

The GV family of products are 3-pole, horsepower rated, UL 508 listed manual starters. They include a manual disconnect, class 10 ambient-compensated thermal overload relay, and instantaneous, magnetic trip mechanism in one compact unit.

Any GV manual starter can be used alone for local manual control of a motor with individual full-load currents up to 220 A. The GV products may also be used in group motor installations in accordance with National Electric Code article 430-53. Group motor installations give you greater panel density for smaller size and require fewer parts and less wiring for installation when compared to conventional panel designs.

The GV2P and GV3P products also have an additional UL 508 type E rating as a stand-alone, self-protected manual combination starter. The UL 508 type E rating requires the addition of line side insulating barrier GV2GH7 for the GV2P, or GV3G66 for the GV3P. The GV2P and GV3P self-protected manual combination starters may also be combined with specific size contactors from the LC1D product family for a UL 508 Type F combination starter construction. These products have a UL-listed short circuit current rating from 10–100 kA depending on application size and voltage. See the Schneider Electric website for more information.

**How to Order**

To order a basic motor starter, select the model number (GV2ME\*\*, GV2P\*\*, or GV3P\*\*) with the appropriate thermal setting from the table below. The thermal trip range and setting should be determined from the motor nameplate full-load current.

**Table 18.133: GV2, GV3**

Thermal Setting (A)	Maximum Horsepower Ratings						Group Motor Applications Max. Fuse or Circuit Breaker	GV2/3M push button		GV2/3P rotary handle	
	1 Ø			3 Ø				Catalog Number	\$ Price	Catalog Number	\$ Price
	115 V hp	230 V hp	200 V hp	230 V hp	460 V hp	575 V hp					
0.11–0.16	—	—	—	—	—	—	450 A	GV2ME01▲	159.	GV2P01	212.
0.16–0.25	—	—	—	—	—	—	450 A	GV2ME02▲	159.	GV2P02	212.
0.25–0.40	—	—	—	—	—	—	450 A	GV2ME03▲	159.	GV2P03	212.
0.40–0.63	—	—	—	—	—	—	450 A	GV2ME04▲	180.	GV2P04	233.
0.63–1	—	—	—	—	0.5	0.5	450 A	GV2ME05▲	180.	GV2P05	233.
1–1.6	—	0.1	—	—	0.75	1	450 A	GV2ME06▲	180.	GV2P06	233.
1.6–2.5	—	0.667	0.5	0.5	1	1.5	450 A	GV2ME07▲	180.	GV2P07	233.
2.5–4	1/8	0.333	0.75	1	2	3	450 A	GV2ME08▲	180.	GV2P08	233.
4–6.3	1/4	0.5	1.5	1.5	3	5	450 A	GV2ME10▲	180.	GV2P10	233.
6–10	0.5	1.5	2	3	5	7.5	450 A	GV2ME14▲	180.	GV2P14	233.
9–14	0.75	2	3	3	10	10	450 A	GV2ME16▲	224.	GV2P16	278.
13–18	1	3	5	5	10	15	450 A	GV2ME20▲	224.	GV2P20	278.
17–23	1.5	3	5	7.5	15	20	450 A	GV2ME21▲	224.	GV2P21	278.
20–25	2	3	5	7.5	15	20	450 A	GV2ME22▲	224.	GV2P22	278.
24–32	2	5	10	10	20	30	450 A	GV2ME32	224.	GV2P32	278.
9–13	0.5	1	3	3	7.5	10	—	—	—	GV3P13	404.
12–18	0.75	2	3	5	7.5	10	—	—	—	GV3P18	404.
17–25	1.5	3	5	7.5	15	20	—	—	—	GV3P25	404.
23–32	2	3	7.5	7.5	20	25	—	—	—	GV3P32	404.
30–40	3	5	10	10	25	30	—	—	—	GV3P40	504.
37–50	3	7.5	10	10	30	40	—	—	—	GV3P50	504.
48–65	3	10	15	15	40	50	—	—	—	GV3P65	504.

▲ For spring terminals add 3 to the catalog number (for example, GV2ME013). GV2ME32 is not available with spring terminals. For ring terminals, add 6.

**Table 18.134: GV7**

Thermal Setting (A)	Maximum Horsepower Ratings						Toggle Operator			
	1 Ø			3 Ø			Standard Interrupt		High Interrupt	
	115 V hp	230 V hp	200 V hp	230 V hp	460 V hp	575 V hp	Catalog Number	\$ Price	Catalog Number	\$ Price
12–20	—	—	—	5	10	15	GV7RE20	417.	GV7RS20	813.
15–25	—	—	—	7.5	15	20	GV7RE25	417.	GV7RS25	813.
25–40	—	—	—	10	30	30	GV7RE40	417.	GV7RS40	813.
30–50	—	—	—	15	30	40	GV7RE50	417.	GV7RS50	813.
48–80	—	—	—	30	60	75	GV7RE80	417.	GV7RS80	813.
60–100	—	—	—	30	75	100	GV7RE100	456.	GV7RS100	891.
90–150	—	—	—	50	100	150	GV7RE150	502.	GV7RS150	978.
132–220	—	—	—	75	150	200	GV7RE220	502.	GV7RS220	978.

Specifications: page 18-36  
Accessories: pages 18-34 to 18-35  
Dimensions: pages 18-52 to 18-55

**Motor Protector Circuit Breakers**

Motor protector circuit breakers provide built-in thermal and magnetic protection. They are used in two-device motor feeder solutions to provide protection against short circuits, overloads, and phase imbalance.

