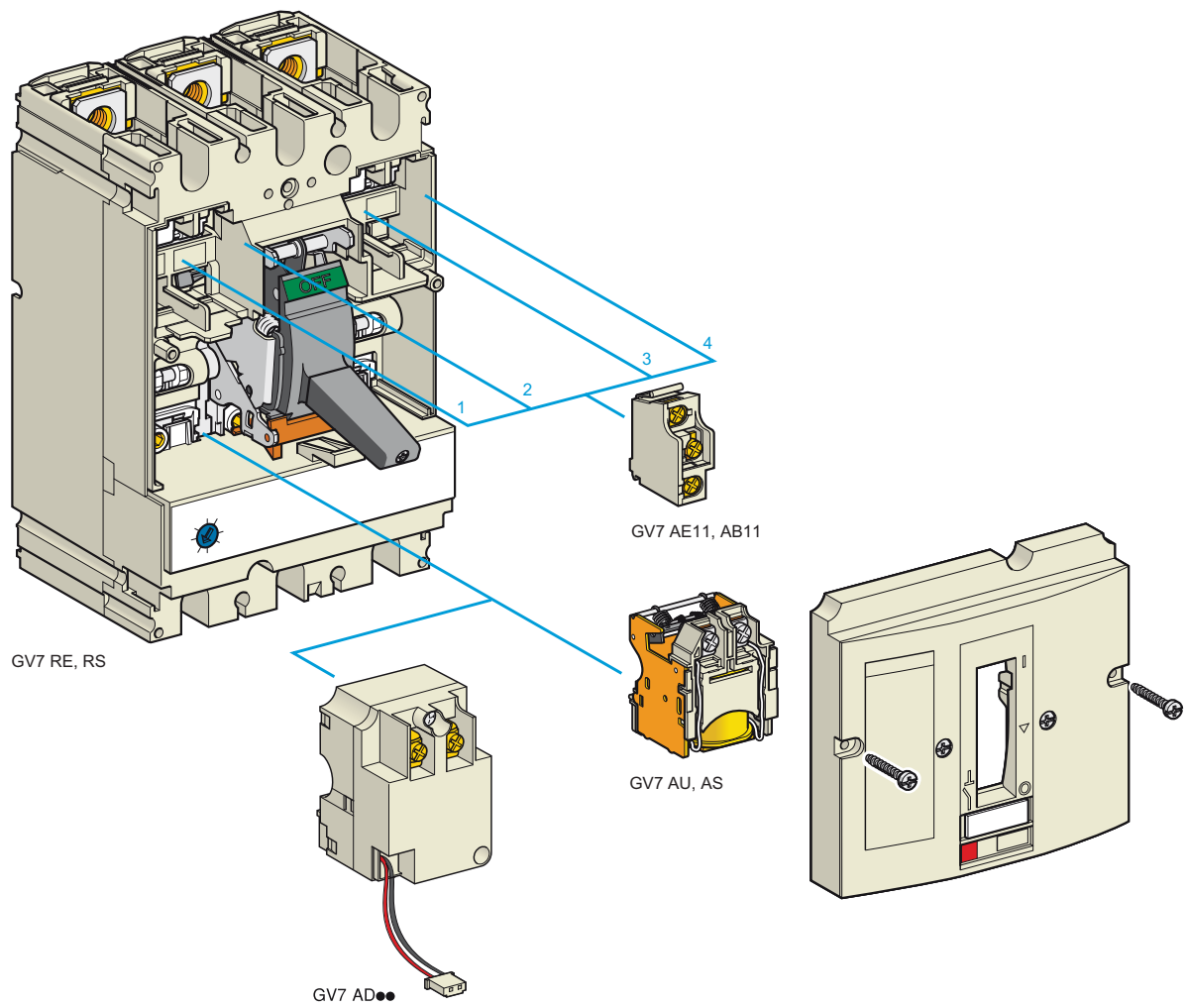


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# TeSys protection components

## Thermal-magnetic motor circuit-breakers

### GV7 R with screw clamp connections

#### Add-on blocks and accessories

#### Add-on auxiliary contacts

These allow remote indication of the circuit-breaker contact states. They can be used for signalling, electrical locking, relaying, etc. They are available in two versions: standard and low level. They include a terminal block and the auxiliary circuits leave the circuit-breaker through a hole provided for this purpose.

