

Motor circuit breaker, TeSys GV4, 3P, 25A, Icu 100kA, magnetic, lugs terminals

GV4LE25S6

Main

| Range of product | TeSys GV4 |
|---------------------------|------------------------|
| Range | TeSys Deca |
| Device short name | GV4L |
| product name | TeSys GV4 |
| Product or component type | Motor circuit breaker |
| Device application | Motor protection |
| Trip unit technology | Magnetic Electronic |

Complementary

| o o mpromontary | |
|---|--|
| Poles description | 3P |
| Utilisation category | Category A conforming to IEC 60947-2 |
| | AC-3 conforming to IEC 60947-4-1 |
| Operating position | Any position |
| Motor power kW | 7.5 kW at 660690 V AC 50/60 Hz |
| | 5.5 kW at 400415 V AC 50/60 Hz |
| | 7.5 kW at 500 V AC 50/60 Hz |
| | 9 kW at 660690 V AC 50/60 Hz |
| | 11 kW at 660690 V AC 50/60 Hz |
| | 7.5 kW at 400415 V AC 50/60 Hz |
| | 9 kW at 400415 V AC 50/60 Hz |
| | 11 kW at 400415 V AC 50/60 Hz |
| | 9 kW at 500 V AC 50/60 Hz |
| | 11 kW at 500 V AC 50/60 Hz |
| | 15 kW at 500 V AC 50/60 Hz |
| | 15 kW at 660690 V AC 50/60 Hz |
| | 18.5 kW at 660690 V AC 50/60 Hz |
| Breaking capacity | 120 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 100 kA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 70 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 18 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 |
| | 10 kA Icu at 660690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Control type | Toggle |
| [In] rated current | 25 A |
| Magnetic tripping current | 150350 A |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ith] conventional free air thermal current | 115 A conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2 |

| Power dissipation per pole | 6.1 W | | | | | |
|----------------------------|--|--|--|--|--|--|
| Mechanical durability | 40000 cycles | | | | | |
| Electrical durability | 40000 cycles for AC-3 at 440 V In/2 20000 cycles for AC-3 at 440 V In | | | | | |
| Maximum operating rate | 25 cyc/h | | | | | |
| Rated duty | Continuous conforming to IEC 60947-4-1 | | | | | |
| Connection pitch | 27 mm without spreaders 35 mm with spreaders | | | | | |
| Connections - terminals | Lugs-ring terminals | | | | | |
| Tightening torque | 9 N.m for cable 1695 mm ² 5 N.m for cable 1.510 mm ² | | | | | |
| Mechanical robustness | Vibrations: +/- 1 mm 213.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2100 Hz conforming to IEC 60068-2-6 Shocks: 15 gn 11 ms conforming to IEC 60068-2-27 | | | | | |
| Height | 155 mm | | | | | |
| Width | 81 mm | | | | | |
| Depth | 116 mm | | | | | |
| Net weight | 1.5 kg | | | | | |
| Colour | Grey (RAL 7016) | | | | | |
| Suitability for isolation | Yes conforming to IEC 60947-1 | | | | | |

Environment

| Standards | EN/IEC 60947-4-1 EN/IEC 60947-2 |
|---------------------------------------|-------------------------------------|
| Product certifications | IEC CCC EAC EU-RO MR |
| Climatic withstand | conforming to IACS E10 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| pollution degree | 3 |
| IP degree of protection | IP40 conforming to IEC 60529 |
| Ambient air temperature for storage | -5085 °C |
| Fire resistance | 960 °C conforming to IEC 60695-2-11 |
| Operating altitude | 5000 m |
| Ambient air temperature for operation | -2570 °C |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 12.5 cm |
| Package 1 Width | 9 cm |
| Package 1 Length | 22 cm |
| Package 1 Weight | 1.494 kg |

Contractual warranty

Warranty

18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

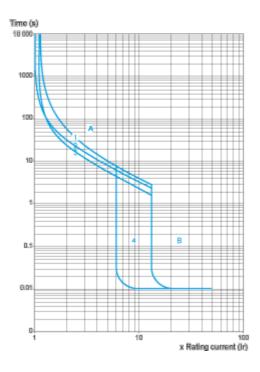
| Materials and Packaging | |
|--|--------------------------------------|
| Recycled metal content at CR level | 0 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | No |
| EU RoHS Directive | Compliant |
| SCIP Number | 1b259a2c-3a3c-401a-acdd-f0837efd4018 |
| REACh Regulation | REACh Declaration |
| Halogen content performance | Halogen free plastic parts product |
| PVC free | Yes |

Use Again

| ○ Repack and remanufacture | |
|----------------------------|---|
| Circularity Profile | End of Life Information |
| Take-back | No |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Performance Curves

