

TeSys GV2

0.06 to 15 kW



Circuit
breakers

TeSys protection components

Magnetic motor circuit breakers GV2L



GV2L10

Motor circuit breakers from 0.09 to 15 kW												
GV2L: Control by rotary knob, connection by screw clamp terminals												
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Magnetic protection rating	Tripping current I _d ± 20 %	Use in association with thermal overload relay (class 10 A)	Reference
400/415 V			500 V			690 V						
P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	A	A		
0.09	*	*	-	-	-	-	-	-	0.4	5	LRD 03	GV2L03
0.12	*	*	-	-	-	0.37	*	*	0.63	8	LRD 04	GV2L04
0.18	*	*	-	-	-	-	-	-	0.63	8	LRD 04	GV2L04
-	-	-	-	-	-	0.55	*	*	1	13	LRD 05	GV2L05
0.25	*	*	-	-	-	-	-	-	1	13	LRD 05	GV2L05
-	-	-	-	-	-	0.75	*	*	1	13	LRD 06	GV2L05
0.37	*	*	0.37	*	*	-	-	-	1	13	LRD 05	GV2L05
0.55	*	*	0.55	*	*	1.1	*	*	1.6	22.5	LRD 06	GV2L06
-	-	-	0.75	*	*	-	-	-	1.6	22.5	LRD 06	GV2L06
0.75	*	*	1.1	*	*	1.5	4	100	2.5	33.5	LRD 07	GV2L07
1.1	-	-	-	-	-	-	-	-	-	-	LRD 08	GV2L08
1.5	*	*	1.5	*	*	3	4	100	4	51	LRD 08	GV2L08
-	-	-	-	-	-	-	-	-	-	-	LRD 08	GV2L08
2.2	*	*	3	*	*	4	4	100	6.3	78	LRD 10	GV2L10
3	*	*	4	10	100	5.5	4	100	10	138	LRD 12	GV2L14
4	-	-	-	-	-	-	-	-	-	-	LRD 14	GV2L14
-	-	-	-	-	-	7.5	4	100	10	138	LRD 14	GV2L14
-	-	-	-	-	-	9	4	100	14	170	LRD 16	GV2L16
5.5	50	50	7.5	10	75	11	4	100	14	170	LRD 16	GV2L16
7.5	50	50	9	10	75	15	4	100	18	223	LRD 21	GV2L20
9	50	50	11	10	75	18.5	4	100	25	327	LRD 22	GV2L22
11	50	50	15	10	75	-	-	-	25	327	LRD 22	GV2L22
15	50	50	18.5	10	75	22	4	100	32	416	LRD 32	GV2L32

(1) As % of I_{cu}. Associated current limiter or fuses, where required.
 *) > 100 kA.

