Protection to help optimize machine performance

Discover the complete **TeSys** GV Range

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Contents

Introducing **TeSys** GV Motor Control Range

Advanced motor protection for a wide range of applications

Our Tesys GV solution was introduced in the 1980's. With an integrated short circuit and extended protection against thermal overload and phase loss. TeSys GV helps provide consistent performance, enhanced safety and uptime, cost savings, and great functionality.

In addition, TeSys GV combines with the TeSys D range, to offer a complete motor control solution from everything from simple machines to complex motor control centers.

Recently, Schneider Electric has launched GV4, GV5 and GV6. Through these new additions, the motor control range is now complete. The full range combines the simplicity of standard circuit breakers with the advanced protection of intelligent digital solutions.

The Schneider Electric difference:

<< Click on these icons to learn more

GV Overview

Related links

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The Schneider Electric difference:

Reliability & Quality
High electrical and mechanical endurances.
Compliance to quality standards.

GV Overview

Related links

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The Schneider Electric difference:

Robust & Secure

High level of protection due to high breaking capacity of up to 100kA/400V. Long term protection due to high durability. Padlock lockable without any additional accessory.

GV Overview

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The Schneider Electric difference:

Applications
TeSys GV is used in a wide range of applications across industries. Applications include: HVAC, Packaging, Conveying, Pumping, Lifts, Oil & Gas, Mining etc.

GV Overview

Related links

Introducing **TeSys** GV Motor Control Range

GV Overview

Start Smart. Run Smart. Stay Smart.

Complete and consistent range of TeSys™ GV Motor Control Circuit Breakers – robust and reliable.

	TeSys GV2	TeSys GV3	TeSys GV4	TeSys GV5	TeSys GV6
Current rating	0.25A	32A	73A	115A	220A	500A
Motor rating (400V)	0.06kW	15kW	37kW	55kW	110kW	250kW

Related links

Introducing **TeSys** GV Motor Control Range

GV2

for motors up to
15kW/400V up to 32A

GV3

for motors up to
37kW/400V up to 73A

GV4

for motors up to
55kW/400V up to 115A

GV5

for motors up to
110kW/400V up to 220A

GV6

for motors up to
250kW/400V up to 500A

TeSys GV2

for motors up to 15kW/400V up to 32A

A commonly used circuit breaker in the world to protect and control motors. It is versatile, robust and easy to select.

GV2 is designed in 3 main versions:

- **GV2L** is magnetic only motor circuit breaker.
- **GV2ME** is magnetic and thermal motor circuit breaker.
- **GV2P** is as **GV2ME** with higher breaking capacity and rotary handle

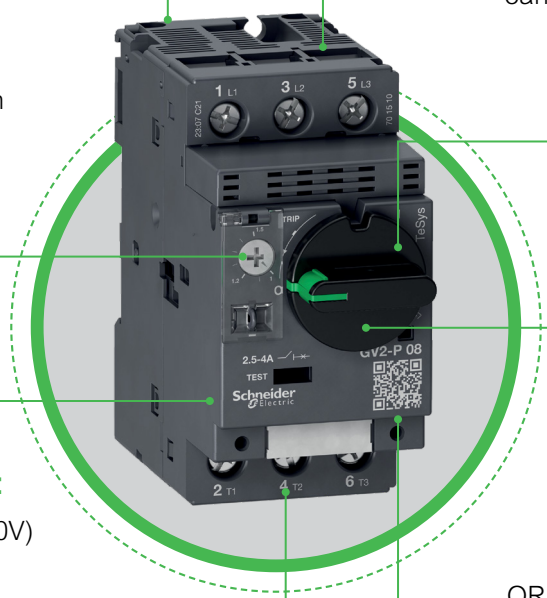
Scan here

Features | Benefits | Mounting Type & Accessories

GV2P

Robust:

- Up to 2000m
- Up to 60ºC
- Duty Class: 40 C.O./h



Additional auxiliary contact can be added in house

Rotary handle

Sealable thermal overload setting

In-house lock mechanism

Breaking Capacity:

Up to 100kA (Icu at 400V)

QR Code for direct access to electronic datasheet, commercial reference and serial number

3 different connection types:

Screw

Spring

Lugs-ring

Related links

TeSys GV2

for motors up to 15kW/400V up to 32A

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Features | Benefits | Mounting Type & Accessories

GV2ME

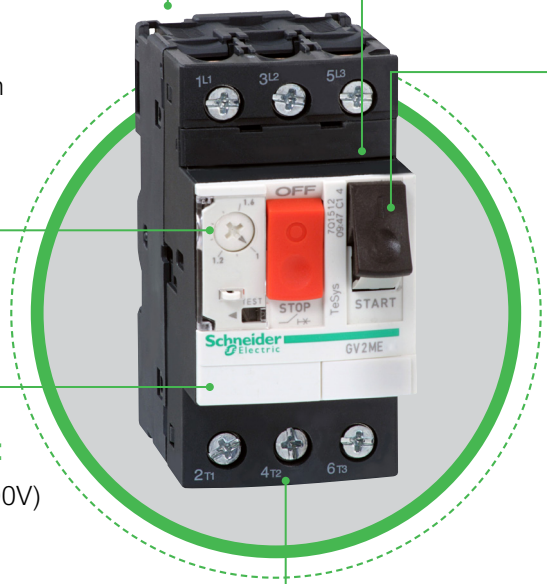
Robust:

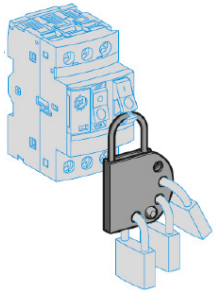
- Up to 2000m
- Up to 60ºC
- Duty Class: 25 C.O./h

Additional auxiliary contact can be added in house

Push button

Sealable thermal overload setting





In-house lock mechanism

Breaking Capacity:

Up to 100kA (Icu en 400V)

4 different connection types:

Screw

Spring

Lugs-ring

PCB Mount

Related links

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Scan here

Features | **Benefits** | Mounting Type & Accessories

100,000 cycles of electrical durability (AC-3 400V) for GV2ME

Learn more

Manual motor circuit breaker provides manual isolation, manual motor control, and thermal overcurrent protection in one compact unit

IE4 motor compliant

Learn more

The addition of a shunt trip enables remote control of tripping

Full range of accessories available within minimum change to the final product dimensions

Learn more

Worldwide approvals and certifications for all marks

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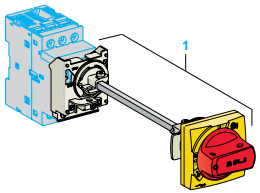
Features | Benefits | Mounting Type & Accessories



Enclosure mounting is well adapted to GV2L and GV2P, with their possible extended rotary handle and visible trip indication.

GV2 can be delivered premounted on contactor TeSys D or TeSys K to reduce mounting time.

Discover Motor Starter Combinations

Discover Motor Starter Combinations - K Series

GV2 can also be mounted in enclosure ready to use. See our TeSys enclosed starters.

Learn more

New Protection for Rotary handle – Protect the rotary handle on cabinet's doors against involuntary actuation (brushing against the handle while passing too close) and tripping the MCB accidentally.

Increase the visibility of the rotary handle actuator.

Related links

TeSys GV3

for motors up to 37kW/400V up to 73A

TeSys GV3 is an ideal motor circuit breaker for motors up to 37kW. GV3 is a good choice for high performance, robustness and compact solution.

GV3 is designed in 2 main versions:

- **GV3L** is magnetic only motor circuit breaker.
- **GV3P** is magnetic and thermal motor circuit breaker.

