Iskra MIS, d. d.

Ljubljanska c. 24a, 4000 Kranj, Slovenija

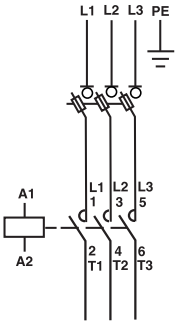
Kontaktorji KNL95 - KNL630
Navodilo za uporabo

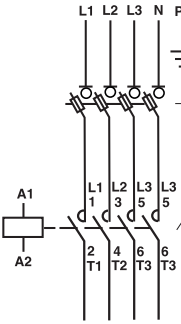
Contactors KNL95 - KNL630
Operating Instruction

Schütze KNL95 - KNL630
Bedienungsanleitung

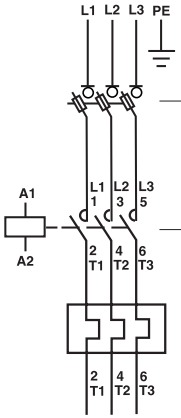
K 30 050 050 IZDAJA 01

	Ith AC1 ≤40°C [A]	≤55°C [A]	≤70°C [A]	[mm²]	Ie AC3 [A]	230V [kW]	400V [kW]	500V [kW]	690V [kW]	1000V [kW]
KNL95	125	100	80	70	95	27,8	50	56	74	46
KNL115	160	150	110	70	110	33	61	80	100	63
KNL145	250	235	190	95	150	46	80	100	120	75
KNL180	275	250	200	150	185	57	100	123	144	103
KNL250	350	300	250	185	265	83	140	176	212	156
KNL400	550	430	360	2x185 2 □ 25x8	420	130	225	271	352	208
KNL500	700	550	500	2x240 2 □ 50x5	520	156	290	367	416	312
KNL630	800	640	540	2x240 2 □ 50x5	630	198	335	368	440	368
KNL630/1000	1000	850	700	2 □ 60x5	—	—	—	—	—	—



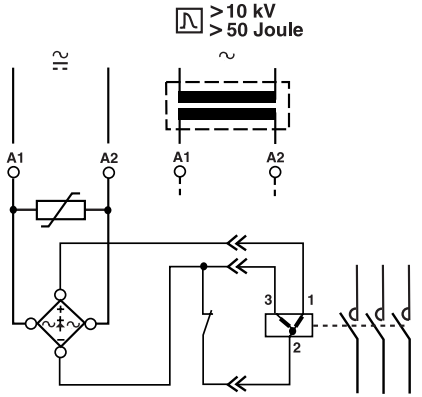


gG 200A	gG 200A	gG 250	gG 315A	gG 315A	gG 630A	gl 800A aM 500A	gl 1000A aM 630A
KNL95	KNL115	KNL145	KNL180	KNL250	KNL400	KNL500	KNL630

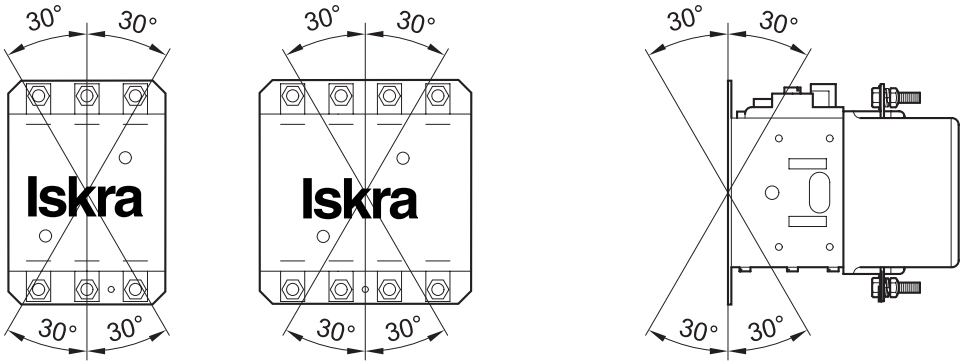


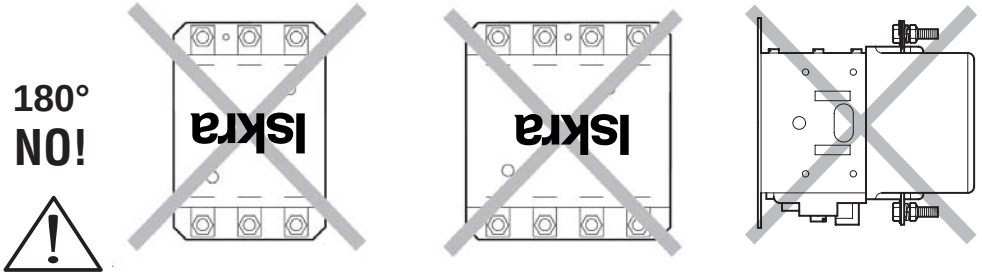
gG 160A aM 100A	gG 200A aM 125A	gG 250A aM 160A	gG 315A aM 200A	gG 400A aM 250A	gG 500A aM 315A	gG 630A aM 500A
KNL95 KNL115 KNL145 KNL180	**KNL95 KNL115 KNL145 KNL180**	**KNL95 KNL115 KNL145 KNL180**	**KNL145 KNL180 KNL250 KNL400**	**KNL180 KNL250 KNL400**	**KNL250 KNL400**	**KNL250 KNL400**
60-100A	75-125A	90-150A	120-200A	150-250A	180-300A	250-420A

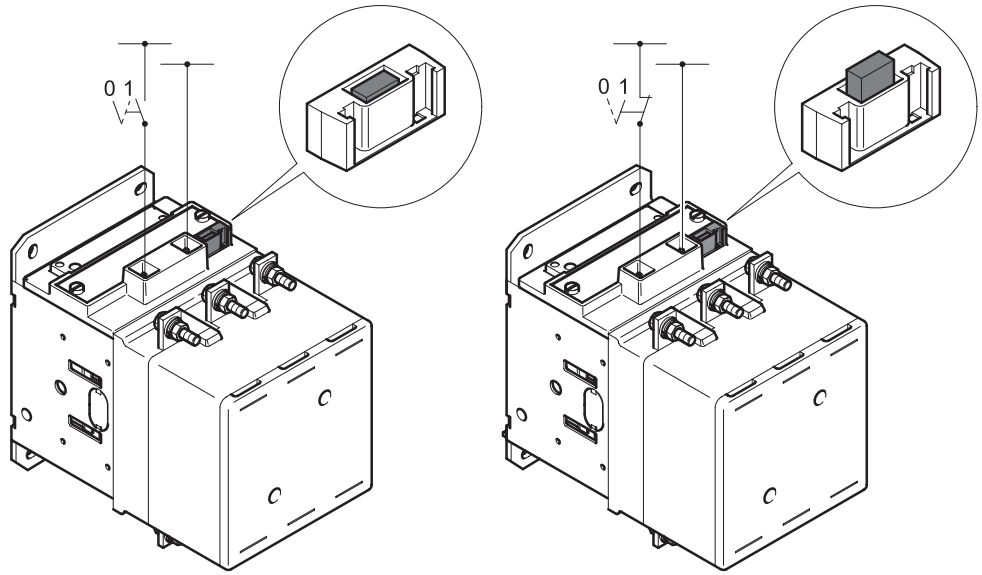
Application note:
The input electronic circuit of the contactor coil is designed and tested according to IEEEC 62.41 and will withstand a 10kV impulse (1.2/50µs) with 50 Joule energy.
For higher values the use of a step-down voltage transformer is recommended.