References - TeSys GV2 0.06 to 15 kW

TeSys protection components

Magnetic motor circuit breakers GV2LE



GV2LE10

Magnetic motor circuit breakers from 0.06 to 15 kW												
GV2LE: control by rocker lever, connection by screw clamp terminals												
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Magnetic protection rating	Tripping current Id ± 20 %	Use in association with thermal overload relay	Reference
400/415 V			500 V			690 V						
P	Icu	Ics ⁽¹⁾	P	Icu	Ics ⁽¹⁾	P	Icu	Ics ⁽¹⁾	A	A		
0.06	*	*	-	-	-	-	-	-	0.4	5	LR2 K0302	GV2LE03
0.09	*	*	-	-	-	-	-	-	0.4	5	LR2 K0304	GV2LE03
0.12	*	*	-	-	-	0.37	*	*	0.63	8	LR2 K0304	GV2LE04
0.18	*	*	-	-	-	-	-	-	0.63	8	LR2 K0305	GV2LE04
-	-	-	-	-	-	0.55	*	*	1	13	LR2 K0305	GV2LE05
0.25	*	*	-	-	-	-	-	-	1	13	LR2 K0306	GV2LE05
-	-	-	-	-	-	0.75	*	*	1	13	LR2 K0306	GV2LE05
0.37	*	*	0.37	*	*	-	-	-	1	13	LR2 K0306	GV2LE05
0.55	*	*	0.55	*	*	1.1	*	*	1.6	22.5	LR2 K0307	GV2LE06
-	-	-	0.75	*	*	-	-	-	1.6	22.5	LR2 K0307	GV2LE06
0.75	*	*	1.1	*	*	1.5	3	75	2.5	33.5	LR2 K0308	GV2LE07
1.1	*	*	-	-	-	-	-	-	2.5	33.5	LR2 K0308	GV2LE07
1.5	*	*	1.5	*	*	3	3	75	4	51	LR2 K0310	GV2LE08
-	-	-	2.2	*	*	-	-	-	4	51	LR2 K0312	GV2LE08
2.2	*	*	3	50	100	4	3	75	6.3	78	LR2 K0312	GV2LE10
3	*	*	4	10	100	5.5	3	75	10	138	LR2 K0314	GV2LE14
4	*	*	5.5	10	100	-	-	-	10	138	LR2 K0316	GV2LE14
-	-	-	-	-	-	7.5	3	75	10	138	LRD 14	GV2LE14
-	-	-	-	-	-	9	3	75	14	170	LRD 16	GV2LE16
5.5	15	50	7.5	6	75	11	3	75	14	170	LR2 K0321	GV2LE16
7.5	15	50	9	6	75	15	3	75	18	223	LRD 21	GV2LE20
9	15	40	11	4	75	18.5	3	75	25	327	LRD 22	GV2LE22
11	15	40	15	4	75	-	-	-	25	327	LRD 22	GV2LE22
15	10	50	18.5	4	75	22	3	75	32	416	LRD 32	GV2LE32

⁽¹⁾ As % of Icu.

* > 100 kA.

Circuit breakers

TeSys protection components

Thermal-magnetic motor circuit breakers GV2ME



GV2ME10

Circuit breakers

Motor circuit breakers from 0.06 to 15 kW / 400 V, with screw clamp terminals

GV2ME with pushbutton control											
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Setting range of thermal trips (2)	Magnetic tripping current Id ± 20 %	Reference
400/415 V			500 V			690 V					
P	Icu	Ics (1)	P	Icu	Ics (1)	P	Icu	Ics (1)			
kW	kA	%	kW	kA	%	kW	kA	%	A	A	
-	-	-	-	-	-	-	-	-	0.1...0.16	1.5	GV2ME01
0.06	*	*	-	-	-	-	-	-	0.16...0.25	2.4	GV2ME02
0.09	*	*	-	-	-	-	-	-	0.25...0.40	5	GV2ME03
0.12	*	*	-	-	-	0.37	*	*	0.40...0.63	8	GV2ME04
0.18	*	*	-	-	-	-	-	-			
0.25	*	*	-	-	-	0.55	*	*	0.63...1	13	GV2ME05
0.37	*	*	0.37	*	*	-	-	-	1...1.6	22.5	GV2ME06
0.55	*	*	0.55	*	*	0.75	*	*			
-	-	-	0.75	*	*	1.1	*	*	1.6...2.5	33.5	GV2ME07
0.75	*	*	1.1	*	*	1.5	3	75			
1.1	*	*	1.5	*	*	2.2	3	75	2.5...4	51	GV2ME08
1.5	*	*	2.2	*	*	3	3	75			
2.2	*	*	3	50	100	4	3	75	4...6.3	78	GV2ME10
3	*	*	4	10	100	5.5	3	75	6...10	138	GV2ME14
4	*	*	5.5	10	100	7.5	3	75			
5.5	15	50	7.5	6	75	9	3	75	9...14	170	GV2ME16
-	-	-	-	-	-	11	3	75			
7.5	15	50	9	6	75	15	3	75	13...18	223	GV2ME20
9	15	40	11	4	75	18.5	3	75	17...23	327	GV2ME21
11	15	40	15	4	75	-	-	-	20...25	327	GV2ME22 (3)
15	10	50	18.5	4	75	22	3	75	24...32	416	GV2ME32

Motor circuit breakers from 0.06 to 15 kW / 400 V, with lugs

To order thermal magnetic circuit breakers with connection by lugs, add the digit 6 to the end of reference selected above.

