



Connections

screw clamp terminals or connectors

Rated operational voltage		690 V				
Rated operational current	le max AC-3 (Ue ≤ 440V)	9 A	12 A	18 A	25 A	32 A
	le AC-1 (θ ≤ 60° C)	25 A		32 A	40 A	50 A
Rated operational power	220/240 V	2.2 kW	3 kW	4 kW	5.5 kW	7.5 kW
in category AC3	380/400 V	4 kW	5.5 kW	7.5 kW	11 kW	15 kW
	415/440 V	4 kW	5.5 kW	9 kW	11 kW	15 kW
	500 V	5.5 kW	7.5 kW	10 kW	15 kW	18.5 kW
	660/690 V	5.5 kW	7.5 kW	10 kW	15 kW	18.5 kW
	1000 V	-	-	-	-	-
Contactor type *		LC1-D09	LC1-D12	LC1-D18	LC1-D25	LC1-D32
Reversing contactor type * with mechanical interlock		LC2-D09	LC2-D12	LC2-D18	LC2-D25	LC2-D32

spring terminals ⁽¹⁾

Add the figure 3 before the voltage code. Example **LC1-D09P7** becomes **LC1-093P7**

lug-clamps ⁽²⁾

Add the figure 6 before the voltage code. Example **LC1-D09P7** becomes **LC1-096P7**

Faston connectors ⁽³⁾ 2 x 6.35 (power) and 1 x 6.35 (control) up to D12 only

Add the figure 9 before the voltage code. Example **LC1-D09P7** becomes **LC1-099P7**

* Basic reference to be completed by adding the coil voltage



(1)



(2)



(3)

Standard control circuit voltages

c supply

Volts	24	42	48	110	115	220	230	240	380	400	415	440	500
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Contactors LC1-D09...D50 (coils D115 and D150 with integral suppression device fitted as standard)

50/60 Hz	B7	D7	E7	F7	FE7	M7	P7	U7	Q7	V7	N7	R7	-
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Contactors LC1-D40...D115

50 Hz	B5	D5	E5	F5	FE5	M5	P5	U5	Q5	V5	N5	R5	S5
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60 Hz	B6	-	E6	F6	-	M6	-	U6	Q6	-	-	R6	-
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a supply

Volts	12	24	36	48	60	72	110	125	220	250	440
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Contactors LC1-D09...D38 (coils with integral suppression device fitted as standard)

U 0.7...1.25 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
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Contactors LC1-D40...D95

U 0.85...1.1 Uc	JD	BD	CD	ED	ND	SD	FD	GD	MD	UD	RD
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U 0.75...1.2 Uc	JW	BW	CW	EW	-	SW	FW	-	MW	-	-
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Contactors LC1-D115 and D150 (coils with integral suppression device fitted as standard)

U 0.75...1.2 Uc	-	BD	-	ED	ND	SD	FD	GD	MD	UD	RD
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Low consumption

Contactors LC1-D09...D38 (coils with integral suppression device fitted as standard)

Volts a	5	12	20	24	48	110	120	250
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U 0.7...1.25 Uc	AL	JL	ZL	BL	EL	FL	ML	UL
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Example of complete reference **LC1-D09P7**

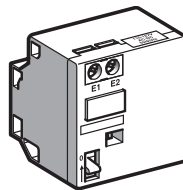


	1 000 V on ~ supply, 690 V on ≡ supply						
38 A	40 A	50 A	65 A	80 A	95 A	115 A	150 A
	60 A	80 A		125 A		200 A	
9 kW	11 kW	15 kW	18.5 kW	22 kW	25 kW	30 kW	40 kW
18.5 kW	18.5 kW	22 kW	30 kW	37 kW	45 kW	55 kW	75 kW
18.5 kW	22 kW	25/30 kW	37 kW	45 kW	45 kW	59 kW	80 kW
18.5 kW	22 kW	30 kW	37 kW	55 kW	55 kW	75 kW	90 kW
18.5 kW	30 kW	33 kW	37 kW	45 kW	45 kW	80 kW	100 kW
-	22 kW	30 kW	37 kW	45 kW	45 kW	75 kW	90 kW
LC1-D38	LC1-D40	LC1-D50	LC1-D65	LC1-D80	LC1-D95	LC1-D115	LC1-D150
LC2-D38	LC2-D40	LC2-D50	LC2-D65	LC2-D80	LC2-D95	LC2-D115	LC2-D150