	KNL95-KNL400			KNL500 - KNL630		
	160VA			200VA		
Us (0.8-1.1) V = (50/60Hz-DC)	VA=W	VA=W	A	VA=W	VA=W	A
24	300	10	4	—	—	—
48	300	10	2	400	18	4
60	300	10	2	400	18	2
110-125	300	10	1	400	18	1
220-240	300	10	0.5	400	18	0.5
380-415	300	10	0.5	400	18	0.5
440-460	300	10	0.5	400	18	0.5

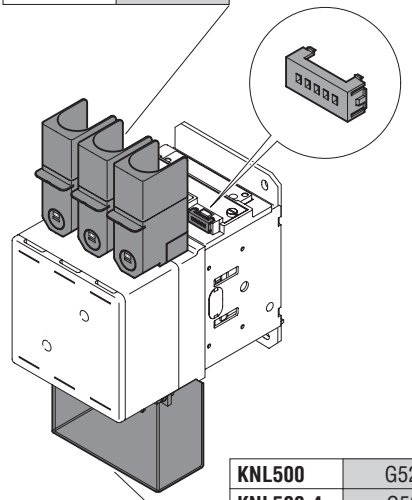

30°
30°
Iskra
30°
30°
30°
30°
Iskra
30°
30°
30°
30°


180°
NO!
Iskra
Iskra


0 1
0 1

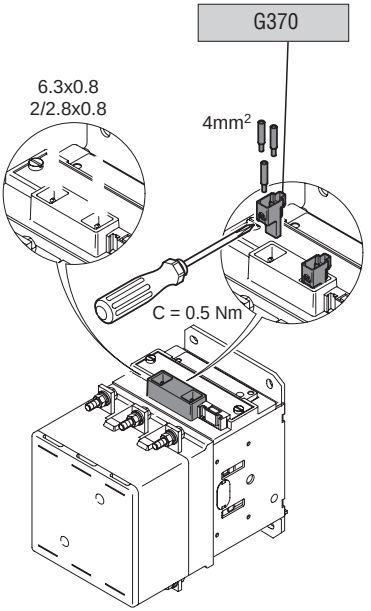
KNL95-115	G360
KNL145-180	G361
KNL250	G363
KNL400	G363

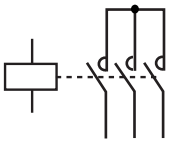
BA126/2



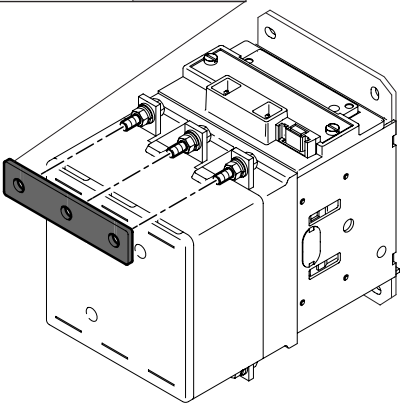
KNL500	G527
KNL500.4	G528
KNL630	G529
KNL630.4	G530