Scan here

Features | Benefits | Mounting Type & Accessories

Robust:

- Up to 3000m
- Up to 60ºC
- Duty Class: 25 C.O/h

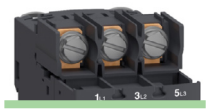
Breaking Capacity:

Up to 100kA (Icu at 400V)

3 different connection types:

EverLink

Lug



Direct Mounting (Without EverLink)

Related links

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Scan here

Features | **Benefits** | Mounting Type & Accessories

- Robust connections thanks to EverLink.
  Learn more
- Compact, only 55mm width
- Built-in rotary knob offers local on/off control of motor and trip indication in the event of a fault
- With Everlink terminal,GV3P can be mounted vertically without any accessory and horizontally with an accessory
- Worldwide approvals and certifications for all marks

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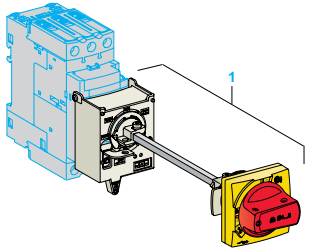
Features | Benefits | Mounting Type & Accessories



Enclosure mounting is well adapted to GV3L and GV3P, with their possible extended rotary handle and visible trip indication.

GV3 can also be mounted in enclosure ready to use. See our TeSys enclosed starters.

Accessory

Z adaptor for linked connections

Learn more

Related links

TeSys GV4

for motors up to 55kW/400V up to 115A

State-of-the-art technology, GV4 is compact and robust. Electronic core of GV4P gives a great detection accuracy, with alarming and advanced protections.

GV4 is designed in 4 main versions:

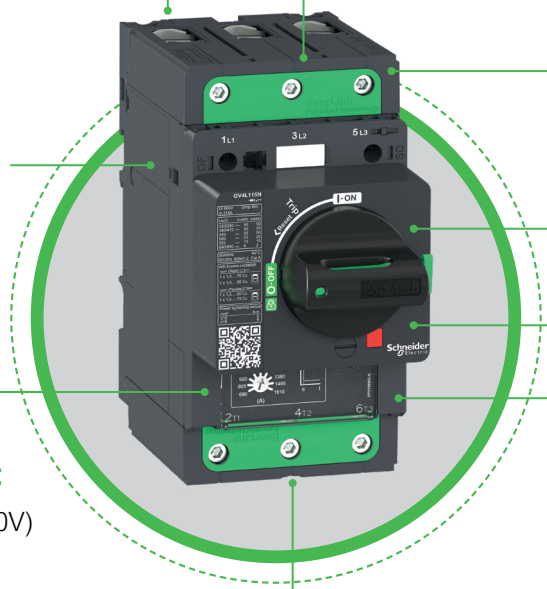
- **GV4L** is magnetic only motor circuit breaker.
- **GV4P** is magnetic and thermal motor circuit breaker.
- **GV4PEM** is as **GV4P** with advanced protections
- **GV4PB** is as **GV4PEM** but following UL489 standard

Scan here

Features | Benefits | Mounting type

Robust:
- Up to 2000m
- Up to 70ºC
- Duty Class: 25 C.o/h

Advanced protections: Ground fault, long start, jam



EverLink patented connector

In-house accessory

Rotary handle with trip indication

In-house lock mechanism

QR Code for direct access to electronic datasheet, commercial reference and serial number

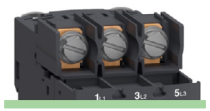
Breaking Capacity:

Up to 100kA (Icu at 400V)

2 different connection types:

EverLink

Lug



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Scan here

Features | **Benefits** | Mounting type

- Patented creep compensation maintains reliable power connection
- Reduced number of references with the wide setting and dual class – 10E and 20E.
- Advanced protection set by a smartphone allow easy commissioning and maintenance
- Improve the compactness within the drawer and reduce up to 1/3 the panel size
- Pre-alarms and automatic reset
- Worldwide approvals and certifications for all marks

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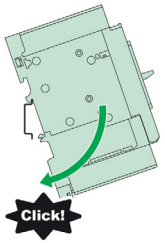
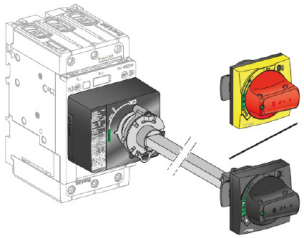
Scan here

Features | Benefits | Mounting type



TeSys GV4 can be mounted on a backplate or on a DIN rail (35 or 75 mm).



