



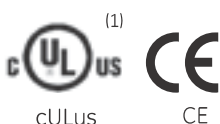
Three and four pole contactors 150 to 825A (AC3) 200 to 1250A (AC1)

- Control circuit: Alternating current up to 690V
Direct current up to 500V
- Degree of protection IP00 (IPxxB with accessories)
- CK07...CK13: auxiliary and coil terminals originally protected against accidental contacts.
Protection for power contacts on request (see accessories)
- Terminals protected against accidental contacts according to VDE 0106 T.100, VBG4.
- CK...E with electronic module suitable for DC and AC. (50/60Hz)
- CK contactors always provided with one auxiliary contact block BCLL11 (1NO+1NC)

Standards

IEC/EN 60947-1	CSA 22.2/14
IEC/EN 60947-4-1	CENELEC HD 419
IEC/EN 60947-5-1	NFC 63-110
EN 50005	ASE 1025
UL 508	UNE 20109
NEMA ICS 1	VDE 0660/102
BS 5424 & 775	

Approvals



Lloyd's
Register



Bureau
Veritas



RINA

Standard voltages

To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit.

Alternating current (V)

Three-pole contactors: CK75CA3..., CK08CA3..., CK85BA3...
Four-pole contactors: CK07BA4..., CK08BA4...

♦	C	D	F	G	H	I	J	K	M	N	R	S	T	U	V	W	X	Y	Z
50Hz		24	42	48			110	127		220	240			380		415	440	500	660
								230					400					690	
60Hz	24		48		110	120			220	277		240	380	480	440			600	

Alternating current (V). Dual-frequency coil

Three-pole contactors: CK75CA3..., CK08CA3..., CK85BA3...
Four-pole contactors: CK07BA4..., CK08BA4...

♦	1	2	3	6	13
50/60Hz	24	48	110	230	400

Alternating current (V)

Three-pole contactors: CK13BA3...
Four-pole contactors: CK13BA4...

♦	J	N	U	Y	Z
50/60Hz	110	220	380	480	600
		240	440	500	660

Control circuit with rectifier bridge

♦	J	N	U
50Hz	110	220	380
		230	400
60Hz	120	240	480

Direct current (V). With electronic module (0.7 ... 1.3 x Us)

Three-pole contactors: CK75CE3..., CK08CE3....

♦	WD	WE	WF	WH	WJ	WN
Voltage	24	33	48	72	110	220

Alternating c. / Direct c. (V). With electronic module (0.8 ... 1.10 x Us)

Three-pole & four-pole contactors: CK E.....

◆	D	F	J	N	U	Y
Voltage	24	42	110	220	380	440
	28	48	127	250	415	500

(1) CK13 not UL

- Order codes ● pg. C.19
- Aux. contact blocks ● pg. C.20
- Accessories & Spares ● pg. C.21
- Technical data ● pg. C.42
- Dimensions ● pg. C.58



Three pole contactors



Max.oper.current		Admissible power AC3					Electrical endurance	Control circuit: Alternating current		Control circuit: A.C. / D.C.	
Non- inductive loads	Motors <440V, 3 ~ 50/60Hz AC3 A	220V	380V	415V	440V	500V		Cat. no. ⁽¹⁾	Pack	Cat. no. ⁽¹⁾	Pack
		230V	400V	440V							
AC1 A		kW HP	kW HP	kW HP	kW HP	kW HP	Cat. AC3 Operations	Ref. no. see bottom		Ref. no. see bottom	
250	150	45 60	75 100	80 108	80 108	100 135	1.7×10 ⁶	CK75CA311 ♦	1	CK75CE311 ♦	1
250	185	55 75	90 125	100 135	100 135	110 150	1.2×10 ⁶	CK08CA311 ♦	1	CK08CE311 ♦	1
315	205	65 88	110 150	125 170	125 170	132 180	1.7×10 ⁶	CK85BA311 ♦	1	CK85BE311 ♦	1
315	250	75 100	132 180	132 180	132 180	160 220	1.5×10 ⁶			CK09BE311 ♦	1
450	309	90 125	160 220	160 220	185 250	200 270	1.1×10 ⁶			CK95BE311 ♦	1
600	420	125 170	220 300	230 312	230 312	300 405	1×10 ⁶			CK10CE311 ♦	1
700	550	160 220	280 380	315 425	315 425	400 540	0.8×10 ⁶			CK11CE311 ♦	1
1000	700	220 300	375 510	400 540	425 580	480 650	0.7×10 ⁶			CK12BE311 ♦	1
1250	825	250 340	450 610	450 610	450 610	500 680	0.7×10 ⁶ (2)	CK13BA311 ♦	1		

Spare coil

	CK75CA3 ... CK08CA3	C12168 ♦	1	
	CK85BA3	C04255 ♦	1	
	CK13BA3	C08998 ♦	1	
	Control circuit with incorporated rectifier bridge CK13BA3	C09120 ♦	1	
Coil	CK75CE3 ... CK08CE3			KB4E ♦ 1
	CK85BE3 ... CK95BE3			KB5E ♦ 1
	CK12BE3			KB6E ♦ 1
	CK10CE3 ... CK11CE3			KB7E ♦ 1
Electronic module	CK75CE3 ... CK08CE3			KM4E ♦ 1
	CK85BE3 ... CK95BE3			KM5E ♦ 1
	CK12BE3			KM6E ♦ 1
	CK10CE3 ... CK11CE3			KM7E ♦ 1

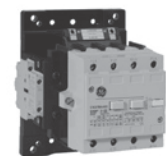
(1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.18).

(2) CK13 non allow the aux. block in right side.