They perform the following functions, depending on where they are located in the circuit-breaker:

Location	Function	Application
1 and/or 4	C/O contact	Indicates the position of the circuit-breaker poles
2	Trip indication	Indicates that the circuit-breaker has tripped due to an overload, a short-circuit, a differential fault or the operation of a voltage trip (undervoltage or shunt trip), or of the "push to trip" test button. It resets when the circuit-breaker is reset.
3	Electrical fault indication	Indicates that the circuit-breaker has tripped due to an overload, a short-circuit or a differential fault. It resets when the circuit-breaker is reset.

Type	Reference	Weight kg
Standard	GV7 AE11	0.015
Low level	GV7 AB11	0.015

#### Fault discrimination devices

These make it possible to:

- either differentiate a thermal fault from a magnetic fault,
- or open the contactor only in the event of a thermal fault.

Voltage	Reference	Weight kg
~ 24...48 and ≡ 24...72 V	GV7 AD111 (1)	0.100
≡ 110...240 V	GV7 AD112 (1)	0.100

#### Electric trips

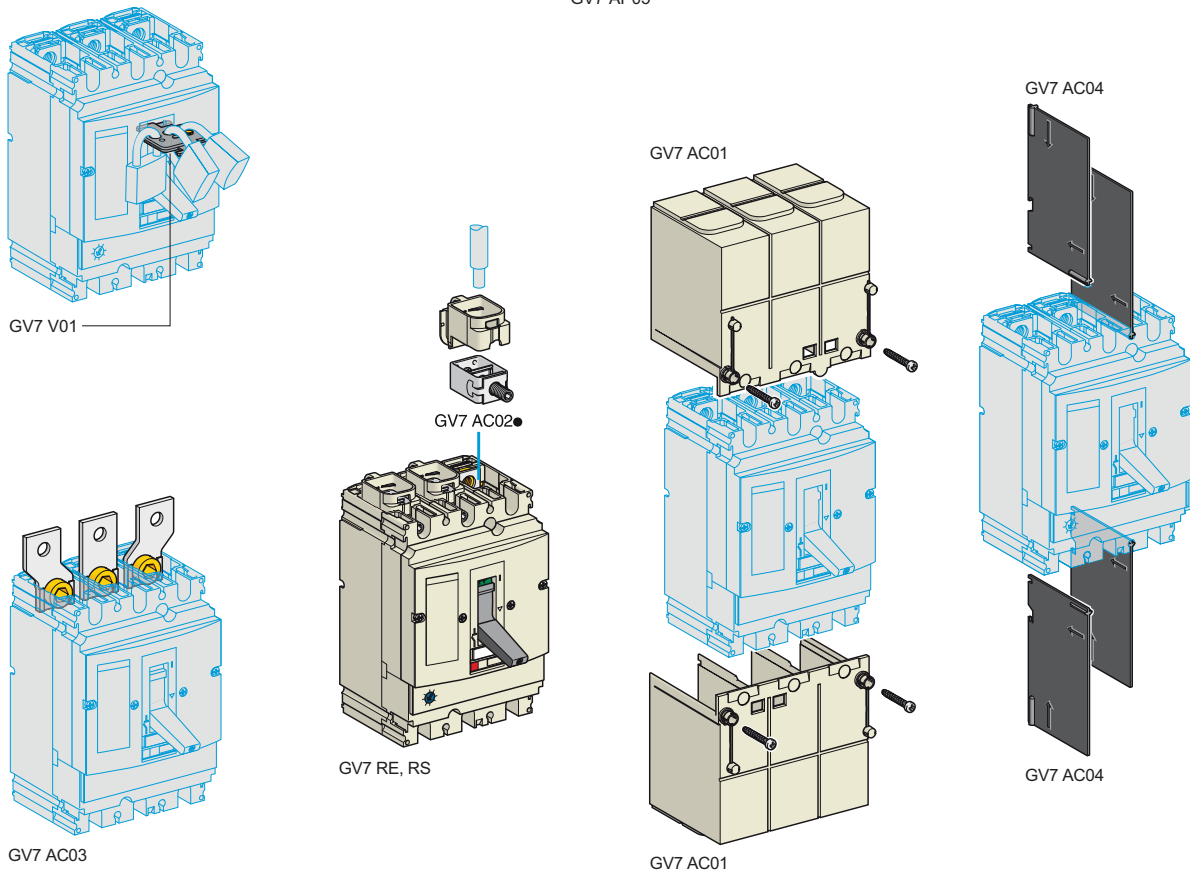
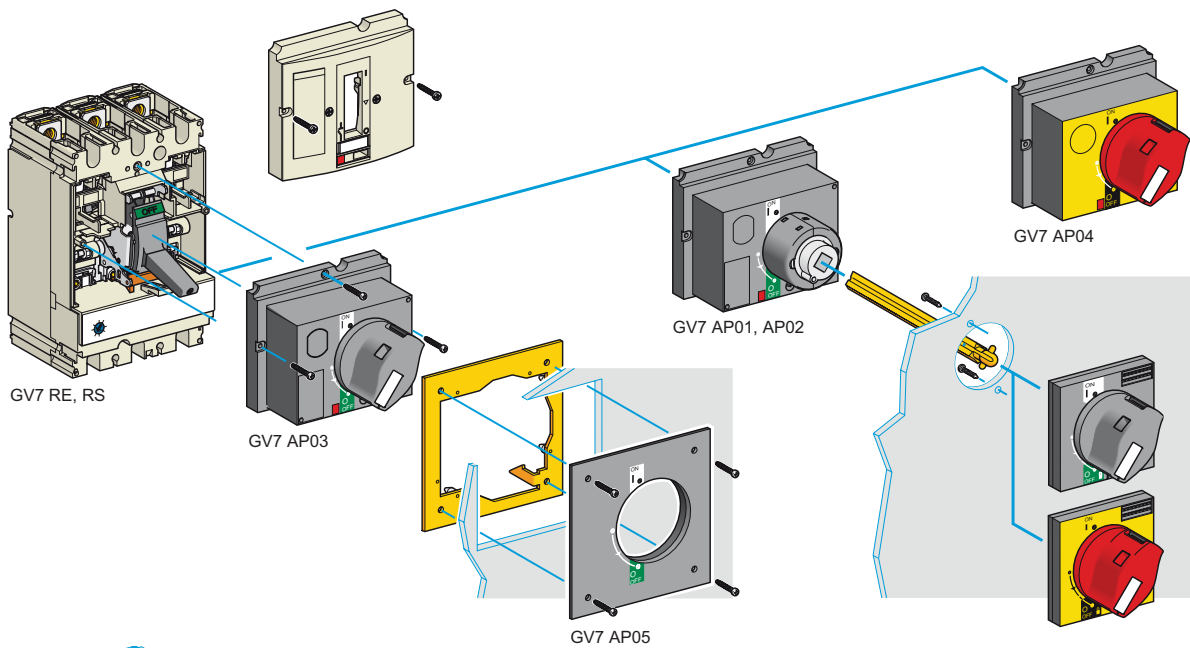
These allow the circuit-breaker to be tripped via an electrical control signal.

