



TECNOMATIC CORP.



**Contactors and Thermal Overloads
Relays / Sockets • Cam switches
Control units ø 22 • Terminal blocks**



TECNOMATIC CORP.

130 LENOX AVE. UNIT 6 STAMFORD CT 06906 - PHONE 203-359-9036 - FAX 203-9679026
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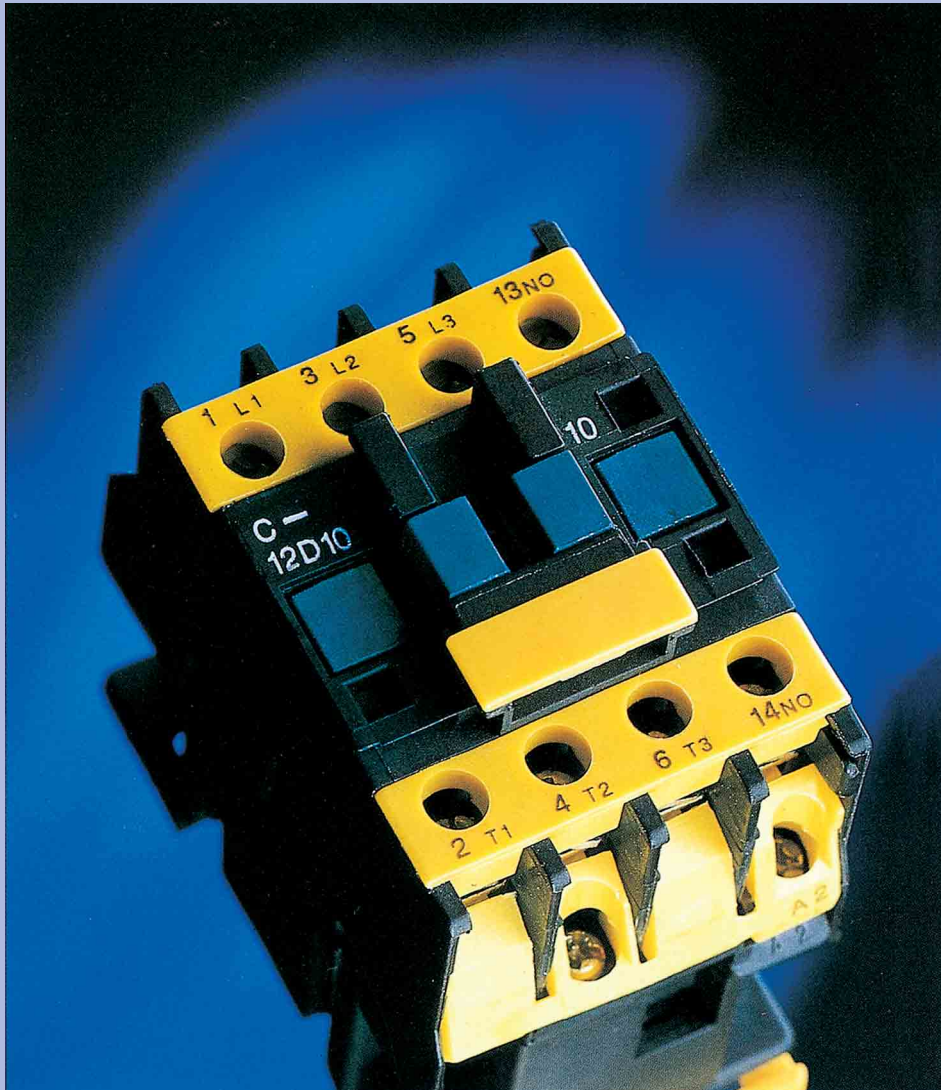
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Contactors and Thermal Overloads



THREE POLE CONTACTORS



TYPE NO.	C-09D10 C-09D01	C-12D10 C-12D01	C-18D10 C-18D01	C-25D10 C-25D01	C-32D10 C-32D01	C-40D11 3 Power Contacts	C-50D11 3 Power Contacts	C-65D11 3 Power Contacts	C-80D11 3 Power Contacts	C-95D11 3 Power Contacts
Nema size:	00	0		1		2	2		3	3
Rated insulation voltage (V)	660	660	660	660	660	660	660	660	660	660
Rated thermal current ITH (A)	25	25	32	40	50	60	80	80	125	125
Rated current for AC3 duty up to U ₄₄₀ (A)	9	12	18	25	35	45	60	70	80	90
Maximum power rating in category AC3										
a/at 220V KW (HP)	2.2 (3)	3.0 (4)	4.0 (5.5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	26 (35)
a/at 380V KW (HP)	4.0 (5.5)	5.5 (7.5)	7.5 (10)	11 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	37 (50)	40 (55)
a/at 415V KW (HP)	4.0 (5.5)	5.5 (7.5)	9.0 (12.5)	11 (15)	15 (20)	20 (30)	25 (35)	33 (45)	45 (60)	47 (65)
a/at 440V KW (HP)	4.0 (5.5)	5.5 (7.5)	9.0 (12.5)	11 (15)	15 (20)	20 (30)	25 (35)	33 (45)	45 (60)	47 (65)
a/at 500V KW (HP)	5.5 (7.5)	7.5 (10)	10 (15)	15 (20)	18.5 (25)	22 (30)	30 (40)	37 (50)	55 (75)	58 (80)
Auxiliary contacts	1 NO 1 NC	1 NO 1 NC	1 NO 1 NC	1 NO 1 NC	1 NO 1 NC	1 NO + 1 NC	1 NO + 1 NC	1 NO + 1 NC	1 NO + 1 NC	1 NO + 1 NC

CONTROL CIRCUIT CHARACTERISTICS

TYPE NO.	C-09D10 C-09D01	C-12D10 C-12D01	C-18D10 C-18D01	C-25D10 C-25D01	C-32D10 C-32D01	C-40D11 3 Power Contacts	C-50D11 3 Power Contacts	C-65D11 3 Power Contacts	C-80D11 3 Power Contacts	C-95D11 3 Power Contacts
Operation voltage										
V pick up (%)	80	75	75	75	75	80	80	80	80	80
V drop out (%)	55	55	55	55	60	60	60	60	60	60
Average consumption AC supply										
Inrush (VA)	70	70	80	100	110	200	200	200	200	200
Sealed (VA)	8	8	8	11	11	20	20	20	20	20
Loss (W)	4	4	4	4.5	4.5	6	6	6	6	6
Average operating time at nominal voltage U _n										
Closing M. sec.	11-21	11-21	11-21	15-24	15-24	20-26	20-26	20-26	20-26	20-26
Opening M. sec.	4-12	4-12	4-12	5-19	5-19	8-12	8-12	8-12	8-12	8-12
Mechanical	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶	10 x 10 ⁶
Electric life	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶	1 x 10 ⁶
Maximum frequency ops/h.	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
Auxiliary contacts										
Rated voltage (V)	660	660	660	660	660	660	660	660	660	660
Thermal current (A)	10	10	10	10	10	10	10	10	10	10