Example: **GV2ME08** becomes **GV2ME086**.

Thermal magnetic circuit breakers GV2 ME with built-in auxiliary contact block

With instantaneous auxiliary contact block (composition, see page B6/21):

- GV AE1, add suffix **AE1TQ** to the motor circuit breaker reference selected above.
Example: **GV2ME01AE1TQ**.
- GV AE11, add suffix **AE11TQ** to the motor circuit breaker reference selected above.
Example: **GV2ME01AE11TQ**.
- GV AN11, add suffix **AN11TQ** to the motor circuit breaker reference selected above.
Example: **GV2ME01AN11TQ**.

These circuit breakers with built-in contact block are sold in lots of 20 units in a single pack.

(1) As % of Icu.

(2) The thermal trip setting must be within the range marked on the graduated knob.

(3) Maximum rating which can be mounted in enclosures **GV2MC** or **MP**, please consult your Regional Sales Office.

* > 100 kA.

TeSys protection components

Thermal-magnetic motor circuit breakers GV2ME - UL applications

DF5261344JF



GV2ME10

Motor circuit breakers from 3/4 to 20 HP / 460 V, with screw clamp terminals										
GV2ME with pushbutton control										
Thermal setting (A)	Maximum Horsepower ratings								Group Motor applications Max. Fuse or Circuit breaker (A)	Reference
	Single-Phase			Three-Phase						
	115 V	200 V	230 V	115 V	200 V	230 V	460 V	575 V		
0.1...0.16	-	-	-	-	-	-	-	-	450	GV2ME01
0.16...0.25	-	-	-	-	-	-	-	-	450	GV2ME02
0.25...0.40	-	-	-	-	-	-	-	-	450	GV2ME03
0.40...0.63	-	-	-	-	-	-	-	-	450	GV2ME04
0.63...1	-	-	-	-	-	-	-	1/2	450	GV2ME05
1...1.6	-	-	1/10	-	-	-	3/4	3/4	450	GV2ME06
1.6...2.5	-	1/6	1/6	-	1/2	1/2	1	1.5	450	GV2ME07
2.5...4	1/8	1/4	1/3	-	3/4	3/4	2	3	450	GV2ME08
4...6.3	1/4	1/2	1/2	3/4	1	1.5	3	5	450	GV2ME10
6...10	1/2	1	1.5	1	2	3	5	7.5	450	GV2ME14
9...14	3/4	2	2	2	3	3	10	10	450	GV2ME16
13...18	1	2	3	2	5	5	10	15	450	GV2ME20
17...23	1.5	3	3	3	5	7.5	15	20	450	GV2ME21
20...25	2	-	-	-	7.5	7.5	15	20	450	GV2ME22
24...32	2	5	5	5	7.5	10	20	25	450	GV2ME32

Circuit breakers

TeSys protection components

Thermal-magnetic motor circuit breakers GV2ME

DF526105.tif



GV2ME●●3

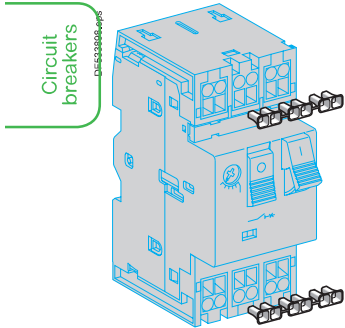
Motor circuit breakers from 0.06 to 11 kW, with spring terminal connections

