Product data sheet

Specifications





TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary knob, 37 to 50 A, EverLink BTR

GV3P50

Product availability: Stock - Normally stocked in distribution facility

Price*: 504.00 USD

Main

Range	TeSys Deca	
Product Name	TeSys GV3 TeSys Deca	
Product Or Component Type	Motor circuit breaker	
Device Short Name	GV3P	
Device Application	Motor protection	
Trip Unit Technology	Thermal-magnetic	

Complementary

Poles Description	3P
Network Type	AC
Utilisation Category	AC-3 IEC 60947-4-1
Network Frequency	50/60 Hz IEC 60947-4-1
Fixing Mode	35 mm symmetrical DIN rail clipped Panel screwed with 3 x M4 screws)
Motor Power Kw	22 kW 400/415 V AC 50/60 Hz 30 kW 500 V AC 50/60 Hz 45 kW 690 V AC 50/60 Hz
Breaking Capacity	100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 50 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 50 kA Icu 440 V AC 50/60 Hz IEC 60947-2 12 kA Icu 500 V AC 50/60 Hz IEC 60947-2 6 kA Icu 690 V AC 50/60 Hz IEC 60947-2
[Ics] Rated Service Short-Circuit Breaking Capacity	100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 50 % 500 V AC 50/60 Hz IEC 60947-2 50 % 690 V AC 50/60 Hz IEC 60947-2
Control Type	Rotary handle
Line Rated Current	50 A
Thermal Protection Adjustment Range	3750 A IEC 60947-4-1
Magnetic Tripping Current	700 A
[Ith] Conventional Free Air Thermal Current	50 A IEC 60947-4-1
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz IEC 60947-2

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Ui] Rated Insulation Voltage	690 V AC 50/60 Hz IEC 60947-2	
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947-2	
Phase Failure Sensitivity	Yes IEC 60947-4-1	
Suitability For Isolation	Yes IEC 60947-1	
Power Dissipation Per Pole	8 W	
Mechanical Durability	50000 cycles	
Electrical Durability	50000 cycles AC-3 415 V In	
Rated Duty	Continuous IEC 60947-4-1	
Tightening Torque	44.25 lbf.in (5 N.m) screw clamp terminal	
Width	2.17 in (55 mm)	
Height	5.20 in (132 mm)	
Depth	5.35 in (136 mm)	
Net Weight	2.12 lb(US) (0.96 kg)	
Color	Dark grey	

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1	
Product Certifications	CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV ABS DNV-GL UKCA	
Ik Degree Of Protection	IK09 enclosure	
Ip Degree Of Protection	IP20 IEC 60529	
Climatic Withstand	IACS E10	
Ambient Air Temperature For Storage	-40176 °F (-4080 °C)	
Fire Resistance	1760 °F (960 °C) IEC 60695-2-11	
Ambient Air Temperature For Operation	-4140 °F (-2060 °C)	
Mechanical Robustness	Shocks 15 Gn for 11 ms contactor open Shocks 30 Gn for 11 ms contactor closed Vibrations 4 Gn, 5300 Hz	
Operating Altitude	9842.52 ft (3000 m)	

Ordering and shipping details

Category	US10I1122366	
Discount Schedule	0111	
Gtin	3389119405409	
Returnability	Yes	
Country Of Origin	US	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.30 in (16.000 cm)	
Package 1 Width	2.56 in (6.500 cm)	
Package 1 Length	5.71 in (14.500 cm)	
Package 1 Weight	2.22 lb(US) (1.008 kg)	
Unit Type Of Package 2	P06	
Number Of Units In Package 2	120	
Package 2 Height	29.53 in (75.000 cm)	
Package 2 Width	23.62 in (60.000 cm)	
Package 2 Length	31.50 in (80.000 cm)	
Package 2 Weight	301.95 lb(US) (136.960 kg)	

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

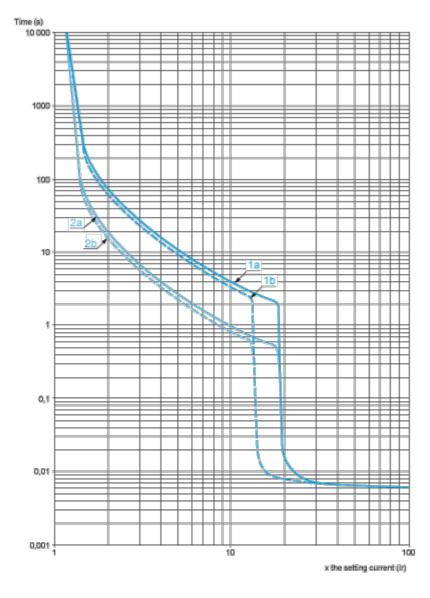
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Performance Curves