Mounting accessories for 3-pole reversing contactors

2 identical contactors with screw clamp terminals or connectors, horizontally mounted

Mechanical interlock	Set of connections	Mechanical interlock
with an electrical interlocking kit for the contactors LC1-D09...D38	LAD-9R1V	included
with integral electrical interlocking LC1-D40...D65 LC1-D80 and D95 (~) LC1-D80 and D95 (≡) LC1-D115 and D150	LA9-D6569 LA9-D8069 LA9-D8069 LA9-D11569	LA9-D4002 LA9-D4002 LA9-D8002 LA9-D11502
without electrical interlocking LC1-D09...D38 LC1-D40...D65 LC1-D80 and D95 (~) LC1-D80 and D95 (≡)	LA9-9R1 LA9-D6569 LA9-D8069 LA9-D8069	included LA9-D50978 LA9-D50978 LA9-D80978



Mechanical latch blocks

Clip-on front mounting, manual or electrical unlatching control

For use on contactor	Reference	Standard control circuit voltages
LC1-D40...D65 3P ~ or ≡, LC1-D65 4P ~, LC1-D65 4P ≡	LA6-DK10•	B E F M Q
LC1-D80...D150 3P ~, LC1-D80 and D115 3P ~, LC1-D115 4P ≡	LA6-DK20•	B E F M Q
LC1-D09...D38 ~ or ≡, LC1-DT20...DT40 ~ or ≡	LA6-6K10•	B E F M Q



Auxiliary contact blocks

■ instantaneous, for connection by screw clamp terminals

■ time delay

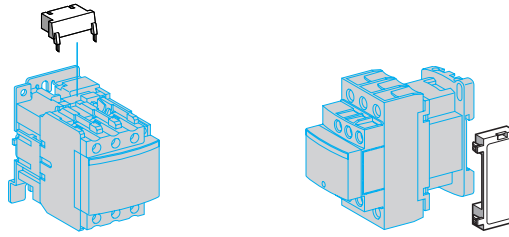
■ front mounting				■ side mounting				■ front mounting		
Composition	Reference	Composition	Reference	Composition	Reference	Composition	Reference	Type	Range	Reference
N/O N/C		N/O N/C		N/O N/C		N/O N/C				
1 -	LAD-N10	1 1	LAD-N11	2 2	LAD-N22	1 1	LAD-8N11	On-delay	0.1...3 s	LAD-T0
- 1	LAD-N01	2 -	LAD-N20	1 3	LAD-N13	2 -	LAD-8N20		0.1...30 s	LAD-T2
		- 2	LAD-N02	4 -	LAD-N40	- 2	LAD-8N02		10...180 s	LAD-T4
				- 4	LAD-N04			Off-delay	0.1...3 s	LAD-R0
				3 1	LAD-N31				0.1...30 s	LAD-R2
									10...180 s	LAD-R4

