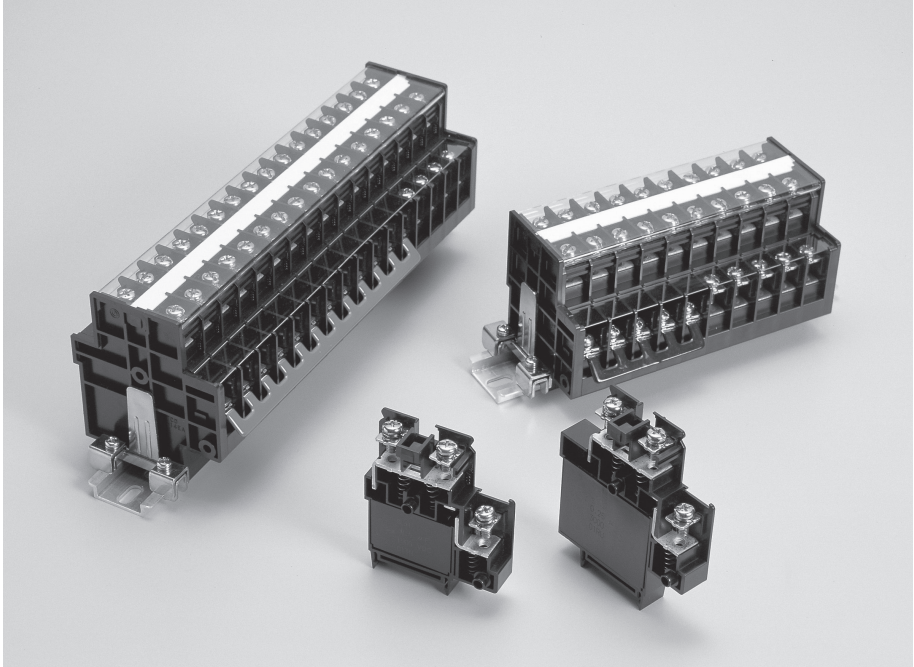




CAPACITOR TERMINAL BLOCK

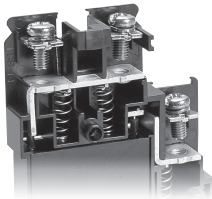
TCS TYPE, TCD TYPE



FEATURES

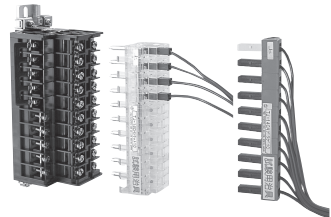
1

Up-screw structure is used for terminal screw connections, preventing incomplete connection and reducing the number of work steps.



3

When a test connector (jig) is connected, withstand voltage test and sequence test can be easily conducted.



2

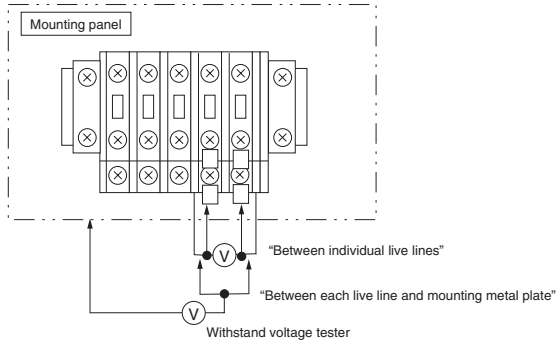
Incorporating a metalized polypropylene film capacitor that provides high withstand voltage and high reliability



SPECIFICATIONS (RATINGS, PERFORMANCE)

Type Specification	TCS-14C	TCS-14	TCD-14C	TCD-14
Rated insulation voltage (UI)	600V			
Rated current-carrying capacity (Ith)	60A			
Rated cross-section	14mm ²			
Screw size	M5×11 (Up-screw type)			
Power-Frequency withstand voltage※	2,500V AC / 1min.			
Rated impulse withstand voltage※	±7.2kV / 3 times for each pole (1.2 / 50 μs)			
Ambient operating temperature	-25 to 55°C			
Storing temperature	-40 to 75°C			
Altitude	2,000 m or less			