Tripping Curves for GV4L and GV4LE Combined with Thermal Overload Relay LRD or LR9 Average Operating Times at 20 °C Related to Multiples of the Setting Current GV4L02 and GV4LE02 to 12 with LRD05 to LRD14, GV4L80 and GV4LE80 with LRD3363

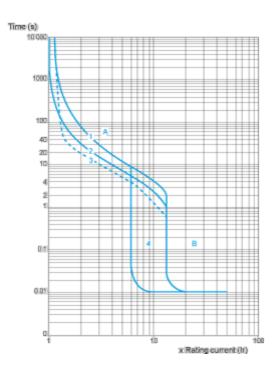


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- 4 6...14 lr
- A Thermal overload relay protection zone
- B GV4L protection zone

GV4L25 and GV4LE25 with LRD 318, LRD325 GV4L50 AND GV4LE50 with LRD 332, LRD 340, LRD 350

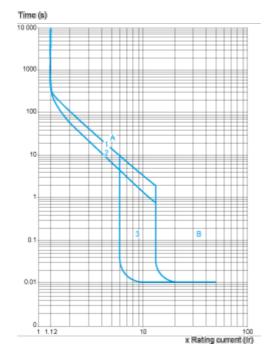
Product datasheet

GV4LE25S6



- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- 4 6...14 lr
- A Thermal overload relay protection zone
- B GV4L protection zone

GV4L115 and GV4LE115 with Class 10 LR9F5367, LR9D5369 and Class 20 LR9D5567, LR9F5569

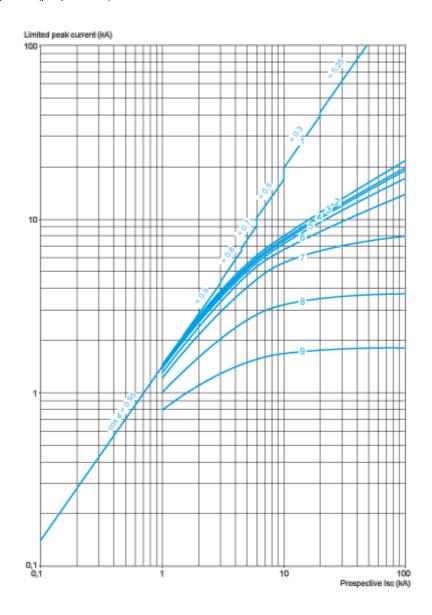


- 1 Cold state curve
- 2 Hot state curve
- 3 6...14 lr

Current Limitation on Short-Circuit for GV4L, GV4LE (3-Phase 400/415 V)

Dynamic Stress

I peak = f (prospective lsc) at 1.05 Ue = 435 V

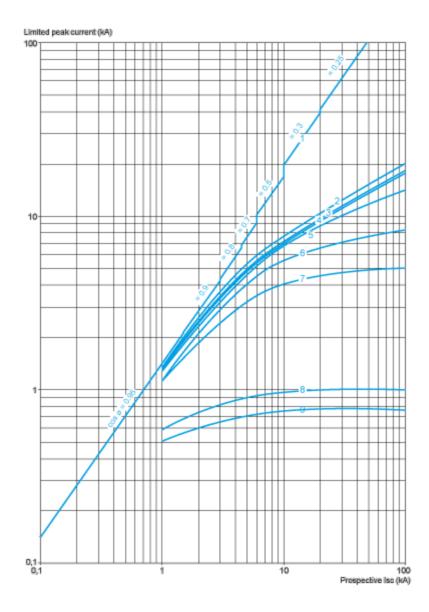


- 1 Maximum peak current
- 2 GV4L115
- 3 GV4L80
- 4 GV4L50
- 5 GV4L25
- 6 GV4L12
- 7 GV4L07
- 8 GV4L03
- 9 GV4L02

Current Limitation on Short-Circuit for GV4L, GV4LE + Thermal Overload Relay LRD or LR9 (3-Phase 400/415 V)