5

Maximum number of auxiliary contacts that can be fitted

Contactors

Type	Instantaneous auxiliary contact blocks					Time delay
	Number of poles and size	Side mounting	Front mounting			Front mounting
			1 contact	2 contacts	4 contacts	
~	3P LC1-D09...D38	1 on LH side and	-	1	or 1	or 1
	LC1-D40...D95 (50/60 Hz)	1 on each side or	2	and 1	or 1	or 1
	LC1-D40...D95 (50 or 60 Hz)	1 on each side and	2	and 1	or 1	or 1
	LC1-D115 and D150	1 on LH side	-	and 1	or 1	or 1
=	4P LC1-DT20...DT40	1 on LH side	-	1	or 1	or 1
	LC1-D65 and D80	1 on each side or	1	or 1	or 1	or 1
	LC1-D115	1 on each side and	1	or 1	or 1	or 1
	3P LC1-D09...D38	-	-	1	or 1	or 1
≡	LC1-D40...D95	-	1	or 1	or 1	or 1
	LC1-D115 and D150	1 on LH side and	-	1	or 1	or 1
	4P LC1-DT20...DT40	-	-	1	or 1	or 1
	LP1-D65 and D80	-	2	and 1	or 1	or 1
Low Consumption	3P LC1-D09...D38	-	-	1	-	-
	4P LC1-DT20...DT40	-	-	1		



Suppressor modules

Varistors (peak limiting)

Protection provided by limiting the transient voltage to 2 Uc max.

Maximum reduction of transient voltage peaks.

Slight increase in drop-out time (1.1 to 1.5 times the normal time)

Mounting	For use with contactor Rating	Type		Reference
		V ~	V ==	
Clip-on	D09...D38 (3P)	12...24 V	-	LAD-4VE
	DT20...DT40	50...127 V	-	LAD-4VG
		110...240 V	-	LAD-4VU
Screw fixing	D40...D115 (3P) and	24...48 V	-	LA4-DE2E
		50...127 V	-	LA4-DE2G
	D65...D115 (4P)	110...250 V	-	LA4-DE2U
		D40...D115 (3P) and	-	24...48 V
	D65...D115 (4P)		-	50...127 V
		-	110...250 V	-

Diodes

No overvoltage or oscillating frequency.

Increase in drop-out time (6 to 10 times the normal time).

Polarised component.

Screw fixing	D40...D95 (3P)	-	24...250 V	LA4-DC3U
	D65 and D80 (4P)	-		

Bidirectional peak limiting diode

Protection provided by limiting the transient voltage to 2 Uc max.

Maximum reduction of transient voltage peaks.

Clip-on	D09...D38 (3P)	24 V	-	LAD-4TB
	DT20...DT40	72 V	-	LAD-4TS
Screw fixing	D40...D95 (3P)	24 V	-	LA4-DB2B
		72 V	-	LA4-DB2S
	D40...D95 (3P) and D65 and D80 (4P)	-	24 V	LA4-DB3B
		-	72 V	LA4-DB3S

RC circuits (Resistor-Capacitor)

Effective protection for circuits highly sensitive to "high frequency" interference.

For use only in cases where the voltage is virtually sinusoidal, i.e. less than - 5% total harmonic distortion.

Voltage limited to 3 Uc max and oscillating frequency limited to 400 Hz max.

Slight increase in drop-out time (1.2 to 2 times the normal time)

Clip-on	D09...D38 (3P)	12...24 V	-	LAD-4RCE
	DT20...DT40	110...240 V	-	LAD-4RCU
Screw fixing	D40...D150 (3P) and	24...48 V	-	LA4-DA2E
		50...127 V	-	LA4-DA2G
	D65...D115 (4P)	110...240 V	-	LA4-DA2U
		380...415 V	-	LA4-DA2N



Rated operational current	le max AC-3 (U _e ≤ 440V)	185 A	225 A	265 A	330 A
	le AC-1 (θ ≤ 40° C)	275 A	315 V	350 A	400 A
Rated operational voltage		1 000 V	1 000 V	1 000 V	1 000 V
Number of poles		3 or 4	3 or 4	3 or 4	3 or 4
Rated operational power	220/240 V	55 kW	63 kW	75 kW	100 kW
in category AC3	380/400 V	90 kW	110 kW	132 kW	160 kW
	415 V	100 kW	110 kW	140 kW	180 kW
	440 V	100 kW	110 kW	140 kW	200 kW
	500 V	110 kW	129 kW	160 kW	200 kW
	660/690 V	110 kW	129 kW	160 kW	220 kW
	1000 V	100 kW	100 kW	147 kW	160 kW
Contactor type*		LC1-F185	LC1-F225	LC1-F265	LC1-F330
Reversing contactor type*		LC2-F185	LC2-F225	LC2-F265	

