

Introduction

The GV manual starter and protector provides manual isolation, manual motor control, and overcurrent protection in one compact unit. Square D offers three different products that make up the GV product family - GV2M, GV2P, and GV3M. These devices are UL Listed as Manual Motor Controllers.

The GV2M is the basic starter designed to control motors with full load currents up to 32 A. The GV2P is a high performance starter that offers a high withstand rating and visible trip indication. The GV3M starter is used on large motors with full load currents up to 63 A.

The GV manual starters and protectors are also UL Listed for group installation applications. See page 5 for maximum fuse or circuit breaker ratings when used in group installations.

In many European applications, the GV devices are used as circuit breakers because they meet the requirements of IEC 947-2 for circuit breakers. However, the GV starter does not meet North American circuit breaker standards such as UL or CSA.

Standard Features

The GV family offers such standard features as:

- Class 10, ambient compensated overload relay
- Single phase sensitivity
- Instantaneous magnetic trip
- Test trip mechanism
- Provision for padlocking in the OFF position
- Fingersafe terminals
- Captive +/- screws with screw driver guide
- North American and European terminal markings





GV2M
0.1 to 32 A
Up to 20 hp @ 460 V
10 kA withstand @ 480 V
Push Button Operator



GV2P
0.1 to 25 A
Up to 15 hp @ 460 V
50 kA withstand @ 480 V
Rotary Handle Operator
Visible Trip Indication



GV3M
1 to 63 A
Up to 40 hp @ 460 V
50 kA withstand @ 480 V
Push Button Operator

Type of protection	Thermal-magnetic		
Mounting	<ul style="list-style-type: none"> ● Clip-on mounting on 35 mm DIN rail. Unclips without using a tool. ● Panel mount with metal adapter plate. 	<ul style="list-style-type: none"> ● Clip-on mounting on 35 mm DIN rail. Unclips without using a tool. ● Panel mount directly. 	<ul style="list-style-type: none"> ● Clip-on mounting on 35 mm DIN rail. Unclips without using a tool. ● Panel mount directly.
Connection	Use a cross-head screwdriver; captive screws. Same screwdriver used for connections on GV2 starters and their add-on blocks.		
Marking	By marker holder supplied with each unit.		
Tripping test	By means of a fine-blade screwdriver on front face of product.		
Signalling on front face	<ul style="list-style-type: none"> ● Of ON or OFF state 	<ul style="list-style-type: none"> ● Of ON or OFF state ● Of tripping by overload, short circuit, undervoltage or shunt trip. ● Of tripping by short circuit. 	<ul style="list-style-type: none"> ● Of ON or OFF state
<ul style="list-style-type: none"> ● By the manual control device ● By mechanical flag indicator 			
Padlocking	In the OFF position, with padlock, using the system incorporated in the manual control device.		
Tamper-proof current dial	—	Of the thermal current setting dial, by transparent cover which can be sealed.	—
Accessories	<p>Mounted on the front of the product:</p> <ul style="list-style-type: none"> - Either N/C or N/O, N/O + N/O or N/O + N/C instantaneous contact blocks which do not increase the width of the product. <p>Side-mounting, accessories snap onto the starters, without the use of tools.</p> <ul style="list-style-type: none"> ● On the left-hand side, contact blocks which provide the following information: <ul style="list-style-type: none"> - N/O + N/O or N/O + N/C Start-Stop contacts, - N/O or N/C trip signalling contact, incorporating a mechanical flag indicator, and N/O or N/C Start-Stop contact, - C/O magnetic trip signalling contact, associated with a mechanical flag indicator, used for reset. ● On the right-hand side: <ul style="list-style-type: none"> - shunt trip or undervoltage trip. 		
	<ul style="list-style-type: none"> - Combination block for use with K contactor. - Bus bars and connectors 	<ul style="list-style-type: none"> - For GV2P, visible isolation block which mounts on the incoming terminals of the device - Door interlock mechanism. 	



GV2 and GV3 Manual Starters Selection



Thermal Setting (A)	Maximum Horsepower Ratings						GV2M Pushbutton Catalog Number	GV2P Rotary Handle Catalog Number	
	Single Phase		Three Phase						
	115 V HP	230 V HP	200 V HP	230 V HP	460 V HP	575 V HP			
0.11-0.16	-	-	-	-	-	-	GV2M01	GV2P01	See pages 6-11 for GV2 accessories and enclosures.
0.016-0.25	-	-	-	-	-	-	GV2M02	GV2P02	
0.25-0.40	-	-	-	-	-	-	GV2M03	GV2P03	
0.40-0.63	-	-	-	-	-	-	GV2M04	GV2P04	
0.63-1	-	-	-	-	1/2	1/2	GV2M05	GV2P05	
1-1.6	-	1/10	-	-	3/4	1	GV2M06	GV2P06	
1.6-2.5	-	1/6	1/2	1/2	1	1-1/2	GV2M07	GV2P07	
2.5-4	1/8	1/3	3/4	1	2	3	GV2M08	GV2P08	
4-6.3	1/4	1/2	1-1/2	1-1/2	3	5	GV2M10	GV2P10	
6-10	1/2	1-1/2	2	3	5	7-1/2	GV2M14	GV2P14	
9-14	3/4	2	3	3	10	10	GV2M16	GV2P16	
13-18	1	3	5	5	10	15	GV2M20	GV2P20	
17-23	1-1/2	3	5	7-1/2	15	20	GV2M21	GV2P21	
20-25	2	3	5	7-1/2	15	20	GV2M22	GV2P22	
24-32	2	5	10	10	20	30	GV2M32		
1-1.6	-	1/10	-	-	3/4	1	GV3M06		See page 28 for GV3 accessories and enclosures.
1.6-2.5	-	1/16	1/2	1/2	1	1-1/2	GV3M07		
2.5-4	1/8	1/3	3/4	1	2	3	GV3M08		
4-6	1/4	1/2	1-1/2	1-1/2	3	-	GV3M10		
6-10	1/2	1-1/2	2	3	5	7-1/2	GV3M14		
10-16	1	2	3	5	10	10	GV3M20		
16-25	2	3	5	7-1/2	15	20	GV3M25		
25-40	3	7-1/2	10	10	30	30	GV3M40		
40-63	5	10	20	20	40	60	GV3M63		



GV2M



GV2P



GV3M



File E164864
CCN NLRV



File LR 81630
Class 3211 05

