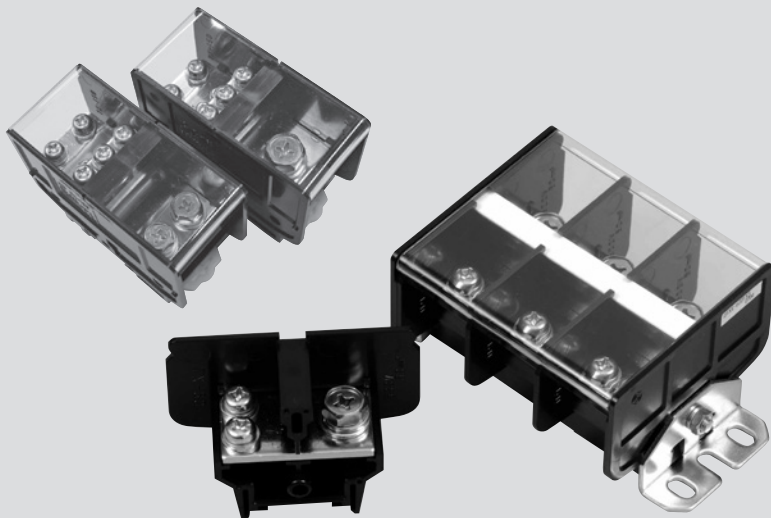




SCREW TYPE BRANCH TERMINAL BLOCK

TX-□DF TYPE

Eliminating labor of branching results in greater efficiency of wiring work.
Contribution to power supply branching space saving



FEATURES

- The TX-□DF type enables branching of up to 4 lines with a single unit. TX-150MDF enables branching of up to 5 lines with a single unit.
- Providing the same basic performance as that of the TX type terminal block, this terminal block is applicable to either rail mounting or shaft mounting (TXS-□DF), according to the purpose of use. (The shaft mounting model can be mounted by fastening the unit at 2 points or 4 points). (Only TX-□DF is applicable.)
- According to intended use environment, stainless steel screw model is also available in the product lineup. (Only TX-□DF is applicable.)
- A cross recess is provided at the bolt head, enabling temporary fastening with a screwdriver.
- Enables quick DIN rail mounting and removal. (TX-60DF is not applicable.)
- Stainless steel screw specifications are also available.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Type	TX-60DF		TX-150DF		TX-150MDF15		TX-150MDF25	
Specification	Primary side	Secondary side	Primary side	Secondary side	Primary side	Secondary side	Primary side	Secondary side
Rated insulation voltage (UI)	600V							
Rated current-carrying capacity (Ith)	175A		310A		310A	80A	155A	80A
Rated cross-section	60mm ² (M8)	14mm ² (M6)	150mm ² (M10)	38mm ² (M8)	150mm ² (M10)	22mm ² (M6)	60mm ² (M8)	22mm ² (M6)
Screw size	M8X16 (1 pcs.)	M6X12 (2 pcs.)	M10X25 (1 pcs.)	M8X16 (2 pcs.)	M10X25 (1 pcs.)	M6X12 (5 pcs.)	M8X16 (2 pcs.)	M6X12 (5 pcs.)
Number of conductors simultaneously connectable	Please refer to page C48				2	1	2	1
Power-Frequency withstand voltage	2,500V AC / 1min.							
Rated impulse withstand voltage	±7.2kV / 3 times for each pole (1.2 / 50 μs)				±7.4kV / 3 times for each pole (1.2 / 50 μs)			
Ambient operating temperature	-25 to 50°C							
Storing temperature	-40 to 85°C							
Altitude	2,000 m or less							

* Please refer to the accessory (page C48) for the dimensions of crimp terminals.

* For small crimp terminals, TX-150DF and TXS-150DF of secondary side can connect up to a maximum wire size of 38mm².

