Product references

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GV2ME●●

Thermal magnetic circuit breakers, 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**	★	★			
0.75	★	★	**1.1**	★	★	**1.5**	3	75	1.6…2.5	33.5	**GV2ME07**
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)

GV2ME technical characteristics: see in chapter B6.

Undervoltage trip, INRS (can only be mounted on GV2ME)
Safety device for dangerous machines conforming to INRS and VDE0113

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GVAX●●●

Side (1 block on RH side of circuit breaker GV2 ME)	110…115 V	50 Hz	**GVAX115**
		60 Hz	**GVAX116**
	127 V	60 Hz	**GVAX115**
	220…240 V	50 Hz	**GVAX225**
		60 Hz	**GVAX226**
	380…400 V	50 Hz	**GVAX385**
		60 Hz	**GVAX386**
	415…440 V	50 Hz	**GVAX415**
	440 V	60 Hz	**GVAX385**

GVAX technical characteristics: see in chapter B6.

(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.

D.O.L. starters, non-reversing, from 0.06 to 15 kW at 400/415 V, type 1 coordination

This pre-assembled combination comprises:
- 1 motor circuit breaker GV2ME,
- 1 3-pole contactor LC1D,
- 1 combination block GV2AF3.

Characteristics

Starter type		GV2		DM102 to DM110	DM114	DM116	DM132
Breaking capacity (Iq) (1)	Conforming to IEC 60947-4-1	400/415 V	**kA**	50	50	15	10
		440 V	**kA**	50	15	8	6
		500 V	**kA**	50	6	6	4

References


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GV2DM102●●

D.O.L. starters, non-reversing

Standard power ratings of 3-phase motors 50/60 Hz in AC-3			Setting range of thermal trips	Fixed magnetic tripping current 13 Irth	For customer assembly		Pre-assembled	Weight
400/415 V	440 V	500 V			Motor circuit-breaker Reference	Contactor Reference to be completed (2)	Basic reference, to be completed by adding the voltage code (2) (3)	
kW	kW	kW	A	A				kg
0.06	0.06	–	0.16…0.25	2.4	GV2ME02	LC1D09●●	**GV2DM102●●** (4)	0.596
0.75	0.75	–	1.6…2.5	33.5	GV2ME07	LC1D09●●	**GV2DM107●●** (4)	0.596
–	1.1	1.1						
1.1	–	1.5	2.5…4	51	GV2ME08	LC1D09●●	**GV2DM108●●** (4)	0.596
1.5	1.5	2.2						
2.2	2.2	–	4…6.3	78	GV2ME10	LC1D09●●	**GV2DM110●●** (4)	0.596
–	3	3						
3	–	4	6…10	138	GV2ME14	LC1D09●●	**GV2DM114●●** (4)	0.596
4	4	5.5						
5.5	5.5	7.5	9…14	170	GV2ME16	LC1D12●●	**GV2DM116●●**	0.601
15	15	18.5	24…32	416	GV2ME32	LC1D32●●	**GV2DM132●●**	0.651

Add-on blocks

Description	Mounting of GV2	Sold in lots of	Unit reference
Combination block between circuit breaker and contactor	⊔ rail	10	**GV2AF3**
	Mounting plate LAD 311	10	**GV2AF4**

*(1) The breaking performance of circuit breakers **GV2ME** can be increased by adding a current limiter **GV1L3**, see page B6/21.*

(2) Standard control circuit voltages (for other voltages, please consult your Regional Sales Office):

Volts	24	220	230
∿ **50/60 Hz**	B7	M7	P7
⎓ (5)	BD	–	–

(3) Please check the availability of your variant in the index page A2/16. The SEARCH function of your viewer can be used.

(4) Type 2 coordination also possible, see page A5/11.