For reference numbers,
see chapter X, pg. X.7



Four pole contactors



Max.oper. current	Admissible power							Electrical endurance	Control circuit: Alternating current		Control circuit: A.C. / D.C.		
	AC3		AC1						Cat. AC3	Cat. no. ⁽¹⁾	Pack	Cat. no. ⁽¹⁾	Pack
	380V 400V		220V 230V	380V 400V	415V	440V	500V						
Non-inductive loads AC1 A	kW	A	kW	kW	kW	kW	kW	Operations	Ref. no. see bottom		Ref. no. see bottom		
200	55	105	76	131	143	151	173	1x10 ⁶	CK07BA41 ♦	1	CK07BE411 ♦	1	
325	100	185	123	214	233	247	281	0.6x10 ⁶	CK08BA411 ♦	1	CK08BE411 ♦	1	
400	132	250	152	263	287	304	346	0.6x10 ⁶			CK09BE411 ♦	1	
500	160	309	191	329	359	380	415	0.6x10 ⁶			CK95BE411 ♦	1	
600	220	408	228	395	431	456	519	0.5x10 ⁶			CK10CE411 ♦	1	
700	280	530	266	460	503	533	606	0.4x10 ⁶			CK11CE411 ♦	1	
1000	375	680	381	658	719	762	866	0.4x10 ⁶			CK12BE411 ♦	1	
1250	450	800	476	822	898	952	1082	0.6x10 ⁶ (2)	CK13BA411 ♦	1			

Spare coil

	CK07BA4	C04255 ♦	1		
	CK08BA4	C04787 ♦	1		
	CK13BA4	C08998 ♦	1		
	Control circuit with incorporated rectifier bridge CK13BA4	C09120 ♦	1		

Coil	CK07BE4			KB5E ♦	1
	CK08BE4 ... CK95BE4, CK12BE4			KB6E ♦	1
Electronic module	CK10CE4 ... CK11CE4			KB7E ♦	1
	CK07BE4			KM5E ♦	1
	CK08BE4 ... CK95BE4, CK12BE4			KM6E ♦	1
	CK10CE4 ... CK11CE4			KM7E ♦	1

- (1) To complete the catalogue number, replace the symbol ♦ by the code corresponding to the voltage and frequency of the control circuit (see C.18).
(2) CK13 non allow the aux. block in right side.

Auxiliary instantaneous contact block



Side mounting

Number of contacts	Contacts				Cat. no.	Ref. no.	Pack
	•3 •4	•1 •2	•7 •8	•5 •6			
2	2	0	0	0	BCLL20	104706	10
2	1	1	0	0	BCLL11	104707	10
combinations of more than 2 blocks							
2	2	0	0	0	BRLL20	104704	10
2	1	1	0	0	BRLL11	104705	10
2	0	2	0	0	BRLL02	106622	10

For reference numbers,
see chapter X, pg. X.9

Accessories

	For use with:	Mounting	Voltage	Ue	Cat. no.	Ref. no.	Pack
Transient voltage suppressor 	Fixation to the coil terminals, that allows simultaneous use with the auxiliary contact blocks.						
	CK75 ... CK08		AC	24V - 48V	BSLR3G	104716	10
	CK75 ... CK08		AC	50V - 127V	BSLR3K	104717	10
	CK75 ... CK08		AC	130V - 240V	BSLR3R	104718	10
	CK75 ... CK08		AC	227V - 500V	BSLV3U	110836	10
	CK85 ... CK13		AC	24V	KRC24	104760	10
	CK85 ... CK13		AC	260V	KRC48/260	104761	10
	CK85 ... CK13		AC	415V	KRC380/415	104762	10
Mechanical interlock 	CK07B ... CK12	Horizontal			BEKH	104763	1
	CK07B ... CK95	Vertical			BEKVS 1	104786	1
	CK10C ... CK12B	Vertical			BEKVA 1	104785	1
	CK13	Vertical			BEKV	104764	1
Pole terminal protection	CK75C ... CK08C	1 pole. VDE0106			CM1CA5F	105200	1
	CK85B ... CK12B	1 pole. VDE0106	Contactors 3P		C09476	104766	6
	CK08B ... CK12B	1 pole. VDE0106	Contactors 4P		C09479	204800	8
	CK75C ... CK08C	1 pole IPXXB			PTPCK75	103747	1 ⁽¹⁾
	CK85B ... CK95B	1 pole IPXXB			PTPCK95	103748	3 ⁽²⁾
	CK10C ... CK12B	1 pole IPXXB			PTPCK11	103749	1 ⁽¹⁾

(1) One phase

(2) Three pole

Spares

	For use with:	Type		Cat. no.	Ref. no.	Pack
Contact kits 	One set consists of two fixed contacts, one moving contact and accessory parts. When contact replacement is needed, it is recommended to replace all the contacts at the same time.					
	CK07B	NA		V1107BA	113612	1
	CK75C	NA		V1175CA	113613	1
	CK08C	NA		V1108CA	113614	1
	CK08B	NA	Contactors 4P	V1108BA	113505	1
	CK85B	NA		V1185BA	113615	1
	CK09B	NA		V1109BA	113616	1
	CK09B	NA	Contactors 4P	V1109BA	113899	1
	CK95B	NA		V1195BA	113617	1
	CK10C	NA		V1110CE	113618	1
	CK11C	NA		V1111CE	113619	1
	CK12B	NA		V1112BA	113620	1
	CK13B	NA		V1113BA	113621	1

Conformity to standards

IEC/EN 60947-1	NF C 63-110	BS 5424 & 775
IEC/EN 60947-4-1	ASE 1025	NEMA ICS 1
CENELEC HD 419	CSA 22.2/14	VDE 0660/102
UL 508	UNE 20109	
EN 50005		

Approvals

cULus	RINA	CE
NOM	FI	
Lloyd's Register	Bureau Veritas	

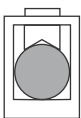
Ambient conditions

Storage temperature	-55°C to +80°C	
Operation temperature	-40°C to +60°C	
Altitude	up to 3000m	Nominal values
	from 3000 up to 4000m	90%Ie 80%Ue
	from 4000 up to 5000m	80%Ie 75%Ue

