 kA	GV3L65	65 A	50 kA

0.25...0.37 kW > 100 kA	0.55 kW > 100 kA	0.75 kW > 100 kA	1.1...1.5 kW > 100 kA	2.2 kW > 100 kA	3...4 kW > 100 kA
0.37 kW -	0.55...0.75 kW > 100 kA	1.1 kW > 100 kA	1.5...2.2 kW > 100 kA	3 kW 50 kA	4...5.5 kW > 100 kA
0.55...0.75 kW > 100 kA	1.1 kW > 100 kA	1.5 kW 3 kA 4 kA	3 kW 3 kA 4 kA	4 kW 3 kA 4 kA	5.5...7.5 kW 3 kA 4 kA
1 A 13 A	1.6 A 22.5 A	2.5 A 33.5 A	4 A 51 A	6.3 A 78 A	10 A 138 A
GV2 LE05 GV2 L05	GV2 LE06 GV2 L06	GV2 LE07 GV2 L07	GV2 LE08 GV2 L08	GV2 LE10 GV2 L10	GV2 LE14 GV2 L14

GV3 P



NEW

Rotary knob control

5.5 kW	7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW
100 kA	100 kA	100 kA	100 kA	50 kA	50 kA	50 kA
7.5 kW	11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW
12 kA	12 kA	12 kA	12 kA	10 kA	10 kA	10 kA
11 kW	15 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW
6 kA	6 kA	6 kA	6 kA	5 kA	5 kA	5 kA
9...13 A	12...18 A	17...25 A	23...32 A	30...40 A	37...50 A	48...65 A
180 A	235 A	325 A	415 A	520 A	650 A	845 A
GV3 P13	GV3 P18	GV3 P25	GV3 P32	GV3 P40	GV3 P50	GV3 P65
GV3 P136	GV3 P186	GV3 P256	GV3 P326	GV3 P406	GV3 P506	GV3 P656

5.5 kW	7.5 kW	9 kW	11 kW	15 kW
15 kA > 100 kA	15 kA 50 kA	15 kA 50 kA	15 kA 50 kA	15 kA 50 kA
7.5 kW	9 kW	11 kW	15 kW	18.5 kW
6 kA 42 kA	6 kA 10 kA	4 kA 10 kA	4 kA 10 kA	4 kA 10 kA
9...11 kW	15 kW	18.5 kW	-	22 kW
3 kA 6 kA	3 kA 4 kA	3 kA 4 kA	-	3 kA 4 kA
9...14 A	13...18 A	17...23 A	20...25 A	24...32 A
170 A	223 A	327 A	327 A	416 A
GV2 ME16	GV2 P16	GV2 ME20	GV2 P20	GV2 ME21
GV2 ME163	-	GV2 ME203	-	GV2 ME213
GV2 ME166	-	GV2 ME206	-	GV2 ME216
		GV2 ME22	GV2 P22	GV2 ME223
		GV2 ME226	-	-
		GV2 ME32	GV2 P32	GV2 ME326
		-	-	-

GV3 L



NEW

Rotary knob control

TeSys **GV3**

Standard power ratings of 3-phase 50/60Hz motors in category AC-3	400/415 V	P	11 kW	15 kW	18.5 kW	22 kW	30 kW
	Breaking capacity	Icu	100 kA	100 kA	50 kA	50 kA	50 kA
	500 V	P	15 kW	18.5 kW	22 kW	30 kW	37 kW
	Breaking capacity	Icu	12 kA	12 kA	10 kA	10 kA	10 kA
Magnetic protection rating	690 V	P	18.5 kW	22 kW	30 kW	37 kW	45 kW
	Breaking capacity	Icu	6 kA	6 kA	5 kA	5 kA	5 kA
	25 A		32 A	40 A	50 A	50 A	65 A
	325 A		415 A	520 A	650 A	845 A	845 A
Tripping current I _d +/- 20%							
EverLink [®] terminal magnetic circuit-breaker			GV3 L25	GV3 L32	GV3 L40	GV3 L50	GV3 L65
Ring terminals magnetic circuit-breaker			GV3 L256	GV3 L326	GV3 L406	GV3 L506	GV3 L656

5.5 kW	7.5 kW	9...11 kW	15 kW
15 kA 50 kA	15 kA 50 kA	15 kA 50 kA	15 kA 50 kA
7.5 kW	9 kW	11...15 kW	18.5 kW
6 kA 10 kA	6 kA 10 kA	4 kA 10 kA	4 kA 10 kA
9...11 kW	15 kW	18.5 kW	22 kW
3 kA 4 kA	3 kA 4 kA	3 kA 4 kA	3 kA 4 kA
14 A	18 A	25 A	32 A
170 A	223 A	327 A	416 A
GV2 LE16	GV2 L16	GV2 LE20	GV2 L20
		GV2 LE22	GV2 L22
		GV2 LE32	GV2 L32