*(5) Only available for **GV2DM**. Coil with integral suppression device as standard.*

***Note:** The combinations are valid for IE2 motors and IE3 with maximum starting current = 7.5 x motor rating current (see pages A5/4 and A5/5).*

Dimensions: page A2/18
Schemes: page A2/20

Coordination: Thermal magnetic circuit breaker + Contactor

0.06 to 250 kW at 400/415 V: type 1 coordination

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Circuit breaker		Contactor
400/415 V			440 V			500 V			Reference *References in italics are available in CEE zone only*	Setting range of thermal trips	Reference (2)
P	Ie	Iq (1)	P	Ie	Iq (1)	P	Ie	Iq (1)			
kW	A	kA	kW	A	kA	kW	A	kA		A	
0.06	0.2	50	**0.06**	0.19	50	–	–	–	**GV2ME02** *GV2ME02AP*	0.16…0.25	**LC1K06** or **LC1D09**
0.09	0.3	50	**0.09** **0.12**	0.28 0.37	50 50	–	–	–	**GV2ME03** *GV2ME03AP*	0.25…0.40	**LC1K06** or **LC1D09**
0.12 **0.18**	0.44 0.6	50 50	– **0.18**	– 0.55	– 50	– –	– –	– –	**GV2ME04** *GV2ME04AP*	0.40…0.63	**LC1K06** or **LC1D09**
0.25 **0.37**	0.85 1.1	50 50	**0.25** **0.37**	0.76 0.99	50 50				**GV2ME05** *GV2ME05AP*	0.63…1	**LC1K06** or **LC1D09**
– **0.55**	– 1.5	– 50	– **0.55**	– 1.36	– 50	**0.37** **0.55**	0.88 1.2	50 50	**GV2ME06** *GV2ME06AP*	1…1.6	**LC1K06** or **LC1D09**
–	–	–	–	–	–	**0.75**	1.5	50	**GV2ME06** *GV2ME06AP*	1…1.6	**LC1K06** or **LC1D09**
0.75 –	1.9 –	50 –	**0.75** **1.1**	1.68 2.37	50 50	– **1.1**	– 2.2	– 50	**GV2ME07** *GV2ME07AP*	1.6….2.5	**LC1K06** or **LC1D09**
1.1 **1.5**	2.7 3.6	50 50	– **1.5**	– 3.06	– 50	**1.5** **2.2**	2.9 3.9	50 50	**GV2ME08** *GV2ME08AP*	2.5…4	**LC1K06** or **LC1D09**
2.2 –	4.9 –	50 –	**2.2** **3**	4.42 5.77	50 50	– **3**	– 5.2	– 50	**GV2ME10** *GV2ME10AP*	4…6.3	**LC1K06** or **LC1D09**
3 **4**	6.5 8.5	50 50	– **4**	– 7.9	– 15	**4** **5.5**	6.8 9.2	10 10	**GV2ME14** *GV2ME14AP*	6…10	**LC1K09** or **LC1D09**
5.5	11.5	15	**5.5**	10.4	8	**7.5**	12.4	6	**GV2ME16** *GV2ME16AP*	9…14	**LC1K12** or **LC1D12**
7.5 –	15.5 –	15 –	**7.5** **9**	13.7 16.9	8 8	**9** –	13.9 –	6 –	**GV2ME20** *GV2ME20AP*	13…18	**LC1D18**
9	18.1	15	**11**	20.1	6	**11**	17.6	4	**GV2ME21** *GV2ME21AP*	17…23	**LC1D25**
11	22	15	–	–	–	**15**	23	4	**GV2ME22** *GV2ME22AP*	20…25	**LC1D25**
15	29	10	**15**	26.5	6	**18.5**	28	4	**GV2ME32** *GV2ME32AP*	24…32	**LC1D32**
18.5	35	50	**18.5**	32.8	50	**22**	33	10	**GV3P40**	30…40	**LC1D40A**
22	41	50	**22**	39	50	**30**	44	10	**GV3P50**	37…50	**LC1D50A**
30	55	50	**30**	51.5	50	**37**	53	10	**GV3P65**	48…65	**LC1D65A**
37	66	50	–	–	–	–	–	–	**GV3P73**	62...73	**LC1D80A**
–	–	–	**37**	64	70	**45**	64	30	**GV4P80**	40…80	**LC1D65A**
37	66	100	**45**	76	70	**55**	78	30	**GV4P80**	40…80	**LC1D80**
45	80	100	–	–	–	–	–	–	**GV4P115**	65...115	**LC1D95**
55	97	100	**55**	90	70	**75**	106	30	**GV4P115**	65...115	**LC1D115**
75	132	36	**75**	125	35	**90**	128	30	**GV5P150F**	70...150	**LC1D150**
–	–	–	**90**	146	35	–	–	–	(3)	–	(3)
90	160	36	–	–	–	**110**	156	30	(3)	–	(3)
110	195	36	–	–	–	–	–	–	(3)	–	(3)
160	280	36	**318**	280	35	–	–	–	(3)	–	(3)
–	–	–	–	–	–	**220**	308	30	(3)	–	(3)
200	350	36	**220**	318	35	–	–	–	(3)	–	(3)
250	430	36	**250**	401	35	**335**	460	30	(3)	–	(3)