Enclosure mounting is well adapted to GV4 with their possible extended rotary handle and visible trip indication.

Related links

TeSys GV5 & GV6

for motors up to 250kW/400V up to 500A

GV5 and GV6 with advanced thermal-magnetic trip unit provide more effective protection to high power motors in demanding applications.

They provide protection for motors against overloads with selection of a trip class (5, 10 or 20), short-circuits, phase unbalance or phase loss.

Adjustable over-load and short circuit current settings provide flexibility.

GV5/6 is designed in 2 main versions:

- **GV5P** is magnetic and thermal motor circuit breaker up to 110kW .
- **GV6P** is magnetic and thermal motor circuit breaker up to 250kW.

Scan here

Features | Benefits | Mounting Type & Accessories

Robust:
- Up to 2000m
- Up to 60ºC
- Duty Class: 25 C.o/h

Rated insulation voltage (Ui):
800 V AC

Breaking Capacity (Icu):
36kA & 70 kA at 400/415 V

Rated operational current (Ue):
150 A to 500 A at 400V AC

Additional auxiliary contact can be added in-house

In-house accessory

Rotary handle

In-house lock mechanism

QR Code for direct access to electronic datasheet, commercial reference and serial number

Related links

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GV5/6 is designed in 2 main versions:

- **GV5P** is magnetic and thermal motor circuit breaker up to 110kW .
- **GV6P** is magnetic and thermal motor circuit breaker up to 250kW.

Scan here

Features | **Benefits** | Mounting Type & Accessories

Equipped with advanced thermal-magnetic trip unit that provides effective protection to high power motors in the most demanding appliances.

Wide range of common accessories and auxiliaries that allows remote indication, control and operation.

Adjustable over-load and short circuit current settings provide flexibility.

Worldwide approvals and certifications for all marks

Related links

TeSys GV5 & GV6

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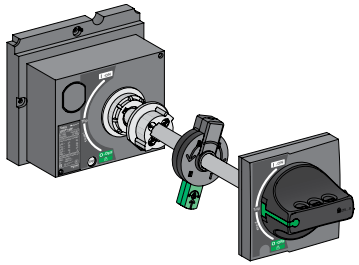
Scan here

Features | Benefits | Mounting Type & Accessories



Enclosure mounting is well adapted to GV5/6 with their possible extended rotary handle and visible trip indication

MCC conversion accessory allows the direct rotary handle to be mounted on the enclosure door. The door cannot be opened if the circuit breaker is in the “ON” position

GV5 & GV6 beakers with a Micrologic 2.2M & 2.3M can be equipped with “Thermal Fault Module” (SDTAM) dedicated to motor applications

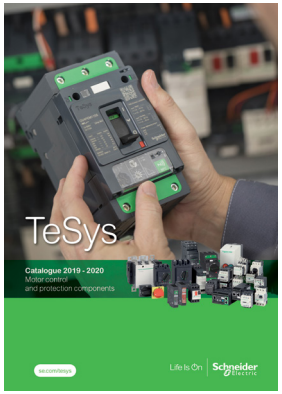
Related links

TeSys Selection Table

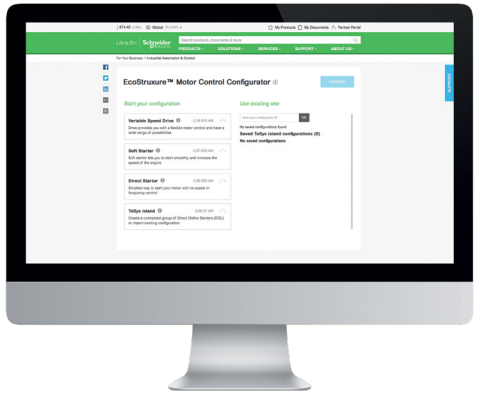
0.6 to 250kW at 400/415 V: type 1 coordination

