

TeSys GV7

55 to 110 kW



Circuit
breakers

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breakers

B6/48

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Electric

TeSys protection components

Thermal-magnetic motor circuit breakers GV7R



GV7RS220

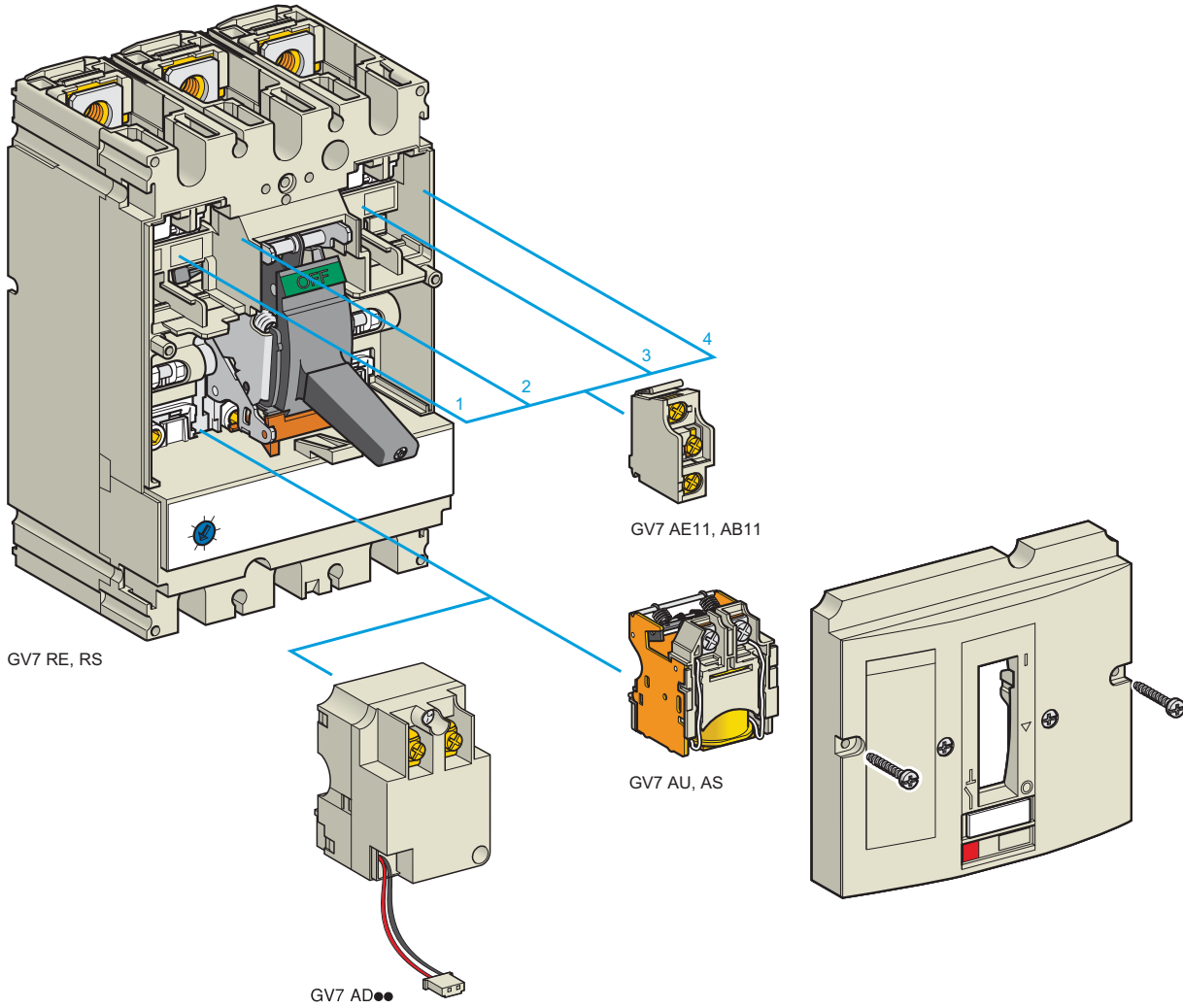
Thermal-magnetic circuit breakers GV7R with screw clamp terminals up to 110 kW												
Control by rocker lever												
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3										Setting range of thermal trips	Reference	Weight
400/415 V			500 V			660/690 V			A			
P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾				
kW	kA	%	kW	kA	%	kW	kA	%				
55	35	100	75	30	100	90	8	100	90...150	GV7RE150	2.020	
75	35	100	90	30	100	110	8	100				
55	70	100	75	50	100	90	10	100	90...150	GV7RS150	2.020	
75	70	100	90	50	100	110	10	100				
90	35	100	110	30	100	160	8	100	132...220	GV7RE220	2.350	
110	35	100	132	30	100	200	8	100				
			160	30	100							
90	70	100	110	50	100	160	10	100	132...220	GV7RS220	2.350	
110	70	100	132	50	100	200	10	100				
			160	50	100							

(1) As % of I_{cu}.