* Basic reference to be completed by adding the coil voltage

Standard control circuit voltages

~ supply

Volts	24	48	110	115	120	208	220	230	240	380	400	415	440
Contactors LC1-F115...F225 (0.85...1.1UC)													
50 Hz (coil LX1)	B5	E5	F5	FE5	-	-	M5	P5	U5	Q5	V5	N5	-
60 Hz (coil LX1)	-	E6	F6	-	G6	L6	M6	-	U6	Q6	-	-	R6U7
40...400 Hz (coil LX9)	-	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	V7	N7	R7
Contactors LC1-F265...F330U7													
40...400 Hz (coil LX1)	B7	E7	F7	FE7	G7	L7	M7	P7	U7	Q7	V7	N7	R7
Contactors LC1-F400...F630U7													
40...400 Hz (coil LX1)	-	E7	F7	FE7	G7 ⁽¹⁾	L7	M7	P7	U7	Q7	V7	N7	R7
Contactor LC1-F780U7													
40...400 Hz (coil LX1)	-	-	F7	FE7	F7	L7	M7	P7	U7	Q7	V7	N7	R7
Contactor LC1-F800U7													
40...400 Hz (coil LX1)	-	-	FE7	FE7	FE7	-	P7	P7	P7	V7	V7	V7	V7Y7

= supply

Volts	24	48	110	125	220	230	250	400	440
Contactors LC1-F115...F330 (0.85...1.1UC)									
(coil LX4-F)	BD	ED	FD	GD	MD	MD	UD	-	RD
Contactors LC1-F400...F630 (0.85...1.1UC)									
(coil LX4-F)	-	ED	FD	GD	MD	-	UD	-	RD
Contactor LC1-F780 (0.85...1.1UC)									
(coil LX4-F)	-	-	FD	GD	MD	-	UD	-	RD
Contactor LC1-F800 (0.85...1.1UC)									
(coil LX4-F)	-	-	FW	FW	MW	MW	-	QW	-

Example: For a 630 A contactor with a 110 V ~ coil, order **LC1-F630F7**

(1) F7 for LC1-F630





400 A	500 A	630 A	780 A	800 A
500 A	700 A	1 000 A	1 600 A	1 000 A
1 000 V	1 000 V	1 000 V	1 000 V	1 000 V
2, 3 or 4	2, 3 or 4	2, 3 or 4	3 or 4	3
110 kW	147 kW	200 kW	220 kW	250 kW
200 kW	250 kW	335 kW	400 kW	450 kW
220 kW	280 kW	375 kW	425 kW	450 kW
250 kW	295 kW	400 kW	425 kW	450 kW
257 kW	355 kW	400 kW	450 kW	450 kW
280 kW	335 kW	450 kW	475 kW	475 kW
185 kW	335 kW	450 kW	450 kW	450 kW
LC1-F400	LC1-F500	LC1-F630	LC1-F780	LC1-F800

For customer assembly



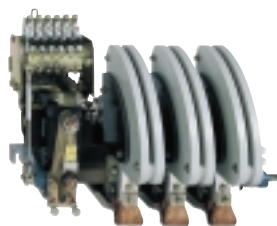
Auxiliary contact blocks										
instantaneous				dust & damp protected contacts			time delay 1N/O + 1 N/C			
Composition	Reference	Composition	Reference	Composition	Reference	Composition	Reference	Type	Range	Reference
N/O N/C		N/O N/C		N/O N/C		N/O N/C				
1 -	LAD-N10	1 1	LAD-N11	2 2	LAD-N22	2 - - -	LA1-DX20	On-delay	0.1...3 s	LAD-T0
- 1	LAD-N01	2 -	LAD-N20	1 3	LAD-N13	2 2 - -	LA1-DY20		0.1...30 s	LAD-T2
		- 2	LAD-N02	4 -	LAD-N40	2 - 2 -	LA1-DZ40		10...180 s	LAD-T4
				- 4	LAD-N04	2 - 1 1	LA1-DZ31		1...30 s	LAD-S2
				3 1	LAD-N31			Off-delay	0.1...3 s	LAD-R0
				2 2	LAD-C22				0.1...30 s	LAD-R2
									10...180 s	LAD-R4