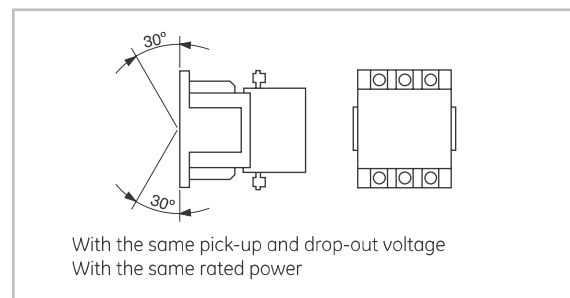
Climatic resistance (IEC 68-2)

Continuous tests 40 / 125 / 56		
Cold (72h)		
Temperature	-40°C	
Dry heat (96h)		
Temperature	+125°C	
Relative humidity	< 50%	
Humid heat (56 days)		
Temperature	+40°C	
Relative humidity	95%	
Cyclical test		
First half-cycle (12h)		
Low temperature	+25°C	
Relative humidity	93%	
Second half-cycle (12h)		
Low temperature	+55°C	
Relative humidity	95%	
Number of consecutive cycles	6	

Terminal capacity and tightening torque

		CK07B	CK75C CK08C	CK08B CK95B	CK10C	CK11C	CK12B	CK13B
	Solid (mm²)	1.5...95						
	Finely stranded w/end sleeve (mm²)	2...35						
	Finely stranded w/o end sleeve (mm²)	2...50						
	Stranded (mm²)	1.5...95						
	AWG wires (mm²)	16...00						
	Tightening torque (Nm)	8						
	(Lb x in)	70						
	Finely stranded w/end sleeve (mm²)		1 x 120 2 x 95	1 x 240 2 x 150	2 x 185	2 x 240	-	-
	AWG wires with end sleeve (mm²)		1 x 300 2 x 107	1 x 500 2 x 300	2 x 350	2 x 500	-	-
	Busbars		2 (25 x 5)	2 (25 x 5)	2 (35 x 10)	2 (35 x 10)	2 (35 x 10)	2 (60 x 10)
	Tightening torque (Nm)		8	23	31.5	31.5	31.5	31.5
	(Lb x in)		70	200	275	275	275	275

Mounting positions



Power circuit

			CK75C	CK08C	CK85B	CK09B	CK95B	CK10C	CK11C	CK12B	CK13B
Three pole contactors											
Rated thermal current I _{th} at $\theta \leq 40^\circ\text{C}$	(A)		250	250	315	315	450	600	700	1000	1250
Rated operational current I _e AC-3	(A)		150	185	205	250	309	420	550	700	825
Rated operational voltage U _e	(V)		1000	1000	1000	1000	1000	1000	1000	1000	1000
Rated insulation voltage U _i	(V)		1000	1000	1000	1000	1000	1000	1000	1000	1000
Maximum continuous current AC-1	(A)		250	250	315	315	450	600	700	1000	1250
Frequency limits	(Hz)		25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400	25...400
Making capacity (RMS) (IEC 947)	(A)		1850	2200	2500	2500	3700	6500	6500	8400	8250
Breaking capacity (RMS) (IEC 947)											
U _e ≤ 400V	(A)		1600	1850	2000	3500	3500	5600	5600	7300	6600
U _e = 500V	(A)		1600	1850	2000	3500	3500	5600	5600	7000	6600
U _e = 690V	(A)		1000	1200	1660	2200	2200	5000	5000	6700	6000
U _e = 1000V	(A)		350	350	850	1100	1100	3000	3000	3500	3500
Short-time current	1 sec.	(A)	2500	2500	4000	5500	5500	7500	7500	9700	11600
	5 sec.	(A)	2500	2500	3200	3500	3500	5200	5200	7700	8800
	10 sec.	(A)	2300	2300	2400	2500	2500	4000	4000	6100	7350
	30 sec.	(A)	1250	1250	1400	1600	1600	2800	2800	4400	5300
	1 min.	(A)	900	900	1000	1200	1200	1800	1800	3500	4500
	3 min.	(A)	600	600	750	900	900	1200	1200	2300	2800
Short-time current	(min.)		10	10	10	10	10	10	10	10	10
Protec. against short-circuit with fuses without TOR											
Coord. type "1"	gL/gG	(A)	355	355	500	500	630	1250	1250	1250	2x800
Coord. type "2"	gL/gG	(A)	250	250	315	400	500	630	800	1000	1250
Without welding	gL/gG	(A)	200	200	250	315	425	500	630	800	1000
Impedance per pole	(mΩ)		0.30	0.30	0.28	0.28	0.28	0.15	0.13	0.14	0.11
Power dissipation AC-1	(W)		19	19	27.7	27.7	56.7	54.3	63.7	140	171.8
per pole AC-3	(W)		6.8	10.3	11.7	17.5	26.7	26.5	45.3	68.6	74.8
Insulation resistance											
Between adjacent poles	(mΩ)		> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10
Between poles and earth	(mΩ)		> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10
Between input and output	(mΩ)		> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10	> 10
			CK07B	CK08B		CK09B	CK95B	CK10C	CK11C	CK12B	CK13B
Four pole contactors											
Rated thermal current I _{th} at $\theta \leq 40^\circ\text{C}$	(A)		200	325		400	500	600	700	1000	1250
Rated operational voltage U _e	(V)		690	1000		1000	1000	1000	1000	1000	1000
Rated insulation voltage U _i	(V)		1000	1000		1000	1000	1000	1000	1000	1000
Maximum continuous current AC-1	(A)		200	325		400	500	600	700	1000	1250
Frequency limits	(Hz)		25...400	25...4000		25...400	25...400	25...400	25...400	25...400	25...400
Making capacity (RMS) (IEC 947)	(A)		1150	1850		2500	3700	6500	6500	6700	8250
Breaking capacity (RMS) (IEC 947)											
U _e ≤ 400V	(A)		950	1600		3500	3500	5600	5600	6700	6600
U _e = 500V	(A)		950	1600		3500	3500	5600	5600	6700	6600
U _e = 690V	(A)		800	1000		2200	2200	3500	3500	6000	6000
U _e = 1000V	(A)		-	350		1100	1100	2000	2000	3500	3500
Short-time current	1 sec.	(A)	2100	2500		5500	5500	7500	7500	9700	11600
	5 sec.	(A)	1500	2500		3500	3500	5200	5200	7700	8800
	10 sec.	(A)	1150	2300		2500	2500	4000	4000	6100	7350
	30 sec.	(A)	750	1250		1600	1600	2800	2800	4400	5300
	1 min.	(A)	550	900		1200	1200	1800	1800	3500	4500
	3 min.	(A)	350	600		900	900	1200	1200	2300	2800
Recovery time	min.		10	10		10	10	10	10	10	10
Short-circuit protection with fuse without TOR											
Coord. type "1"	gL/gG	(A)	315	500		500	630	1250	1250	1250	2x800
Coord. type "2"	gL/gG	(A)	250	400		400	500	630	800	1000	1250
Without welding	gL/gG	(A)	200	315		315	425	500	630	800	1000
Impedance per pole	(mΩ)		0.45	0.32		0.28	0.28	0.15	0.13	0.14	0.11
Power dissipation per pole AC-1	(W)		18	33.8		44.8	56.7	61.2	68.6	140	171.8
Insulation resistance											
Between adjacent poles	(mΩ)		> 10	> 10		> 10	> 10	> 10	> 10	> 10	> 10
Between poles and earth	(mΩ)		> 10	> 10		> 10	> 10	> 10	> 10	> 10	> 10
Between input and output	(mΩ)		> 10	> 10		> 10	> 10	> 10	> 10	> 10	> 10