Thermal-magnetic circuit breakers GV7R with screw clamp terminals from 100						
Thermal setting	Maximum Horsepower ratings				Standard	High breaking capacity
	3-Phase					
	200 V	230 V	460 V	575 V	Reference	Reference
A	HP	HP	HP	HP	Reference	Reference
90-150	-	50	100	150	GV7RE150	GV7RS150
132-220	-	75	150	200	GV7RE220	GV7RS220

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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
Standard	GV7AE11
Low level	GV7AB11

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
~ 24...48 and ≡ 24...72 V	GV7AD111 ⁽¹⁾
≈ 110...240 V	GV7AD112 ⁽¹⁾

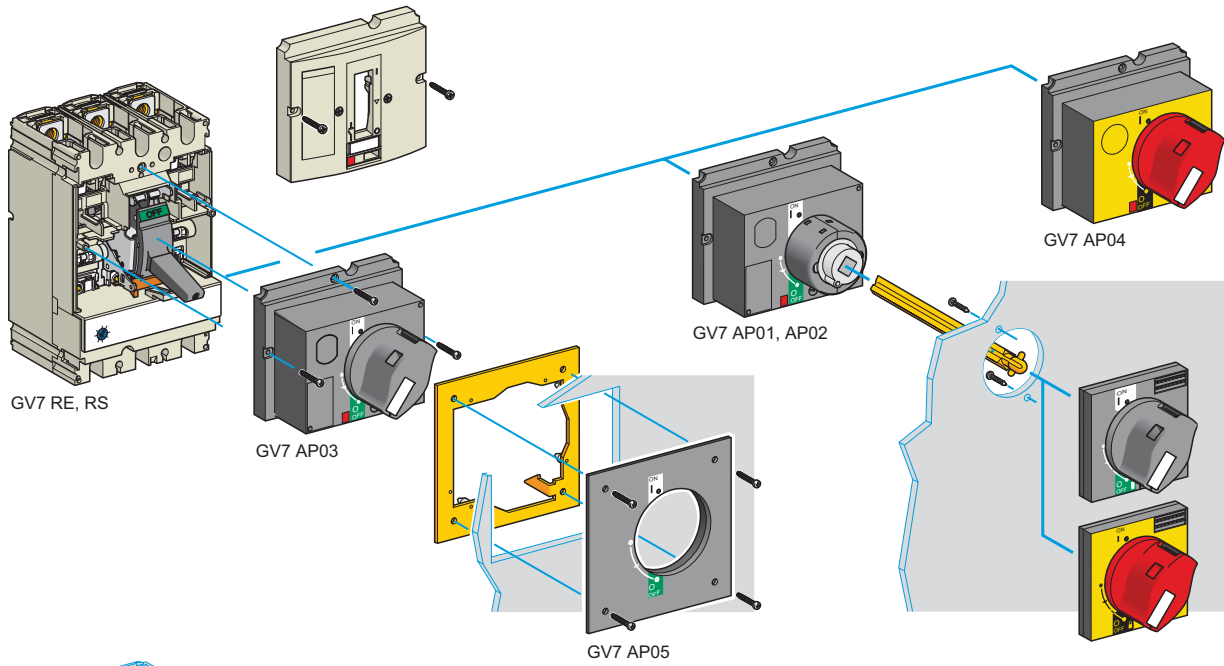
Electric trips

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

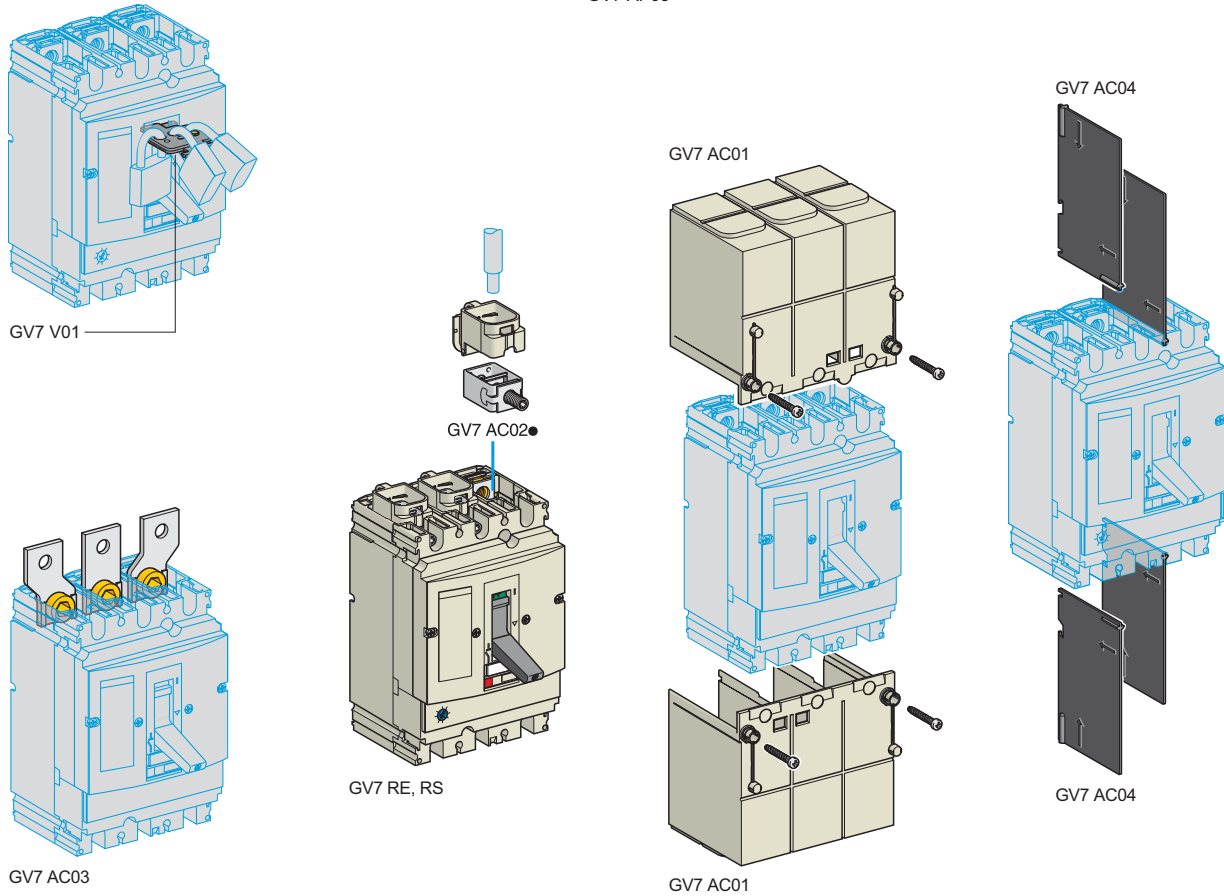
- Undervoltage trip GV7 AU
 - Trips the circuit breaker when the control voltage drops below the tripping threshold, which is between 0.35 and 0.7 times the rated voltage.
 - Circuit breaker closing is only possible if the voltage exceeds 0.85 times the rated voltage.
 Circuit breaker tripping by a GV7 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
Undervoltage trip	48 V, 50/60 Hz	GV7AU055 ⁽¹⁾
	110...130 V, 50/60 Hz	GV7AU107 ⁽¹⁾
	200...240 V, 50/60 Hz	GV7AU207 ⁽¹⁾
	380...440 V, 50/60 Hz	GV7AU387 ⁽¹⁾
	525 V, 50 Hz	GV7AU525 ⁽¹⁾
Shunt trip	48 V, 50/60 Hz	GV7AS055 ⁽¹⁾
	110...130 V, 50/60 Hz	GV7AS107 ⁽¹⁾
	200...240 V, 50/60 Hz	GV7AS207 ⁽¹⁾
	380...440 V, 50/60 Hz	GV7AS387 ⁽¹⁾
	525 V, 50 Hz	GV7AS525 ⁽¹⁾

⁽¹⁾ For mounting of a GV7AD or a GV7AU or AS.



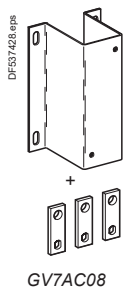
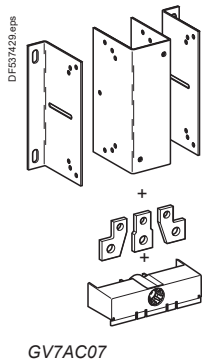
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Accessories