THREE-POLE THERMAL OVERLOAD RELAYS AUTOMATIC OR MANUAL SETTING



TYPE	SETTING RANGE	CONTROL POWER (KW)					FOR CONTACTOR
TRDT-09	0.6 ~ 1					0.55	C-09 to C-32
TRDT-09	1 ~ 1.6		0.37		0.55	0.7 ~ 1.1	C-09 to C-32
TRDT-09	1.6 ~ 2.5	0.37	0.55 ~ 0.75	1.1	0.7 ~ 1.1	1.5	C-09 to C-32
TRDT-09	2.5 ~ 4	0.55 ~ 0.75	1.1 ~ 1.5	1.5	1.5	2.2 ~ 3	C-09 to C-32
TRDT-09	4 ~ 6	1.1	2.2	2.2	2.2	4	C-09 to C-32
TRDT-09	5.5 ~ 8	1.5	3	3 ~ 3.7	3 ~ 3.7	5.5	C-09 to C-32
TRDT-09	7 ~ 10	2.2	4	4	4	7.5	C-09 to C-32
TRDT-12	10 ~ 13	3	5.5	5.5	5.5	10	C-09 to C-32
TRDT-16	13 ~ 18	4	7.5	9	9	15	C-09 to C-32
TRDT-25	18 ~ 25	5.5	11	11	11	18.5	C-09 to C-32
TRDT-40	23 ~ 32	7.5	15	15	15	22	C40, C50, C65
TRDT-40	30 ~ 40	10	18.5	22	22	30	C40, C50, C65
*TRD-63	38 ~ 50	11	22	25	25	37	C40, C50, C65
*TRD-63/1	48 ~ 57	15	25	30	30	45	C40, C50, C65
*TRD-63/2	57 ~ 66	18.5	30	37	37	55	C40, C50, C65
*TRD-80	63 ~ 80	22	33 ~ 37	40 ~ 45	40 ~ 45	59 ~ 63	C80-C95

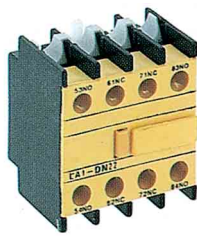
*Available only with manual setting

ACCESSORIES

AUX CONTACT BLOCKS

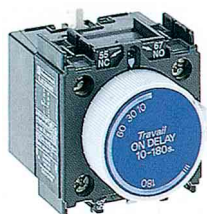


CA1-D11
CA1-D20



CA1-D22
CA1-D40

TYPE NO.	CONTACTS	TYPE NO.	CONTACTS
CA1-D11	1NO + 1NC	CA1-D13	1NO + 3NC
CA1-D20	2NO	CA1-D31	3NO + 1NC
CA1-D02	2NC	CA1-D40	4NO
CA1-D22	2NO + 2NC	CA1-D04	4NC

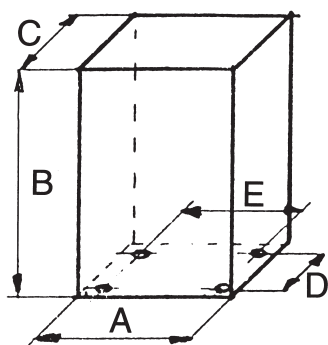


PNEUMATIC TIME BLOCK

CA2-D2X
CA3-D2X

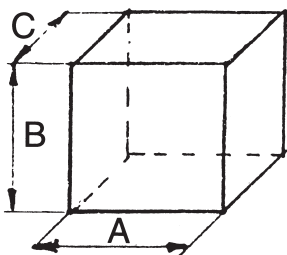
TYPE NO.	ON DELAY	TYPE NO.	OFF DELAY
CA2-D20	0.1 - 3 SEC.	CA3-D20	0.1 - 2 SEC.
CA2-D22	0.1 - 30 SEC.	CA3-D22	0.1 - 30 SEC.
CA2-D24	10 - 180 SEC.	CA3-D24	10 - 180 SEC.

CONTACTORS-OVERALL DIMENSIONS AND DRILLING TEMPLATES



TYPE - DIMENSION	A	B	C	D	E
C - 09D	44	79	71	48 : 60	34
C - 12D	44	79	71	48 : 60	34
C - 18D	45	84	71	48 : 60	34
C - 25D	56	94	81	48 : 60	40
C - 32D	56	99	81	48 : 60	40
C - 40D	75	112	126	100 : 110	40
C - 50D	75	112	126	100 : 110	40
C - 65D	75	112	126	100 : 110	40
C - 80D	85	121	126	100 : 110	40
C - 95D	85	121	126	100 : 110	40

ACCESSORIES - OVERALL DIMENSIONS

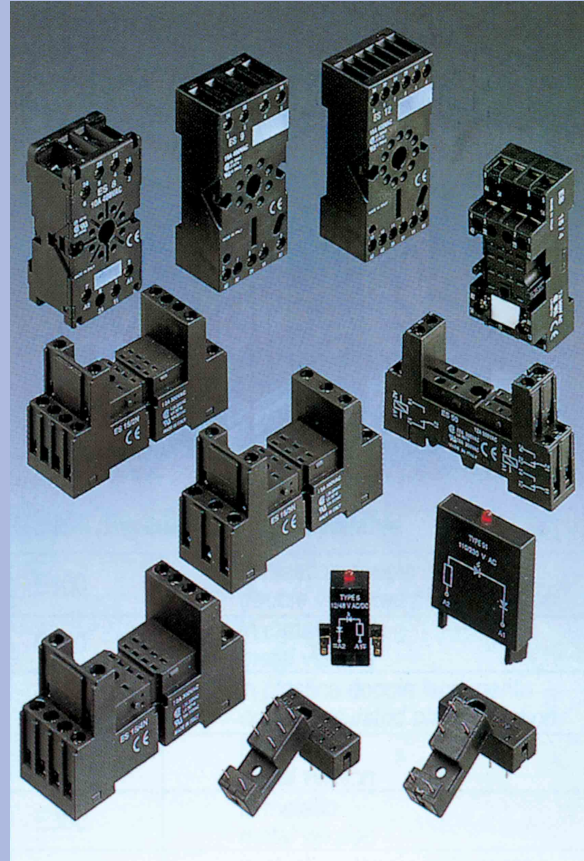


TYPE - DIMENSION	A	B	C
CA1 - D11 : D02	24,5	33	47
CA1 - D22 : D04	44	33	47

COILS

CL - 01	COIL FOR CONTACTOR C 09-D / C 12-D / C 18-D
CL - 02	COIL FOR CONTACTOR C 25-D / C 32-D
CL - 03	COIL FOR CONTACTOR C 40-D / C 50-D / C 65-D / C 80-D / C 95-D
DC COIL AVAILABLE UPON REQUEST	

Relays / Sockets



INDUSTRIAL RELAYS

Series C

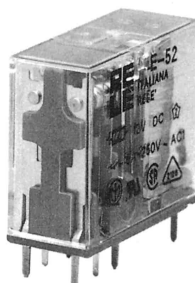


TYPE:		C1	C4
CONTACTS	Number of poles	1-2-3	2-3
	Contact configuration	CO	CO
	Power rating AC 1	2500 VA	2500 VA
	Rated current	10 A	10 A
	Max instantaneous current	20 A	20 A
	Rated voltage	250 V AC	250 V AC
	Max switched voltage	400 V AC	400 V AC
	Standard material	Ag-Ni	Ag-Ni
COIL	Voltage range { AC DC	6-12-24-48-115-230 V 6-12-24-48-60-110 V	
	Power consumption { AC DC	2,2 VA 1,3 W	2,4 VA 1,4 W
	Operating range	- 20 ÷ +10% Vn	- 20 ÷ +10% Vn
CHARACTERISTICS	Enclosure classification	IP 40	IP 40
	Dimensions (mm)	35,5 x 35,5 x 42 h	35 x 31 x 54 h
	Connections	0.187 FASTON or printed circuit	8/11 PIN
	Mounting details	plug-in, push-on or direct to PCB	plug-in to socket
	Life expectancy-mechanical	10 ⁷ operations	2 · 10 ⁷ ops.
	Life expectancy-electrical	2 · 10 ⁶ operations	3 · 10 ⁶ ops.
	Switching frequency (ops/hr) { at no load at rated load	30000 1800	30000 1800
	Proof voltage { coil-contacts adjacent contacts open contacts	2000 V 2000 V 1500 V	2000 V 2000 V 1000 V
	Insulation group	1° Gr. C 250	1° Gr. C 250
	Temperature range	- 10 ÷ +55 °C	- 10 ÷ +60 °C
Options available		Fixing bracket	
APPROVALS (depending upon types)		CE RU cRU	CE (M) RU SP