How to order

TX - 60DF SUS × 10 XD - 17 MR

① ② ③ ④ ⑤

(blank) standard
MR* tropical region type
*applicable models only

● Information of tropical region type
Screw Stainless steel
Rail Varnish coated
End clamp Thick plated
Tropical region type nameplate (attached to end plate) MOISTURE RESISTANCE

No.	Item	Code	Description	Remarks
①	Basic type	TX-□DF	□ : Applicable wire size	1 terminal → 2 terminal branch type (Rail assembly)
		TXS-□DF		1 terminal → 2 terminal branch type (Shaft assembly)
②	Screw type	No code	Iron screw	
		SUS	Stainless steel screw	
③	No. of poles	1 to max.	TX-60DF	1 to 19
			TX-150DF	1 to 12
			TXS-60DF	1 to 9
			TXS-150DF	1 to 6
④	Rail	XD	TXB-D rail type	Punched rail (Recommended maximum length : 600mm)
		XF	TXB-F rail type	U-cut rail (Recommended maximum length : 600mm)
		(blank)		Not specified for shaft-mounting model only.
⑤	Tropical region type	(blank)		Standard
		MR	Tropical region type	Special model

* For purchase of a single unit, specify ① and ② only.
But, TXS-□DF is not selectable.

TX - 150MDF 15 × 3 XD - 9

① ② ③ ④

No.	Item	Code	Description	Remarks
①	Basic type	TX-150MDF	TX-150MDF	-
②	Branch structure	15		1 terminal → 5 terminal branch type
		25		2 terminal → 5 terminal branch type
③	No. of poles	1 to max.	1 to 4	-
④	Rail	XD	TXB-D rail type	Punched rail * UD rail not available.

* For purchase of a single unit, specify ① and ② only.



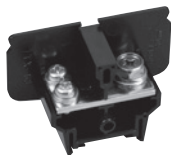
SCREW TYPE BRANCH TERMINAL BLOCK

TX-□DF TYPE

STANDARD PRODUCTS

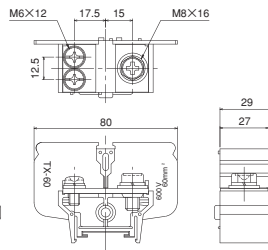
TX-60DF (175A)

Applicable wire size Primary side 38 to 60 mm² (M8), Secondary side 5.5 to 14 mm² (M6)



●Applicable accessories

End plate	TXE-38
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	TUC-40 1M



* Please refer to the accessory (page C48) for the dimensions of crimp terminals.

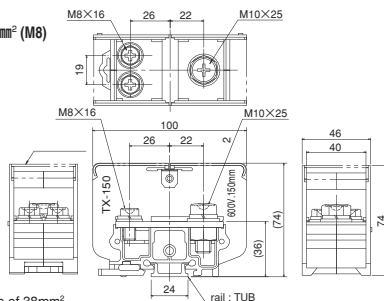
TX-150DF (310A)

Applicable wire size Primary side 100 to 150 mm² (M10), Secondary side 8 to 22 mm² (M8)



●Applicable accessories

Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	With TXC-150



* For small crimp terminals, secondary side can connect up to a maximum wire size of 38mm².

* Please refer to the accessory (page C48) for the dimensions of crimp terminals.

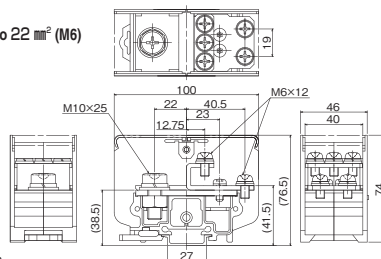
TX-150MDF15 (Primary side : 310A) (Secondary side : 80A)

Applicable wire size Primary side 100 to 150 mm² (M10), Secondary side 5.5 to 22 mm² (M6)



●Applicable accessories

Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	With TXC-150



* Please refer to the accessory (page C48) for the dimensions of crimp terminals.