*(1) The breaking performance of circuit breakers **GV2ME** can be increased by adding a current limiter **GV1L3**.*
(2) For reversing operation, replace the prefix LC1 with LC2.
(3) Please consult your regional sales office.

Coordination: Thermal magnetic circuit breaker + Contactor

0.06 to 250 kW at 400/415 V: type 2 coordination

Standard power ratings of 3-phase motors 50/60 Hz in categ or y AC-3									Circuit breaker		Contactor
400/415 V			440 V			500 V			Reference *References in italics are available in CEE zone only*	Setting range of thermal trips	Reference (2)
P	Ie	Iq (1)	P	Ie	Iq (1)	P	Ie	Iq (1)			
kW	A	kA	kW	A	kA	kW	A	kA		A	
0.06	0.2	130	**0.06**	0.19	130	–	–	–	**GV2P02** or **GV2ME02** or *GV2ME02AP*	0.16…0.25	**LC1D09**
–	–	–	**0.09**	0.28	130	–	–	–	**GV2P03** or **GV2ME03** or *GV2ME03AP*	0.25…0.4	**LC1D09**
0.09	0.3	130	**0.12**	0.37	130	–	–	–			
0.12	0.44	130	–	–	–	–	–	–	**GV2P04** or **GV2ME04** or *GV2ME04AP*	0.4…0.63	**LC1D09**
0.18	0.6	130	**0.18**	0.55	130	–	–	–			
0.25	0.85	130	**0.25**	0.76	130	–	–	–	**GV2P05** or **GV2ME05** or *GV2ME05AP*	0.63…1	**LC1D09**
0.37	1.1	130	**0.37**	0.99	130	–	–	–			
–	–	–	–	–	–	**0.37**	0.88	130	**GV2P06** or **GV2ME06** or *GV2ME06AP*	1…1.6	**LC1D09**
0.55	1.5	130	**0.55**	1.36	130	**0.55**	1.2	130			
–	–	–	–	–	–	**0.75**	1.5	130	**GV2P06** or **GV2ME06** or *GV2ME06AP*	1…1.6	**LC1D09**
0.75	1.9	130	**0.75**	1.68	130	–	–	–	**GV2P07** or **GV2ME07** or *GV2ME07AP*	1.6…2.5	**LC1D09**
–	–	–	**1.1**	2.37	130	**1.1**	2.2	130			
1.1	2.7	130	–	–	–	**1.5**	2.9	130	**GV2P08** or **GV2ME08** or *GV2ME08P*	2.5…4	**LC1D09**
1.5	3.6	130	**1.5**	3.06	130	**2.2**	3.9	130			
–	–	–	–	–	–	–	–	–	**GV2P10** or **GV2ME10** or *GV2ME10AP*	4…6.3	**LC1D09**
2.2	4.9	130	–	–	–	–	–	–			
–	–	–	**2.2**	4.42	50	–	–	–	**GV2ME10** or *GV2ME10AP*	4…6.3	**LC1D09**
–	–	–	**3**	5.77	50	**3**	5.2	50			
–	–	–	**2.2**	4.42	130	–	–	–	**GV2P10**	4…6.3	**LC1D09**
–	–	–	**3**	5.77	130	**3**	5.2	130			
3	6.5	130	–	–	–	–	–	–	**GV2P14** or **GV2ME14** or *GV2ME14AP*	6…10	**LC1D09**
4	8.5	130	–	–	–	–	–	–			
–	–	–	**4**	7.9	15	**4**	6.8	10	**GV2ME14** or *GV2ME14AP*	6…10	**LC1D09**
–	–	–	–	–	–	**5.5**	9.2	10			
–	–	–	–	–	–	**4**	6.8	50	**GV2P14**	6…10	**LC1D12**
–	–	–	**4**	7.9	130	**5.5**	9.2	50			
5.5	11.5	130	**5.5**	10.4	50 or 8	**7.5**	12.4	42 or 6	**GV2P16** or **GV2ME16** or *GV2ME16AP*	9…14	**LC1D25**
–	–	–	**7.5**	13.7	50 or 8	**9**	13.9	42 or 6			
7.5	15.5	50 or 15	**9**	16.9	20 or 8	–	–	–	**GV2P20** or **GV2ME20** or *GV2ME20AP*	13…18	**LC1D25**
9	18.1	50 or 15	**11**	20.1	20 or 8	**11**	17.6	10 or 6	**GV2P21** or **GV2ME21** or *GV2ME21AP*	17…23	**LC1D25**
11	22	50 or 15	–	–	–	–	–	–	**GV2P22** or **GV2ME22** or *GV2ME22AP*	20…25	**LC1D25**
–	–	–	–	–	–	**15**	23	10 or 6	**GV2P22**	20…25	**LC1D32**
15	29	50 or 10	**15**	26.5	20 or 6	**18.5**	28	10 or 4	**GV2P32** or **GV2ME32** or *GV2ME32AP*	24…32	**LC1D32**
18.5	35	50	–	–	–	–	–	–	**GV3P40**	30…40	**LC1D50A**
–	–	–	**18.5**	32.8	50	**22**	33	10	**GV3P40**	30…40	**LC1D65A**
22	41	50	–	–	–	–	–	–	**GV3P50**	37…50	**LC1D50A**
–	–	–	**22**	39	50	**30**	44	10	**GV3P50**	37…50	**LC1D65A**
30	55	50	**30**	51.5	50	–	–	–	**GV3P65**	48…65	**LC1D65A**
–	–	–	–	–	–	**37**	53	10	**GV3P65**	48…65	**LC1D65A**
37	66	50	–	–	–	–	–	–	**GV3P73**	62...73	**LC1D80A**
–	–	–	**37**	64	70	–	–	–	**GV4P80**	40…80	**LC1D65A**
37	66	100	**45**	76	70	(3)	(3)	(3)	**GV4P80**	40…80	**LC1D80**
45	80	100	**55**	90	70	(3)	(3)	(3)	**GV4P115**	65 …115	**LC1D115**
55	97	100	–	–	–	(3)	(3)	(3)			
75	132	70	**75**	125	65	–	–	–	**GV5P150H**	70...150	**LC1D150**
			90	146	65	–	–	–			

