



STUD TERMINAL BLOCK

TX-□G TYPE

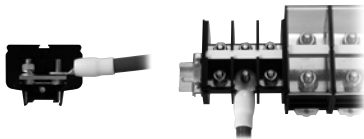
**Use of stud bolts results in reduction in wiring work.
Meeting the high torque
requirement under
JIS C 2805.**



FEATURES

Stud bolts are used for wiring.

Use of stud bolts can save labor of wiring work, and also has effect in prevention of loss of a bolt and connection failure such as pinching.



Enables tightening at high torque.

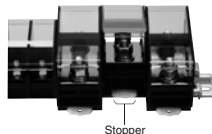
The TX-G type is a terminal block for industrial use, and also enables tightening at high torque that meets the requirement of JIS C 2805 (crimp terminal for copper wire).

Applicable to a current value of breaker size.

The TX-G type enables space-saving through appropriate size selection.

Enables quick rail-mounting.

Each terminal unit can be mounted to a DIN rail or removed from a DIN rail singly through stopper operation.

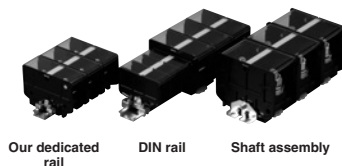


* TX-60SG does not support quick mounting and removal.

Applicable to various mounting methods.

The mounting methods can be freely selected (DIN-rail or shaft mounting, in addition to our dedicated rail), enabling flexible mounting according to application.

* TX-325G is intended for the shaft mounting method.



Use of high-performance resin materials.

High-performance modified PPE (UL94 V-0 class) is used for the resin material of the unit, which provides excellent insulation and flame-retardant properties.

Compatible with RoHS Directive

Uses parts meeting hazardous substance control requirements.

SPECIFICATIONS (RATINGS, PERFORMANCE, STANDARD OPERATING CONDITION)

Applicable standard : NECA C 2811(2012) Terminal blocks for industrial and similar use
JIS C 8201-7-1(2016) Low-voltage switchgear and controlgear
IEC 60947-7-1(2009)

Specification	Type	TX-60SG	TX-100G	TX-150G	TX-200G	TX-325G
Rated insulation voltage (Ui)	Pollution degree 2	800V	1,000V			
	Pollution degree 3	600V				
Rated current-carrying capacity	General specifications	200A	250A	—	400A	660A
	IEC	175A	240A	310A	370A	—
Rated connecting capacity		14~60mm ²	60~100mm ²	100~150mm ²	150~200mm ²	150~325mm ²
Screw size		M8	M10	M10	M12	M16
Recommended tightening torque		8.9~10.8N	18.0~23.0N	18.0~23.0N	31.5~39.5N	78.5~98.0N
Power-Frequency withstand voltage		3,000V AC / 1min.	5,000V AC / 1min.			
Rated impulse withstand voltage		8kV				12kV
Ambient operating temperature		-25 to 60°C				
Storing temperature		-40 to 85°C				
Altitude		2,000 m or less				
Flame retardant grade		Unit: UL94V-0				

* Insulation treatment suitable for the working voltage should be applied to the crimp terminal.

* Consider with ambient operating temperature, current-carrying capacity, wire size, please use the heat-resistant wires as necessary.

HOW TO ORDER

1 In case of rail assembly

TX - 60SG × 10 XF - 300

① ② ③

2 In case of shaft assembly

TXS - 60SG × 10

① ②

No.	Item	Code	Description	Remark
①	Basic type	TX-60SG	Applicable wire size (mm ²)	60 Unit thickness: 26mm
		TXS-60SG		
		TX-100G		100 Unit thickness: 38mm
		TXS-100G		
		TX-150G		150 Unit thickness: 46mm
		TXS-150G		
		TX-200G		200 Unit thickness: 57mm
		TXS-200G		
		TXS-325G		325 Unit thickness: 65mm
②	No. of poles	1 to max.	TX-60SG	1~20P (36P)
			TX-100G	1~15P (25P)
			TX-150G	1~12P (20P)
			TX-200G	1~10P (16P)
			TXS-60SG	1~21P
			TXS-100G	1~14P
			TXS-150G	1~12P
			TXS-200G	1~9P
			TXS-325G	1~4P
③	Rail designation	XD	TXB-D rail type	Punched rail (DIN rail) (Recommended maximum length: 600mm)
		XF	TXB-F rail type	U-cut rail (DIN rail) (Recommended maximum length: 600mm)
		UD	TUB-D rail type	Punched rail (Recommended maximum length: 600mm)
		UF	TUB-F rail type	U-cut rail (Recommended maximum length: 600mm)
		KD	TKB-D rail type	Reinforced punched rail (DIN rail) (Recommended maximum length: 1,000mm)

In case of shaft assembly, basic type will be *TXS-□G.