Cabling accessories

Description	Application	For use on contactors	Sold in lots of	Unit reference
Clip-on connectors for GV7 R	Up to 150 A, 1.5...95 mm ²	–	3	GV7AC021
	Up to 220 A, 1.5...185 mm ²	–	3	GV7AC022
Spreader 3-pole ⁽¹⁾	To increase the pitch to 45 mm	–	1	GV7AC03
Terminal shields IP 405 ⁽¹⁾	Supplied with sealing accessory	–	1	GV7AC01
Phase barriers	Safety accessories used when fitting of shields is impossible	–	2	GV7AC04
Insulating screens	Ensure insulation between the connections and the backplate	–	2	GV7AC05
Kits for combination with contactor ⁽²⁾	Allowing link between the circuit breaker and the contactor. The cover provides protection against direct finger contact.	LC1F115...F185	1	GV7AC06
		LC1F225 and F265	1	GV7AC07
		LC1D115 and D150	1	GV7AC08

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
Direct rotary handle	Black handle, black legend plate	IP 40	GV7AP03
	Red handle, yellow legend plate	IP 40	GV7AP04
Adapter plate ⁽³⁾	Four mounting direct rotary handle on enclosure door	IP 43	GV7AP05

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
Extended rotary handle	Black handle, black legend plate	IP 55	GV7AP01
	Red handle, yellow legend plate	IP 55	GV7AP02

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
Locking device	For circuit breaker not fitted with a rotary handle	GV7V01

- ⁽¹⁾ Terminal shields cannot be used together with spreaders.
⁽²⁾ The kit for GV7AC06 & GV7AC07 comprises links, a protective shield and a depth adjustable metal bracket for the breaker. The kit for GV7AC08 comprises links and a fixed 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.

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