Mounting accessories for 3-pole reversing contactors for motor control

2 identical contactors, horizontally mounted

Mechanical interlock with an electrical interlocking kit for the contactors

Contactor type	Set of connections	Mechanical interlock
LC1-F115	LA9-FF976	LA9-FF970
LC1-F150	LA9-F15076	LA9-FF970
LC1-F185	LA9-FG976	LA9-FG970
LC1-F225	LA9-F22576	LA9-FG970
LC1-F265	LA9-FH976	LA9-FJ970
LC1-F330	LA9-FJ976	LA9-FJ970
LC1-F400	LA9-FJ976	LA9-FJ970
LC1-F500	LA9-FK976	LA9-FJ970
LC1-F630 or LC1-F800	LA9-FL976	LA9-FL970



Rated operational current	le max AC-3 (Ue ≤ 440V)	750 A	1000 A	1500 A	1800 A
	le AC-1 (θ ≤ 40° C)	800 A	1250 V	2000 A	2750A
Rated operational voltage		1 000 V	1 000 V	1 000 V	1 000 V
Number of poles		1 to 4	1 to 4	1 to 4	1 to 4
Rated operational power	220/240 V	220 kW	280 kW	425 kW	500 kW
in category AC3	380/400 V	400 kW	500 kW	750 kW	900 kW
	415 V	425 kW	530 kW	800 kW	900 kW
	440 V	450 kW	560 kW	800 kW	900 kW
	500 V	500 kW	600 kW	700 kW	900 kW
	660/690 V	560 kW	670 kW	750 kW	900 kW
	1000 V	530 kW	530 kW	670 kW	750 kW
	4 instantaneous contact configurations				
	2 N/C + 2 N/O, 3 N/O + 1 N/C, 1 N/O + 3 N/C or 4 N/O				
Contactor type*		LC1-BL	LC1-BM	LC1-BP	LC1-BR

* Basic reference to be completed by adding the coil voltage, followed by the instantaneous contact configuration.

Standard control circuit voltages (for other voltages, please consult your Regional Sales Office)												
Volts	48	110	125	127	220	230	240	380	400	415	440	500
~ 50...400 Hz	-	F	-	G	M	P	U	Q	V	N	R	S
☰	ED	FD	GD	-	MD	-	-	-	-	-	RD	-

Example: To order a 1500 A contactor with 127 V ~ coil with 3 N/O + 1 N/C, select **LC1-BP33G31**

Mounting accessories		
Description	For contactor	Reference
Bar support bracket	LC1-BL to BR	LA9-B103
for mounting on 120 or 150 mm centres		
Mechanical interlock and locking device components	LC1-B	EZ2-LB0601



Thermal-magnetic circuit-breakers GV2-ME and GV2-P for connection by screw clamp terminals

