



### Main

Range	TeSys
Product name	TeSys GV3
Device short name	GV3L
Device application	Motor
Poles description	3P
Network type	AC
Utilisation category	AC-3 conforming to IEC 60947-4-1 Category A conforming to IEC 60947-2
Network frequency	50/60 Hz
Breaking capacity	50 kA I <sub>cu</sub> at 440 V AC 50/60 Hz 100 kA I <sub>cu</sub> at 230/240 V AC 50/60 Hz 12 kA I <sub>cu</sub> at 500 V AC 50/60 Hz 6 kA I <sub>cu</sub> at 690 V AC 50/60 Hz 50 kA I <sub>cu</sub> at 400/415 V AC 50/60 Hz
[I <sub>cs</sub> ] rated service short-circuit breaking capacity	50 % at 500 V AC 50/60 Hz 50 % at 690 V AC 50/60 Hz 100 % at 230/240 V AC 50/60 Hz 100 % at 400/415 V AC 50/60 Hz 100 % at 440 V AC 50/60 Hz
Trip unit technology	Magnetic
Magnetic tripping current	910 A

### Complementary

Fixing mode	Clipped on 35 mm symmetrical DIN rail Screwed on panel (with 3 x M4 screws)
Operating position	Any position
Motor power kW	37 kW at 500 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz 30 kW at 400/415 V AC 50/60 Hz
Control type	Rotary knob
[U <sub>e</sub> ] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2

[Ui] rated insulation voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-2
Mechanical durability	50000 cycles
Electrical durability	50000 cycles for AC-3 at 415 V
Operating rate	25 cyc/h
Connections - terminals	EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> solid EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> flexible without cable end EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> flexible with cable end EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> solid EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> flexible without cable end EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> flexible with cable end
Tightening torque	5 N.m on EverLink BTR screw connectors for cable 25 mm <sup>2</sup> 8 N.m on EverLink BTR screw connectors for cable 35 mm <sup>2</sup>
Mechanical robustness	Shocks closed 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks opened 30 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations 4 Gn, 5...300 Hz conforming to IEC 60068-2-6
Suitability for isolation	Yes conforming to IEC 60947-1
Phase failure sensitivity	Yes
Height	132 mm
Width	55 mm
Depth	136 mm
Product weight	0.96 kg

## Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2
Product certifications	ABS BV CCC LROS (Lloyds register of shipping) EAC DNV-GL
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK09
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	0...3000 m

## Offer Sustainability

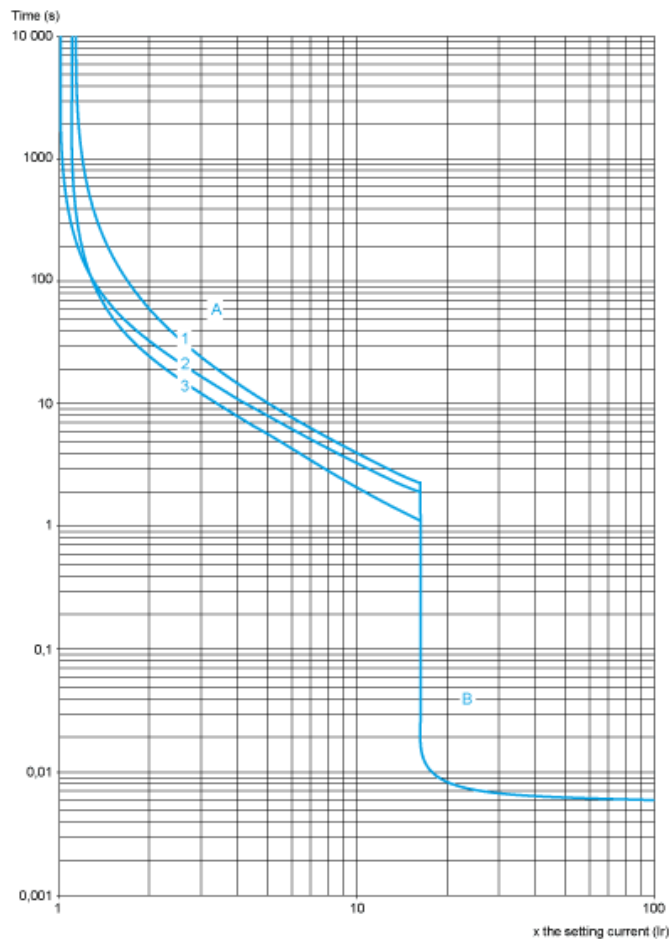
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0501 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product Environmental Profile</a>
Product end of life instructions	Need no specific recycling operations <a href="#">End of Life Information</a>

## Contractual warranty

Warranty period	18 months
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Tripping Curves for GV3L Combined with Thermal Overload Relay LRD33