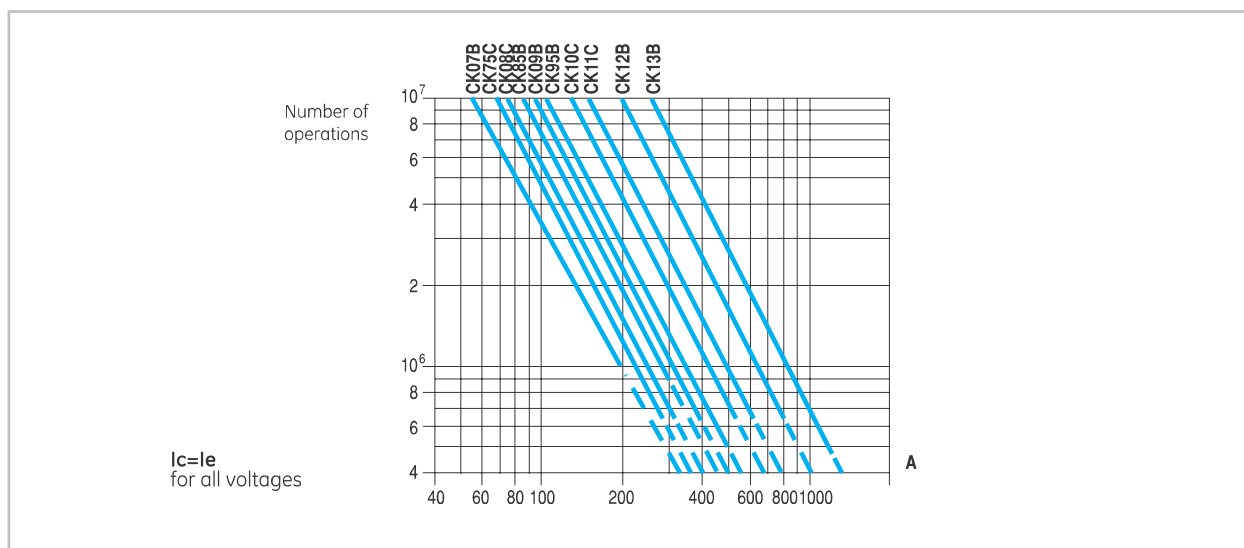
Electrical endurance

Mixed category AC4 / AC3

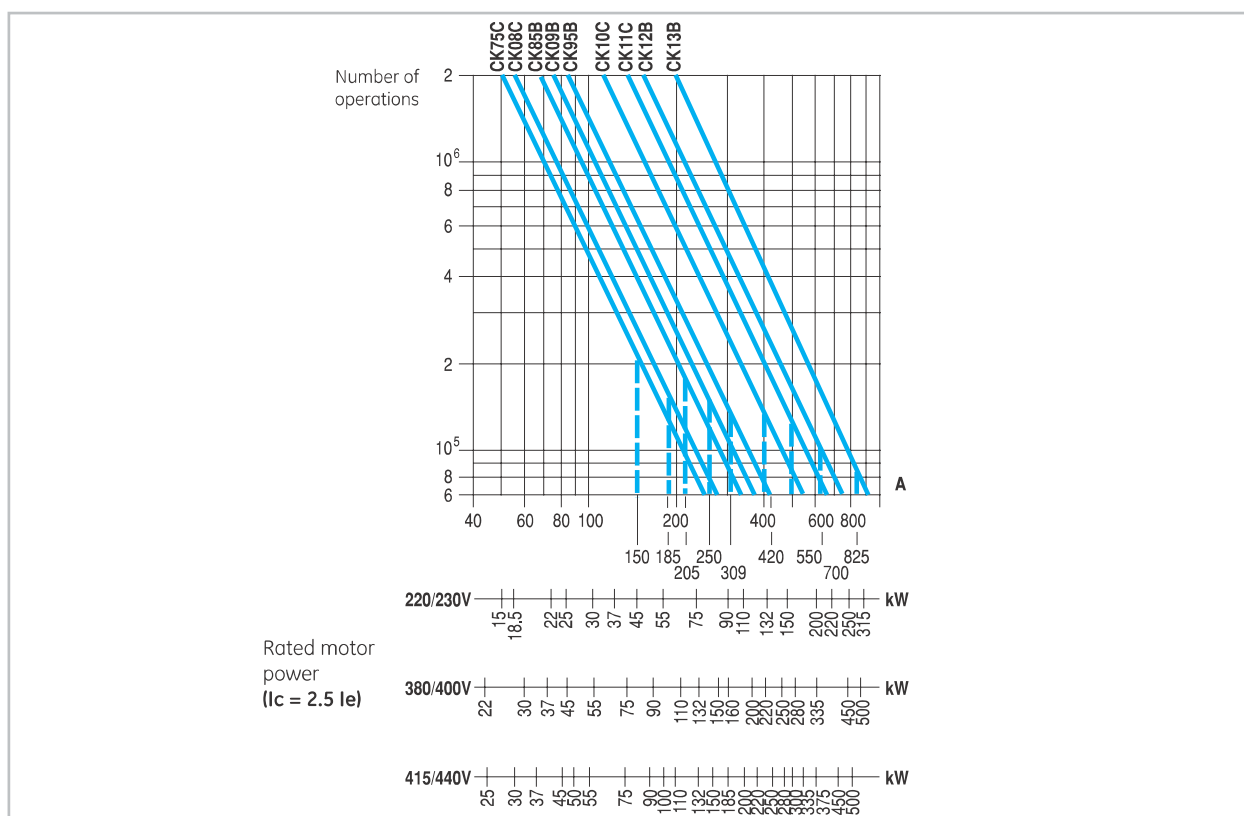
Electrical endurance for mixed category (AC-3/AC-4) is calculated with the following formula:

$$\text{Electrical endurance (AC-3/AC-4)} = \frac{\text{Electrical endurance (AC-3)}}{1 + \frac{\% \text{ oper AC-4}}{100}} \times \left(\frac{\text{Elec.endur. (AC-3)}}{\text{Elec.endur. (AC-4)}} - 1 \right)$$

Category AC1

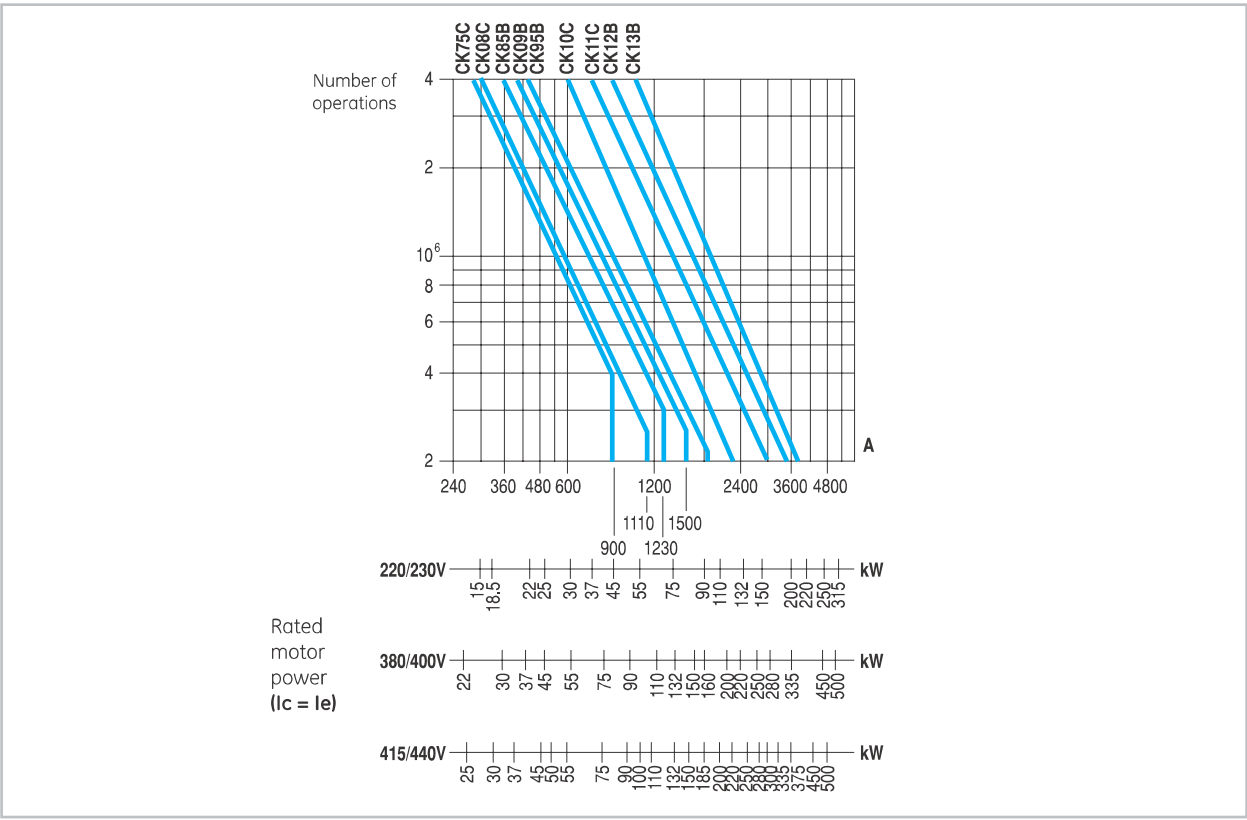


Category AC2

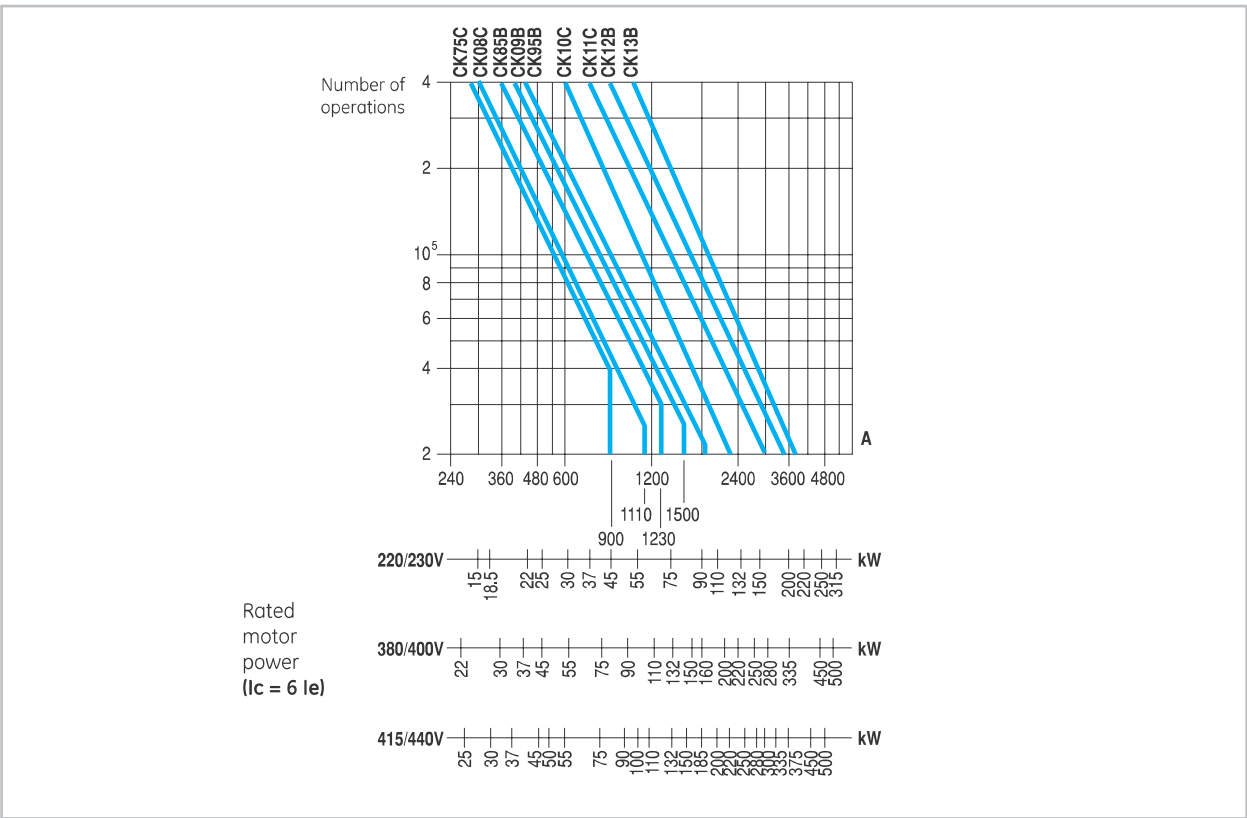


Electrical endurance (continued)

Category AC3



Category AC4



3P and 4P contactors

A

B

C

D

E

F

G

H

I

X



Three pole contactors. Control circuit

Alternating current

		CK75CA	CK08CA	CK85BA CK85BE	CK09BE	CK95BE	CK10CE	CK11CE	CK12BE	CK13BA
Rated insulation voltage U_i	(V)	1000	1000	1000	1000	1000	1000	1000	1000	1000
Standard voltages U_s (50/60 Hz)	(V)	24...690	24...690	24...690	24...690	24...690	24...690	24...690	24...690	24...440
Operating limits										
Switch-on	xUs	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Switch-off	xUs	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.25...0.55
Consumption. Monofrequency coils										
Magnetic circuit closed	CK...A (VA)	42	42	46	-	-	-	-	-	6
Magnetic circuit open	CK...E (VA)	-	-	20	20	20	23	23	25	-