Series D

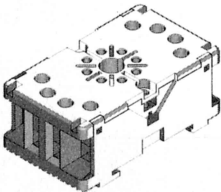
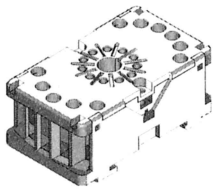
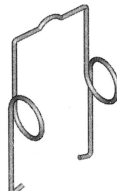


Series E

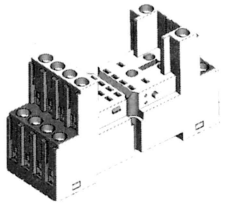
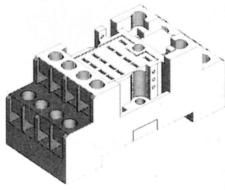


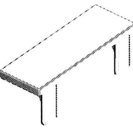
D2	D4	E31 - E51	E52	E61
2	4	1	2	1
CO	CO	CO	CO	CO
2500 VA	1250 VA	2500 VA	1250 VA	4000 VA
10 A	5 A	10 A	5 A	16 A
20 A	10 A	15 A	7 A	25 A
250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
400 V AC	400 V AC	400 V AC	400 V AC	400 V AC
Ag-CdO	Ag-Ni	Ag-CdO	Ag-CdO	Ag-CdO
6-12-24-48-110-230 V 6-12-24-48-60-110 V	6-12-24-48-110-230 V 6-12-24-48-60-110 V			
1,5 VA 0,9 W	1,6 VA 0,65 W			
- 20 ÷ +10% Vn	AC= - 20 ÷ +10% Vn DC= - 15 ÷ +35% Vn			
IP 40	IP 40			
21,1 x 27,5 x 32,9 h	12,5 x 29,4 x 25,2 h			
solder lugs (PLUG-IN) or printed circuit	printed circuit			
plug-in or direct to printed circuit board	direct to printed circuit board or via socket			
10 ⁷ operations	5 · 10 ⁷ operations			
10 ⁵ operations	3 · 10 ⁵ operations			
18000 1200	18000 3600			
2000 V 2000 V 1000 V	5000 V 4000 V 1000 V			
1° Gr. B 250	1° Gr. C 250			
- 25 ÷ +55 °C	- 40 ÷ +70			
Flange mounting - LED indicator Protection Diode - Grounding Bolt	NO contacts - IP67 sealed type			
CE M RU SP	CE M RU SP			

RELAY SOCKETS WITH SCREW TERMINALS for relays with 8-11 pins

Description				Color	Types	Weight Kg.
	8 pole	10A	400V	Black	ES 8	0,630
10 pcs per carton						
	11 pole	10A	400V	Black	ES 11	0,650
10 pcs per carton						
Accessories						
	Writing plate for ES8 ES11 (100 pcs per carton) Thermoplastic material			White	T	0,15
	Spring for relay securing (100 pcs per carton) X CR NI Steel for "C" type relay					
10 pcs per carton						

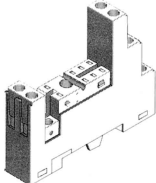
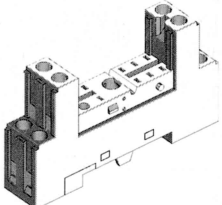
RELAY SOCKETS WITH SCREW TERMINALS for miniature relays with 4-3-2 pole

	Description			Color	Types	Weight Kg.
	4 pole	12A	300V	Black	ES 15/4N	0,665
	3 pole	12A	300V	Black	ES 15/3N	0,620
	2 pole	12A	300V	Black	ES 15/2N	0,550
	4 pole	10A	300V	Black	ES 15/4	0,520
10 pcs per carton						

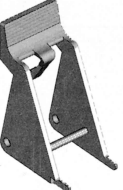
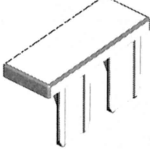
Accessories				
	Description	Color	Types	Weight Kg.
	Spring for relay securing and releasing for ES15/4-3-2/N - ES15/4 Thermoplastic material	Black	MS35	0,040
	Plate for ES15/4/3/2N	White	TR1	0,005
	Spring for relay securing X CR NI Steel for "D" type relay		MH0	0,005

10 pcs per carton

RELAY SOCKETS WITH SCREW TERMINALS for PCB relays

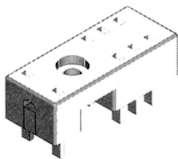
	Description	Color	Types	Weight Kg.
	2 pole "Safety" isolation among coil contacts and contact-contacts Pinning 3,5 mm.	Black	ES 50/3	0,940
	2 pole Pinning 5 mm.	Black	ES 50	0,720
	1 pole Pinning 3,5 mm.	Black	ES 35	0,720
	1 pole Pinning 3,2 mm.	Black	ES 32	0,720
	1 pole Pinning 2,5 mm.	Black	ES 25	0,720

20 pcs per carton

Accessories				
	Spring for relay securing and releasing Thermoplastic material	h = relay height 12 mm. h = relay height 15-16,5 mm. h = relay height 25-25,5 mm.	Black Black Black	MS12 MS16 MS25
	Plate	White	TR	0,010

20 pcs per carton

RELAY SOCKETS WITH SCREW TERMINALS for PCB relays

	Description			Color	Types	Weight Kg.
	2 pole Relay pinning 5 mm.	12A	300V	Black	EC50	0,395
	1 pole Relay pinning 3,5 mm.	12A	300V	Black	EC35	0,355
	1 pole Relay pinning 3,2 mm.	12A	300V	Black	EC32	0,355
	1 pole Relay pinning 5 mm.	12A	300V	Black	EC5	0,365
	1 pole Relay pinning 2,5 mm.	12A	300V	Black	EC25	0,355