GV2-ME with pushbutton control, GV2-P control by rotary knob

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Setting range	Magnetic	Reference	
400/415 V			500 V			690 V			of thermal	tripping		
P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	trips	current		
kW	kA		kW	kA		kW	kA		A	A (d ± 20%)		
-	-	-	-	-	-	-	-	-	0.1...0.16	1.5	GV2-ME01	GV2-P01
0.06	★	★	-	-	-	-	-	-	0.16...0.25	2.4	GV2-ME02	GV2-P02
0.09	★	★	-	-	-	-	-	-	0.25...0.40	5	GV2-ME03	GV2-P03
0.12	★	★	-	-	-	0.37	★	★	0.40...0.63	8	GV2-ME04	GV2-P04
0.18	★	★	-	-	-	-	-	-	0.40...0.63	8	GV2-ME04	GV2-P04
0.25	★	★	-	-	-	0.55	★	★-	0.63...1	13	GV2-ME05	GV2-P05
0.37	★	★	0.37	★	★	-	-	-	1...1.6	22.5	GV2-ME06	GV2-P06
0.55	★	★	0.55	★	★	0.75	★	★	1...1.6	22.5	GV2-ME06	GV2-P06
-	-	-	0.75	★	★	1.1	★	★	1...1.6	22.5	GV2-ME06	GV2-P06
0.75	★	★	1.1	★	★	1.5	3	75	1.6...2.5	33.5	GV2-ME07	
0.75	★	★	1.1	★	★	1.5	8	100	1.6...2.5	33.5		GV2-P07
1.1	★	★	1.5	★	★	2.2	3	75	2.5...4	51	GV2-ME08	
1.1	★	★	1.5	★	★	2.2	8	100	2.5...4	51		GV2-P08
1.5	★	★	2.2	★	★	3	3	75	2.5...4	51	GV2-ME08	
1.5	★	★	2.2	★	★	3	3	100	2.5...4	51		GV2-P08
2.2	★	★	3	50	100	4	3	75	4...6.3	78	GV2-ME10	
2.2	★	★	3	★	★	4	6	100	4...6.3	78		GV2-P10
3	★	★	4	10	100	5.5	3	75	6...10	138	GV2-ME14	
3	★	★	4	50	100	5.5	6	100	6...10	138		GV2-P14
4	★	★	5.5	10	100	7.5	3	75	6...10	138	GV2-ME14	
4	★	★	5.5	50	100	7.5	6	100	6...10	138		GV2-P14
5.5	15	50	7.5	6	75	9	3	75	9...14	170	GV2-ME16	
5.5	★	★	7.5	42	75	9	6	100	9...14	170		GV2-P16
-	-	-	-	-	-	11	3	75	9...14	170	GV2-ME16	
-	-	-	-	-	-	11	6	100	9...14	170		GV2-P16
7.5	15	50	9	6	75	15	3	75	13...18	223	GV2-ME20	
7.5	50	50	9	10	75	15	4	100	13...18	223		GV2-P20
9	15	40	11	4	75	18.5	3	75	17...23	327	GV2-ME21	
9	50	50	11	10	75	18.5	4	100	17...23	327		GV2-P21
11	15	40	15	4	75	-	-	-	20...25	327	GV2-ME22 ⁽²⁾	
11	50	50	15	10	75	-	-	-	20...25	327		GV2-P22
15	10	50	18.5	4	75	22	3	75	24...32	416	GV2-ME32	
15	50	50	18.5	10	75	22	4	100	24...32	416		GV2-P32

★ > 100 kA

(1) as % of I_{cu}

(2) combined with a recommended contactor

Thermal-magnetic circuit-breakers GV2-ME for connection by spring terminals

Add the figure 3 to the end of the reference. Example **GV2-ME223** (available up to **GV2-ME22**)





Accessories

Combination block

For mounting on	LC1-K or LP1-K	LC1-D09...D38	LAD-31 and LC1-D09...D38
	GV2-AF01	GV2-AF3	GV2-AF4

Sets of 3-pole busbars

63 A	Pitch	45 mm	54 mm	72 mm
Number of tap-offs	2	GV2-G245	GV2-G254	GV2-G272
	3	GV2-G345	GV2-G354	
	4	GV2-G445	GV2-G454	GV2-G472
	5		GV2-G554	

Protective end cover

For unused busbar outlets	GV1-G10	
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Terminal blocks

For supply to one or more GV2-G busbar sets	connection from the top	can be fitted with current limiter GV1-L3 (GV2-ME and GV2-P)
	GV1-G09	GV1-G05

Padlockable external operator for GV2-P (150 to 290 mm)

Padlocking	In "On" and "Off" position	In "Off" position
Handle	black	red
Legend plate	blue	yellow
	IP 54	
	GV2-AP01	GV2-AP02