GV2ME ⁽¹⁾ with pushbutton control									
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Setting range of thermal trips ⁽³⁾	Magnetic tripping current I _d ± 20 %	Reference	
400/415 V			500 V						
P	I _{cu}	I _{cs} ⁽²⁾	P	I _{cu}	I _{cs} ⁽²⁾	A	A		
kW	kA	%	kW	kA	%				
-	-	-	-	-	-	0.1...0.16	1.5		GV2ME013
0.06	*	*	-	-	-	0.16...0.25	2.4		GV2ME023
0.09	*	*	-	-	-	0.25...0.40	5		GV2ME033
0.12	*	*	-	-	-	0.40...0.63	8		GV2ME043
0.18	*	*	-	-	-				
0.25	*	*	0.37	*	*	0.63...1	13		GV2ME053
0.37	*	*							
0.37	*	*	0.37	*	*	1...1.6	22.5		GV2ME063
0.55	*	*	0.55	*	*				
			0.75	*	*				
0.75	*	*	1.1	*	*	1.6...2.5	33.5		GV2ME073
1.1	*	*	1.5	*	*	2.5...4	51		GV2ME083
1.5	*	*	2.2	*	*				
2.2	*	*	3	50	100	4...6.3	78		GV2ME103
3	*	*	4	10	100	6...10	138		GV2ME143
4	*	*	5.5	10	100				
5.5	15	50	7.5	6	75	9...14	170		GV2ME163
7.5	15	50	9	6	75	13...18	223		GV2ME203
9	15	40	11	4	75	17...23	327		GV2ME213
11	15	40							
11	15	40	15	4	75	20...25	327		GV2ME223

Contact blocks					
Description	Mounting	Maximum number	Type of contacts	Sold in lots of	Unit reference
Instantaneous auxiliary contacts	Front	1	N/O + N/C	10	GVAE113
			N/O + N/O	10	GVAE203
	LH side	2	N/O + N/C	1	GVAN113
			N/O + N/O	1	GVAN203