*(1) The breaking performance of circuit breakers **GV2P** can be increased by adding a current limiter **GV1L3**.*
*(2) Combinations with circuit breaker **GV2ME** are type 2 coordinated only at 400/415 V and 440 V.*
(3) Please consult your regional sales office.

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GV2ME

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

Deca - Frame 2 (ref. 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**	★	★			
0.75	★	★	**1.1**	★	★	**1.5**	3	75	1.6…2.5	33.5	**GV2ME07**
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: ref. **GV2ME08** becomes **GV2ME086**.

Thermal magnetic circuit breakers GV2ME with built-in auxiliary contact block

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

■ GVAE1, add suffix **AE1TQ** to the motor circuit breaker reference selected above.
Example: **GV2ME01AE1TQ**.
■ GVAE11, add suffix **AE11TQ** to the motor circuit breaker reference selected above.
Example: **GV2ME01AE11TQ**.
■ GVAN11, 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.*

Characteristics: pages B6/72 to B6/76
Curves: pages B6/83 to B6/85
Dimensions, schemes: pages B6/93 to B6/97, B6/99

Product references - UL applications

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GV2ME

Motor circuit breakers from 3/4 to 20 HP / 460 V, with screw clamp terminals

Deca - Frame 2 (ref. GV2ME) with pushbutton control

Thermal setting (A)	Maximum Horsepower ratings								Group Motor applications	Reference
	Single-Phase			Three-Phase						
	115 V	200 V	230 V	115 V	200 V	230 V	460 V	575 V	Max. Fuse or Circuit breaker (A)	
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**

Characteristics:
pages B6/72 to B6/76

Curves:
pages B6/83 to B6/85

Dimensions, schemes:
pages B6/93 to B6/97, B6/99