Padlocking device

For all GV2 devices	For use with up to 6 padlocks (padlocks not supplied) Ø 6 mm shank max
	GV2-V03

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Add-on blocks

Contact blocks

Contact types	N/O or N/C	N/O + N/C	N/O + N/O	(fault) + N/C	N/C + N/O	C/O common point
Instantaneous auxiliary contacts						
Mounting	front	GV-AE1	GV-AE11	GV-AE20		
	LH side		GV-AN11	GV-AN20		
Fault signalling contact + instantaneous auxiliary contact						
	LH side			GV-AD1010	GV-AD1001	GV-AD0110
				GV-AD0101		
Short-circuit signalling contact						
	LH side					GV-AM11

Electric trips

Undervoltage or shunt trips ⁽¹⁾			
Side mounting (1 block on RH side of circuit-breaker)		50 Hz	60 Hz
Voltage	24 V	GV-A*025	GV-A*026
	48 V	GV-A*055	GV-A*056
	100 V	GV-A*107	
	100...110 V		GV-A*107
	110...115 V	GV-A*115	GV-A*116
	120...127 V	GV-A*125	
	127 V		GV-A*115
	200 V	GV-A*207	
	200...220 V		GV-A*207
	220...240 V	GV-A*225	GV-A*226
	380...400 V	GV-A*385	GV-A*386
	415...440 V	GV-A*415	
415 V		GV-A*416	

(1) Undervoltage trips: replace the • with U, shunt trips: replace the • with S



Thermal-magnetic circuit-breakers GV3-ME for connection by screw clamp terminals

Pushbutton control

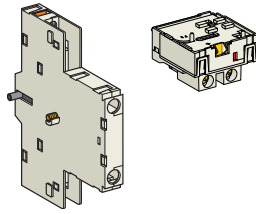
Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Setting range	Reference
400/415 V			500 V			660/690 V			of thermal	
P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	trips	
kW	kA		kW	kA		kW	kA		A	
0.37	100	100	0.37	100	100	0.75	100	100	1...1.6	GV3-ME06
0.55	100	100	0.55	100	100	1.1	100	100		
			0.75	100	100					
0.75	100	100	1.1	100	100	1.5	100	100	1.6...2.5	GV3-ME07
1.1	100	100	1.5	100	100	2.2	4	100	2.5...4	GV3-ME08
1.5	100	100	2.2	100	100	3	4	100		
2.2	100	100	3	100	100	4	4	100	4...6	GV3-ME10
3	100	100	4	8	100	5.5	4	100	6...10	GV3-ME14
4	100	100	5.5	8	100	7.5	4	100		
7.5	100	50	9	8	100	9	4	100	10...16	GV3-ME20
						11	4	100		
9	100	50	11	8	100	15	4	100	16...25	GV3-ME25
11	100	50	15	8	100	18.5	4	100		
15	35	50	18.5	8	75	22	4	75	25...40	GV3-ME40 ⁽²⁾
18.5	35	50	22	8	75	30	4	75		
22	35	50	30	8	75	37	4	75	40...63	GV3-ME63 ⁽²⁾
30	35	50	37	8	75	45	4	75		
37	15	50	45	4	100	55	2	100	56...80	GV3-ME80 ⁽²⁾

(1) as % of I_{cu}

(2) combined with a recommended contactor

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Add-on blocks

Contact blocks

Instantaneous auxiliary contacts (1 per breaker)

Normal early break type contacts	N/C + N/O GV3-A01	N/O + N/O GV3-A02	N/C + N/O + N/O GV3-A03	N/O + N/O + N/O GV3-A05	N/O + N/O ⁽¹⁾ GV3-A06	N/C + N/O ⁽¹⁾ GV3-A07
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Fault signalling contact

Normal early break type contacts	N/C GV3-A08	N/O GV3-A09
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Electric trips

Voltage	50 Hz	110, 120, 127 V	220, 240 V	380, 415 V
	60 Hz	120, 127 V	277 V	440, 480 V