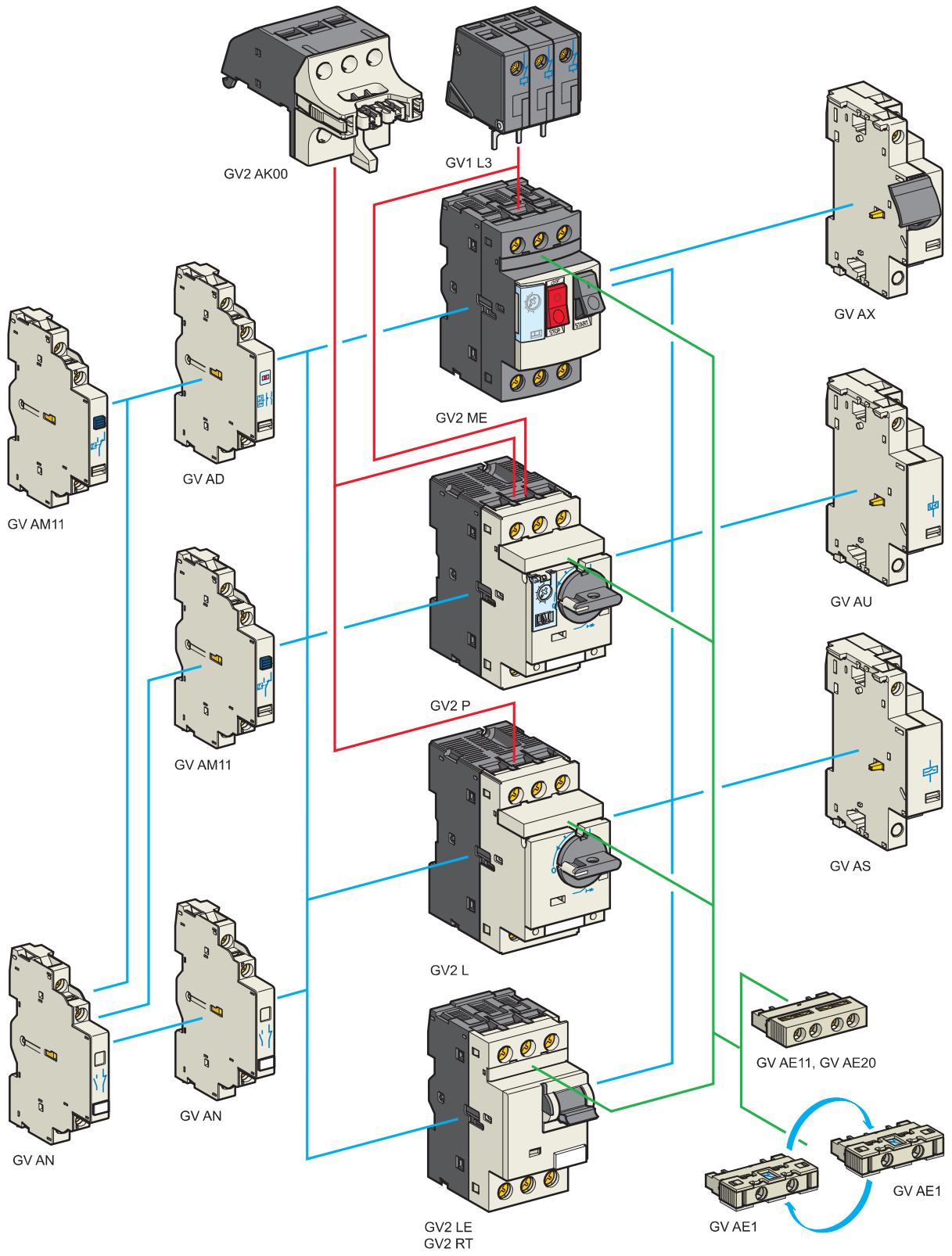
Accessory			
Description	Application	Sold in lots of	Unit reference
Cable end reducer	For connection of conductors from 1 to 1.5 mm ²	20	LA9D99

(1) For connection of conductors from 1 to 1.5 mm², the use of an LA9 D99 cable end reducer is recommended.
 (2) Maximum rating which can be mounted in enclosures GV2MC or MP, please consult your Regional Sales Office
 (3) The thermal trip setting must be within the range marked on the graduated knob.
 * > 100 kA.



LA9 D99

Circuit breakers



TeSys GV3

11 to 45 kW



Circuit
breakers

TeSys protection components

Thermal-magnetic motor circuit breakers GV3P



GV3P651



GV3P80

Motor circuit breakers up to 45 kW / 400 V

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Setting range of thermal trips (2)	Magnetic tripping current I _d ± 20 %	Reference
400/415 V			500 V			690 V					
P	I _{cu}	I _{cs} (1)	P	I _{cu}	I _{cs} (1)	P	I _{cu}	I _{cs} (1)	A	A	
GV3P: control by rotary knob											
Connection by EverLink® BTR screw connectors (3)											
5.5	100	100	7.5	12	50	11	6	50	9...13	182	GV3P13
7.5	100	100	9	12	50	15	6	50	12...18	252	GV3P18
11	100	100	15	12	50	18.5	6	50	17...25	350	GV3P25
15	100	100	18.5	12	50	22	6	50	23...32	448	GV3P32
18.5	50	100	22	12	50	37	6	50	30...40	560	GV3P40
22	50	100	30	12	50	45	6	50	37...50	700	GV3P50
30	50	100	45	12	50	55	6	50	48...65	910	GV3P65
37	50	60	45	12	50	55	6	50	62...73	1120	GV3P73
45	50	60	45	12	50	55	6	50	70...80	1120	GV3P80 (4)

Connection by EverLink® BTR screw connectors, for assembly with a contactor

To assemble a **GV3P13** to **P73** circuit breaker with an **LC1D40A** to **D73A** contactor, it is possible to use the circuit breaker supplied without downstream EverLink® power terminal block. To order this product, add the digit **1** to the end of the references selected above. Example: **GV3P73** becomes **GV3P731**. Do not use direct mounting between **GV3P80** and **LC1D80A** because of potential overheating, use cable link.

