

Changeover switches

CCFICCPIS5FIS5B

CEC

According to: IEC 60947-3 IEC 61439-2 RoHS

CCF



Testing and approvals:







CEC



units and various accessories.

The changeover switches in the series CCF CCP S5F S5B, are manufactu-red with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a sandwich-type body containing self-cleaning blade type contacts, with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life. The detent mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

Changeover switches with high operating load capacity and a high level

disconnection insulation; high reliability and safety in abnormal situations,

available in different construction models, with a wide range of currents, motorized

The compact models are with visible cutoff and performed internally the common output without the need for external connections.

Functional and ergonomic handle

- > Good grip and excellent torque/
- > Padlockable handle in **O OFF** position
- > Door interlock in ON I ON II position
- > Self-centering shaft for door handle





Neutral pole early make & late break

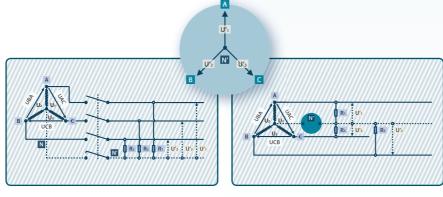


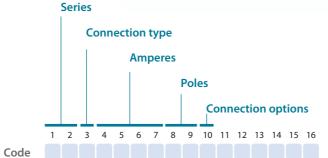
This safety feature prevents accidental overvoltage when making/breaking of loads connected between phase and neutral.

Due to the design in our 3P+N switch - disconnectors and changeover switches, the neutral contact closes before the main phases and opens later, thus ensuring this operation mode.

Range codification:

The CCF |CCP| S5F | S5B series, are identified by a code that describes their most important characteristics as described below.





- resistance
- (up to three locks Ø 5-8 mm)





CTRC

handle.

External or direct







request.

Motorized changeover switch in metallic enclosure.

Outdoor lights position indicators (mains - 0 - generator). Power connections on the bottom for

direct access. Power part protected against acciden-

tal contact. Physical separation between power and control parts.

Including manual handle (for emergency operation or maintenance). Other special combinations under

S₅B



S5F





CCP

CCP

Compact model. Visible cut-off. Common output from the front. Wide range of

CCF

currents. Base mounting by screws.

External or direct handle.

CTR₂

CTR2

enclosure.

Manual changeover switch in metallic

External padlockable handle with

locking door in ON I - ON II positions.

S 5 F

Compact model S 5 L Visible cut-off. Common output Back to back or line from the rear. arrangement. Wide range of Base mounting by currents. screws.

Base mounting by screws.

External or direct handle.

S 5 B

Back to back arrangement Base mounting by

screws. External or direct handle.

CEC

geover switches. Reduced size.

Common output from the up.

Compact efficient chan-

Flexible mounting. Innovative single mechanism for COS

function. Lower energy losses.

External or direct handle.

CTRC





CTRC

Motorized changeover switch in metallic enclosure with automatic transfer switch for the generator control with automated switching Main - Gen management.

Configurable through software programming.

Power part protected against accidental contact.

Including manual handle (for emergency operation or maintenance).

CHANGEOVER SWITCHES | QUICK SELECTION GUIDE





Manual handle

Please indicate in your order the switch code and the handle code,

managed separately. A standard

shaft is included with the handle.