GV2-GV3

//// Add-on blocks common to TeSys GV2-GV3

CONTACT BLOCKS

Instantaneous auxiliary contacts		N/O or N/C	N/O + N/C	N/O + N/O	
Mounting position	Left-hand side	-	GVAN11 ⁽¹⁾	GVAN20 ⁽¹⁾	
	Front	GVAE1	GVAE11 ⁽¹⁾	GVAE20 ⁽¹⁾	
(1) For spring terminal version add 3 to the end of the reference, example: GVAN11 becomes GVAN113					
Fault contact + instantaneous auxiliary contact		N/O (fault) + N/C	N/O (fault) + N/O	N/C (fault) + N/C	N/C (fault) + N/O
Mounting position	Left-hand side	GVAD1001	GVAD1010	GVAD0101	GVAD0110
Short-circuit signalling contact		C/O with common point			
Mounting position	Left-hand side	GVAM11			

ELECTRIC TRIPS

Type of trip		Undervoltage trip		Shunt trip		
Mounting position	Right-hand side	Voltage	50 Hz	60 Hz	50 Hz	60 Hz
		24 V	GVAU025	GVAU026	GVAS025	GVAS026
		48 V	GVAU055	GVAU056	GVAS055	GVAS056
		100 V	GVAU107	-	GVAS107	-
		100...120 V	-	GVAU107	-	GVAS107
		110...115 V	GVAU115	GVAU116	GVAS115	GVAS116
		120...127 V	GVAU125	-	GVAS125	-
		127 V	-	GVAU115	-	GVAS115
		200 V	GVAU207	-	GVAS207	-
		200...220 V	-	GVAU207	-	GVAS207
		220...240 V	GVAU225	GVAU226	GVAS225	GVAS226
		380...400 V	GVAU385	GVAU386	GVAS385	GVAS386
		415...440 V	GVAU415	-	GVAS415	-
	415 V	-	GVAU416	-	GVAS416	

PADLOCKING DEVICE

For up to 4 padlocks	(not included) Ø 6 mm shank max.
GV2ME/P/L - GV3P/L	GV2V03

//// TeSys GV2 add-on blocks and accessories

GV2

COMBINATION BLOCKS

For mounting on contactors	LC1K or LP1K	LC1D09...D38	LAD31 AND LC1D09...D38
	GV2AF01	GV2AF3	GV2AF4

SET OF 3-POLE 63 A BUSBARS

Number of combined circuit-breakers	2	3	4	5	
Bar pitch ⁽¹⁾	45 mm	GV2G245	GV2G345	GV2G445	GV2G545
	54 mm	GV2G254	GV2G354	GV2G454	GV2G554
	72 mm	GV2G272	-	GV2G472	-

(1) Protective end cover for unused busbar outlets, reference: GV1G10

TERMINAL BLOCKS

For supply to one or more busbar sets	Connection from the top	For current limiter GV1L3
	GV2G09	GV2G05

PADLOCKABLE EXTERNAL OPERATOR

Colour of operator		Black handle/blue legend plate	Red handle/yellow legend plate	
GV2P/L	Padlocking	In "ON" and "OFF" position	GV2AP01	-
		In "OFF" position	-	GV2AP02
GV2LE	Padlocking	In "ON" and "OFF" position	GV2AP03	-

//// TeSys GV3 add-on blocks and accessories

GV3

CONTACT BLOCKS

Fault contact + instantaneous auxiliary contact		N/O (fault) + N/C	N/O (fault) + N/O
Mounting position	Front	GVAED011 ⁽¹⁾	GVAED101 ⁽¹⁾

(1) For spring terminal version add 3 to the end of the reference, example: GVAED011 becomes GVAED0113

SET OF 3-POLE 115 A BUSBARS

Number of combined circuit-breakers	3	
Bar pitch	64 mm	GV3G364

TERMINAL BLOCKS

Type of terminals	"Wide spacing" connector block	IP20 cover for lug type terminals
GV3P/L	GV3G66	LAD96570

The efficiency of Telemecanique branded solutions

When combined, Telemecanique products offer quality solutions for all **Automation** and **Control** functions of your applications.



A unique partner, a global presence

Constantly available worldwide.

- More than 5,000 points of sale in 130 countries.
- You can be sure to find the range of products that meets your needs and complies fully with the standards in the country in which they will be used.

Technical assistance wherever you are

- Our technicians are at your disposal to assist you in finding the optimum solution for your particular needs.
- Schneider Electric provides you with all necessary technical assistance throughout the world.

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Simply Smart!