Average Operating time at 20 °C without Prior Current Flow

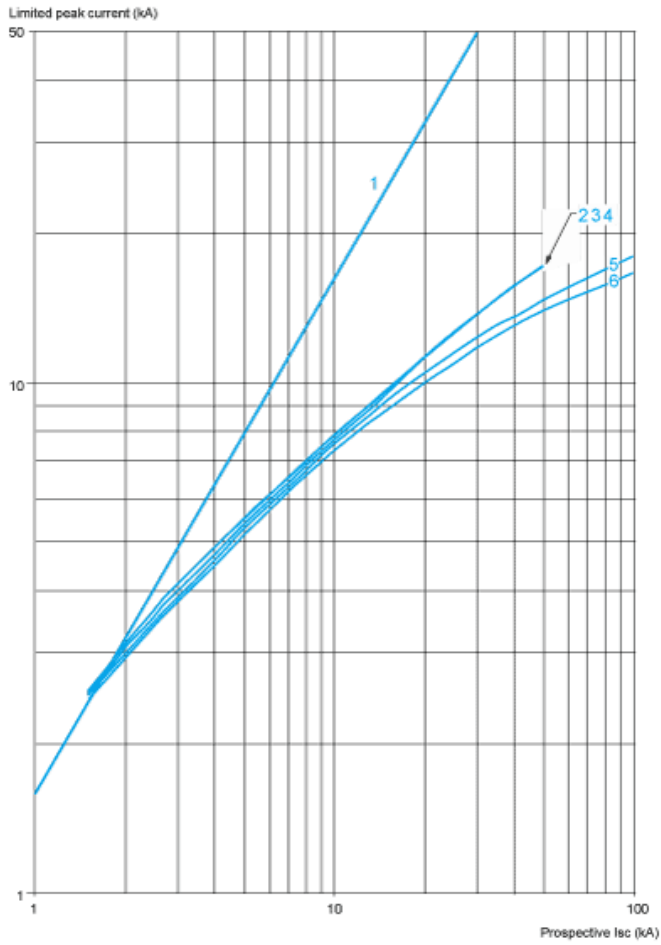


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- A Thermal overload relay protection zone
- B GV3L protection zone

Current Limitation on Short-Circuit for GV3L (3-Phase 400/415 V)

Dynamic Stress

$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$

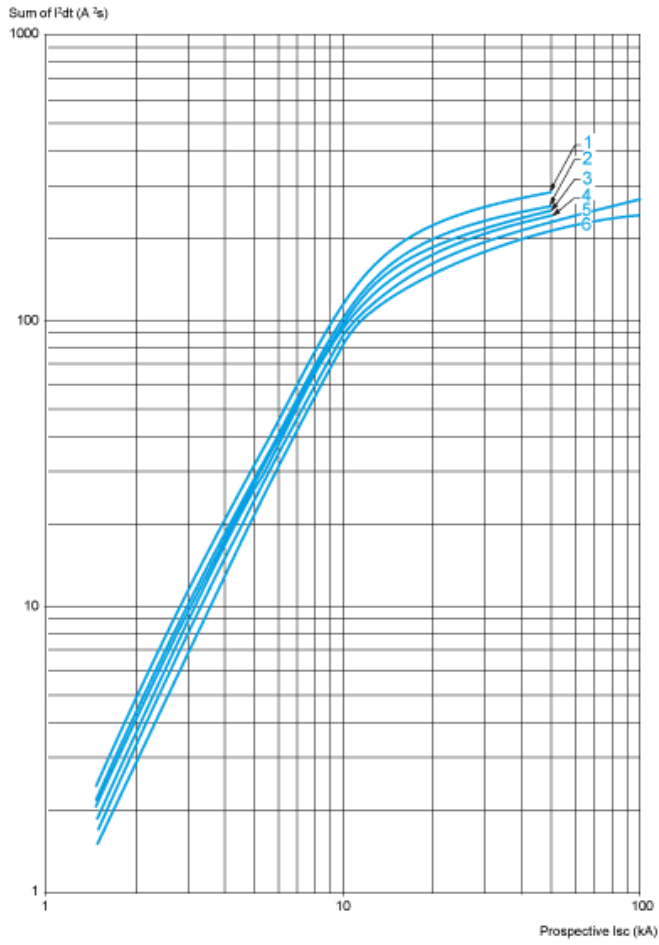


- 1 Maximum peak current
- 2 GV3L80 - GV3L73 - GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25

### Thermal Limit on Short-Circuit for GV3L

Thermal Limit in  $A^2s$

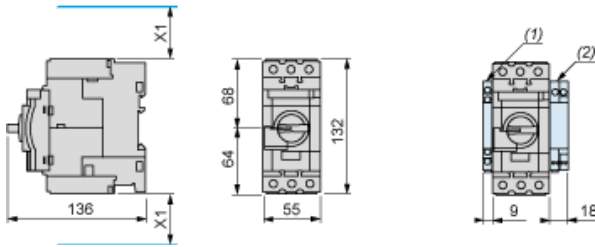
Sum of  $I^2dt = f$  (prospective Isc) at  $1.05 U_e = 435 V$



- 1 GV3L73 - GV3L80
- 2 GV3L65
- 3 GV3L50
- 4 GV3L40
- 5 GV3L32
- 6 GV3L25

GV3L, GV3P

Dimensions

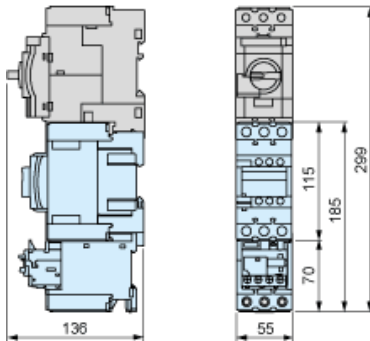


- (1) Blocks GVAN..., GVAD... and GVAM11.  
(2) Blocks GV3AU... and GV3AS...