- Undervoltage trip GV7 AU
  - Trips the circuit-breaker when the control voltage drops below the tripping threshold, which is between 0.35 and 0.7 times the rated voltage.
  - Circuit-breaker closing is only possible if the voltage exceeds 0.85 times the rated voltage.
 Circuit-breaker tripping by a GV7 AU trip meets the requirements of IEC 60947-2.
- Shunt trip GV7 AS
  - Trips the circuit-breaker when the control voltage rises above 0.7 times the rated voltage.
- Operation (GV7 AU or GV7 AS)
  - When the circuit-breaker has been tripped by a GV7 AU or AS, it must be reset either locally or by remote control. (For remote control, please consult your Regional Sales Office).
  - Tripping has priority over manual closing: if a tripping instruction is present, manual action does not result in closing, even temporarily, of the contacts.
  - Durability: 50 % of the mechanical durability of the circuit-breaker.

Type	Voltage	Reference	Weight kg
Undervoltage trip	48 V, 50/60 Hz	GV7 AU055 (1)	0.105
	110...130 V, 50/60 Hz	GV7 AU107 (1)	0.110
	200...240 V, 50/60 Hz	GV7 AU207 (1)	0.110
	380...440 V, 50/60 Hz	GV7 AU387 (1)	0.105
	525 V, 50 Hz	GV7 AU525 (1)	0.100
Shunt trip	48 V, 50/60 Hz	GV7 AS055 (1)	0.105
	110...130 V, 50/60 Hz	GV7 AS107 (1)	0.110
	200...240 V, 50/60 Hz	GV7 AS207 (1)	0.110
	380...440 V, 50/60 Hz	GV7 AS387 (1)	0.105
	525 V, 50 Hz	GV7 AS525 (1)	0.100

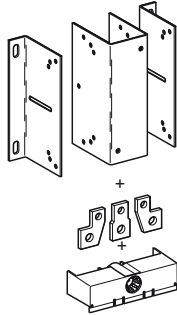
(1) For mounting of a GV7 AD or a GV7 AU or AS.

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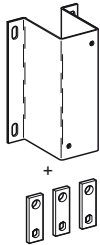


# TeSys protection components

## Thermal-magnetic motor circuit-breakers GV7 R with screw clamp connections Accessories



GV7 AC07



GV7 AC08

### Cabling accessories

Description	Application	For use on contactors	Sold in lots of	Unit reference	Weight kg
<b>Clip-on connectors for GV7 R</b>	Up to 150 A, 1.5...95 mm <sup>2</sup>	–	3	GV7 AC021	0.300
	Up to 220 A, 1.5...185 mm <sup>2</sup>	–	3	GV7 AC022	0.350
<b>Spreader 3-pole (1)</b>	To increase the pitch to 45 mm	–	1	GV7 AC03	0.180
<b>Terminal shields IP 405 (1)</b>	Supplied with sealing accessory	–	1	GV7 AC01	0.125
<b>Phase barriers</b>	Safety accessories used when fitting of shields is impossible	–	2	GV7 AC04	0.075
<b>Insulating screens</b>	Ensure insulation between the connections and the backplate	–	2	GV7 AC05	0.075
<b>Kits for combination with contactor(2)</b>	Allowing link between the circuit-breaker and the contactor. The cover provides protection against direct finger contact	LC1 F115...F185	1	GV7 AC06	0.550
		LC1 F225 and F265	1	GV7 AC07	0.550
		LC1 D115 and D150	1	GV7 AC08	0.550

### Direct rotary handle

Replaces the circuit-breaker front cover; secured by screws. It includes a device for locking the circuit-breaker in the O (Off) position by means of up to 3 padlocks with a shank diameter of 5 to 8 mm (padlocks not included). A conversion accessory allows the direct rotary handle to be mounted on the enclosure door. In this case, the door cannot be opened if the circuit-breaker is in the "ON" position. Circuit-breaker closing is inhibited if the enclosure door is open.

Description	Type	Degree of protection	Reference	Weight kg
<b>Direct rotary handle</b>	Black handle, black legend plate	IP 40	GV7 AP03	0.205
	Red handle, yellow legend plate	IP 40	GV7 AP04	0.205
<b>Adapter plate (3)</b>	Four mounting direct rotary handle on enclosure door	IP 43	GV7 AP05	0.100

### Extended rotary handle

Allows a circuit-breaker installed in the back of an enclosure to be operated from the front of the enclosure. It comprises:

- a unit which screws onto the front cover of the circuit-breaker,
- an assembly (handle and front plate) to be fitted on the enclosure door,
- an extension shaft which must be adjusted (distance between the mounting surface and the door: 185 mm minimum, 600 mm maximum). It includes a device for locking the circuit-breaker in the O (Off) position by means of up to 3 padlocks with a shank diameter of 5 to 8 mm (padlocks not included). This prevents the enclosure door from being opened.

Description	Type	Degree of protection	Reference	Weight kg
<b>Extended rotary handle</b>	Black handle, black legend plate	IP 55	GV7 AP01	0.775
	Red handle, yellow legend plate	IP 55	GV7 AP02	0.775

### Locking device

Allows circuit-breakers not fitted with a rotary handle to be locked in the O (Off) position by means of up to 3 padlocks with a shank diameter of 5 to 8 mm (padlocks not included).

Description	Application	Reference	Weight kg
<b>Locking device</b>	For circuit-breaker not fitted with a rotary handle	GV7 V01	0.100

(1) Terminal shields cannot be used together with spreaders.

(2) The kit comprises links, a protective shield and a depth adjustable metal bracket for the breaker.

(3) This conversion accessory makes it impossible to open the door if the device is closed and prevents the device from being closed if the door is open.