Undervoltage trip	GV3-B11	GV3-B22	GV3-B38
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Shunt trip	GV3-D11	GV3-D22	GV3-D38
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Padlocking device

Start button (for bare device)	GV1-V02
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(1) + 2 volt free terminals



Thermal-magnetic circuit-breakers GV7-R for connection by screw clamp terminals

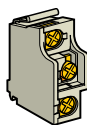
Control by rocker lever

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3									Setting range	Reference
400/415 V			500 V			660/690 V			of thermal	
P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	P	I _{cu}	I _{cs} ⁽¹⁾	trips	
kW	kA		kW	kA		kW	kA		A	
7.5	25	100	9	18	100	11	8	100	12...20	GV7-RE20
9	25	100	11	18	100	15	8	100		
7.5	70	100	9	50	100	11	10	100	12...20	GV7-RS20
9	70	100	11	50	100	15	10	100		
9	25	100	11	18	100	15	8	100	15...25	GV7-RE25
11	25	100	15	18	100	18.5	8	100		
9	70	100	11	50	100	15	10	100	15...25	GV7-RS25
11	70	50	15	50	100	18.5	10	100		
18.5	25	100	18.5	18	100	22	8	100	25...40	GV7-RE40
			22	18	100					
18.5	70	100	18.5	50	100	22	10	100	25...40	GV7-RS40
22	25	100	30	18	100	30	8	100	30...50	GV7-RE50
37	25	100	45	18	100	55	8	100	48...80	GV7-RE80
			55	18	100					
37	70	100	45	50	100	55	10	100	48...80	GV7-RS80
			55	50	100					
45	25	100	-	18	100	75	8	100	60...100	GV7-RE100
45	70	100	-	50	100	75	10	100	60...100	GV7-RS100
55	35	100	75	30	100	90	8	100	90...150	GV7-RE150
75	70	100	90	30	100	110	8	100		
55	70	100	75	50	100	90	10	100	90...150	GV7-RS150
75	70	100	90	50	100	110	10	100		
90	35	100	110	30	100	160	8	100	132...220	GV7-RE220
110	35	100	132	30	100	200	8	100		
			160	30	100					
90	70	100	110	50	100	160	10	100	132...220	GV7-RS220

(1) as % of I_{cu}

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Add-on blocks

Contact blocks

Auxiliary contacts

Contact type	C/O
	GV7-AE11

Thermal or magnetic fault discrimination

	$\approx 24 \dots 48 \text{ V}$ or $\equiv 24 \dots 72 \text{ V}$	$\approx 110 \dots 240 \text{ V}$
	GV7-AD111	GV7-AD112

Electric trips

Voltage	50/60 Hz	48 V	110... 130 V	200... 240 V	380...440 V	
	50 Hz					525 V
Undervoltage trip ⁽¹⁾		GV7-AU055	GV7-AU107	GV7-AU207	GV7-AU387	GV7-AU525
Shunt trip ⁽¹⁾		GV7-AS055	GV7-AS107	GV7-AS207	GV7-AS387	GV7-AS525

(1) For mounting of a GV7-AD or a GV7-AU or AS

Accessories

Terminal shields IP 405

Supplied with the sealing accessory	GV7-AC01
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Phase barriers

Safety accessories used when fitting of shields is impossible	GV7-AC04
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Insulating screens

Ensure insulation between the connections and the backplate	GV7-AC05
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Kit for combination with contactor

Allowing link between the circuit-breaker and the contactor	LC1-F115 to F185	LC1-F225 and F26	LC1-D115 and D150
	GV7-AC06	GV7-AC07	GV7-AC08

Rotary handles

Handle	black	red
Legend plate	black	yellow
■ direct IP 40	GV7-AP03	GV7-AP04
■ extended IP 55	GV7-AP01	GV7-AP02

Conversion accessory

for mounting on enclosure door IP 43	GV7-AP05
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Locking device

For circuit-breaker not fitted with a rotary handle	GV7-V01
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