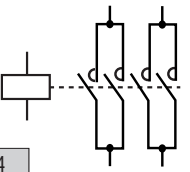
G370



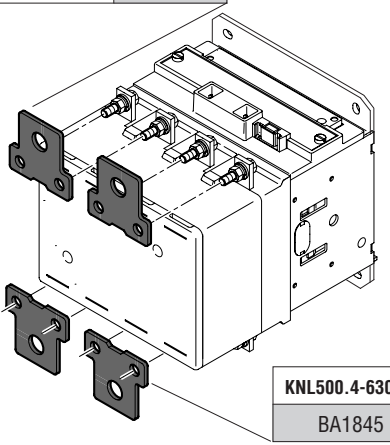


KNL95-KNL180	BA1595
KNL250-KNL400	BA1721
KNL500-KNL630	BA1846

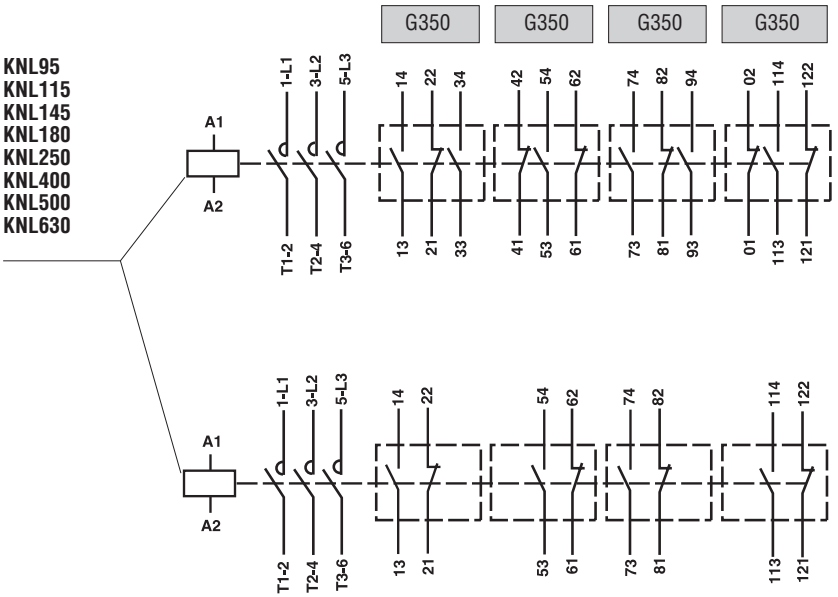


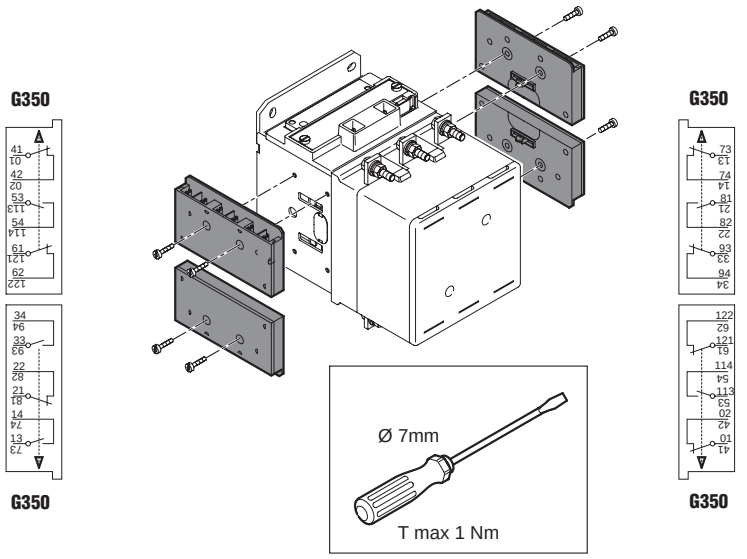


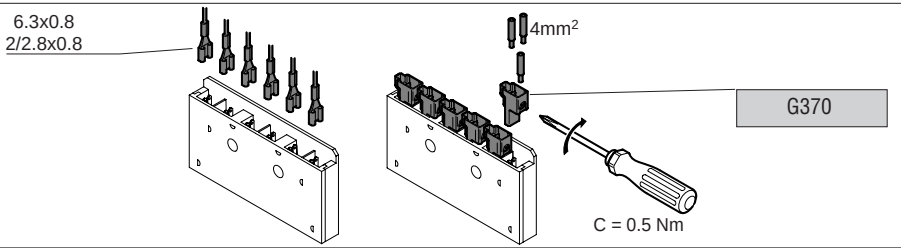
KNL95.4 - KNL180.4	BA1594
KNL250.4 - KNL400.4	BA1720



KNL500.4-630.4
BA1845

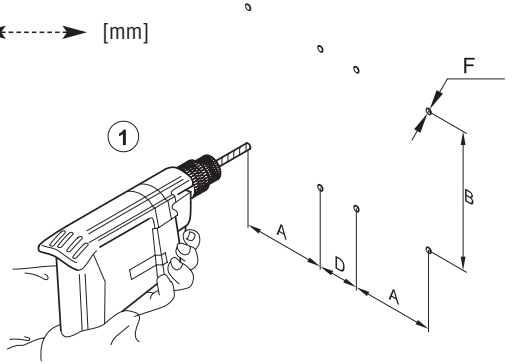

G350
G350
G350
G350
KNL95
KNL115
KNL145
KNL180
KNL250
KNL400
KNL500
KNL630
A1
A2
1-L1
3-L2
5-L3
T1-2
T2-4
T3-6
14
22
34
42
54
62
74
82
94
02
114
122
13
21
33
41
53
61
73
81
93
01
113
121

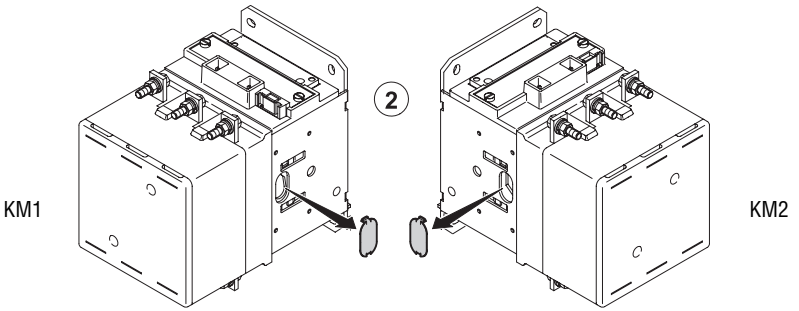

G350
G350
G350
G350
Ø 7mm
T max 1 Nm

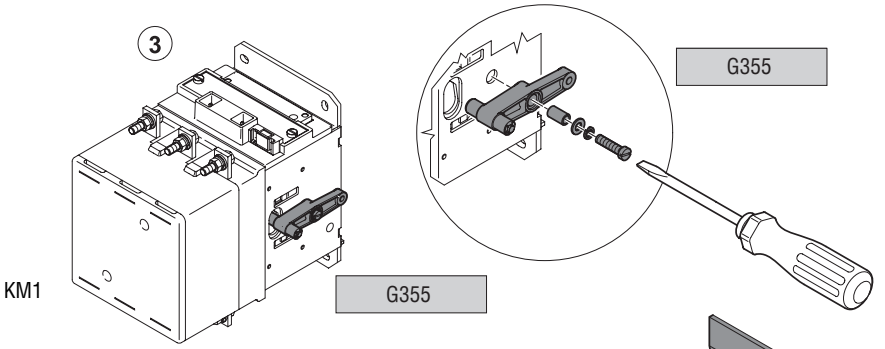

6.3x0.8
2/2.8x0.8
4mm²
G370
C = 0.5 Nm

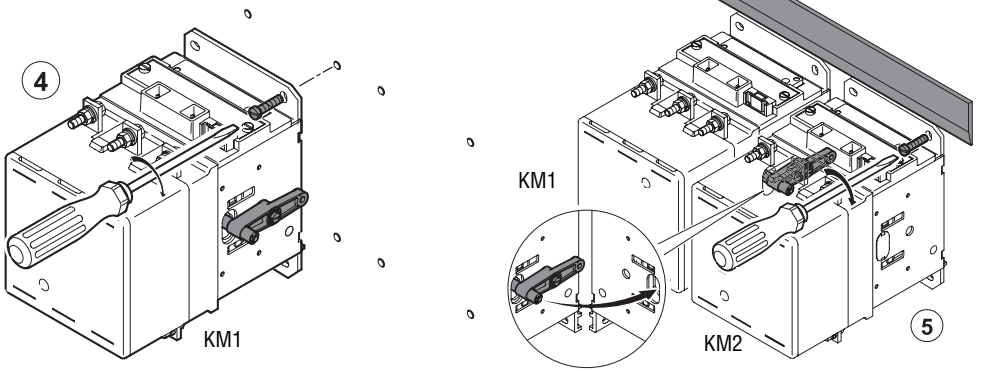
[mm]

	A	B	D	F
KNL95-KNL180	90	150	45	M6
KNL95.4-KNL180.4	130	150	45	M6
KNL250-KNL400	110	180	50	M8
KNL250.4-KNL400.4	157,5	180	50	M8
KNL500-KNL630	150	230	60	M10
KNL500.4-KNL630.4	215	230	60	M10





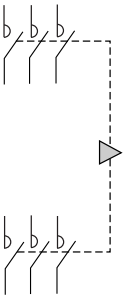


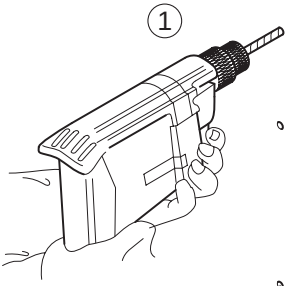


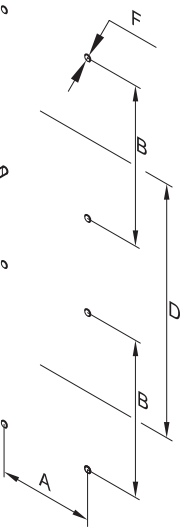
G356 ...