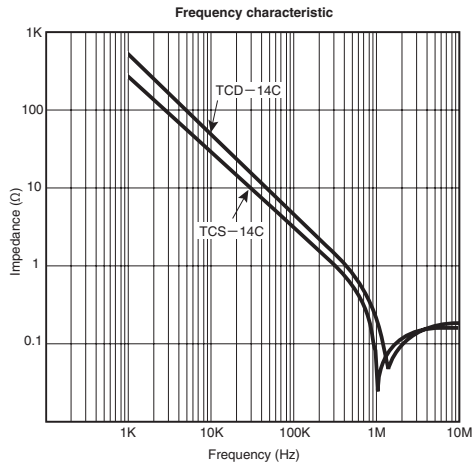
* Remark: "Commercial frequency withstand voltage" and "Impulse withstand voltage" are characteristics of the terminal block, not built-in capacitor's characteristics. Evaluations conducted when a voltage is applied to the points shown below (between individual live lines, and between each live line and mounting metal plate).



●Built in capacitor specification

Type Specification	TCS-14C	TCD-14C
Rated voltage	1,500VDC (AC conversion 550VAC)	3,000VDC (AC conversion 1,100VAC)
Capacitance	0.5μF ± 10%	0.25μF ± 10%
Dissipation factor	0.1% or less (1kHz)	0.1% or less (1kHz)
Power-Frequency withstand voltage	2,250V DC / 1 min.	4,500V DC / 1 min.
Dielectric material	Metallized polypropylene film (MPP)	

●Applicable standard: JIS C 2811 (1995)
B-402 (Oct. 1997) *Partial



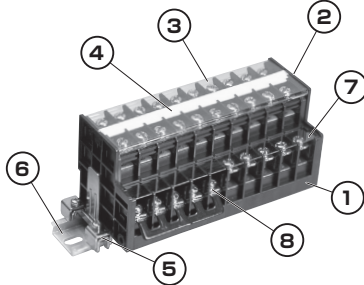


TCS TYPE, TCD TYPE

How to order of terminal blocks

Product Composition

■ Necessary parts for assembling a terminal block



- ① Unit part ————— Refer to C150 to C151.
 - ② End plate
 - ③ Cover (Standard length: 1,000 mm)
 - ④ Marker strip (Standard length: 900 mm)
 - ⑤ End clamp
 - ⑥ Rail (Standard length: 1,000 mm)
 - ⑦ Ground terminal cover (Standard length: 1,000 mm)
 - ⑧ Jumper
- Refer to the list of applicable accessories for detail.

Remark: Please be noted each component has minimum order unit.

How to order assembly

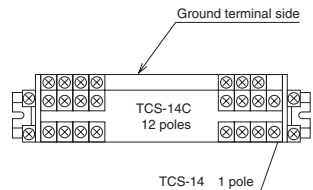
1 One type assembly

TCS-14C × 12, 14 × 1 XF-230

Basic type No. of poles Basic type No. of poles Rail

* Specify a model code from the left, with the earth terminal facing up.
For a complicated combination, use a reference material that specifies layout.

* Because this product contains a capacitor, it is not suitable for use in tropical region type. Only SUS screws are compatible. Please contact us for details.



2 Some different type assembly

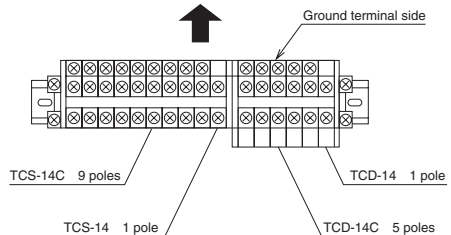
TCS-14C × 9, 14 × 1 + TCD-14C × 5, 14 × 1 XD-15

Basic type No. of poles Basic type No. of poles Basic type No. of poles Basic type No. of poles Rail

● Rail

XF : U-cut rail
XD : Punched rail

* Regarding to the red terminal, please contact the staff in charge.