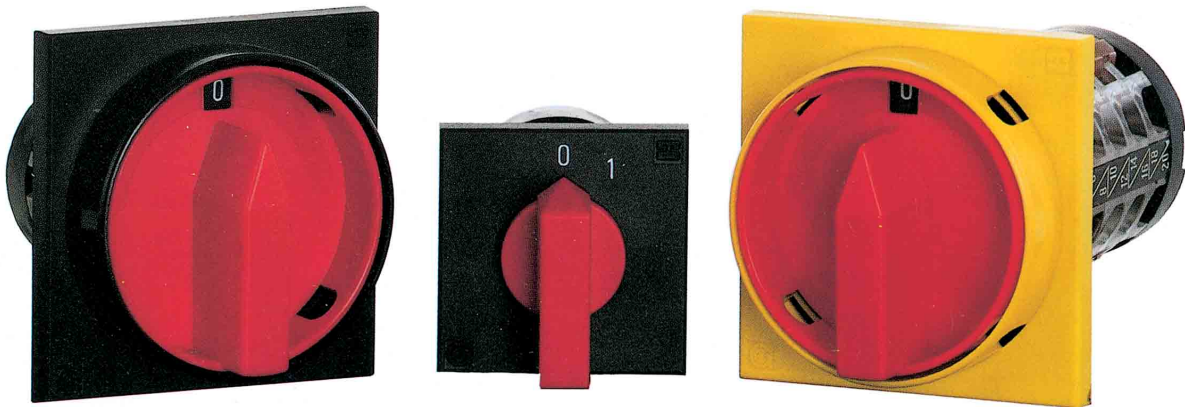
100 pcs per carton

Accessories

	Spring for relay securing Thermoplastic material	h = relay height 12 mm.	Black	MP12-2	
		h = relay height 15-16,5 mm.	Black	MP16-2	
		h = relay height 25-25,5 mm.	Black	MP25-2	
	Spring for relay securing X CR NI steel	h = relay height 12 mm.		MH12-2	
		h = relay height 15-16,5 mm.		MH16-2	
		h = relay height 25-25,5 mm.		MH25-2	

100 pcs per carton

Cam Switches



APPROVALS

UL - CUL - SEMKO



SPECIFICATIONS

All switches are made according to standards CEI 23-11, CEI 17-11, CEE 24, IEC 408, VDE 0660T107.

TECHNICAL SPECIFICATIONS

Release angle: 30° - 45° - 60° - 90°
 Contact material: welded contacts AG/Ni
 Insulation material: polycarbonate
 Screws: galvanized steel; on request stainless steel
 Insulation voltage: 660 V
 Mechanical life: 1.500.000 ops.
 Allowable ambient temperature: -20 ÷ +60 °C
 Climate stability: according to IEC 68-1
 Protection degree: IP 40

MAIN CHARACTERISTICS

- 1 - All contacts/terminals are touch-safe.
- 2 - No ground terminal needed. All moving parts are completely insulated.
- 3 - Easily adaptable to any electrical wiring diagram.
- 4 - Completely interchangeable with the most common brands on the market.

TECHNICAL SPECIFICATIONS

Model	Thermic rated current I_{th2} A	Insulation rated voltage U_i V	AC1 3x380V KW	AC2 3x380V $\frac{KW}{HP}$	AC3 3x380V $\frac{KW}{HP}$	AC4 3x380V $\frac{KW}{HP}$
HD 12	12	660	7,5	$\frac{4}{5,5}$	$\frac{3,5}{4,5}$	$\frac{2,5}{3,5}$
HD 16	16	660	10	$\frac{7,5}{10}$	$\frac{6,5}{8,5}$	$\frac{4,5}{6,5}$
HD 20	20	660	12,5	$\frac{9}{12}$	$\frac{7,5}{10}$	$\frac{5,5}{7,5}$
HF 25	25	660	17	$\frac{12}{16}$	$\frac{9,5}{13}$	$\frac{7}{9,5}$
HF 32	32	660	20	$\frac{17}{23}$	$\frac{14}{19}$	$\frac{10}{14}$
HF 40	40	660				
HF 63	63	660				

Control motor and threephase load switches

MAIN SWITCH

According to DIN 57113/VDE 0113, each control panel must have a main switch to disconnect every electric input during cleaning, maintenance and repair works. The standard specifies the following features, fully satisfied by our HD-HF cam switch:

- the switch must be hand-operated from outside;
- the switch presents 2 fixed positions "OFF" and "ON", indicated as "O" and "1";
- to prevents accidents, power terminals are protected;
- safety device: in position "OFF"/"O" with maximum 4 padlocks.

AC2 CATEGORY

Corresponds to use where connection current is max 2,5 le while disconnected current is equal to le.
 Ex.: star-delta motor starting, slipping motor starting, resistive load feeding.

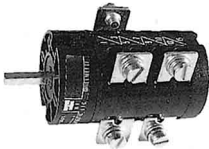
AC3 CATEGORY

Corresponds to use where connection current is equal to 6 le while disconnected current is equal to le.
 Ex.: cage-motor starting, light circuits with incandescent lamps.

AC4 CATEGORY

Corresponds to use where connection current and disconnected current is equal to le.
 Ex.: reverse current starting and braking, cage motor pulse transitions.

TYPES

HD 12A, 16A, 20A	HF 25A, 32A	HF 40A, 63A	MECHANICAL INTERLOCK	
				

PLATES

						
Ø 1.96" = R 811 Ø 2.36" = R 911	2.05" x 2.05" = F 111 2.99" x 2.99" = F 221	2.99 x 2.99" F341	2.99 x 2.99" F3A21	Ø 2.67 R641	Ø 2.67 R6A21	Base for mechanical interlock

FINISHING DEVICES

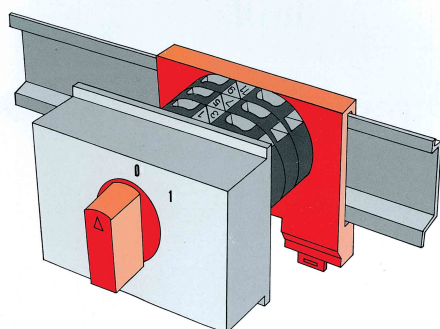
MOUNTING	1st number PLATE		2nd number HANDLE	3rd number FINISHING
F Panel mounting or flush mounting R Flush mounting T Flush mounting with mechanical interlock	0 Without plate 1 Black plate 2.05x2.05 1 ^a Grey plate 2.05x2.05 2 Black plate 2.99x2.99 2 ^a Grey plate 2.99x2.99 3 Yellow plate for 4 padlocks 2.99x2.99 3 ^a Yellow protected plate 2.99x2.99 4 Black plate for 4 padlocks 2.99x2.99 5 Black protected plate 2.99x2.99 6 Yellow plastic ring for 4 padlocks Ø 2.67 6 ^a Yellow protected plastic ring Ø 2.67	7 Black protected plastic ring Ø 2.67 7 ^a Black plastic ring for 4 padlocks Ø 2.67 8 Alum. or plastic plate Ø 1.96 9 Alum. or plastic plate Ø 2.36 10 Grey plate for 4 padlocks 2.99x2.99 11 Grey protected plate 2.99x2.99 12 Grey plastic ring for 4 padlocks Ø 2.67 13 Grey protected plastic ring Ø 2.67	0 Without handle 1 Handle Ø 1.02 2 Handle Ø 1.33 3 Turning button 4 Handle for 4 padlocks 5 Protected handle	0 Without finishing 1 Red handle/button 2 Black handle/button 3 Grey handle/button

