

Motor contactor CES

ETICON CES SERIES

IEC 60947-4-1

Contact reliability

Contactors are used to remotely control and protect (in combination with overload relays) electric motors and other electric loads with nominal power up to 200kW (at 400V AC3 duty)

Auxiliary contacts

CES 6 to CES 45:

Up to 4 auxiliary contact blocks with 1 NO or 1 NC contact can be snapped onto the basic units (front).

CES 65 to CES 105:

Maximum 4 auxiliary contact blocks with 1 NO + 1 NC contacts (lateral) assembled.

When the contactors are energized, the NC contacts open before the NO contacts close.

CES 65..400 NOT POSSIBLE TO MOUNT ON DIN RAIL



Ordering:

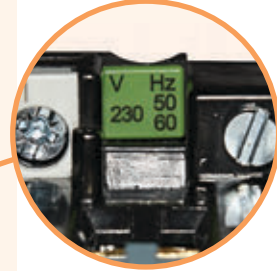
CES 9 . 0 1 - 230V - 50/60Hz  
 1 2 3 4 5 6

- 1 - Contactor type
- 2 - Rated operational current  $I_e$  (AC3)
- 3 - Number and type NO auxiliary contacts
- 4 - Number and type NC auxiliary contacts
- 5 - Coil voltage
- 6 - Frequency

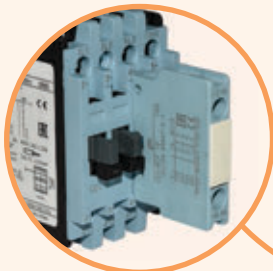
Advantages



→ Terminal clamps allow connection of different cross section cables.



→ Different voltage range of control circuit (coils).



→ Possible to mount auxiliary contacts on top



→ Design allows to mount contactor on DIN rail TH 35 or directly on panel



→ Overload relays (bimetal) tripping class 10



→ Possible to mount overload relay directly on contactor or DIN rail TH 35 with mounting adapter

## Accessories

### Auxiliary contact block - front mounted; 5,6A(230V, AC-15/AC-14), 3,8A(400V, AC-15/AC-14)

Type	Code No.	Description	For use with	Wiring diagram	Weight [g]	Packaging [pcs]
CES-BCF 10	004646574	1 NO	CES 6...CES 45		20	10
CES-BCF 01	004646575	1 NC	CES 6...CES 45		20	10

Up to max. 4 contacts



CES-BCF

### Auxiliary contact block - lateral; 5,6A(230V, AC-15/AC-14), 3,8A(400V, AC-15/AC-14)

Type	Code No.	Description	For use with	Wiring diagram	Weight [g]	Packaging [pcs]
CES-BCSU 11	004646576	1 NO + 1 NC	CES 65...CES 105		52	2
CES-BCSS 11	004646577	1 NO + 1 NC	CES 65...CES 105		42	2

Up to max. 4 contacts, 2 per each side

BCSU - upgrade contact with screws

BCSS - spare part only, no mounting screws

Possible to order only multiples of 2pcs (2, 4, 6, 8...) due to the default packaging system



CES-BCSU 11



CES-BCSS 11

### Mechanical interlock for mechanical locking of contactors

Type	Code No.	For use with	Weight [g]	Packaging [pcs]
CES-MIL 6-45	004646578	CES6...CES45	20	1
CES-MIL 65-300	004646579	CES65...CES300	130	1
CES-MIL 400	004646580	CES400	130	1



CES-MIL 6-45



CES-MIL 65-300

### Surge suppressor

Type	Code No.	Coil voltage	For use with	Weight [g]	Packaging [pcs]
CES-DIC3	004646581	24 - 250 VDC	CES6...CES32	15	1
CES-VR4	004646582	24-48 VAC	CES6...CES45	15	1
CES-VR5	004646583	127-240 VAC	CES6...CES45	15	1
CES-VR6	004646584	240-400 VAC	CES6...CES45	23	1
CES-VR7	004646585	24-48 VAC	CES65...CES400	14	1
CES-VR8	004646586	127-240 VAC	CES65...CES400	15	1

Already integrated in CES140...CES400



CES-DIC3

Auxiliary contacts for CES contactors Technical Data						
Type		CES 6 ... CES 32 <sup>1)</sup>	CES 6 ... CES 18 <sup>2)</sup>	CES 40, CES 45 <sup>1)</sup>	CES 65 ... CES 400	
<b>Rated insulation voltage <math>U_i</math></b> (pollution degree 3)	V	690	690	690	1000	
<b>Conventional free-air thermal current</b> $I_{th} = \text{rated operational current } I_e$	A	10	10	10	10	
<b>AC duty</b> <b>Rated operational current</b> $I_e / \text{AC-15/AC-14}$ at rated operational voltage $U_e$	24 V	A	6	10	10	10
	110 V	A	6	10	10	10
	125 V	A	6	10	10	10
	220 V	A	6	10	6	6
	230 V	A	5,6	9,6	5,6	5,6
	380 V	A	4	6	4	4
	400 V	A	3,8	5,5	3,6	3,6
	500 V	A	2,5	4	2,5	2,5
	660 V	A	2	2	2,5	2,5
<b>DC duty</b> <b>Rated operational current <math>I_e / \text{DC-12}</math></b> at rated operational voltage $U_e$	24 V	A	10	10	--	--
	48 V	A	10	10	--	--
	110 V	A	5,5	2,1	--	--
	125 V	A	--	--	--	--
	220 V	A	1,2	0,8	--	--
	440 V	A	0,28	0,6	--	--
	600 V	A	0,14	0,6	--	--
<b>Rated operational current <math>I_e / \text{DC-13}</math></b> at rated operational voltage $U_e$	24 V	A	10	10	--	--
	48 V	A	4,6	5	--	--
	110 V	A	0,8	0,9	--	--
	125 V	A	--	--	--	--
	220 V	A	0,3	0,45	--	--
	440 V	A	0,11	0,25	--	--
600 V	A	0,08	0,2	--	--	

<sup>1)</sup> Mountable auxiliary contact blocks.

<sup>2)</sup> Integrated auxiliary contacts.