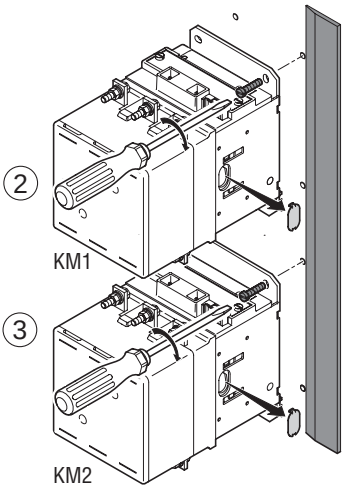
[mm]

	A	B	F
KNL95-KNL180	90	150	M6
KNL95.4-KNL180.4	130	150	M6
KNL250-KNL400	110	180	M8
KNL250.4-KNL400.4	157,5	180	M8
KNL500-KNL630	150	230	M10
KNL500.4-KNL630.4	215	230	M10

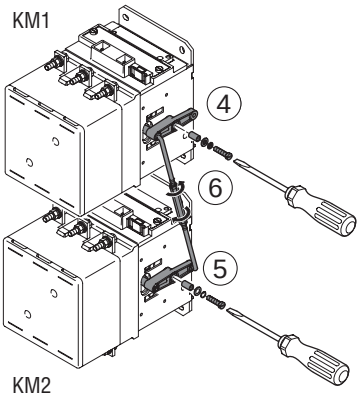


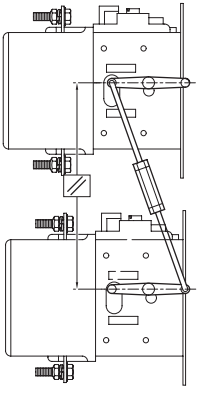


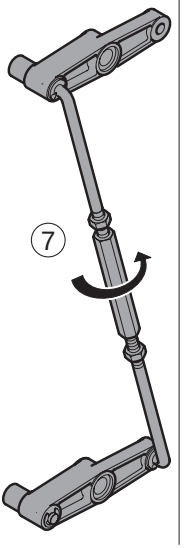


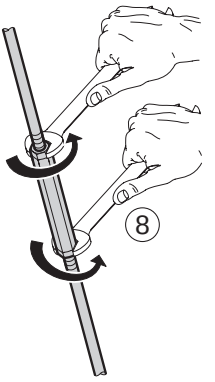


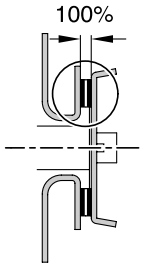
	D
G356 1	225-265 **(KNL95-400)**
G356 2	265-305 **(KNL95-400)**
G356 3	305-345 **(KNL95-400)**
G356 4	345-385 **(KNL95-630)**
G356 5	390-425 **(KNL95-630)**
G356 6	470-500 **(KNL95-630)**

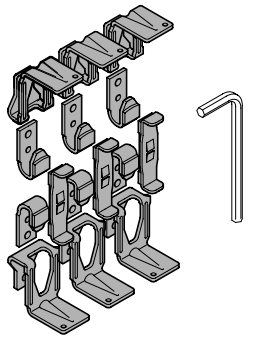




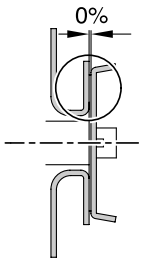


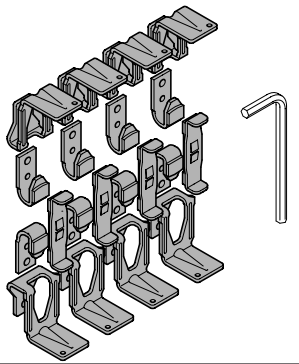






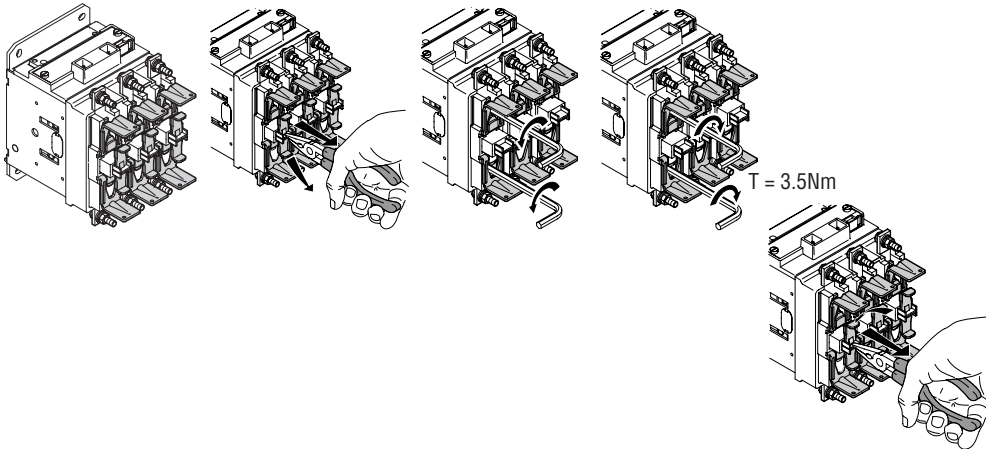
KNL95	G380
KNL115	G380
KNL145	G381
KNL180	G382
KNL250	G383
KNL400	G384
KNL500	G525
KNL630	G526