DESCRIPTION

	HD 12		HD 16		HD 20		HF 25		HF 32		HF 40		HF 63	
	12A/660V ~		16A/660V ~		20A/660V ~		25A/660V ~		32A/660V ~		40A/660V ~		63A/660V ~	
	order number	elem. no	order number	elem. no	order number	elem. no	order number	elem. no	order number	elem. no	order number	elem. no	order number	elem. no
SWITCHES 1/pole 2/pole 3/pole 4/pole CHANGE-OVER SWITCHES (conn. entry) 1/pole 2/pole 3/pole 4/pole CHANGE-OVER SWITCHES (sep. entry) 1/pole 2/pole 3/pole 4/pole 3 P. REVERSING POLES COMMUT. COMMUT. Δ POLES COMMUT. REVERSING STAR-DELTA REVERSING Δ VOLTMETER phase-neutral phase-phase ph-ph + ph-neutr. AMMETER 1p. for 3 C.T. 2p. for 3 C.T.	HD 1201	1	HD 1601	1	HD 2001	1	HF 2501	1	HF 3201	1	HF 4001	2	HF 6301	2
	HD 1202	1	HD 1602	1	HD 2002	1	HF 2502	1	HF 3202	1	HF 4002	2	HF 6302	2
	HD 1203	2	HD 1603	2	HD 2003	2	HF 2503	2	HF 3203	2	HF 4003	4	HF 6303	4
	HD 1204	2	HD 1604	2	HD 2004	2	HF 2504	2	HF 3204	2	HF 4004	4	HF 6304	4
	HD 1205	1	HD 1605	1	HD 2005	1	HF 2505	1	HF 3205	1	HF 4005	2	HF 6305	2
	HD 1206	2	HD 1606	2	HD 2006	2	HF 2506	2	HF 3206	2	HF 4006	4	HF 6306	4
	HD 1207	3	HD 1607	3	HD 2007	3	HF 2507	3	HF 3207	3	HF 4007	6	HF 6307	6
	HD 1240	4	HD 1640	4	HD 2040	4	HF 2540	4	HF 3240	4	HF 4040	8	HF 6340	8
	HD 1241	1	HD 1641	1	HD 2041	1	HF 2541	1	HF 3241	1				
	HD 1242	2	HD 1642	2	HD 2042	2	HF 2542	2	HF 3242	2				
	HD 1243	2	HD 1643	3	HD 2043	3	HF 2543	3	HF 3243	3				
	HD 1244	4	HD 1644	4	HD 2044	4	HF 2544	4	HF 3244	4				
	HD 1208	3	HD 1608	3	HD 2008	3	HF 2508	3	HF 3208	3				
	HD 1209	4	HD 1609	4	HD 2009	4	HF 2509	4	HF 3209	4				
	HD 1210	4	HD 1610	4	HD 2010	4	HF 2510	4	HF 3210	4				
	HD 1211	6	HD 1611	6	HD 2011	6	HF 2511	6	HF 3211	6				
	HD 1212	5	HD 1612	5	HD 2012	5	HF 2512	5	HF 3212	5				
	HD 1215	2												
	HD 1216	2												
	HD 1218	3												
	HD 1222	3												
	HD 1225	5												

MOTOR SWITCHES ALSO AVAILABLE: Single Phase + Aux. Phase, Single Phase with capacitor, etc.

CAM SWITCHES ON DIN RAIL - TECHNICAL SPECIFICATIONS



Control motor and threephase load switches

Model	Thermic rated current I_{th2}	Insulation rated voltage U_i	AC 1 AC 21B 3x380V	AC 2 AC 22B 3x380V	AC 3 AC 23B 3x380V
	A	V	KW	$\frac{KW}{HP}$	$\frac{KW}{HP}$
HD 12	12	660	7,5	$\frac{4}{5,5}$	$\frac{3,5}{4,5}$
HD 16	16	660	10	$\frac{7,5}{10}$	$\frac{5}{6,7}$

DEVICE CONTACTOR

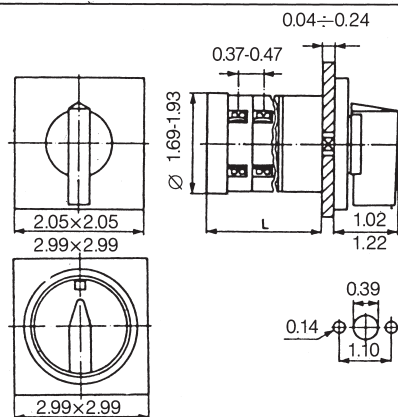
DEVICE WITH CONTACTOR



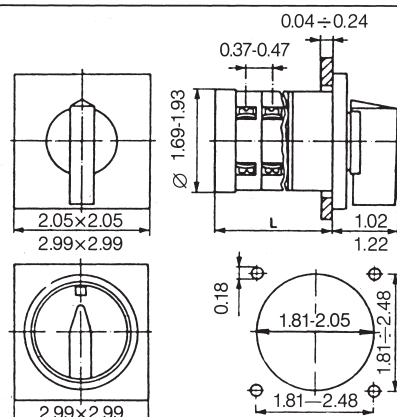
Dimensions: on request

OVERALL DIMENSIONS AND DRILLING TEMPLATES

VERSION "F"
Flush mounting

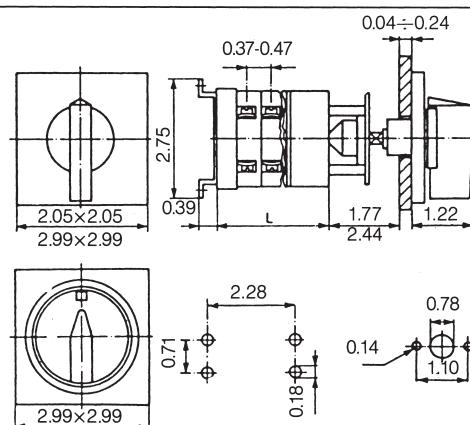


VERSION "F"
Panel mounting



TYPE	ELEMENTS	CONTACTS	SIZE L
HD	1	1-2	1.51
HD 25/32	1		1.69
HD 40/63	2		2.16
HD	2	3-4	1.88
HD 25/32	2		2.16
HD 40/63	4		3.11
HD	3	5-6	2.26
HD 25/32	3		2.63
HD 40/63	6		4.05
HD	4	7-8	2.63
HF 25/32	4		3.11
HF 40/63	8		5.00

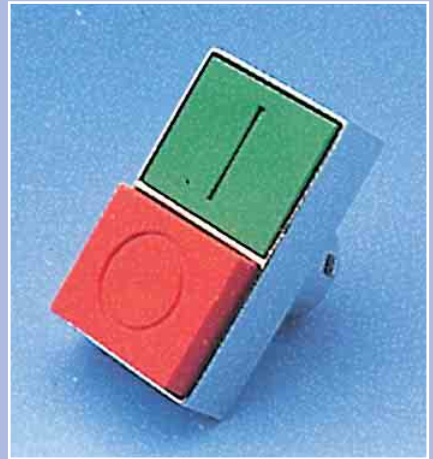
VERSION "T"
Flush mounting with
mechanical interlock

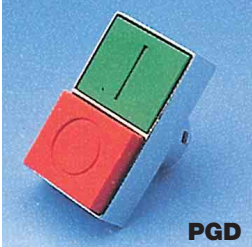


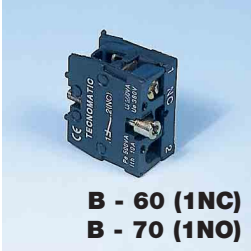
ACCESSORIES

	Contact protections HD and HF		Little handle
	Contact protection HF 40/63		Big handle
	Rigid plastic protection		Handle for 4 padlocks
	Flexible plastic protection		Rubber strip for protection degree IP 54 (dimensions on request)