Thermal-Magnetic Tripping Curves

Average Operating Times at 20 °C Related to Multiples of the Setting Current

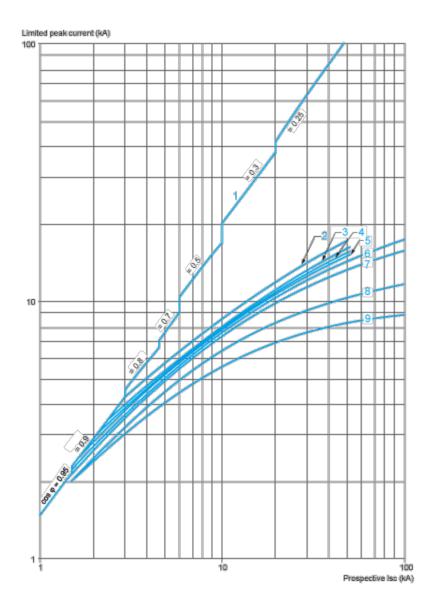


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

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

Dynamic Stress

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



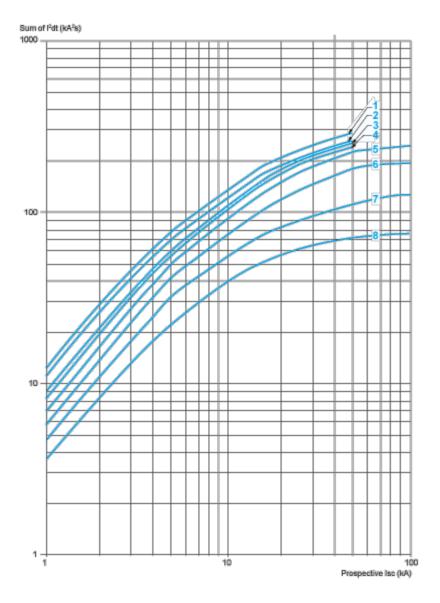
- 1 Maximum peak current
- 2 70-80 A (GV3P80), 62-73 A (GV3P73)
- 3 48-65 A (GV3P65)
- 4 37-50 A (GV3P50)
- 5 30-40 A (GV3P40)
- 6 23-32 A (GV3P32)
- 7 17-25 A (GV3P25)
- 8 12-18 A (GV3P18)
- 9 9-13 A (GV3P13)

Maximum Thermal Limit on Short-Circuit

Thermal Limit in ${\rm kA}^2{\rm s}$ in the Magnetic Operating Zone

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

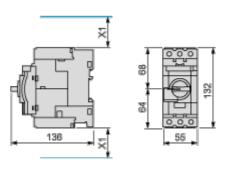
GV3P50

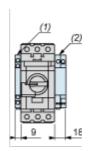


- 70-80 (GV3P80) 62-73 (GV3P73) 1
- 2 48-65 A (GV3P65)
- 37-50 A (GV3P50) 3
- 30-40 A (GV3P40) 4
- 23-32 A (GV3P32) 5
- 17-25 A (GV3P25) 6
- 7 12-18 A (GV3P18)
- 9-13 A (GV3P13)

Dimensions Drawings

GVI3L, GV3P Dimensions



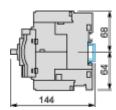


- (1) Blocks $\text{GVAN}_{\bullet \bullet}$, $\text{GVAD}_{\bullet \bullet}$ and GVAM11.
- (2) Blocks GV3AU and GV3AS and GV3AS.

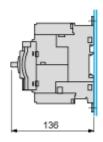
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

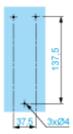
NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

Mounting on Rail AM1 DE200 or AM1 ED201

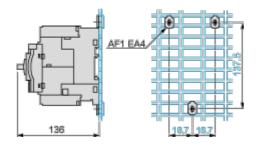


Panel Mounting, using M4 Screws





Mounting on Pre-Slotted Plate AM1 PA



GV3P50

Connections and Schema

GV3P••