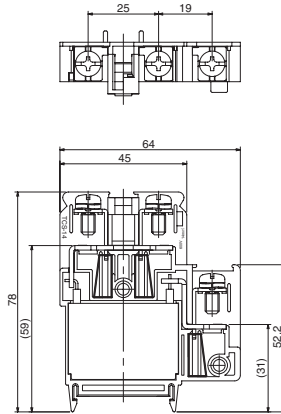
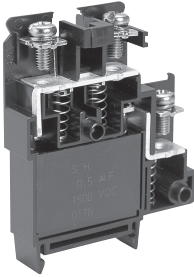


STANDARD PRODUCTS

TCS-14C (60A)

Unit with built-in capacitor

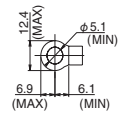
Applicable wire size: 5.5 to 14mm² (M5)



●Applicable accessories

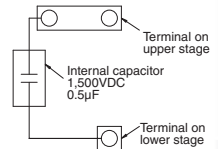
End plate	TCSE-14A,B
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TYL
Cover	TUC-6
Earth terminal cover	TCS-14-CV

●Applicable crimp terminal



* With insulating cover

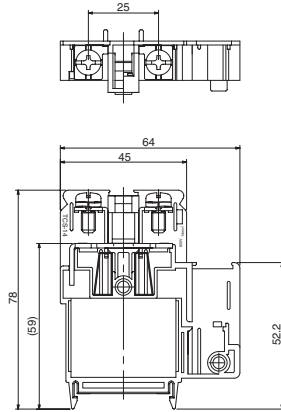
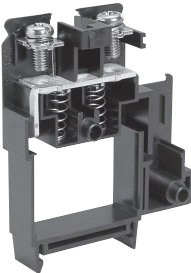
●TCS-14C internal connection diagram



TCS-14 (60A)

Unit without capacitor

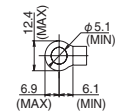
Applicable wire size: 5.5 to 14mm² (M5)



●Applicable accessories

End plate	TCSE-14A,B
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TYL
Cover	TUC-6
Earth terminal cover	TCS-14-CV

●Applicable crimp terminal



* With insulating cover



CAPACITOR TERMINAL BLOCK

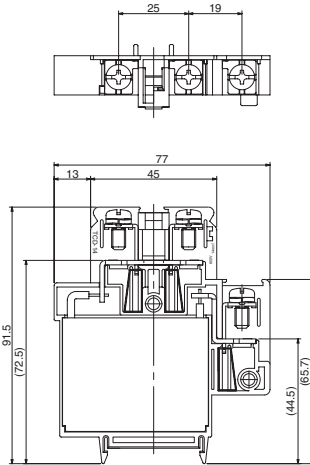
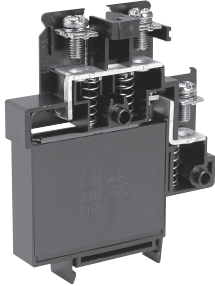
TCS TYPE, TCD TYPE

STANDARD PRODUCTS

TCD-14C (60A)

Unit with built-in capacitor

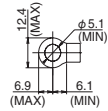
Applicable wire size: 5.5 to 14mm² (M5)



●Applicable accessories

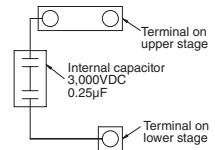
End plate	TCDE-14A,B
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TYL
Cover	TUC-6
Earth terminal cover	TCS-14-CV

●Applicable crimp terminal



• With insulating cover

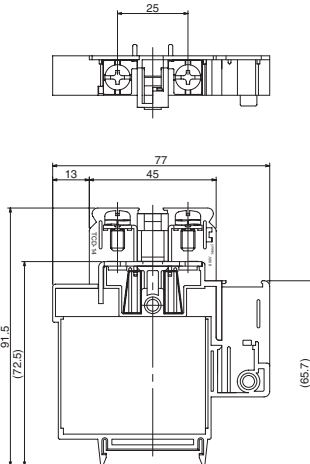
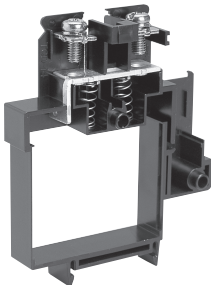
●TCD-14C internal connection diagram



TCD-14 (60A)