X1 = Electrical clearance (ISC max) 40 mm for  $U_e \leq 500$  V, 50 mm for  $U_e \leq 690$  V

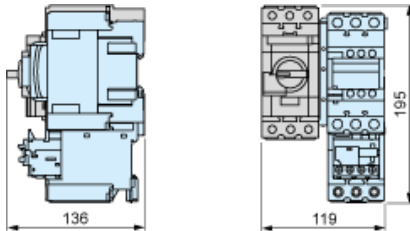
NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

Mounting with Tesys contactor LC1D40A...D80A and relay LR3D313...380 <sup>(1) (2) (3)</sup>



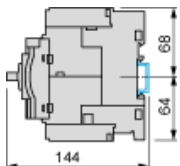
- (1) Mountings with c.b. up to GV3L73, GV3P73.  
(2) For GV3L80, GV3P80 use cable between components for dissipating heat. Consult online datasheets for values.  
(3) S-shape busbar system suitable up to 73 A.

Side by side mounting with Tesys contactor LC1D40A...D73A (S-shape busbar system GV3S <sup>(1)</sup>)

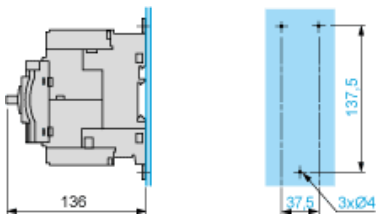


- (1) Mountings with c.b. up to GV3L73, GV3P73.

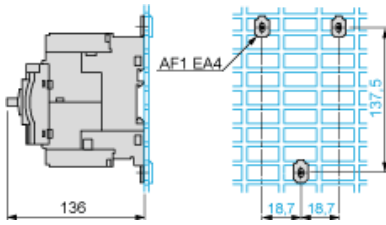
Mounting on Rail AM1 DE200 or AM1 ED201



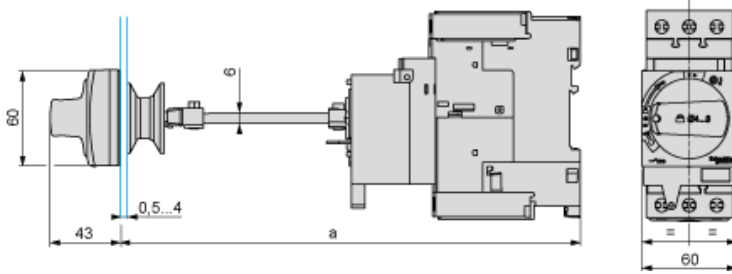
Panel Mounting, using M4 Screws



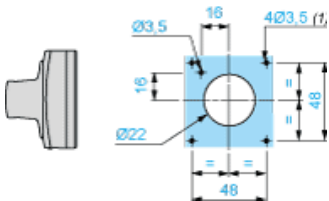
Mounting on Pre-Slotted Plate AM1 PA



Mounting of External Operator GV3APN01, GV3APN02 or GV3APN04 for Motor Circuit Breakers GV3L

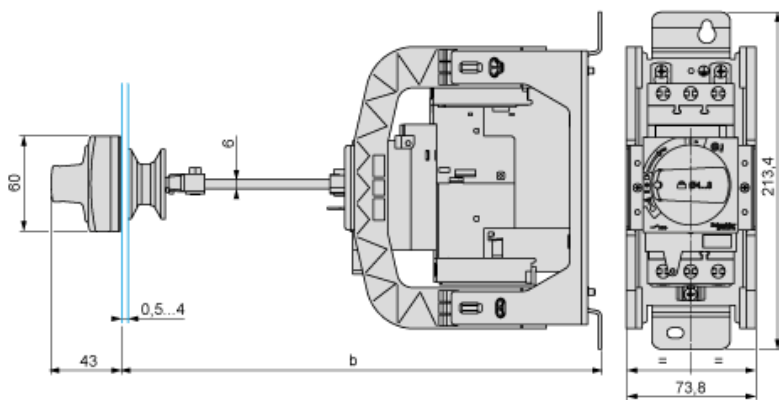


Door cut-out



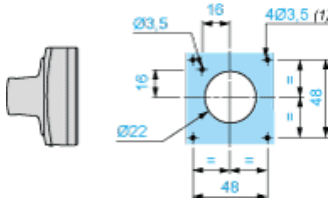
(1) For IP65 only.

Mounting of External Operator GVAPH03 for Motor Circuit Breakers GV3L



	b	
	Minimum	Maximum
GV3APN.. + GVAPH03	200	300
GV3APN.. + GVAPH03 + GVAPK12	300	492

Door cut-out



(1) For IP65 only.



GV3L••