Control units Ø 22



TYPE	COLOUR	DESCRIPTION
 PGR	G10 red G20 green G30 yellow G40 blue G50 white G60 black	METAL RING PROTECTED PUSHBUTTON
 PGFB	red	MUSHROOM PUSHBUTTON WITH LOCK
 PGF	red	MUSHROOM PUSHBUTTON
 PGL	G10 red G20 green G30 yellow G40 blue G50 white G70 incoloured	ILLUMINATED PUSHBUTTON
 PGD		DOUBLE PUSHBUTTON (EXTENDED RED BUTTON)
 SG		SHORT HANDLE SELECTOR SWITCH
 SGL		LONG HANDLE SELECTOR SWITCH

TYPE	COLOUR	DESCRIPTION
 SC		KEY SELECTOR SWITCH
 GH		METAL SUPPORT BASE
 B - 60 (1NC) B - 70 (1NO)		CONTACT BLOCK
 LO	LO-10 red LO-20 green LO-30 yellow LO-40 blue	Pilot lights direct supply, max voltage 220 VAC (Bulb type BA9S)

TECHNICAL DATA

- Resin body and ring ø 22
- Protection degree: IP 40
- Terminal screw/Faston 6,3 x 0,8
- Heat rating: 10 A
- Mechanical life: 1.000.000
- Conforming IEC 529

BULBS TYPE BA9S

Ø 9 mm x 28 mm

available: incandescent, fluorescent, neon, led at 12 VAC, 24 VAC, 48 VAC, 110 VAC, 220 VAC

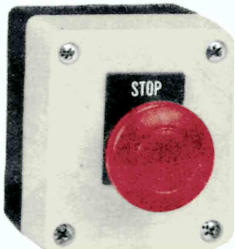
SPECIFICATION	USED WITH LENS COLOUR	PART #
INCANDESCENT	ANY	LIN + VOLTAGE
NEON	RED - YELLOW - WHITE	LNK + VOLTAGE
FLUORESCENT	GREEN - BLUE	LFV + VOLTAGE
LED	ANY	LDO15F + VOLTAGE

CONTROL STATION - Ø22 Enclosures Without Control Units

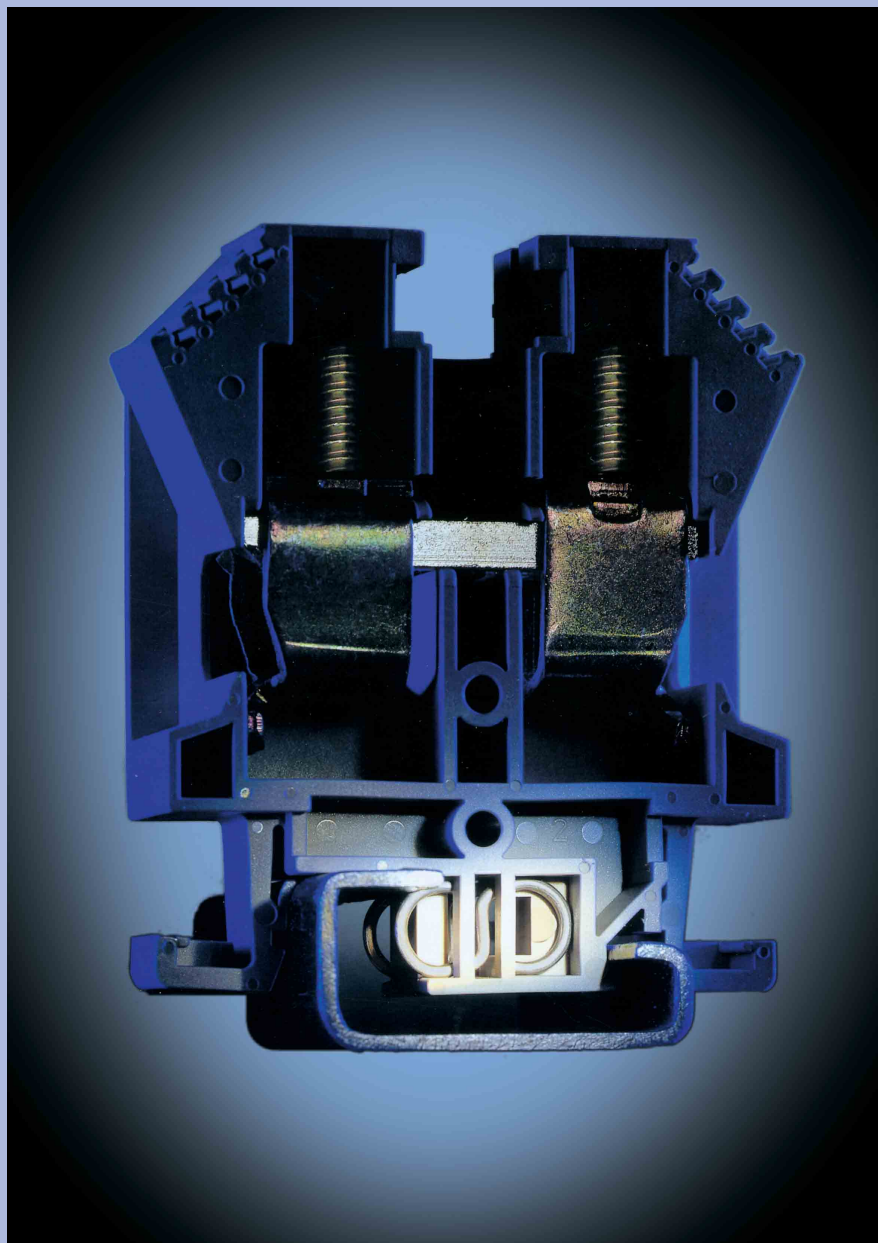


Description	Order Code No	Dimensions (h×w×l)
1 Element	CA-BX 1	6,30x7x7,50
2 Element	CA-BX 2	6,30x7x10,7
3 Element	CA-BX 3	6,30x7x14,7
4 Element	CA-BX 4	6,30x7x18,50

ASSEMBLED CONTROL STATIONS

Type	Push Button Operator Type	Button Color	Contact Arrangement	Order Code No
One Element 	Flush with legend plate engraved "START"	Green	N O	CA-BX101
	40mm Mushroom head momentary action "STOP"	Red	N C	CA-BX102
	40mm Mushroom head latch in, twist to release	Red	N C	CA-BX103
Two Element 	"START" Flush P.B.	Green	N O	CA-BX201
	"STOP" Flush P.B.	Red	N C	
Three Element 	"FORWARD" Flush "REVERSE" Flush "STOP" Flush	Black Black Red	N O N O N C	CA-BX301
	"UP" Flush "DOWN" Flush "STOP" Flush	Black Black Red	N O N O N C	CA-BX302
	"STOP" Flush "START" Flush "NEON" Flush	Red Green X X	N C N O	CA-BX303