Unit without capacitor

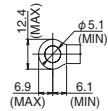
Applicable wire size: 5.5 to 14mm² (M5)



●Applicable accessories

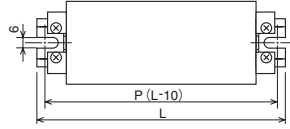
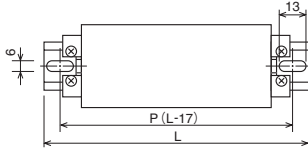
End plate	TCDE-14A,B
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TYL
Cover	TUC-6
Earth terminal cover	TCS-14-CV

●Applicable crimp terminal



• With insulating cover

TABLE OF ASSEMBLED DIMENSIONS



Assembly on Punched rail

TXB-D type

Type Pole	TCS-14C (14)			TCD-14C (14)		
	P	L	Rail	P	L	Rail
1	60	77	XD-4	60	77	XD-4
2	60	77	XD-4	60	77	XD-4
3	80	97	XD-5	80	97	XD-5
4	100	117	XD-6	100	117	XD-6
5	100	117	XD-6	100	117	XD-6
6	120	137	XD-7	120	137	XD-7
7	140	157	XD-8	140	157	XD-8
8	140	157	XD-8	140	157	XD-8
9	160	177	XD-9	160	177	XD-9
10	180	197	XD-10	180	197	XD-10
11	200	217	XD-11	200	217	XD-11
12	200	217	XD-11	200	217	XD-11
13	220	237	XD-12	220	237	XD-12
14	240	257	XD-13	240	257	XD-13
15	240	257	XD-13	240	257	XD-13
16	260	277	XD-14	260	277	XD-14
17	280	297	XD-15	280	297	XD-15
18	280	297	XD-15	280	297	XD-15
19	300	317	XD-16	300	317	XD-16
20	320	337	XD-17	320	337	XD-17
21	340	357	XD-18	340	357	XD-18
22	340	357	XD-18	340	357	XD-18
23	360	377	XD-19	360	377	XD-19
24	380	397	XD-20	380	397	XD-20
25	380	397	XD-20	380	397	XD-20
26	400	417	XD-21	400	417	XD-21
27	420	437	XD-22	420	437	XD-22
28	420	437	XD-22	420	437	XD-22
29	440	457	XD-23	440	457	XD-23
30	460	477	XD-24	460	477	XD-24
31	480	497	XD-25	480	497	XD-25
32	480	497	XD-25	480	497	XD-25
33	500	517	XD-26	500	517	XD-26
34	520	537	XD-27	520	537	XD-27
35	520	537	XD-27	520	537	XD-27
36	540	557	XD-28	540	557	XD-28
37	560	577	XD-29	560	577	XD-29
38	560	577	XD-29	560	577	XD-29
39	580	597	XD-30	580	597	XD-30

* Rail designation is XD-[pole] for TXB-D type (Punched rail).

* Rail designation is KD-[pole] for TKB-D type (Punched rail).

Assembly on U-cut rail

TXB-F type

Type Pole	TCS-14C (14)			TCD-14C (14)		
	P	L	Rail	P	L	Rail
1	50	60	XF-60	50	60	XF-60
2	65	75	XF-75	65	75	XF-75
3	80	90	XF-90	80	90	XF-90
4	95	105	XF-105	95	105	XF-105
5	105	115	XF-115	105	115	XF-115
6	120	130	XF-130	120	130	XF-130
7	135	145	XF-145	135	145	XF-145
8	150	160	XF-160	150	160	XF-160
9	165	175	XF-175	165	175	XF-175
10	175	185	XF-185	175	185	XF-185
11	190	200	XF-200	190	200	XF-200
12	205	215	XF-215	205	215	XF-215
13	220	230	XF-230	220	230	XF-230
14	235	245	XF-245	235	245	XF-245
15	245	255	XF-255	245	255	XF-255
16	260	270	XF-270	260	270	XF-270
17	275	285	XF-285	275	285	XF-285
18	290	300	XF-300	290	300	XF-300
19	305	315	XF-315	305	315	XF-315
20	315	325	XF-325	315	325	XF-325
21	330	340	XF-340	330	340	XF-340
22	345	355	XF-355	345	355	XF-355
23	360	370	XF-370	360	370	XF-370
24	375	385	XF-385	375	385	XF-385
25	385	395	XF-395	385	395	XF-395
26	400	410	XF-410	400	410	XF-410
27	415	425	XF-425	415	425	XF-425
28	430	440	XF-440	430	440	XF-440
29	445	455	XF-455	445	455	XF-455
30	455	465	XF-465	455	465	XF-465
31	470	480	XF-480	470	480	XF-480
32	485	495	XF-495	485	495	XF-495
33	500	510	XF-510	500	510	XF-510
34	515	525	XF-525	515	525	XF-525
35	525	535	XF-535	525	535	XF-535
36	540	550	XF-550	540	550	XF-550
37	555	565	XF-565	555	565	XF-565
38	570	580	XF-580	570	580	XF-580
39	585	595	XF-595	585	595	XF-595