Power dissipation	CK...A (W)	500	500	830	-	-	-	-	-	2760
	CK...E (W)	-	-	425	425	425	680	680	750	-
Consumption. Bifrequency coils										
Magnetic circuit closed (CK...A)	50Hz (VA)	46	46	60	-	-	-	-	-	-
Magnetic circuit open (CK...A)	60Hz (VA)	38.3	38.3	50	-	-	-	-	-	-
Power dissipation (CK...A)	50Hz (W)	568	568	1082	-	-	-	-	-	-
	60Hz (W)	473	473	901	-	-	-	-	-	-
Power factor										
Magnetic circuit closed	CK...A (cos φ)	0.4	0.4	0.37	-	-	-	-	-	approx. 1
Magnetic circuit open	CK...E (cos φ)	-	-	-	-	-	-	-	-	-
Opening and closing times at Us										
Making time at excitation (NO)	(ms)	20...25	20...25	36...40	60...70	60...70	80...90	80...90	70...80	50...55
Breaking time at de-energisation (NO)	(ms)	10...13	10...13	10...15	13...17	13...17	40...50	40...50	70...80	115...130
Mechanical endurance	10 ⁶ ops	10	10	10	10	10	10	10	10	3
Maximum rate										
No load	ops./h	2400	2400	2400	1200	1200	900	900	900	600
AC-1/AC-3 at rated power.	ops./h	600	600	600	600	600	300	300	300	120
AC-2 at rated power	ops./h	250	250	250	250	250	200	200	200	120
AC-4 at rated power	ops./h	150	150	150	150	150	120	120	120	120

