

# Minijturni, motorski, pomoćni sklopnici i bimetalni zaštitni releji

## Minijturni sklopnik CE, CAE, CEI7

**Upotreba:**

Minijturni sklopnici se upotrebljavaju za daljinsko upravljanje i zaštitu (zajedno sa prekostrujnim relejima) električkih motora i drugih električnih potrošača nazivne snage do 7,5kW (kod 400V AC3 kategorije).

**Glavna prednosti:**

- AC-3 kategorija upotrebe do 16A.
- MAC i DC sklopnici su iste veličine, što omogućava lakše i fleksibilnije projektiranje i montažu.
- Nazivni napon izolacije 690V.
- Znatno manja potrošnja i zagrijavanje omogućava direktnu kompatibilnost sa elektronskim upravljačkim sistemima
- Kompletna linija dodataka, kompaktna izrada omogućava brzu montažu.
- Gušenje udarnog napona (kao opcija)
- Zaštita od direktnog dodira sa čeonu strane IP20
- Upravljački naponi 24VAC, 48VAC, 110VAC, 230VAC, 400VAC



**Minijturni sklopnik CE07, 16 A (AC1), 7A, 3 kW (AC3)\***

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CE07.10-24V-50/60Hz	004641020		130	1
CE07.10-48V-50/60Hz	004641021			
CE07.10-110V-50/60Hz	004641022			
CE07.10-230V-50/60Hz	004641023			
CE07.10-400V-50/60Hz	004641024			
CE07.01-24V-50/60Hz	004641010		130	1
CE07.01-48V-50/60Hz	004641011			
CE07.01-110V-50/60Hz	004641012			
CE07.01-230V-50/60Hz	004641013			
CE07.01-400V-50/60Hz	004641014			



**Minijturni pomoćni sklopnik CAE0; 6A (AC15, 230V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CAE04.22-230V-50/60Hz	004641343		180	1
CAE04.22-24V-50/60Hz	004641340			
CAE04.31-230V-50/60Hz	004641363		180	1
CAE04.31-24V-50/60Hz	004641360			
CAE04.13-230V-50/60Hz	004641353		180	1
CAE04.13-24V-50/60Hz	004641350			
CAE04.40-230V-50/60Hz	004641383		180	1
CAE04.40-24V-50/60Hz	004641380			

## Minijaturni, motorski, pomoćni sklopnici i bimetalni zaštitni releji

### Kombinacija minijaturnih sklopnika za reverziranje i preklapanje sa mehaničkom blokadom CEI17.10, 3,5A (AC3)

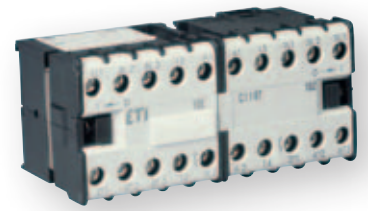
tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEI7.10-24V-50/60Hz	004641620		250	1
CEI7.10-48V-50/60Hz	004641621			
CEI7.10-110V-50/60Hz	004641622			
CEI7.10-230V-50/60Hz	004641623			
CEI7.10-400V-50/60Hz	004641624			

### Kombinacija minijaturnih sklopnika za reverziranje i preklapanje sa mehaničkom blokadom CEI17.01, 3,5A (AC3)

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEI7.01-24V-50/60Hz	004641610		250	1
CEI7.01-48V-50/60Hz	004641611			
CEI7.01-110V-50/60Hz	004641612			
CEI7.01-230V-50/60Hz	004641613			
CEI7.01-400V-50/60Hz	004641614			

### Ograničavač prenapona

tip	šifra	napon svitka	za upotrebu s	težina [g]	pakiranje [kom]
RCE01	004641701	24-48 VAC	CE07, CEI07	14	1
RCE06	004641702	110-220 VAC	CE07, CEI07	14	1
RCE10	004641703	380-400 VAC	CE07, CEI07	14	1