Terminal blocks



TERMINAL BLOCKS



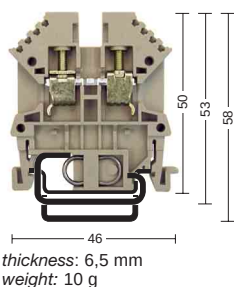
File n. 137870



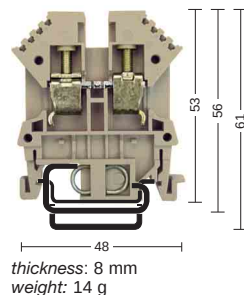
LR 26860/6

On DIN 46277/3 - EN 50022 and DIN 46277/1
EN 50035 assembly rails

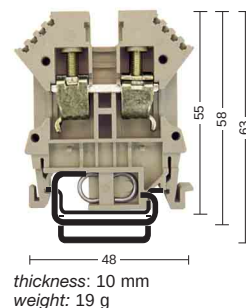
USC 4



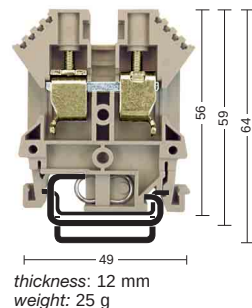
USC 6



USC 10



USC 16



IEC 947.7.1 rated data

Voltage / Current / Cross section

UL and CSA rated data

Voltage / Current / Cross section

Voltage / Current / Cross section

Insulating stripping length / screw / blade

UL
CSA

800 V / 32 A / 0,5 ... 4 mm²

600 V / 20 A / 20 ... 12 AWG
600 V / 25 A / 18 ... 12 AWG
10 mm / M 3 / 3,5 x 0,6 mm

800 V / 41 A / 0,5 ... 6 mm²

600 V / 30 A / 20 ... 10 AWG
600 V / 40 A / 18 ... 8 AWG
11 mm / M 3,5 / 4,0 x 0,8 mm

800 V / 57 A / 1,5 ... 10 mm²

600 V / 50 A / 14 ... 8 AWG
600 V / 65 A / 14 ... 6 AWG
12 mm / M 4 / 5,5 x 1,0 mm

800 V / 76 A / 4 ... 16 mm²

600 V / 65 A / 10 ... 6 AWG
600 V / 95 A / 10 ... 4 AWG
13 mm / M 4 / 5,5 x 1,0 mm

Ordering data

TYPE std. pack

TYPE std. pack

TYPE std. pack

TYPE std. pack

Accessories

Colours: beige
blu

USC 4 100
USC 4 blu 100

USC 6 100
USC 6 blu 100

USC 10 100
USC 10 blu 100

USC 16 50
USC 16 blu 50



END PLATE

DFE 4/6/10 50
DFE 4/6/10 blu 50

DFE 4/6/10 50
DFE 4/6/10 blu 50

DFE 4/6/10 50
DFE 4/6/10 blu 50

DFE 16 30
DFS 4/6/10 30
DFE 16 blu 30
DFS 4/6/10 blu 30

Identical for USC 4, 6 and 10



PARTITION PLATE

for external use
with terminal blocks

DFE 16 30
DFS 4/6/10 30
DFE 16 blu 30
DFS 4/6/10 blu 30

DFE 16 30
DFS 4/6/10 30
DFE 16 blu 30
DFS 4/6/10 blu 30

DFE 16 30
DFS 4/6/10 30
DFE 16 blu 30
DFS 4/6/10 blu 30

DFE 35 20
DFS 16 20
DFE 35 blu 20
DFS 16 blu 20

NOTE: the end plate DFE 16 for the terminal USC 16 is the partition plate DFS 4/6/10 for the terminals USC 4, 6 and 10.

NOTE: the end plate DFE 35 for the terminal USC 16 is the partition plate DFS 16 for the terminal USC 16.



SEPARATING PLATE

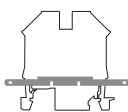
for the separation of neighboring
bridges can be fitted later,
no loss of space.
Unified from USC 4 up to USC35

DSP 100
DSP blu 100

DSP 100
DSP blu 100

DSP 100
DSP blu 100

DSP 100
DSP blu 100



SCREENING BAR

connection for screening
conductors

BS 50

BS 50

BS 50



SLEEVE WITH SCREW

for cross connecting link

CVR 4 100

CVR 6 100

CVR 10 100

CVR 16 100



CROSS CONNECTING LINK

for parallel connection from
2 up to 10 terminals

PR 4 20

PR 6 20

PR 10 10

PR 16 10



PREASSEMBLED CROSS CONNECTING LINK

for parallel connection of 2, 3, 4
and 10 terminals

PP 4/2 50
PP 4/3 50
PP 4/4 50
PP 4/10 20

PP 6/2 50
PP 6/3 50
PP 6/4 50
PP 6/10 20

PP 10/2 50
PP 10/3 50
PP 10/4 50
PP 10/10 20

PP 16/2 50
PP 16/3 50
PP 16/4 50
PP 16/10 10



TEST PLUG BOLT

CS 4 50

CS 6 50

CS 10 50

CS 16 50



ONE POLE TEST PLUG

SP 2,3 -

SP 4 -

SP 4 -

SP 4 -



SLEEVE WITH SCREW

extended type for mobile
connecting link

CVP 4 50

CVP 6 50

CVP 10 50

CVP 16 50



CONNECTING LINK

for sectioning single circuits

PM 4 -

PM 6 -

PM 10 -

PM 16 -



DANGER TAG

UTP 4/6 50

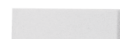
UTP 4/6 50

UTP 10/16 50

UTP 10/16 50

Identical for terminals USC 4 and USC 6.

Identical for terminals USC 10 and USC 16.



WHITE UNPRINTED TAG

labeling with a special indelible pen

UTB 4/6 50

UTB 4/6 50

UTB 10/16 50

UTB 10/16 50

Identical for terminals USC 4 and USC 6.

Identical for terminals USC 10 and USC 16.



INSULATING TAG CAP

beige colour, to insulate
completely the terminal block

UTI 4/6 50

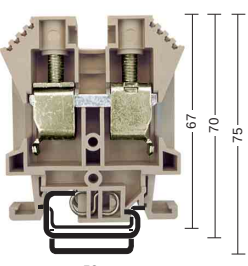
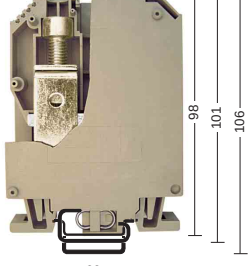
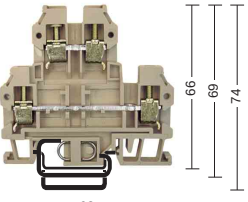
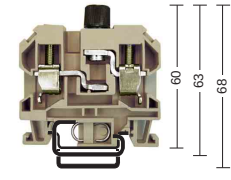
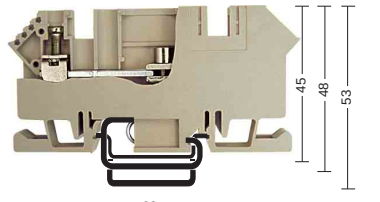
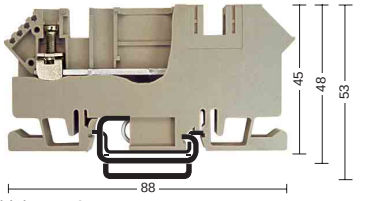
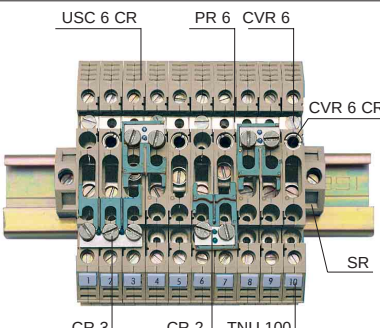
UTI 4/6 50

UTI 10/16 50

UTI 10/16 50

Identical for terminals USC 4 and USC 6.