STUD TERMINAL BLOCK

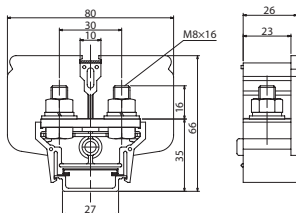
TX-□G TYPE

STANDARD PRODUCTS

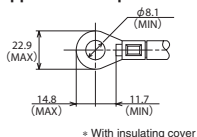
TX-60SG

General IEC
200A 175A

Applicable wire size: 14 to 60mm² [Compatible with standard: 175A]



●Applicable crimp terminal



= With insulating cover

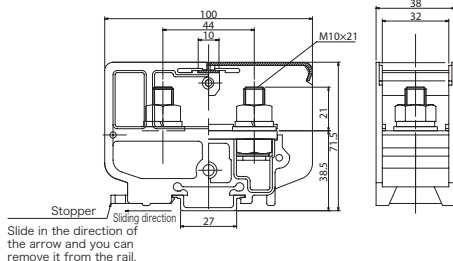
●Applicable accessories

End plate	TXE-60S
Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	TUC-40 1M

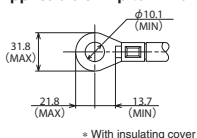
TX-100G

General IEC
250A 240A

Applicable wire size: 60 to 100mm² [Compatible with standard: 240A]



●Applicable crimp terminal



= With insulating cover

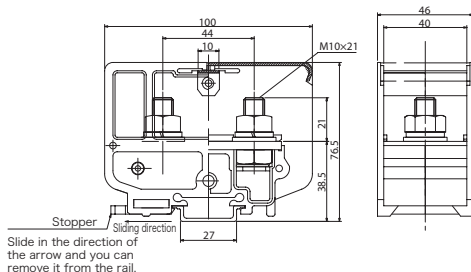
●Applicable accessories

Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	With TXC-100

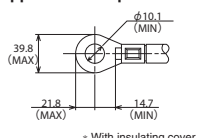
TX-150G

General IEC
310A 310A

Applicable wire size: 100 to 150mm²



●Applicable crimp terminal



= With insulating cover

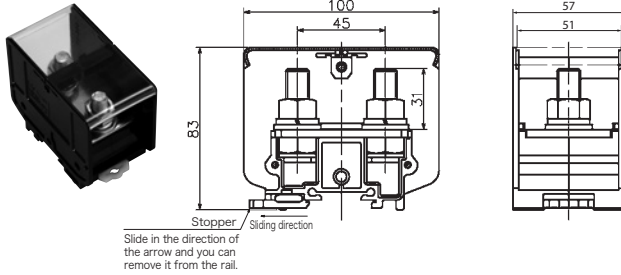
●Applicable accessories

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

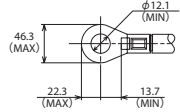
TX-200G

General IEC
400A 370A

Applicable wire size: 150 to 200mm² [Compatible with standard: 370A]



● Applicable crimp terminal



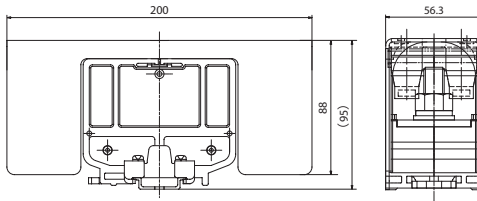
* With insulating cover

● Applicable accessories

Standard marker strip	TUM-2
Standard rail	TXB
End clamp	TXL
Cover	With TXC-200 TXC-200CV-L (Sold separately)*

* Even crimp terminals can be protected.

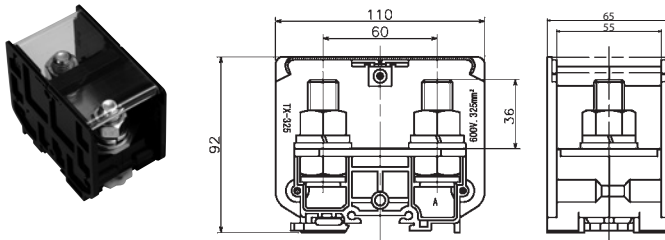
For protection up to crimp terminal



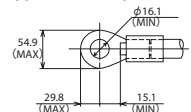
TX-325G

General
660A

Applicable wire size: 150 to 325mm²



● Applicable crimp terminal



* With insulating cover

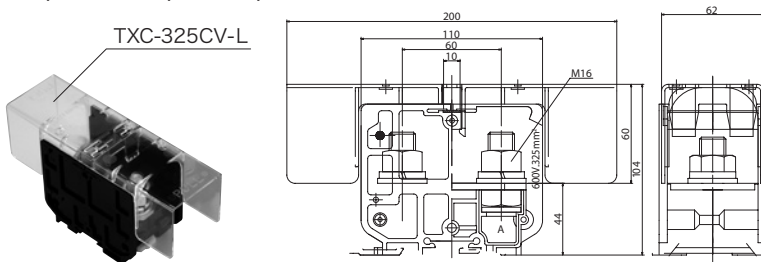
● Applicable accessories

Standard marker strip	TUM-2
Cover	With TXC-325 TXC-325 CV-L (Sold separately)*

TX-325G is intended for the shaft assembly method.

* Even crimp terminals can be protected.