## Bimetalni zaštitni relej za CE

### Bimetalni zaštitni relej RE17D

tip	šifra	opseg namještaja struje [A]	za upotrebu s	težina [g]	pakiranje [kom]
RE17D-0,4	004641400	0,28-0,4	CE07	150	1
RE17D-0,63	004641401	0,4-0,63			
RE17D-0,8	004641402	0,56-0,8			
RE17D-1,2	004641403	0,8-1,2			
RE17D-1,8	004641404	1,2-1,8			
RE17D-2,8	004641405	1,8-2,8			
RE17D-4,0	004641406	2,8-4,0			
RE17D-6,3	004641407	4-6,3			
RE17D-8,0	004641408	5,6-8			
RE17D-10	004641409	7-10			
RE17D-12,5	004641410	8-12,5			
RE17D-15	004641411	10-15			
RE17D-17	004641412	15-17			



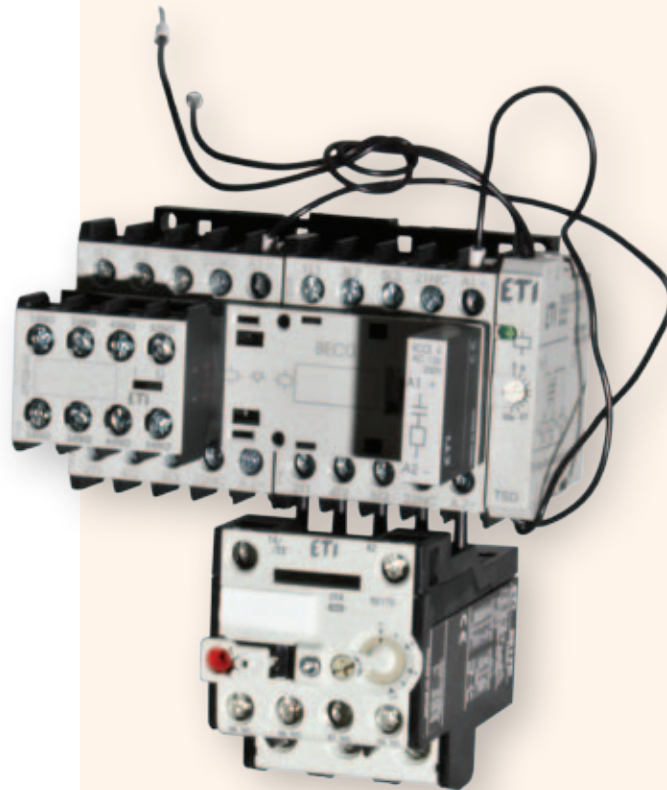
## Minijaturni sklopnik CEC

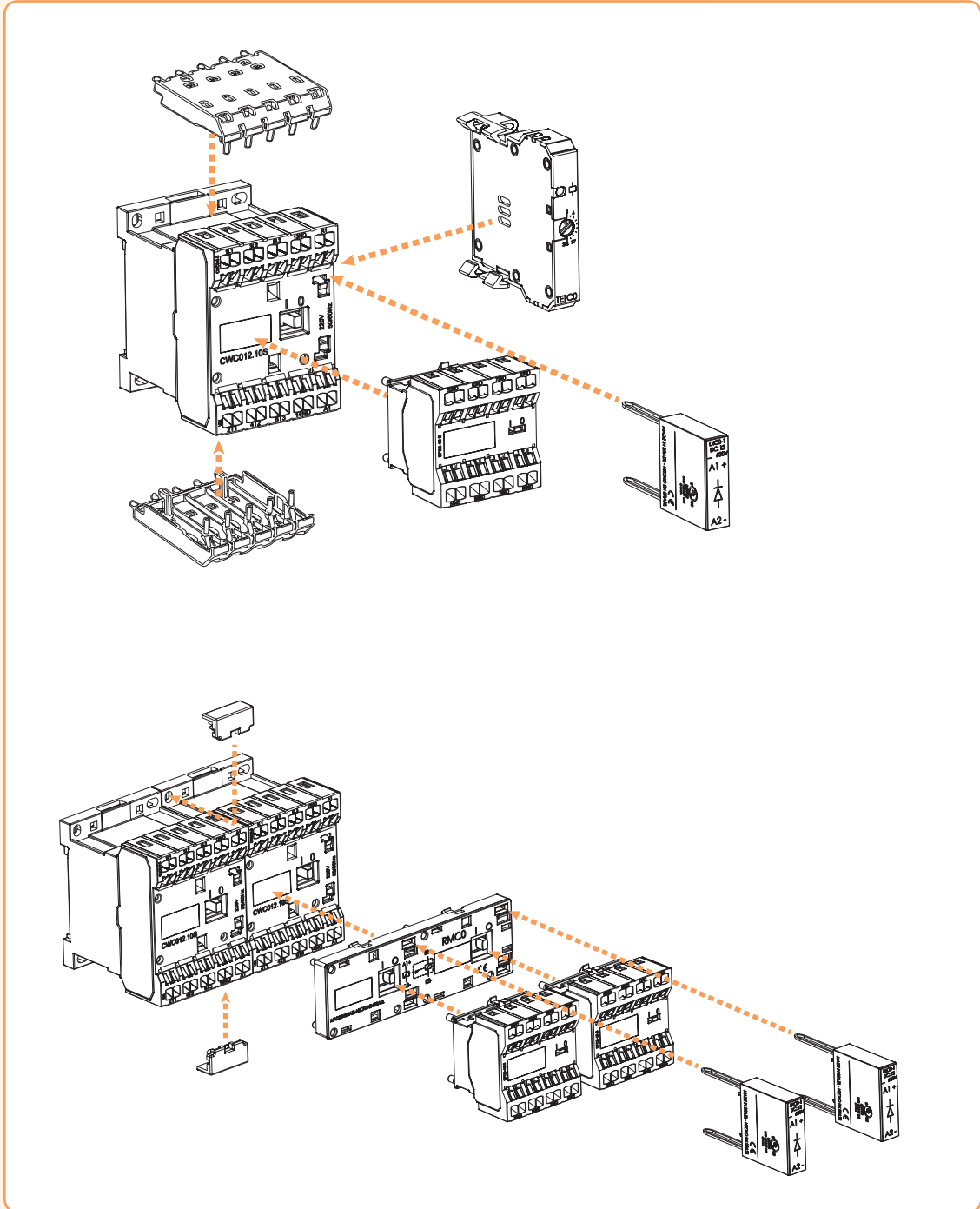
### Upotreba:

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**Minijturni motorski sklopnik CEC07; 18A(AC1); 7A,3kW(AC3 400V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEC07.10-24V-50/60Hz	004641050		180	1
CEC07.10-42V-50/60Hz	004641051			
CEC07.10-48V-50/60Hz	004641052			
CEC07.10-110V-50/60Hz	004641053			
CEC07.10-230V-50/60Hz	004641054			
CEC07.10-400V-50/60Hz	004641055			
CEC07.10-24VDC	004641100			
CEC07.10-48VDC	004641130			
CEC07.10-110VDC	004641131			