**Table 18.135: Two-Device Solutions—Electronic Motor Protector Circuit Breakers with UL Ratings: H-Frame (150A), J-Frame (250 A), and L-Frame (600 A)■ (refer to discount schedule DE2)**

Electronic Trip Unit Type	Frame	Sensor Rating	Trip Unit	Full Load Ampere Rating (FLA)	Isd (x FLA)	G Interrupting		J Interrupting		L Interrupting	
						Cat. No.	\$ Price	Cat. No.	\$ Price	Cat. No.	\$ Price
Standard♦	H-Frame	30	2.2 M	14-25	5-13 x FLA	HGL36030M38X	1608.	HJL36030M38X	1658.	HLL36030M38X	1812.
		50		14-42	5-13 x FLA	HGL36050M38X	1938.	HJL36050M38X	1998.	HLL36050M38X	2191.
		100		30-80	5-13 x FLA	HGL36100M38X	2229.	HJL36100M38X	2298.	HLL36100M38X	2506.
	J-Frame	150		58-130	5-13 x FLA	HGL36150M38X	2701.	HJL36150M38X	2785.	HLL36150M38X	3057.
		250		114-217	5-13 x FLA	JGL36250M38X	3105.	JJL36250M38X	3201.	JLL36250M38X	3253.
		400		190-348	5-13 x FLA	LGL36400M38X	6041.	LJL36400M38X	6160.	LLL36400M38X	6468.
L-Frame	600	312-520	5-13 x FLA	LGL36600M38X	8429.	LJL36600M38X	8604.	LLL36600M38X	9156.		

■ Two-device solutions (these electronic motor protector circuit breakers include short circuit and overload protection):

- 1 contactor, plus
- 1 electronic motor circuit protector with a Micrologic 2.2 M

♦ The standard trip unit offers Class 5, 10, and 20 and phase unbalance or phase loss protection.

UL E164864  
CCN NLRV

SF LR81630  
Class 3211 05



Table 18.181: TeSys GV2 and GV3 Manual Starter and Protector Dimensions

<p><b>GV2M</b></p>	<p><b>GV2AD, AM, AN, AU, AS, AX</b></p> <p>Block GV2AD, AM, AN Block GV2AU, AS, AX</p>	<p><b>GV2AE</b></p>	<p><b>Mounting of GV2M</b></p> <p>On 35 mm L rail                  C = 78.5 mm (3.09") on AM1DP200 (35 x 7.5 mm)                  C = 86 mm (3.39") on AM1DE200, ED200 (35 x 15 mm)</p>																																
<p><b>GV2P</b></p>	<p><b>GV2AD, AM, AN, AU, AS, AX</b></p> <p>Block GV2AD, AM, AN Block GV2AU, AS, AX</p>	<p><b>GV2AK00</b></p>	<p><b>Mounting of GV2P</b></p> <p>On 35 mm L rail                  C = 98.5 mm (3.88") on AM1DP200 (35 x 7.5 mm)                  C = 106 mm (4.17") on AM1DE200, ED200 (35 x 15 mm)</p>																																
<p><b>GV2AF4 + LAD31</b></p> <p>Combination GV2ME + TeSys D range contactor</p>	<p>Combination GV2P + TeSys D range contactor</p>	<p><b>GV2P + GV2GH7</b></p> <p>for UL 508 Type E application</p>	<p><b>GV2P + GV2GH7 + TeSys D contactor</b></p> <p>for UL 508 Type E application</p>																																
<p><b>GV2ME +</b></p> <table border="1"> <tr><td>b</td><td>7.4 (188.6)</td><td>7.8 (199)</td></tr> <tr><td>c1</td><td>3.6 (92.7)</td><td>3.9 (99)</td></tr> <tr><td>c</td><td>3.9 (98.2)</td><td>4.11 (104.5)</td></tr> <tr><td>d1</td><td>3.9 (98.3)</td><td>3.9 (98.3)</td></tr> <tr><td>d</td><td>4.1 (103.8)</td><td>1.4 (103.8)</td></tr> </table>	b	7.4 (188.6)	7.8 (199)	c1	3.6 (92.7)	3.9 (99)	c	3.9 (98.2)	4.11 (104.5)	d1	3.9 (98.3)	3.9 (98.3)	d	4.1 (103.8)	1.4 (103.8)	<p><b>LC2D09 to D18</b></p>	<p><b>LC2D25 and D32</b></p>	<p><b>GV2P +</b></p> <table border="1"> <tr><td>b</td><td>6.61 (168.1)</td><td>7.9 (199.5)</td></tr> <tr><td>c1</td><td>4.6 (116.8)</td><td>4.6 (116.8)</td></tr> <tr><td>c</td><td>4.8 (122.3)</td><td>4.8 (122.3)</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </table>	b	6.61 (168.1)	7.9 (199.5)	c1	4.6 (116.8)	4.6 (116.8)	c	4.8 (122.3)	4.8 (122.3)	—	—	—	—	—	—	<p><b>LC2D09 to D18</b></p>	<p><b>LC2D25 and D32</b></p>
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<p><b>Surface mounting enclosure GV2MC0</b></p> <p>▲ 4 knock-outs for 16 mm plastic cable glands or no. 16 conduit.</p>			<p><b>Flush mounting enclosure GV2MP0 (bracket cut-out)</b></p>																																

GV2	b		b1	
	in.	mm	in.	mm
MP01, MP02	5.51	140	5.00	127
MP03, MP04	5.24	133	4.61	117