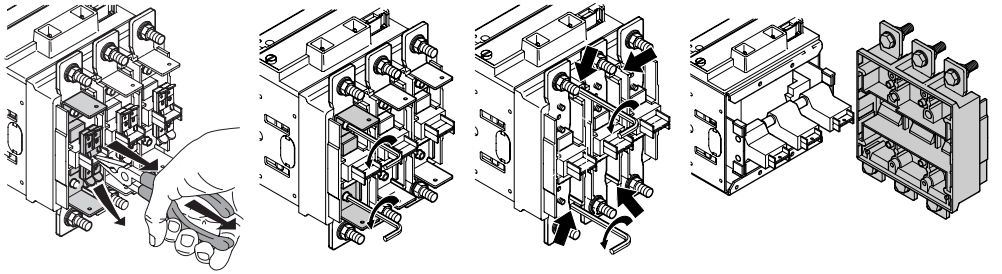


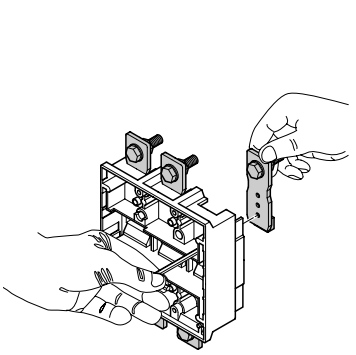
KNL115.4	G380 4
KNL115.4	G380 4
KNL145.4	G381 4
KNL180.4	G382 4
KNL250.4	G383 4
KNL400.4	G384 4
KNL500.4	G525 4
KNL630.4	G526 4

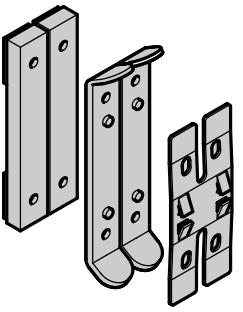
KNL95 - KNL115 - KNL145 - KNL180 - KNL250 - KNL400

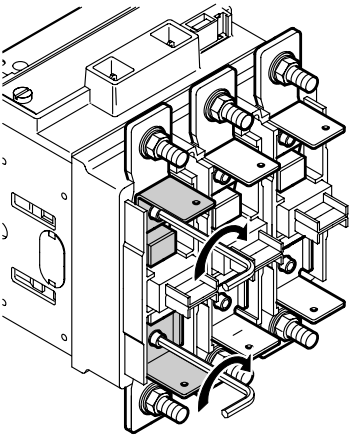


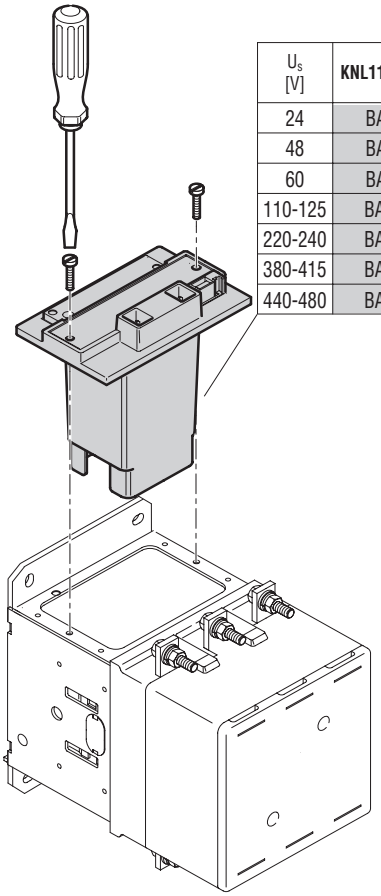
KNL500 - KNL630



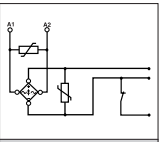


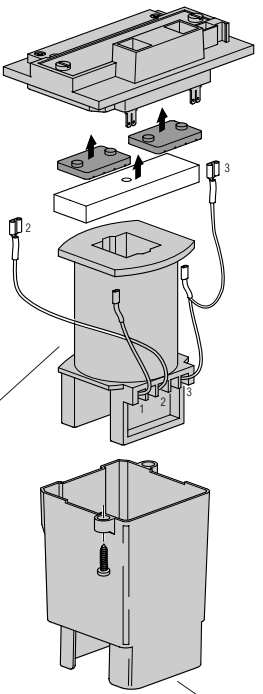






U_s [V]	KNL115-KNL180	KNL250-KNL400	KNL500-KNL630
24	BA1546 24	BA1671 24	—
48	BA1546 48	BA1671 48	BA1796 48
60	BA1546 60	BA1671 60	BA1796 60
110-125	BA1546 110	BA1671 110	BA1796 110
220-240	BA1546 220	BA1671 220	BA1796 220
380-415	BA1546 380	BA1671 380	BA1796 380
440-480	BA1546 440	BA1671 440	BA1796 440

	
KNL95-KNL180	BA1575 1

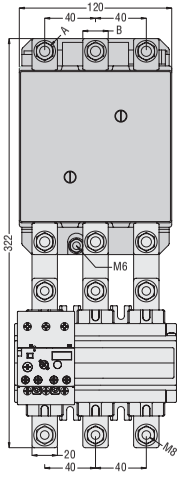


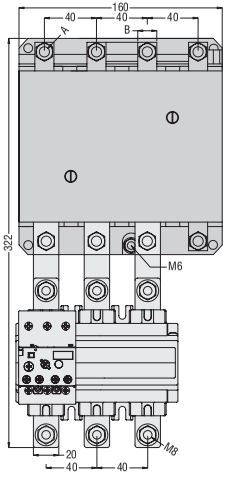
U_s [V]	KNL115-KNL180	KNL250-KNL400	KNL500-KNL630
24	BA11574 24	BA 1699 24	—
48	BA11574 48	BA1699 48	BA1800 48
60	BA11574 60	BA1699 60	BA1800 60
110-125	BA11574 110	BA1699 110	BA1800 110
220-240	BA11574 220	BA1699 220	BA1800 220
380-415	BA11574 380	BA1699 380	BA1800 380
440-480	BA11574 440	BA1699 440	BA1800 440

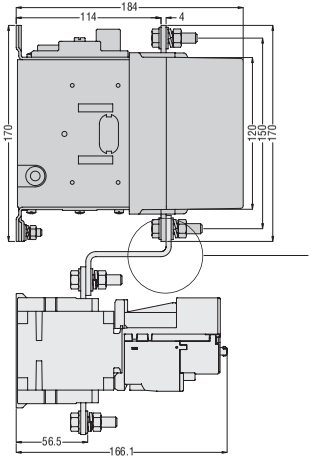
KNL95-KNL180	BA1553
KNL250-KNL400	BA1678
KNL500-KNL630	BA1803

KNL95 - KNL180

[mm]



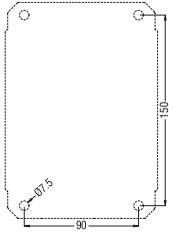


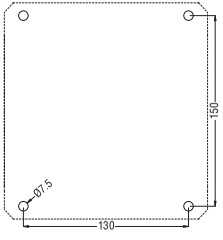


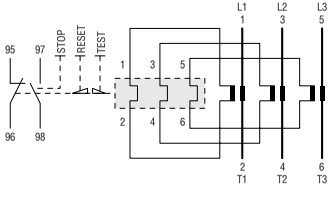
G372	**BRA180 ⇀ KNL95-KNL145**
G375	**BRA400 ⇀ KNL145-KNL180**