CEC07.10-220VDC	004641132			
CEC07.01-24V-50/60Hz	004641056		180	1
CEC07.01-42V-50/60Hz	004641057			
CEC07.01-48V-50/60Hz	004641058			
CEC07.01-110V-50/60Hz	004641059			
CEC07.01-230V-50/60Hz	004641060			
CEC07.01-400V-50/60Hz	004641061			
CEC07.01-24VDC	004641101			
CEC07.01-48VDC	004641133			
CEC07.01-110VDC	004641134			
CEC07.01-220VDC	004641135			



**Minijturni motorski sklopnik CEC09; 20A(AC1); 9A,4kW(AC3, 400V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEC09.10-24V-50/60Hz	004641062		180	1
CEC09.10-42V-50/60Hz	004641063			
CEC09.10-48V-50/60Hz	004641064			
CEC09.10-110V-50/60Hz	004641065			
CEC09.10-230V-50/60Hz	004641066			
CEC09.10-400V-50/60Hz	004641067			
CEC09.10-24VDC	004641102			
CEC09.10-48VDC	004641136			
CEC09.10-110VDC	004641137			
CEC09.10-220VDC	004641138			
CEC09.01-24V-50/60Hz	004641068		180	1
CEC09.01-42V-50/60Hz	004641069			
CEC09.01-48V-50/60Hz	004641070			
CEC09.01-110V-50/60Hz	004641071			
CEC09.01-230V-50/60Hz	004641072			
CEC09.01-400V-50/60Hz	004641073			
CEC09.01-24VDC	004641103			
CEC09.01-48VDC	004641139			
CEC09.01-110VDC	004641140			
CEC09.01-220VDC	004641141			