Connection by lugs

To order thermal magnetic circuit breakers with connection by lugs, add the digit **6** to the end of reference selected above. Example: **GV3P18** becomes **GV3P186**.

Motor circuit breakers up to 40 hp / 460 V, UL 60947-4-1 type E

GV3P13 (5) to GV3P65 (5)

To obtain a motor-circuit breaker GV3P, UL 60947-4-1 type E, use the following with the circuit breaker:
 ■ a "Large Spacing" cover **GV3G66**,
 ■ a short-circuit signalling contact **GVAM11**.

Motor circuit breakers from 7.5 to 50 HP / 460 V, with screw clamp terminals

GV3P with rotary handle

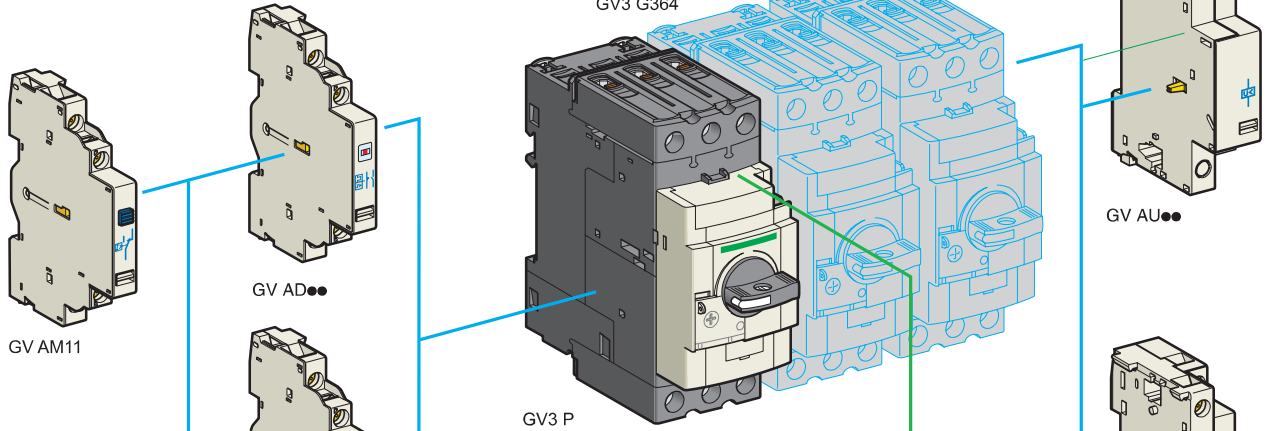
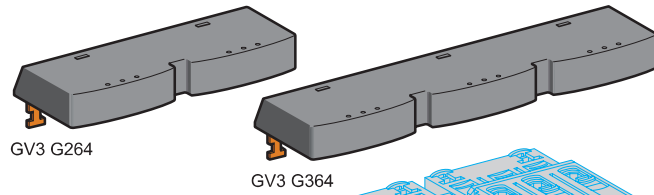
Thermal setting (A)	Maximum Horsepower ratings (6)						Reference
	Single-Phase		Three-Phase				
	115 V	230 V	200 V	230 V	460 V	575 V	
9...13	1/2	1.5	3	3	7.5	10	GV3P13
12...18	3/4	2	3	5	7.5	10	GV3P18
17...25	1.5	3	5	7.5	15	20	GV3P25
23...32	2	3	7.5	7.5	20	25	GV3P32
30...40	3	5	10	10	25	30	GV3P40
37...50	3	7.5	10	10	30	40	GV3P50
48...65	3	10	15	15	40	50	GV3P65
62...73	5	15	20	25	50	60	GV3P73