Direct current

		CK75CE	CK08CE	CK85BE	CK09BE	CK95BE	CK10CE	CK11CE	CK12BE
Rated insulation voltage U_i	(V)	1000	1000	1000	1000	1000	1000	1000	1000
Standard voltages U_s (50/60 Hz)	(V)	24...500	24...500	24...500	24...500	24...500	24...500	24...500	24...500
Operating limits									
Switch-on	xUs	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Switch-off	xUs	0.4...0.6	0.4...0.6	0.35...0.5	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6
Consumption									
Magnetic circuit closed	(W)	2	2	3.5	3.5	3.5	4	4	4.5
Magnetic circuit open	(W)	135	135	350	350	350	405	405	650
Opening and closing times at Us									
Making time at excitation (NO contacts)	(ms)	60...70	60...70	60...70	60...70	60...70	80...90	80...90	70...80
Breaking time at de-energisation (NO contacts)	(ms)	13...17	13...17	13...17	13...17	13...17	40...50	40...50	40...50
Mechanical endurance	10 ⁶ ops.	10	10	10	10	10	10	10	10
Maximum rate									
No load	ops./h	1200	1200	1200	1200	1200	900	900	900
AC-3 at rated power	ops./h	600	600	600	600	600	300	300	300
AC-4 at rated power	ops./h	150	150	150	150	150	120	120	120



Four pole contactors. Control circuit

Alternating current

		CK07BA CK07BE	CK08BA CK08BE		CK09BE	CK95BE	CK10CE	CK11CE	CK12BE	CK13BA
Rated insulation voltage U_i	(V)	1000	1000		1000	1000	1000	1000	1000	1000
Standard voltages U_s (50/60 Hz)	(V)	24...690	24...690		24...690	24...690	24...690	24...690	24...690	110...440
Operating limits										
Switch-on	xU_s	0.8...1.1	0.8...1.1		0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1
Switch-off	xU_s	0.4...0.6	0.4...0.6		0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.25...0.55
Consumption. Monofrequency coils										
Magnetic circuit closed	CK...A (VA)	46	130		-	-	-	-	-	6
Magnetic circuit open	CK...E (VA)	20	25		25	25	23	23	25	-
Power dissipation	CK...A (W)	830	2860		-	-	-	-	-	2760
	CK...E (W)	425	750		750	750	680	680	750	-
	CK...A (W)	17	53		-	-	-	-	-	5
	CK...E (W)	3.5	4.5		4.5	4.5	4	4	4.5	-
Consumption. Bifrequency coils										
Magnetic circuit closed (CK...A)	50Hz (VA)	60	159.3		-	-	-	-	-	-
Magnetic circuit open (CK...A)	60Hz (VA)	50	132.7		-	-	-	-	-	-
	50Hz (VA)	1082	3509		-	-	-	-	-	-
	60Hz (VA)	901	2924		-	-	-	-	-	-
Power dissipation (CK...A)	50Hz (W)	22.2	65.3		-	-	-	-	-	-
	60Hz (W)	18.5	54.4		-	-	-	-	-	-
Power factor										
Magnetic circuit closed	CK...A (cos φ)	0.37	0.37		-	-	-	-	-	approx. 1
Magnetic circuit open	CK...E (cos φ)	-	-		-	-	-	-	-	-
	CK...A (cos φ)	0.6	0.6		-	-	-	-	-	approx. 1
	CK...E (cos φ)	-	-		-	-	-	-	-	-
Opening and closing times at U_s										
Making time at excitation (NO)	(ms)	36...40	60...70		70...80	70...80	110...115	80...90	110...115	50...55
Breaking time at de-energisation (NO)	(ms)	10...15	13...17		70...80	70...80	70...80	40...50	70...80	70...80
Mechanical endurance	10^6 ops.	10	10		10	10	10	10	10	3
Maximum rate										
No load	ops./h	2400	900		900	900	900	900	900	600
AC-1/AC-3 at rated power	ops./h	600	600		600	600	300	300	300	120

Direct current

		CK07BE	CK08BE		CK08BE	CK95BE	CK10CE	CK11CE	CK12BE	
Rated insulation voltage U_i	(V)	1000	1000		1000	1000	1000	1000	1000	
Standard voltages U_s	(V)	24...500	24...500		24...500	24...500	24...500	24...500	24...500	
Operating limits										
Switch-on	xU_s	0.75...1.1	0.8...1.1		0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	0.8...1.1	
Switch-off	xU_s	0.4...0.6	0.4...0.6		0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	0.4...0.6	
Consumption.										
Magnetic circuit closed	(W)	3.5	4.5		4.5	4.5	4.5	4.5	4.5	
Magnetic circuit open	(W)	350	650		650	650	650	650	650	
Opening and closing times at U_s										
Making time at excitation (NO contacts)	(ms)	60...70	70...80		70...80	70...80	80...90	80...90	110...115	
Breaking time at de-energisation (NO contacts)	(ms)	13...17	70...80		70...80	70...80	40...50	40...50	70...80	
Mechanical endurance	10^6 ops.	10	10		10	10	10	10	10	
Maximum rate										
No load	ops./h	1200	900		900	900	900	900	900	
AC-3 at rated power	ops./h	600	600		600	600	600	300	300	

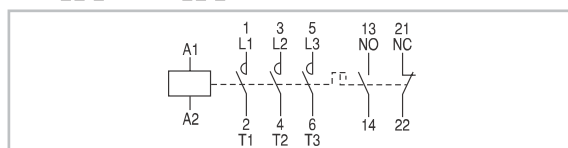
Contact sequence

		Basic contactor	Auxiliary contact blocks Lateral mounted	
			BCLL 20 BRLL 20	BCLL 11 BRLL 11
Three-pole contactors 3 NO	CK75C... CK08C...	0 7.3 10.4	0 3.5 10.4	0 3.5 10.4
	CK85B... CK09B... CK95B...	0 10.4 14	0 3.5 14	0 3.5 14
	CK10C... CK11C...	0 12 17	0 3.5 17	0 3.5 17
	CK12B... CK13B...	0 12.6 17.5	0 3.5 17.5	0 3.5 17.5
	CK07B...	0 7.7 10.7	0 3.5 10.7	0 3.5 10.7
	CK08B... CK09B... CK95B...	0 10.4 14	0 3.5 14	0 3.5 14
	CK10C... CK11C...	0 12 17	0 3.5 17	0 3.5 17
	CK12B... CK13B...	0 12.6 17.5	0 3.5 17.5	0 3.5 17.5