**Minijaturni motorski sklopnik CEC012; 22A(AC1); 12A,5,5kW(AC3 400V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEC012.10-24V-50/60Hz	004641074		180	1
CEC012.10-42V-50/60Hz	004641075			
CEC012.10-48V-50/60Hz	004641076			
CEC012.10-110V-50/60Hz	004641077			
CEC012.10-230V-50/60Hz	004641078			
CEC012.10-400V-50/60Hz	004641079			
CEC012.10-24VDC	004641104		218	1
CEC012.10-48VDC	004641142			
CEC012.10-110VDC	004641143			
CEC012.10-220VDC	004641144			
CEC012.01-24V-50/60Hz	004641080			
CEC012.01-42V-50/60Hz	004641081			
CEC012.01-48V-50/60Hz	004641082		180	1
CEC012.01-110V-50/60Hz	004641083			
CEC012.01-230V-50/60Hz	004641084			
CEC012.01-400V-50/60Hz	004641085			
CEC012.01-24VDC	004641105			
CEC012.01-48VDC	004641145			
CEC012.01-110VDC	004641146		218	1
CEC012.01-220VDC	004641147			


**Minijaturni motorski sklopnik CEC016; 22A(AC1); 16A,7,5kW(AC3 400V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEC016.10-24V-50/60Hz	004641086		180	1
CEC016.10-42V-50/60Hz	004641087			
CEC016.10-48V-50/60Hz	004641088			
CEC016.10-110V-50/60Hz	004641089			
CEC016.10-230V-50/60Hz	004641090			
CEC016.10-400V-50/60Hz	004641091			
CEC016.10-24VDC	004641106		218	1
CEC016.10-48VDC	004641148			
CEC016.10-110VDC	004641149			
CEC016.10-220VDC	004641150			
CEC016.01-24V-50/60Hz	004641092			
CEC016.01-42V-50/60Hz	004641093			
CEC016.01-48V-50/60Hz	004641094		180	1
CEC016.01-110V-50/60Hz	004641095			
CEC016.01-230V-50/60Hz	004641096			
CEC016.01-400V-50/60Hz	004641097			
CEC016.01-24VDC	004641107			
CEC016.01-48VDC	004641151			
CEC016.01-110VDC	004641152		218	1
CEC016.01-220VDC	004641153			





**Minijaturni pomoćni sklopnik CECA0; 10A (AC15, 230V)**

tip	šifra	shema veza	težina [g]	pakiranje [kom]		
CECA0.22-24V-50/60Hz	004641160		180	1		
CECA0.22-230V-50/60Hz	004642390					
CECA0.31-24V-50/60Hz	004641161					
CECA0.31-230V-50/60Hz	004642391					
CECA0.13-24V-50/60Hz	004641162					
CECA0.13-230V-50/60Hz	004642392					
CECA0.40-24V-50/60Hz	004641163					
CECA0.40-230V-50/60Hz	004642393					
CECA0.04-24V-50/60Hz	004641164				218	1
CECA0.04-230V-50/60Hz	004642394					
CECA0.22-24VDC	004646010					
CECA0.22-220VDC	004641170					
CECA0.31-24VDC	004646011					
CECA0.31-220VDC	004641171					
CECA0.13-24VDC	004646012					
CECA0.13-220VDC	004641172					
CECA0.40-24VDC	004646013					
CECA0.40-220VDC	004641173					
CECA0.04-24VDC	004646014					
CECA0.04-220VDC	004641174					



**Četveropolni minijaturni sklopnik**

tip	šifra	shema veza	težina [g]	pakiranje [kom]
CEC07.4P-230V-50/60Hz	004641200		180	1
CEC09.4P-230V-50/60Hz	004641201			
CEC012.4P-230V-50/60Hz	004641202			
CEC016.4P-230V-50/60Hz	004641203			
CEC07.4P-24VDC	004641210			
CEC09.4P-24VDC	004641211			
CEC012.4P-24VDC	004641212		180	1
CEC016.4P-24VDC	004641213			
CEC07.PR-230V-50/60Hz	004641204			
CEC09.PR-230V-50/60Hz	004641205			
CEC012.PR-230V-50/60Hz	004641206			
CEC016.PR-230V-50/60Hz	004641207			
CEC07.PR-24V-DC	004641214		180	1
CEC09.PR-24V-DC	004641215			
CEC012.PR-24V-DC	004641216			
CEC016.PR-24V-DC	004641217			