GV3P13 to GV3P65 - with connection by lugs (5)

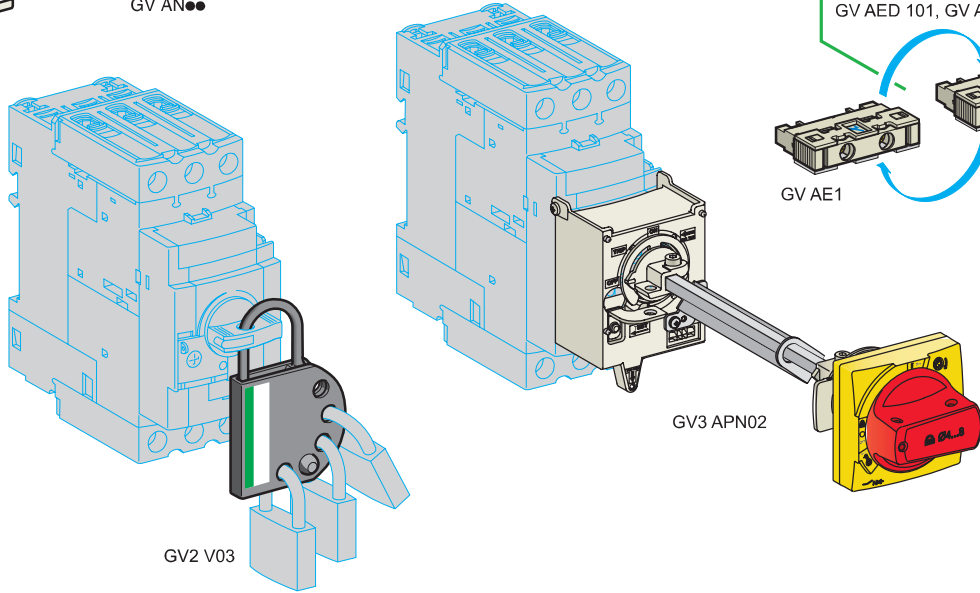
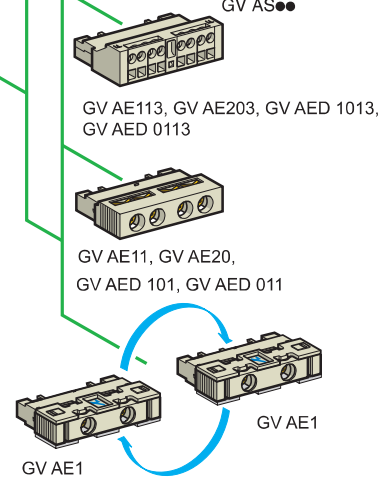
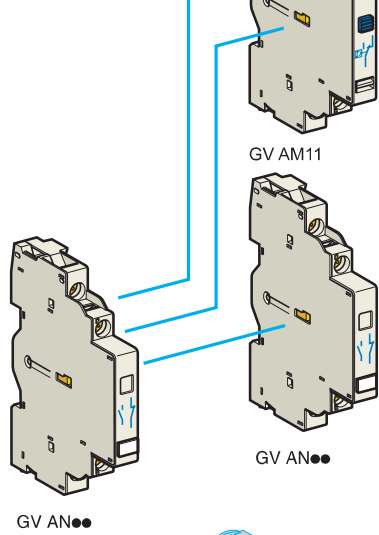
To obtain a motor-circuit breaker **GV3P**, UL 60947-4-1 type E, with connection by lugs, add the digit **6** to the end of reference selected above and use the following with the circuit breaker:
 ■ two IP 20 covers **LAD96570**,
 ■ a short-circuit signalling contact **GVAM11**.