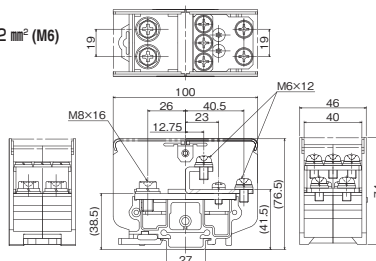
TX-150MDF25 (Primary side : 155A) (Secondary side : 80A)

Applicable wire size Primary side 38 to 60 mm² (M8), Secondary side 5.5 to 22 mm² (M6)



●Applicable accessories

Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	With TXC-150



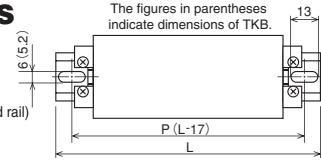
* Please refer to the accessory (page C48) for the dimensions of crimp terminals.

TABLE OF ASSEMBLED DIMENSIONS

TX type assembly on punched rail

TXB-D type

The assembled dimensions for the TKB-D (Reinforced rail) are the same as shown in the following table. However, the rails are marked as KD-□.

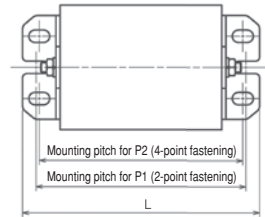


Type	TX-60DF			TX-150DF			TX-150MDF15, TX-150MDF25			Type
Pole	P	L	Rail	P	L	Rail	P	L	Rail	Pole
1	60	77	XD-4	80	97	XD-5	80	97	XD-5	1
2	100	117	XD-6	120	137	XD-7	120	137	XD-7	2
3	120	137	XD-7	160	177	XD-9	160	177	XD-9	3
4	140	157	XD-8	200	217	XD-11	200	217	XD-11	4
5	180	197	XD-10	260	277	XD-14				5
6	200	217	XD-11	300	317	XD-16				6
7	240	257	XD-13	340	357	XD-18				7
8	260	277	XD-14	400	417	XD-21				8
9	300	317	XD-16	440	457	XD-23				9
10	320	337	XD-17	480	497	XD-25				10
11	360	377	XD-19	540	557	XD-28				11
12	380	397	XD-20	580	597	XD-30				12
13	400	417	XD-21							13
14	440	457	XD-23							14
15	460	477	XD-24							15
16	500	517	XD-26							16
17	520	537	XD-27							17
18	560	577	XD-29							18
19	580	597	XD-30							19
20										20

TX type with shaft

TXS type

Type	TXS-60DF			TXS-150DF			Type
Pole	P1	P2	L	P1	P2	L	Pole
2	88	84	100	116	112	128	2
3	117	113	129	162	158	174	3
4	146	142	158	208	204	220	4
5	175	171	187	254	250	266	5
6	204	200	216	300	296	312	6
7	233	229	245	-	-	-	7
8	262	258	274	-	-	-	8
9	291	287	303	-	-	-	9





TX-□DF TYPE

LIST OF APPLICABLE ACCESSORIES

Accessories	End plate	Marker strip		Marker strip case	Aluminum rail		End clamp		Cover
									
Type		Applicable	Semi-applicable		Applicable	Semi-applicable	Applicable	Semi-applicable	
TX-60DF	TXE-38	TUM-2	——	TUM marker strip case 10	TXB	TKB TUB	TXL	TJL TUL-W	TUC-40 TUC-40-V0
TX-150DF	——								TXC-150 TXC-150-V0
TX-150MDF15	——								
TX-150MDF25	——								

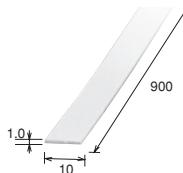
(Order unit: 100)

●TXE-38



(Order unit: 100)

●TUM-2



(Order unit: 100)

●TUM Marker case 10

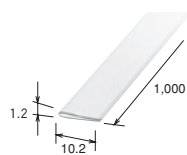
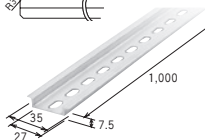
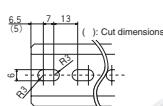


Plate thickness: $t = 0.3\text{mm}$
Transparent case

●TXB (DIN rail)