**Ograničavač prenapona**

tip	šifra	napon	shema veza	težina [g]	pakiranje [kom]
RCCE-1	004641720	12-24V 50/60Hz		6	1
RCCE-2	004641721	24-48V 50/60Hz			
RCCE-3	004641722	48-127V 50/60Hz			
RCCE-4	004641723	127-250V 50/60Hz			
RCCE-5	004641724	250-380V 50/60Hz			
RCCE-6	004641725	380-510V 50/60Hz			
VRCE-1	004641726	12-48V AC/12-60V DC		6	1
VRCE-2	004641727	50-127V AC/60-180V DC			
VRCE-3	004641728	130-275V AC/180-300V DC			
VRCE-4	004641729	277-380V AC/300-510V DC			
VRCE-5	004641730	400-510V AC			
DICE-1	004641731	12-600V DC		6	1


**Mehanička blokada**

tip	šifra	težina [g]	pakiranje [kom]
BECO	004643603	15	1

For use with CEC


**Modul za povezivanje na štampane ploče**

tip	šifra	težina [g]	pakiranje [kom]
CECO	004642720	126	1

For use with CEC







Primjer upotrebe EFCO i RCCE

Blok pomoćnih kontakata								
tip	šifra	shema veza	za upotrebu sa	težina [g]	pakiranje [kom]			
EFCO-20	004641520		CECO 3 polni	28	1			
EFCO-11	004641521							
EFCO-02	004641522							
EFCO-40	004641523							
EFCO-22	004641524							
EFCO-04	004641525							
EFCO-31	004641526							
EFCO-13	004641527							
EFCA-20	004641530					CECA0	28	1
EFCA-11	004641531							
EFCA-02	004641532							
EFCA-40	004641533							
EFCA-22	004641534							
EFCA-04	004641535							
EFCA-31	004641536							
EFCA-13	004641537							
EFCA-20	004641540		CECO 4 polni	28	1			
EFCA-11	004641541							
EFCA-02	004641542							
EFCA-40	004641543							
EFCA-22	004641544							
EFCA-04	004641545							
EFCA-31	004641546							
EFCA-13	004641547							

**Elektronski vremenski relej**

tip	šifra	vrijeme	napon napajanja	težina [g]	pakiranje [kom]
<b>Kašnjenje kod uklopa</b>					
TOE-3-24-240	004642730	0,3-3 sec	24-240V AC/DC	126	1
TOE-10-24-240	004642731	1-10 sec			
TOE-30-24-240	004642732	3-30 sec			
TOE-60-24-240	004642733	6-60 sec			
TOE-100-24-240	004642734	10-100 sec			
TOE-300-24-240	004642735	30-300 sec			
TOE-1800-24-240	004642736	180-1800 sec			
<b>Kašnjenje kod isklopa</b>					
TOD-3-24-60	004642740	0,3-3 sec	24-60V AC/DC	126	1
TOD-10-24-60	004642741	1-10 sec			
TOD-30-24-60	004642742	3-30 sec			
TOD-60-24-60	004642743	6-60 sec			
TOD-100-24-60	004642744	10-100 sec			
TOD-300-24-60	004642745	30-300 sec			
TOD-1800-24-60	004642746	180-1800 sec			
TOD-3-100-240	004642747	0,3-3 sec	110-240V AC/DC	126	1
TOD-10-100-240	004642748	1-10 sec			
TOD-30-100-240	004642749	3-30 sec			
TOD-60-100-240	004642750	6-60 sec			
TOD-100-100-240	004642751	10-100 sec			
TOD-300-100-240	004642752	30-300 sec			
TOD-1800-100-240	004642753	180-1800 sec			
<b>Zvezda - trougao</b>					
TSD-30-24-28	004642760	3-30 sec	24-48V AC	126	1
TSD-30-110-130	004642761		110-130V AC		
TSD-30-220-240	004642762		220 - 240V AC		