(1) As % of I_{cu}.
 (2) The thermal trip setting must be within the range marked on the graduated knob.
 (3) BTR screws: hexagon socket head. Require use of an insulated Allen key, in compliance with local wiring regulations.
 (4) 750 A Lock Rotor Current max.
 (5) Accessories: see page B6/30.
 (6) 3P FLA corresponding values : see page A6/58.

Circuit breakers



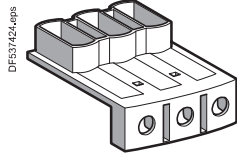
Circuit breakers



TeSys protection components

Thermal-magnetic motor circuit breakers GV3P and GV3L

Add-on blocks and accessories



GV3G66

Contact blocks						
Description	Mounting	Maximum number	Type of contacts	Sold in lots of	Unit reference	
Instantaneous auxiliary contacts	Front	1	N/O or N/C ⁽¹⁾	10	GVAE1	
			N/O + N/C	10	GVAE11 ⁽²⁾	
			N/O + N/O	10	GVAE20 ⁽²⁾	
	Side (LH)	2	N/O + N/C	1	GVAN11 ⁽²⁾	
Fault signalling contact + instantaneous auxiliary contact	Front	1	N/O (fault)	+ N/O	1	GVAED101 ⁽²⁾
			N/O (fault)	+ N/C	1	GVAED011 ⁽²⁾
	Side ⁽³⁾ (LH)	1	N/O (fault)	+ N/O	1	GVAD1010
				+ N/C	1	GVAD1001
			N/C (fault)	+ N/O	1	GVAD0110
				+ N/C	1	GVAD0101
Short-circuit signalling contact	Side (LH)	1	C/O common point	1	GVAM11	

Electric trips - undervoltage or shunt ⁽⁴⁾			
Mounting	Voltage	Frequency	Reference
Side (1 block on RH side of circuit breaker)	24 V	50 Hz	GVA●025
		60 Hz	GVA●026
	48 V	50 Hz	GVA●055
		60 Hz	GVA●056
	100	50 Hz	GVA●107
	100...110 V	60 Hz	GVA●107
	110...115 V	50 Hz	GVA●115
		60 Hz	GVA●116
	120...127 V	50 Hz	GVA●125
	127 V	60 Hz	GVA●115
	200 V	50 Hz	GVA●207
	200...220 V	60 Hz	GVA●207
	220...240 V	50 Hz	GVA●225
		60 Hz	GVA●226
	380...400 V	50 Hz	GVA●385
		60 Hz	GVA●386
	415...440 V	50 Hz	GVA●415
	415 V	60 Hz	GVA●416
	440 V	60 Hz	GVA●385
	480 V	60 Hz	GVA●415
500 V	50 Hz	GVA●505	
600 V	60 Hz	GVA●505	

Circuit breakers

Accessories			
Description			Reference
Set of 3-pole busbars I _e = 115 A Pitch: 64 mm	2 tap-off 3 tap-off	GV3P●● and GV3L●● GV3P●● and GV3L●●	GV3G264 GV3G364
Cover "Large Spacing" UL 60947-4-1 type E (Only one cover required on supply side)		GV3P●●	GV3G66

- (1) Choice of N/C or N/O contact operation, depending on which way round the reversible block is mounted.
- (2) Contact blocks available in version with spring terminal connections. Add a figure 3 at the end of the references selected above. Example: GVAED101 becomes GVAED1013.
- (3) The GVAD●● is always mounted next to the circuit breaker.
- (4) To order an undervoltage trip: replace the dot (●) in the reference with a U, example: GVAU025. To order a shunt trip: replace the dot (●) in the reference with an S, example: GVAS025.



Limited torque throwaway bits

Torque limiting breakaway bits		
Description	Sold in lots of	Reference
5 N.m Yellow	6	LV426992
9 N.m Green	6	LV426990