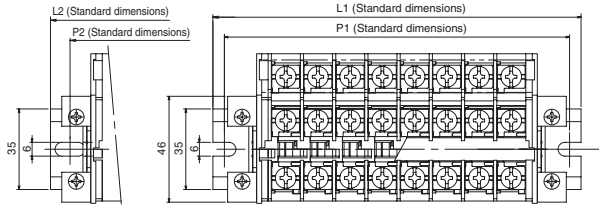
* Rail designation is XF-[pole] for TXB-F type (U cut rail).



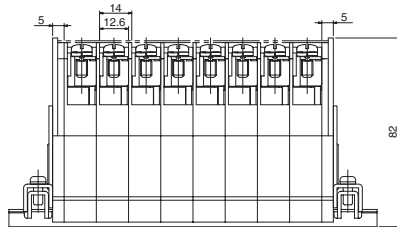
TCS TYPE, TCD TYPE

Assembly diagram

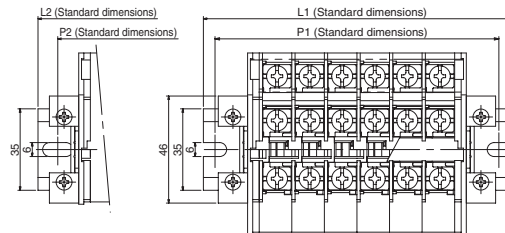
TCS-14C (14)



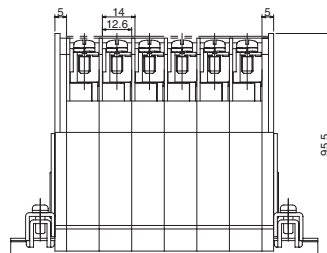
No. of poles		1	2	3	4
U-cut rail (XF rail)	P1	50	65	80	95
	L1	60	75	90	105
Punched rail (XD, KD rail)	P2	60	60	80	100
	L2	77	77	97	117
No. of poles		5	6	7	8
U-cut rail (XF rail)	P1	105	120	135	150
	L1	115	130	145	160
Punched rail (XD, KD rail)	P2	100	120	140	140
	L2	117	137	157	157



TCD-14C (14)



No. of poles		1	2	3	4
U-cut rail (XF rail)	P1	50	65	80	95
	L1	60	75	90	105
Punched rail (XD, KD rail)	P2	60	60	80	100
	L2	77	77	97	117
No. of poles		5	6	7	8
U-cut rail (XF rail)	P1	105	120	135	150
	L1	115	130	145	160
Punched rail (XD, KD rail)	P2	100	120	140	140
	L2	117	137	157	157

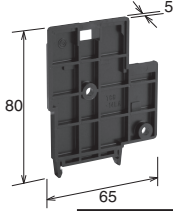


ACCESSORIES

End plate

(Order unit: 50)

●TCSE-14A (Ventral side)

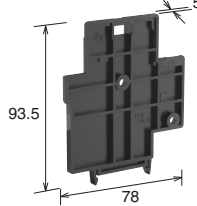


●TCSE-14B (Dorsal side)



* Plates A and B should be used as a set.