[A]	
60-100	BRA180.100
75-125	BRA180.125
90-150	BRA180.150
120-200	BRA180.200

	A	**B**
KNL95-KNL115	M6	15
KNL145	M8	20
KNL180	M8	20

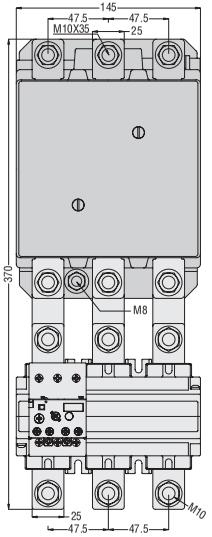


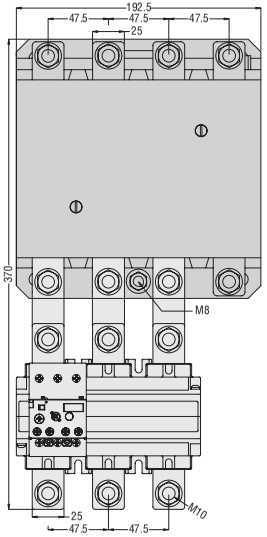


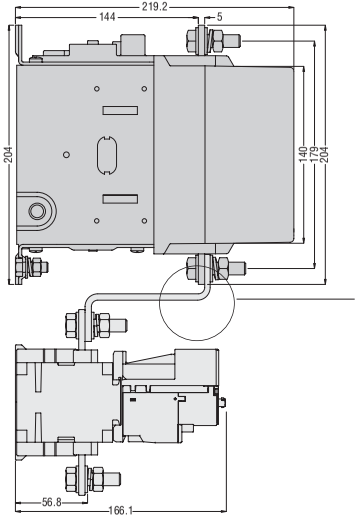


KNL250 - KNL400

[mm]

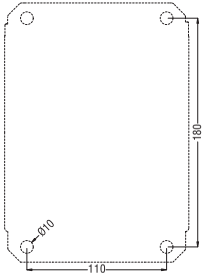


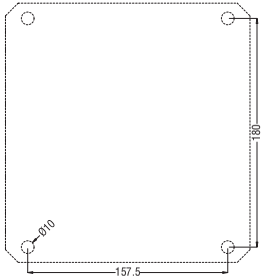


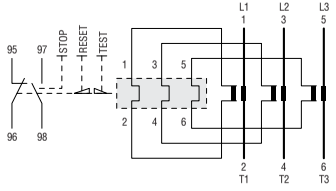


G373	**BRA180 ⇢KNL250-KNL400**
G376	**BRA400 ⇢KNL250-KNL400**

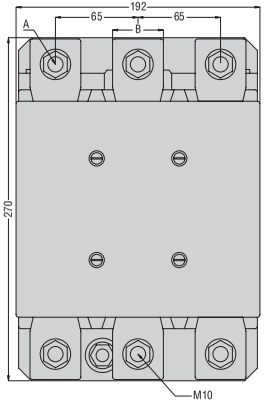
[A]	
150-250	BRA400.250
180-300	BRA400.300
250-420	BRA400.420

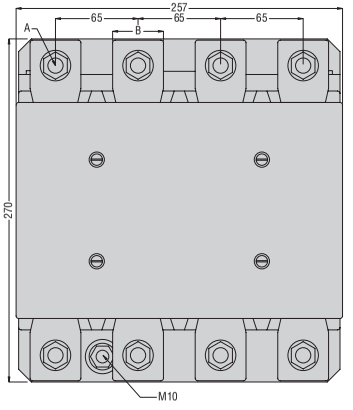


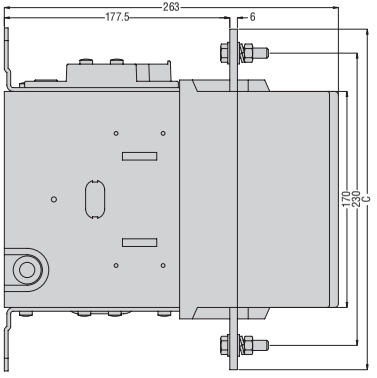




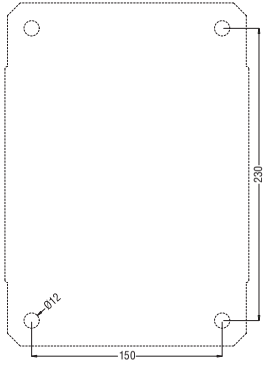
KNL500 - KNL630 ◄------► [mm]