Dynamic Stress

I peak = f (prospective lsc) at 1.05 Ue = 435 V

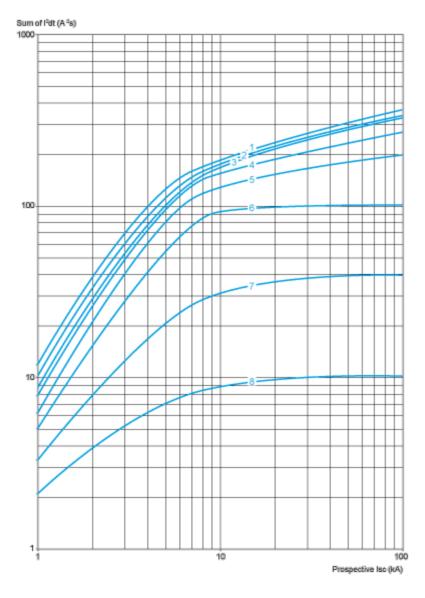


- 1 Maximum peak current
- 2 GV4L115 + LR9D5367 or LR9F5367
- 3 GV4L80 + LRD3361
- 4 GV4L50 + LRD340
- 5 GV4L25 + LRD325
- 6 GV4L12 + LRD313
- 7 GV4L07 + LRD12
- 8 GV4L03 + LRD07
- 9 GV4L02 + LRD07

Thermal Limit on Short-Circuit for GV4L, GV4LE

Thermal Limit in A²s

Sum of I^2 dt = f (prospective Isc) at 1.05 Ue = 435 V

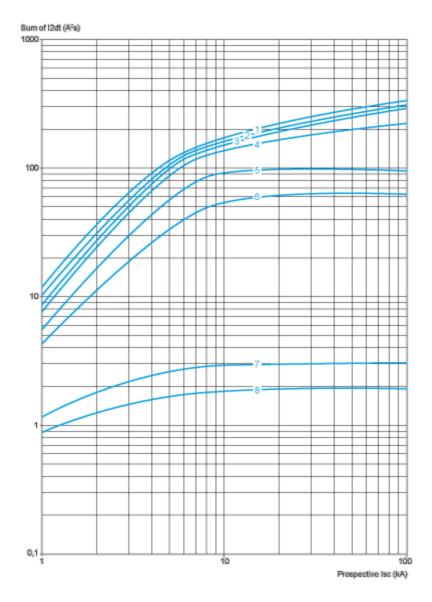


- 1 GV4L115
- GV4L80 2
- GV4L50 3
- GV4L25
- GV4L12 5
- GV4L07 6
- GV4L03
- GV4L02 8

Current Limitation on Short-Circuit for GV4L, GV4LE + Thermal Overload Relay LRD or LR9

Thermal Limit in kA in the Magnetic Operating Zone

Sum of I^2 dt = f (prospective Isc) at 1.05 Ue = 435 V

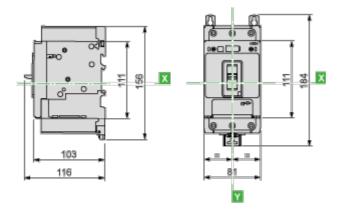


- 1 GV4L115 + LR9D5367 or LR9F5367
- 2 GV4L80 + LRD3361
- 3 GV4L50 + LRD340
- 4 GV4L25 + LRD325
- 5 GV4L12 + LRD313
- 6 GV4L07+ LRD12
- 7 GV4L03+ LRD07
- 8 GV4L02 + LRD07

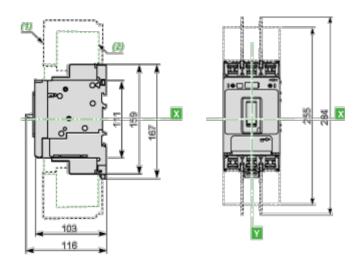
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink[®] Connector

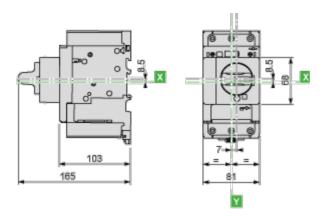


With Crimp Lug Connector



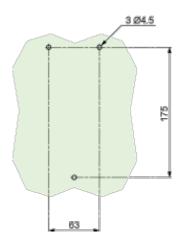
- (1) Interphases barriers
- (2) Long terminal shield

GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle Dimensions

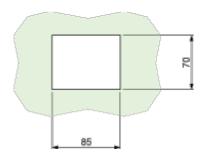


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

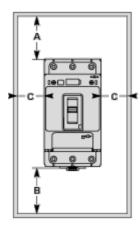
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



Toggle-type, rotary handle-type: identical clearance values.

| reggio type, retary manage type members energine randon | | | | | | |
|---|---------------------|---|---|------------------|---|---|
| Safety Clearance (mm) | | | | | | |
| | Painted Sheet Metal | | | Bare Sheet Metal | | |
| | Α | В | С | Α | В | С |
| No accessory | 30 | 0 | 0 | 40 | 0 | 5 |
| Interphase barriers | 0 | 0 | 0 | 0 | 0 | 5 |
| Long terminal shield | 0 | 0 | 0 | 0 | 0 | 5 |

Connections and Schema

Magnetic Motor Circuit Breakers

GV4L, GV4LE