●TCDE-14A (Ventral side)



●TCDE-14B (Dorsal side)

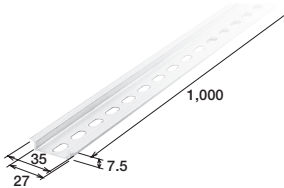


* Plates A and B should be used as a set.

Aluminum rail

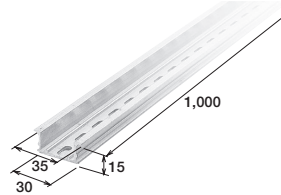
●TXB (DIN rail)

(Order unit: 50)



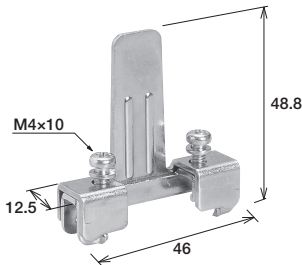
●TKB (Reinforced DIN rail)

(Order unit: 20)



End clamp

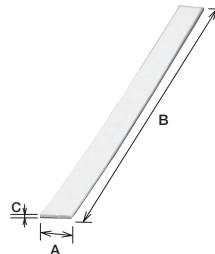
●TYL



Marker strip

(Order unit: 100)

●TUM-2 (TUM Marker strip 10A ABS)



Type name	TUM-2* (TUM marker strip 10A ABS)
A	10
B	900
C	1.0

* Plate thickness $t = 0.5$ mm specification is available.
Type: TUM-2 0.5T
(TUM marker strip 10ABS 0.5)

Rail cap

(Order unit: 100)

●Cap for DIN rail TXB CAP-PVC



(Example of usage)

●Cap for DIN rail (High-strength type) TKB CAP-PVC



(Example of usage)

* Only single product sale.

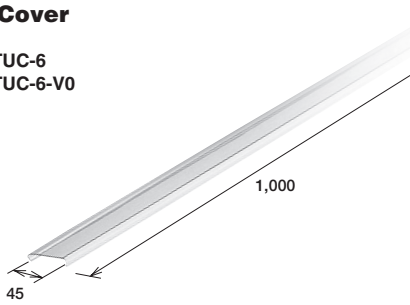


TCS TYPE, TCD TYPE

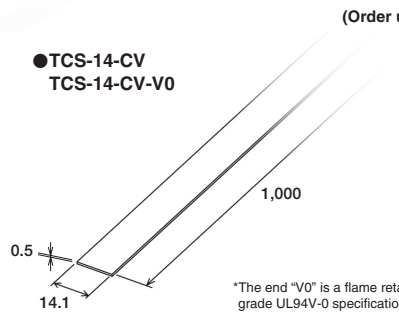
ACCESSORIES

Cover

- TUC-6
TUC-6-V0



- TCS-14-CV
TCS-14-CV-V0



(Order unit: 20)

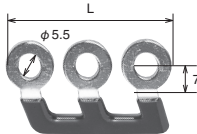
*The end "V0" is a flame retardant grade UL94V-0 specification product.

Ground bar (Jumper)

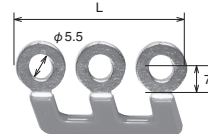
* Rated insulation voltage (Ui) 30A.

(Order unit: 10)

- SB14CB-No. of poles **P** (Black)



- SB14CG-No. of poles **P** (Green)

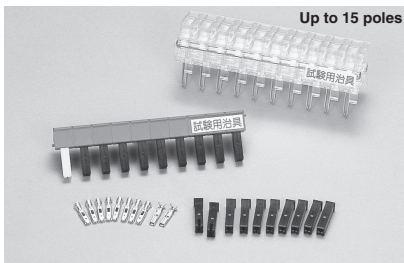


No. of poles	2	3	4	5	12
Type	SB14CB-2	SB14CB-3	SB14CB-4	SB14CB-5	SB14CB-12
L	26	40	54	68	166

No. of poles	2	3	4	5	12
Type	SB14CG-2	SB14CG-3	SB14CG-4	SB14CG-5	SB14CG-12
L	26	40	54	68	166

Testing connector

- TJ-14CH No. of poles **PC** (Connecting type)



*Receptacle connector for standard attachment AMP Inc. 172774-1