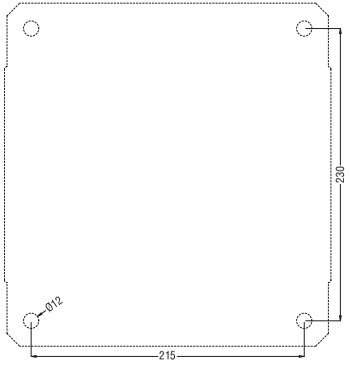


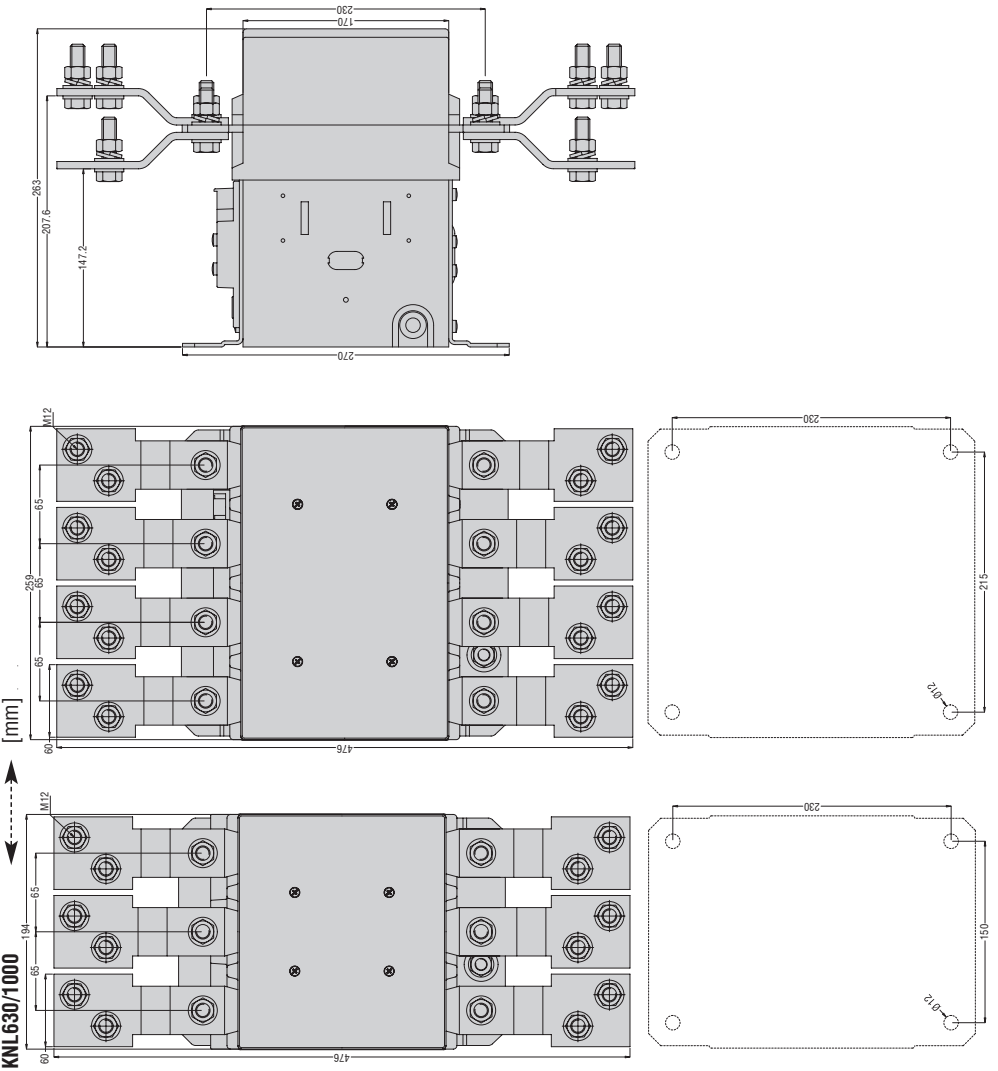




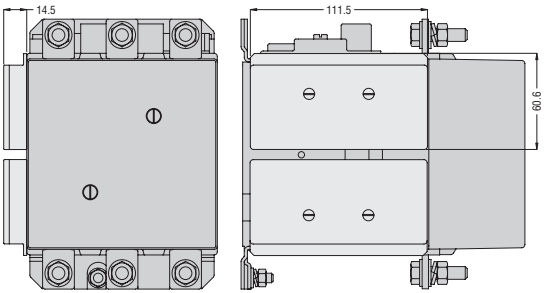
	A	B	C
KNL500	M10	35	265
KNL630	M12	40	270



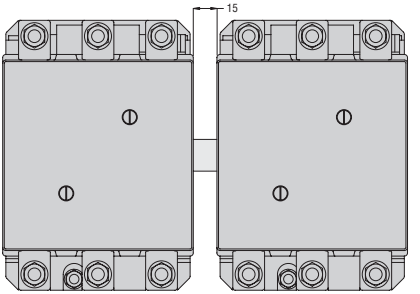



230
170
263
207.6
147.2
270
M12
65
65
259
65
65
60
476
230
215
Ø12
M12
65
194
65
60
476
230
150
Ø12
[mm]
KNL630/1000

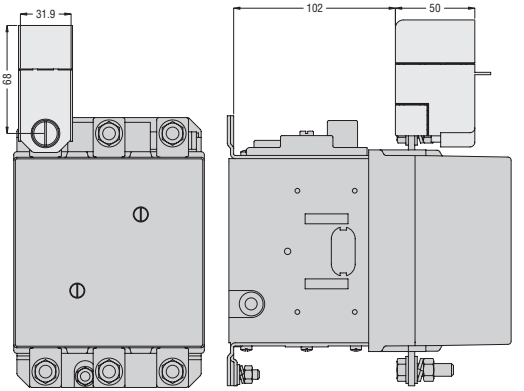
G350 - G354



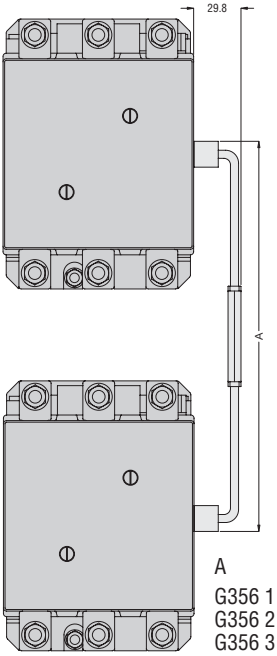
G355



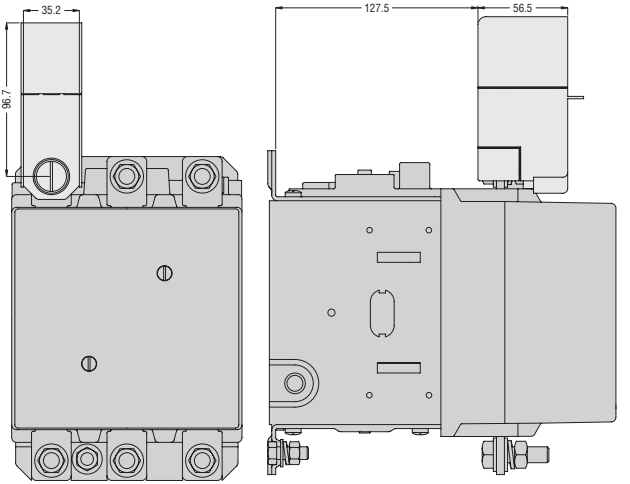
G360 - G361



G356...