as these both products are



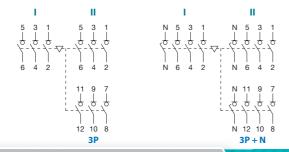








CEC S5F CCF CCP	Cha 3 & 4	ingeo 4 poles	ver s (40 -	witch 3150A)	es (I-O-II) * ⁽²⁾		Manual ha	ndle 들	Sha	ft ext	ensions *(4)			Auxiliary o		ety * ⁽⁷⁾ ck device	Rear protective plate	Bridging links	т	erminal s	shrouds *(8)		Ter	minal shr (1 uni		Phase ba	arrier *(8)	
								//////	///	///	//////	/////	/////			X / / / /		1////	3P			4P	Up	Down	Up or Down	Only cha	angeover nes 🖭	
KIT	Amp	o. Size Co	onnect	ion series	3 pole (3P)	4 pole (3P + N) *(1)	External *(3)	Direct		Ту	/pe 1 & 2		Size	1NO+1NC	2NO+2NC Simple	Double	Code	Code (4 units)	input	common	position cor	mmon – utput	3P	3P	4P	3P	4P	
OLOW DEF		W///		S	Code	Code	Code	Code		L	Code *(e1)			Code	Code Code *(e1	Code *(e1)		(4 units)	Code	Code			Code	Code	Code	Code	Code	
SEE PAGE 192	63		ĕ	CEC	CEC00633PB0	CEC00633NB0																						
	63 80			CEC	CEC00633PS0 CEC00803PB0	CEC00633NS0 CEC00803NB0				250	DS-EP04																	
telergon 8 oggotromso	80	00		CEC	CEC00803PS0	CEC00803NS0	DCELAB1	D5LSI01	7	387	DS-EP05		00	DCEAUB1		-	-	-	-	-	-	-	-	-	-	DCECUB1	DCECUB2	
A COLUMN CONTRACTOR OF COLUMN	100 125		<u></u>	CEC	CEC01003PS0 CEC01253PS0	CEC01003NS0 CEC01253NS0				50,	22 2. 03																	
े के या या	125		<u> </u>	S5F	S5F01253PS0	S5F01253NS0				250	DS-EP04		••••					77777	77.77.	77777			S-CU02		DS-CU04	DS-PB01		
CEC	160 200	0		S5F S5F	S5F01603PS0 S5F02003PS0	S5F01603NS0 S5F02003NS0	D5LLA01	D5LSI01	7	387	DS-EP05		0	DS-AU11	DS-AU12 D5LCBB	D5LCEB1	-	D5LPC03	-	-	-		S-CU02 [S-CU05 [DS-CU04 DS-CU07	DS-PB01 DS-PB04		
	200		◎	CCF	CCF02003PS0	CCF02003NS0							•••••										.5 C005 E	,5 .000	D5 C007	D3 1 D0 1	D5 1 D05	
	200 250		<u></u>	CCP	CCP02003PS0 CCF02503PS0	CCP02003NS0 CCF02503NS0											3P DCCPP11		nosition I									
	250	1		CCP	CCP02503PS0	CCP02503NS0	DCCLA11 DCCLI11	DCCLI11	10 ⊨	10 375	DS-EP14		1	D5I AU01	D5LAU02 D5LCB11	11 D5I CF11			position I DM2CU12	DCCCU11	OCCCU11 DM2CU13 DCCCU1	CCU12	2 -		_			
	315 315		<u></u>	CCF	CCF03153PS0 CCP03153PS0	CCF03153NS0 CCP03153NS0					530	536	536	536	36 DS-EP15	·				4P		position II DM2CU11						
- 5 5 55	400			CCF	CCF04003PS0	CCF04003NS0											DCCPP12											
	400 500		<u></u>	CCP CCF	CCP04003PS0 CCF05003PS0	CCP04003NS0 CCF05003NS0		•••••									L								•••••			
IIIo	_{JT} 500			CCP	CCP05003PS0	CCP05003NS0				245	DS-EP23						3P DCCPP21		position I								İ	
000	630 630		<u></u>	CCF	CCF06303PS0 CCP06303PS0	CCF06303NS0 CCP06303NS0	DCCLA21	DCCLI21	14	345 535	DS-EP23 DS-EP24		2	D5LAU01	D5LAU02 D5LCB2	5LCB21 D5LCF21		_ DM2C	position II	DCCCU21	CU21 DM2CU23 DC	CCU22	-	-	-			
S5F	800			CCF	CCF08003PS0	CCF08003NS0			333	D3-EF24					4P DCCPP22		DM2CU21											
/ <u>O</u>	800 1000		<u></u>	CCP CCF	CCP08003PS0 CCF10003PS0	CCP08003NS0 CCF10003NS0					<u> </u>				ļ		3P		position I						•••••			
	1000) ,		CCP	CCP10003PS0	CCP10003NS0	DCCLA31 DCCLI31	14	345	DS-EP23	DS-EP23	3	D5I AU01	D5LAU02 D5LCB3	DSICB31 DSICE31	DCCPP31	4//_//	DM2CU32	DCCCU31	U31 DM2CU33 DCCCU3	CCU32					_		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1250 1250			CCF CCP	CCF12503PS0 CCP12503PS0	CCF12503NS0 CCP12503NS0			535	535	DS-EP24			552.100.			4P DCCPP32	p Di	position II DM2CU31									
OUT	1600)	@ -	S5F	S5F16003PS0	S5F16003NS0			-																•••••			
	1800 2000		@ 	S5F S5F	S5F18003PS0 S5F20003PD0	S5F18003NS0 S5F20003ND0	D5LLA31	D5LLI32	-	-	-		4	DS-AU11	DS-AU12 D5LCB41	D5LCF41	-	D5LPC42	-	-	DS-CU41 DS	-CU41	-	-	-	-	-	
CCF III	2000)	(4)	S5F	S5F20003PP0	S5F20003NP0							•															
	2500 3150		(4)	S5F S5F	S5F25003PP0 S5F31503PP0	S5F25003NP0 S5F31503NP0	D5LEN51	DS-El61	-	-	-		5	DS-AU11	DS-AU12 D5LCB41	D5LCF41	-	-	-	7-	7.7//	-	7	-	///	-	-	
																		-										