Identical for terminals USC 10 and USC 16.

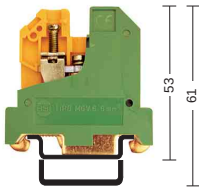
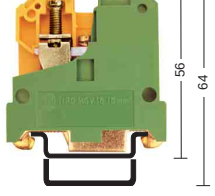
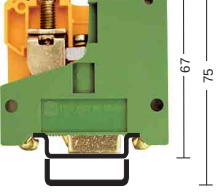
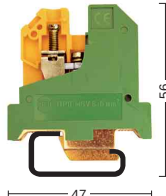
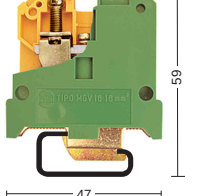
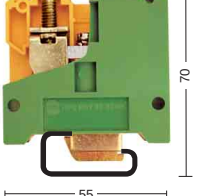
USC 35  thickness: 16 mm weight: 54 g	USC 70  thickness: 22,5 mm weight: 183 g	USC 4-2 Asymmetric double level - with fixed bridge, diodes, LED lamp  thickness: 6,5 mm weight: 20 g	USC 10 FT Featuring fuse carrier cartridge fuses: 5x20 / 5x25 - with LED and neon lamp  thickness: 13 mm weight: 32 g	USC 6 CR Longitudinal disconnection  thickness: 8 mm weight: 25 g
800 V / 125 A / 6 ... 35 mm² 600 V / 115 A / 6 ... 2 AWG 600 V / 100 A / 6 ... 2 AWG 17 mm / M 6 / 6,5 x 1,2 mm	1000 V / 192 A / 10 ... 70 mm² 600 V / 175 A / 6 ... 00 AWG 600 V / 170 A / 4 ... 00 AWG 26 mm / M 8 / 6 mm DIN 911	630 V / 32 A / 0,5 ... 4 mm² 600 V / 20 A / 20 ... 12 AWG 600 V / 25 A / 18 ... 12 AWG 10 mm / M 3 / 3,5 x 0,6 mm	630 V / 12,5 A max / 1,5...10 mm² 13 mm / M 4 / 5,5 x 1,0 mm	500 V / 41 A / 0,5 ... 6 mm² 11 mm / M 3,5 / 4,0 x 0,8 mm
TYPE std. pack	TYPE std. pack	TYPE std. pack	TYPE std. pack	TYPE std. pack
USC 35 20 USC 35 blu 20	USC 70 10 USC 70 blu 10	USC 4-2 100 USC 4-2 blu 100 USC 4-2/P 100 USC 4-2/D 100 USC 4-2/DL 100 USC 4-2/L 100 USC 4-2/lamp. 100 DFE 4-2 30 DFE 4-2 blu 30	USC 10 FT/20 40 USC 10 FT/25 40 USC 10 FT/20L 40 USC 10 FT/20LED 40	USC 6 CR 50
DFE 35 20 DFS 16 20 DFE 35 blu 20 DFS 16 blu 20			DFE 10 FT 20 F 20 250 V Ø 5x20 mm FUSE in compliance with DIN 41571 	USC 6 CR/N Normal terminal block  thickness: 8 mm weight: 24 g
DFS 35 20 DFS 35 blu 20 <i>the terminal USC 35 is the partition plate</i>			*C 20 CLOSED FUSES CARRIER CAPS A DIN 41674 for Ø 5x20 mm fuses 	
DSP 100 DSP blu 100		Spacer plate compensation to level the terminal block if normal terminals are fitted adjacent.  DRC 4-2 30 DRC 4-2 blu 30	F 25 250 V Ø 5x25 mm FUSE WITH WARNING SYSTEM in compliance with DIN 41576 	USC 6 CR/N 50 DSP 100
			*C 25 FUSES CARRIER CAPS WITH WINDOW B DIN 41674 for Ø 5x25 mm fuses, with warning system 	Accessories
CVR 35 50	CVR 70 30	CVR 4 100	* spare part only, already included in the terminal block CVR 10 FT 100	CURSORS FOR PARALLEL CONNECTION
PR 35 10	PR 70/2 for 2 terminals 5 PR 70/3 for 3 terminals 5	PR 4 20	PR 10 FT 10	 CR 2 CR 3 CR 4
CS 35 50 SP 4 —	CS 70 50 SP 4 —	PP 4/2 50 PP 4/3 50 PP 4/4 50 PP 4/10 20 CS 4 50 SP 2,3 —		SLEEVE WITH SCREW 
CVP 35 50		CVP 4 50		CVR 6 CR 50
PM 35 —		PM 4 —		CVR 6 100
UTP 35/70 50 <i>Identical for terminals USC 35 and USC 70.</i>	UTP 35/70 50	TP 4 50		PP 6/2 50 PP 6/3 50 PP 6/4 50 PP 6/10 20
UTB 35/70 50 <i>Identical for terminals USC 35 and USC 70.</i>	UTB 35/70 50	TB 4 50		CS 6 50
UTI 35/70 50 <i>Identical for terminals USC 35 and USC 70.</i>	UTI 35/70 50	TI 4 50		 USC 6 CR PR 6 CVR 6 CVR 6 CR CR 3 CR 2 TNU 100 SR

GROUND TERMINAL BLOCKS

In compliance with IEC 947.7.2

On DIN 46277/3 - EN 50022 assembly rails

On DIN 46277/1 - EN 50035 assembly rail

MGV 6/3 6 mm ² thickness: 8 mm	MGV 16/3 16 mm ² thickness: 12 mm	MGV 35/3 35 mm ² thickness: 16 mm	MGV 6 6 mm ² thickness: 8 mm	MGV 16 16 mm ² thickness: 12 mm	MGV 35 35 mm ² thickness: 16 mm
					
std. pack 100	std. pack 50	std. pack 20	std. pack 100	std. pack 50	std. pack 20

COMMON ACCESSORIES

END BRACKETS
 with 2 side slots for marking tags
 type TNU 100 and TNB
 thickness: 8 mm



on DIN 46277/1 - EN 50035 assembly rail

TYPE std. pack

SR 100

on DIN 46277/3 - EN 50022 assembly rails

SR/3 50

MARKING SYSTEMS

TYPE

TNU 100

SHEETS featuring 100 clip-on tags in white 66 polyamid, black hot-pressed

std. pack: 5 sheets



CODE 100

code	printed sheets	
999	unprinted	
101	100 times	1
102	100 times	2
.....		
110	100 times	10
710	10 series	1÷10
720	10 series	11÷20
.....		
800	10 series	91÷100
100	series	1÷100
200	series	101÷200
300	series	201÷300
R20	R, S, T, N, ⊕ twenty times series	
U20	U, V, W, N, PE twenty times series	
L20	L1, L2, L3, N, PE twenty times series	

TYPE

MTU

SHEETS featuring 10 clip-on tags in white 66 polyamid, black hot pressed.

std. pack: 10 strips



CODE 07

code	printed strip	
99	unprinted	
10	10 times	0
01	10 times	1
.....		
09	10 times	9
A10	10 times	A
B10	10 series	B
.....		
Z10	10 series	Z
series		
20	R, S, T, N, U, V, W, +, -, /	

TYPE

TNB

SHEETS featuring 60 white clip-on tags 10x5 mm, suitable for plotter writing (up to 7 types)

std. pack: 15 sheets