G363

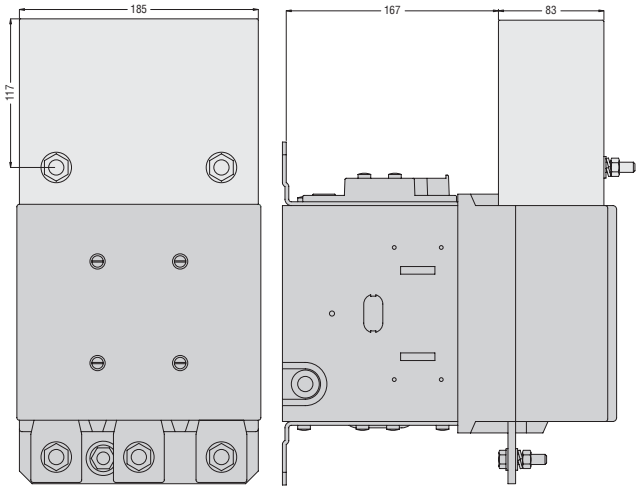


A

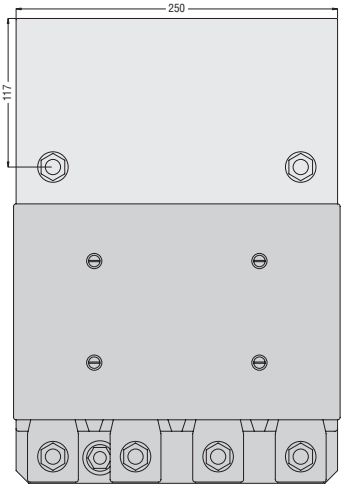
G356 1 = 225-265
G356 2 = 263-305
G356 3 = 305-345
G356 4 = 345-360
G356 5 = 390-425
G356 6 = 470-500

[mm]

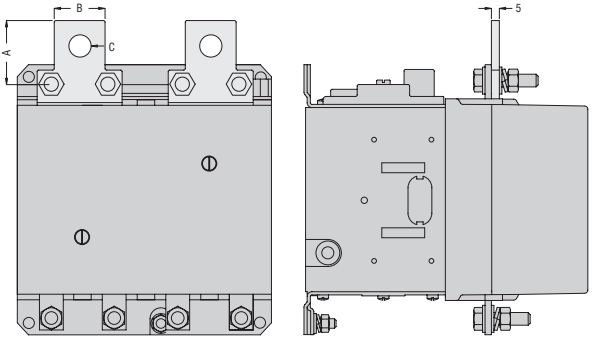
G527 - G529



G528 - G530



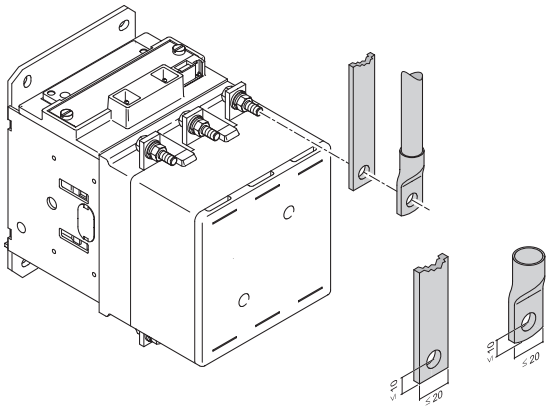
BA1594 - BA1720 - BA1845

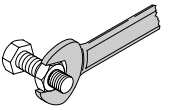


	A	B	C
BA1594	45	32	Ø14
BA1720	53	50	Ø18
BA1845	65	80	Ø13

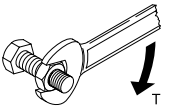
KNL95 - KNL115 - KNL145 - KNL180

[mm]





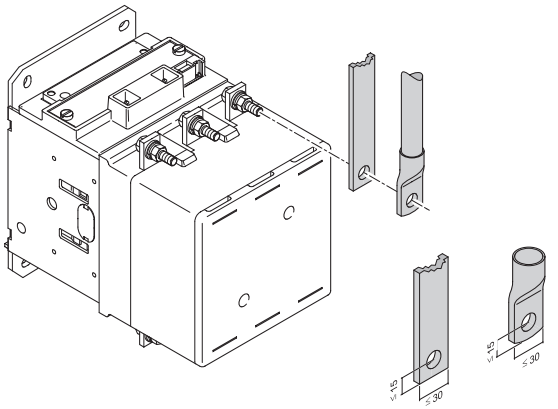
KNL95-KNL115 = 10mm
KNL145 = 13mm
KNL180 = 13mm

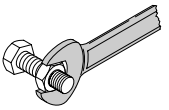


KNL95 T-KNL115 T = 10Nm
KNL145 T = 18Nm
KNL180 T = 18Nm

KNL250 - KNL400

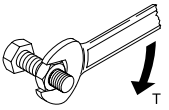
[mm]





KNL250 = 17mm

KNL400 = 17mm

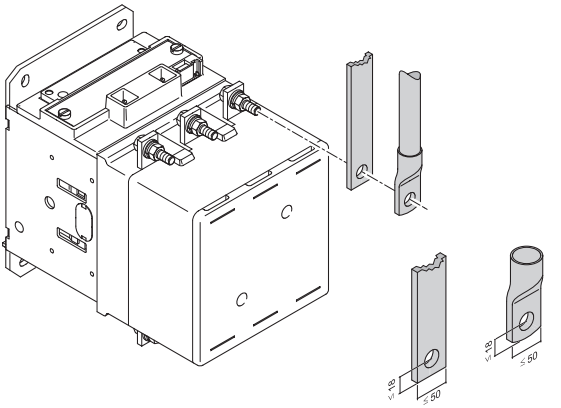


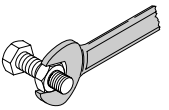
KNL250 T = 35Nm

KNL400 T = 35Nm

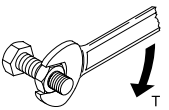
KNL500 - KNL630 -

[mm]

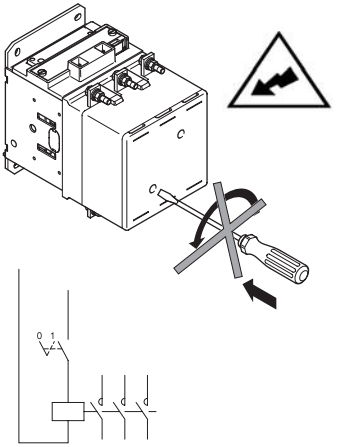


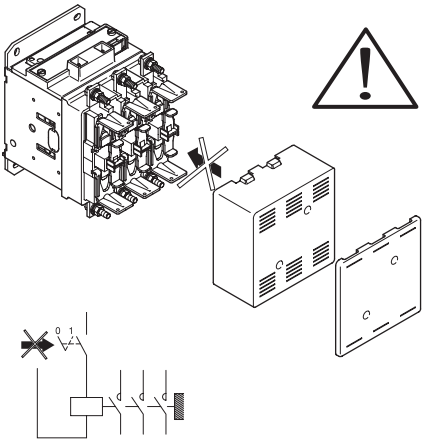


KNL500 = 17mm
KNL630 = 19mm



KNL500 T = 35Nm
KNL630 T = 55Nm





WARNING!
This equipment must be installed by trained personnel, complying to current standards, to avoid damages or safety hazards. Products illustrated herein are subject to alterations and changes without prior notice. Technical data and descriptions in the documentation are accurate to the best of our knowledge, but no liabilities for errors, omissions, or contingencies arising therefrom are accepted.