Numbering of the terminals

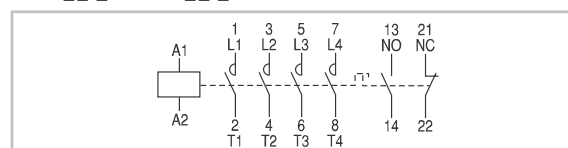
Three pole contactors

CK75C__3_ ... CK13B__3_



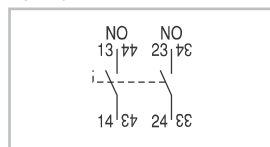
Four pole contactors

CK07B__4_ ... CK13B__4_

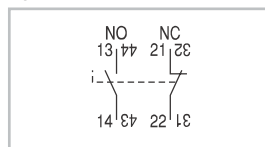


Auxiliary contact blocks. Lateral mounting

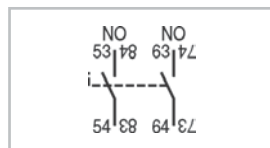
BCLL20



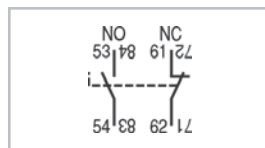
BCLL11



BRLL20

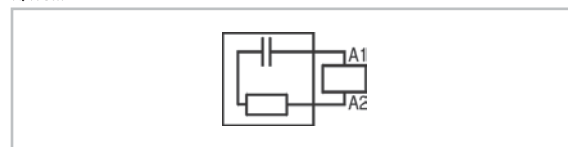


BRLL11



Voltage suppressor block

K/RC...



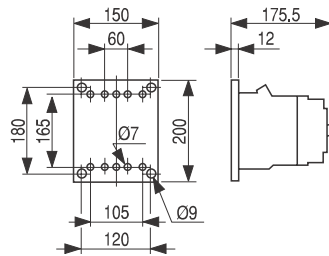
Mechanical interlock

BEKV, BEKVA1, BEKVS1, BEKVH



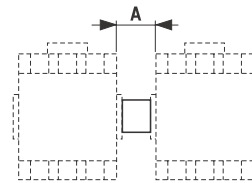
Mechanical interlock

CK07B	4.700 kg
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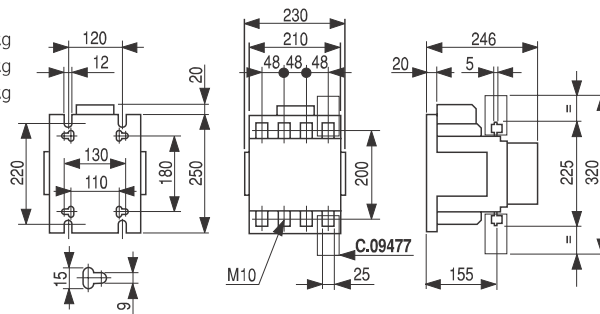


BEKH	0.350 kg
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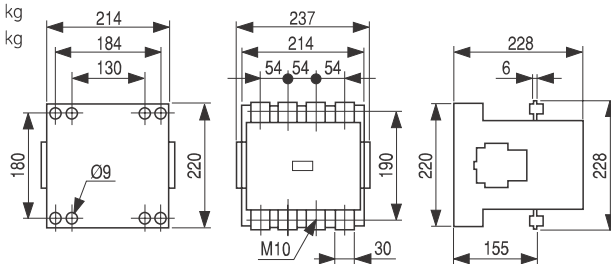
	A
CK75C3... - CK08C3...	55
CK85B3... - CK95B3...	55
CK10C3... - CK11C3...	33
CK12B3...	75



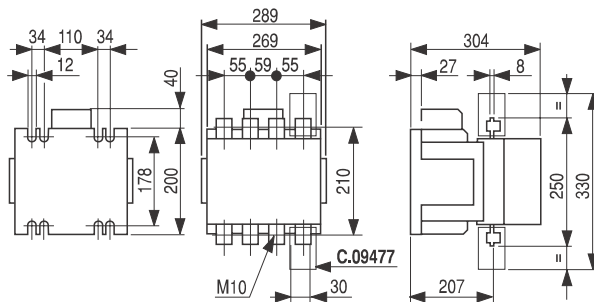
CK08B	14.90 kg
CK09B	15.10 kg
CK95B	15.30 kg



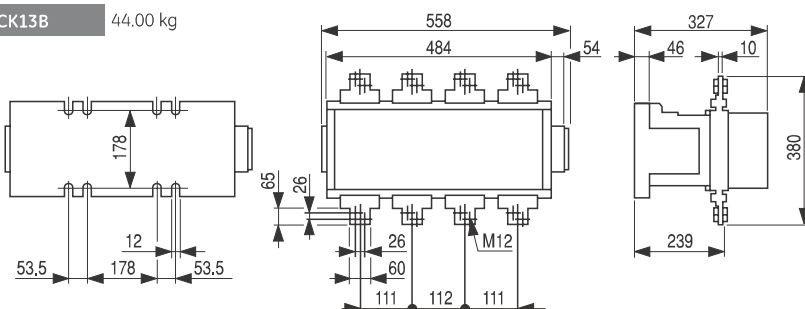
CK10C	22.30 kg
CK11C	22.80 kg



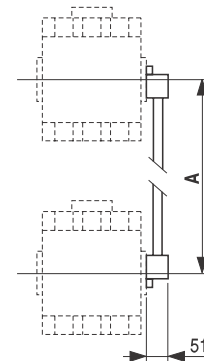
CK12B	23.30 kg
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CK13B	44.00 kg
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	A
BEKVA1	550 0.900 kg
BEKVS1	350 0.800 kg



BEKV	1.200 kg
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