Auxiliary contacts *(6

2NO+2NC

Code

DS-AU12

DS-AU12

DS-AU12

DS-AU12

DS-AU12

1NO+1NC

Code

DS-AU11

DS-AU11

DS-AU11

DS-AU11

DS-AU11

Size

2

3



Safety key lock device *(7)

Double

Code *(e1)

D5LCFB1

D5LCF11

D5LCF21

D5LCF31

D5LCF41

Simple

Code *(e1)

D5LCBB1

D5LCB11

D5LCB21

D5LCB31

D5LCB41



Code

DS-CU01

DS-CU12

-



Up

3P

Code

DS-CU02

DS-CU05

_

-

(2 units)

Only changeove

switches 🖭

Code

DS-CU11

DS-CU21

DS-CU31

DS-CU41



Terminal shrouds *(8) (1 unit)

Up or Down

4P

Code

DS-CU04

DS-CU07

-

Down

3P

Code

DS-CU03

DS-CU06

-

22B	3 & 4 pol	les (12	5 - 2000A) (I -	O-II) *(5)
	Amp.	Size	Connection	3 pole



Amp.	Size	Connection	3 pole (3P)	4 pole (3P + N) *(1)	External *(3)	Direct
	////		Code	Code	Code	Code
125		<u></u>	S5B01253PS0	S5B01253NS0		
160	0	O=	S5B01603PS0	S5B01603NS0	D5LLA01	D5LSI02
200			S5B02003PS0	S5B02003NS0		
250		<u></u>	S5B02503PR0	S5B02503NR0		
315	1	<u></u>	S5B03153PR0	S5B03153NR0	D5LLA11	D5LLI12
400			S5B04003PC0	S5B04003NC0		
500	2	<u></u>	S5B05003PR0	S5B05003NR0	D5LLA21	D5LLI22
630		©¤	S5B06303PR0	S5B06303NR0	DJELAZI	DJLLIZZ
800	3	<u></u>	S5B08003PR0	S5B08003NR0		
1000	ر	o-	S5B10003PC0	S5B10003NC0		
1250		<u></u>	S5B12503PS0	S5B12503NS0	D5LLA31	D5LLI32
1600	4	D	S5B16003PS0	S5B16003NS0	DILLAST	DJLLIJZ
1800	-	2	S5B18003PS0	S5B18003NS0		
2000		(D)-	S5B20003PD0	S5B20003ND0		

- $^{*(1)} \ \ Neutral\ pole\ early\ make-late\ break\ -\ Versions\ 4P\ with\ ''s imultaneous\ contacts''\ are\ also\ available,\ please\ consult.$
- $^{*(2)}$ There are versions of changeover switch without 0 OFF position:
- S5F (I II) = S5D _____, please consult.

 CCF "overlapped" (I I + II II) = CCS ____, please consult.

Bypass changeover switches S5

- *(3) Padlockable handle only in OFF 0 position.
- $^{*(4)}$ A standard shaft is included with the external handle.
- $^{*\text{(5)}}$ There are versions of bypass changeover switch without 0 OFF position "overlapped" :
- **S5B** "overlapped" (I I + II II) = **S5S** _ _ _ _ , please consult.

*(6) To be used as signalling or control contacts - $le = 16A$ (resistive loads) 4A (inductive loads) at 250 Vac.
Whilst closing, it switches after the main contacts. Whilst opening, it switches before the main contacts.

 $^{^{*(7)}}$ Handle interlock in OFF 0 position by means of a key, that only can be removed when the handle is unlocked.

^{*®} One set or one unit for input or output. Terminals shrouds for \$5B and \$5F only for frontal switch. These accessories aren't compatible with each other.

^{*(}e1) All these codes are related to the new handle \bigcirc , in case of replacements for old design handles, please consult.