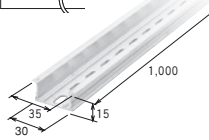
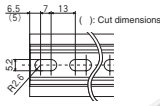
(Order unit: 50)



Applicable end clamp
TXL,TJL

●TKB (reinforced DIN rail)

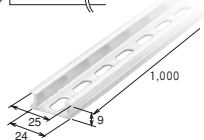
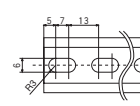
(Order unit: 20)



Applicable end clamp
TXL.TJL

●TUB

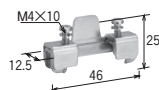
(Order unit: 50)



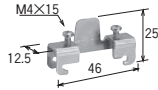
Applicable end clamp
TUL-W

(Order unit: 50)

●TXL



●TJL



●TUL-W



(Order unit: 20)

●TUC-40 1M. TUC-40 1M-V0



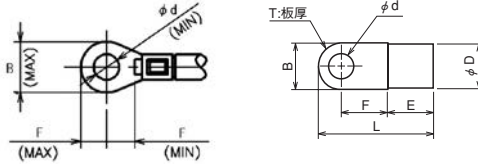
*The end "V0" is a flame retardant grade UL94V-0 specification product.

Rail cap

Please refer to the page C29 for the rail cap.

crimp terminals

The following tables show reference dimensions of crimp terminals.



TX-□DF

●Primary side * With insulating cover

Type	Terminal screw size	Wire size	ϕ d (MIN)	B (MAX)	F (MAX)	F (MIN)
TX-60DF	M8×16	60mm ²	8.1	26.9	13.5	11.1
TX-150DF	M10×25	150mm ²	10.1	39.9	21.8	14.6

●Secondary side (Equivalent of NICHIFU products) * With insulating cover

Type	Terminal screw size	Wire size	φ d	B	L	F	E	φ D	T	(Reference) Applicable model	Attachment propriety Up side	Attachment propriety Down side		
TX-60DF	M6×12	5.5mm ²	6.4	12	23	10.5	6.5	5.6	-	R5.5-6	○	○		
		8mm ²		10	22.5	9.1	8.4	7.1	-	R8-6S	○	×		
				12	23.5				-	R8-6	○	×		
		14mm ²		10	26.5	11.5	10	9	-	R14-6S	○	○		
				12	27.5				-	R14-6	○	○		
				16	32.5				14.5	-	R14-6L	×	×	
TX-150DF	M8×16		8mm ²	8.4	15				29.5	13.6	8.4	7.1	-	R8-8
		14mm ²	12		27.5	11.5	10	9	-	R14-8S	○	×		
			16		32.5	14.5			-	R14-8	○	○		
		22mm ²	11.8		31.4	13.5	12	11.6	-	R22-8S	○	○		
			16.5		33.3	13.05			-	R22-8	○	○		
		38mm ²	15.3		39	18.35	13	13.4	-	R38-8S	○	○		
			22		42.3	18.3			-	R38-8	×	×		

TX-150MDF□

●Primary side (Equivalent of Japan Solderless Terminal products) * With insulating cover

Type	Terminal screw size	Wire size	ϕ d	B	L	F	E	ϕ D	T	(Reference) Applicable model
TX-150MDF15	M10×25	150mm ²	10.5	36	66	21	27	26.5	3.2	R 150-10
						23				150-10
TX-150MDF25 ¹⁾	M8×16	38mm ²	8.4	15.5	38	16	14	13.3	1.8	38-S8
		60mm ²		16	46.7	20.7	18	15.5	2	60-S8

●Secondary side (Equivalent of Japan Solderless Terminal products) * Insulation sheath need not be attached.

Type	Terminal screw size	Wire size	ϕ d	B	L	F	E	ϕ D	T	(Reference) Applicable model
TX-150MDF15 ¹⁾	M6×12	22mm ²	6.4	12	30	12	12	11.5	1.8	22-S6
TX-150MDF25 ¹⁾										

*1 For connections, use crimp terminals that do not exceed the above specified dimensions.