400/415V		Circuit breaker Reference	Settings Range Thermal Trips	Contactor Reference
P	Ie			
kW	A			
3	6.5	GV2ME14	6...10	LC1K09
5.5	11.5	GV2ME16	9...14	LC1K12
7.5	15.5	GV2ME20	13...18	LC1D18
9	18.1	GV2ME21	17...23	LC1D25
15	29	GV2ME32	24...32	LC1D32
18.5	35	GV3P40	30...40	LC1D40A
30	55	GV3P65	48...65	LC1D65A
37	66	GV3P73	62...73	LC1D80A
45	80	GV4P115	65...115	LC1D95
55	97	GV4P115	65...115	LC1D115
75	132	GV5P150F	70...150	LC1D150
90	160	GV5P220F	100...220	LC1F185
160	280	GV6P320F	160...320	LC1F330
250	430	GV6P500F	250...500	LC1F500

TeSys catalogue



Motor control configurator

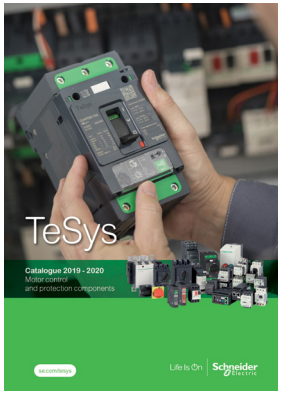


TeSys Selection Table

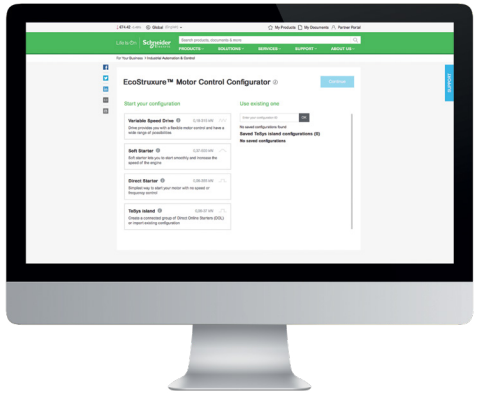
0.6 to 250kW at 400/415 V: type 2 coordination

400/415V		Circuit breaker Reference	Settings Range Thermal Trips	Contactor Reference
P	Ie			
kW	A			
3	6.5	GV2P14	6...10	LC1D09
5.5	11.5	GV2P16 or GV2ME16	9...14	LC1D25
7.5	15.5	GV2P20 or GV2ME20	13...18	LC1D25
9	18.1	GV2P21 or GV2ME21	17...23	LC1D25
15	29	GV2P32 or GV2ME32	23...32	LC1D32
18.5	35	GV3P40	30...40	LC1D50A
30	55	GV3P65	48...65	LC1D65A
37	66	GV4P80	40…80	LC1D80
45	80	GV4P115	65...115	LC1D115/F115
55	97	GV4P115	65...115	LC1D115/F115
75	132	GV5P150H	70...150	LC1D150
90	160	GV5P220H	100...220	LC1F225
160	280	GV6P320H	160...320	LC1F265
250	450	GV6P500H	250...500	LC1F500

TeSys catalogue



Motor control configurator



Here's how to get started

EcoStruxure™ Motor Control Configurator Continue — Start your configuration

Motor Circuit Breakers Categories

TeSys Home Page

Everlink Video

TeSys Brochure

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