For protection up to crimp terminal





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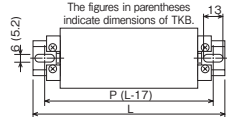
TX-□G TYPE

TABLE OF ASSEMBLED DIMENSIONS

■TXB-D type TX type assembly on punched rail

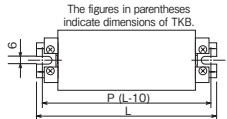
The assembled dimensions for the TKB-D (Reinforced rail) are the same as shown in the following table.
However, the rails are marked as KD-□.

Type Pole	TX-60SG			TX-100G			TX-150G			TX-200G		
	P	L	Rail	P	L	Rail	P	L	Rail	P	L	Rail
1	60	77	XD-4	60	77	XD-4	80	97	XD-5	80	97	XD-5
2	80	97	XD-5	100	117	XD-6	120	137	XD-7	140	157	XD-8
3	120	137	XD-7	140	157	XD-8	160	177	XD-9	200	217	XD-11
4	140	157	XD-8	180	197	XD-10	200	217	XD-11	260	277	XD-14
5	160	177	XD-9	220	237	XD-12	260	277	XD-14	320	337	XD-17
6	200	217	XD-11	260	277	XD-14	300	317	XD-16	360	377	XD-19
7	220	237	XD-12	300	317	XD-16	340	357	XD-18	420	437	XD-22
8	240	257	XD-13	340	357	XD-18	400	417	XD-21	480	497	XD-25
9	260	277	XD-14	360	377	XD-19	440	457	XD-23	540	557	XD-28
10	300	317	XD-16	400	417	XD-21	480	497	XD-25			
11	320	337	XD-17	440	457	XD-23	540	557	XD-28			
12	340	357	XD-18	480	497	XD-25	580	597	XD-30			
13	380	397	XD-20	520	537	XD-27						
14	400	417	XD-21	560	577	XD-29						
15	420	437	XD-22									
16	440	457	XD-23									
17	480	497	XD-25									
18	500	517	XD-26									
19	520	537	XD-27									
20	560	577	XD-29									



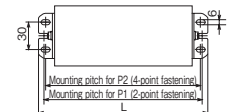
■TXB-F type TX type assembly on U-cut rail

Type Pole	TX-60SG			TX-100G			TX-150G			TX-200G		
	P	L	Rail	P	L	Rail	P	L	Rail	P	L	Rail
1	55	65	XF-65	60	70	XF-70	75	80	XF-80	80	90	XF-90
2	80	90	XF-90	100	110	XF-110	115	125	XF-125	135	145	XF-145
3	105	115	XF-115	135	145	XF-145	160	170	XF-170	195	205	XF-205
4	135	145	XF-145	175	185	XF-185	205	215	XF-215	250	260	XF-260
5	160	170	XF-170	210	220	XF-220	250	260	XF-260	305	315	XF-315
6	185	195	XF-195	250	260	XF-260	300	310	XF-310	365	375	XF-375
7	210	220	XF-220	290	300	XF-300	345	355	XF-355	420	430	XF-430
8	235	245	XF-245	325	335	XF-335	390	400	XF-400	480	490	XF-490
9	265	275	XF-275	365	375	XF-375	435	445	XF-445	535	545	XF-545
10	290	300	XF-300	400	410	XF-410	480	490	XF-490	590	600	XF-600
11	315	325	XF-325	440	450	XF-450	530	540	XF-540			
12	340	350	XF-350	480	490	XF-490	575	585	XF-585			
13	365	375	XF-375	515	525	XF-525						
14	395	405	XF-405	555	565	XF-565						
15	420	430	XF-430	590	600	XF-600						
16	445	455	XF-455									
17	470	480	XF-480									
18	495	505	XF-505									
19	525	535	XF-535									
20	550	560	XF-560									



■TXS type TX type with shaft

Type	TXS-60SG				TXS-100G			TXS-150G			TXS-200G			TXS-325G		
Pole	P1	P2	L		P1	P2	L	P1	P2	L	P1	P2	L	P1	P2	L
1	57	53	69		62	58	74	70	66	82	81	77	93	89	85	101
2	83	79	95		100	96	112	116	112	128	138	134	150	154	150	166
3	109	105	121		138	134	150	162	158	174	195	191	207	219	215	231
4	135	131	147		176	172	188	208	204	220	252	248	264	284	280	296
5	161	157	173		214	210	226	254	250	266	309	305	321			
6	187	183	199		252	248	264	300	296	312	366	362	378			
7	213	209	225		290	286	302	346	342	358	423	419	435			
8	239	235	251		328	324	340	392	388	404	480	476	492			
9	265	261	277		366	362	378	438	434	450	537	533	549			
10	291	287	303		404	400	416	484	480	496						
11	317	313	329		442	438	454	530	526	542						
12	343	339	355		480	476	492	576	572	588						
13	369	365	381		518	514	530									
14	395	391	407		556	552	568									
15	421	417	433													
16	447	443	459													
17	473	469	485													
18	499	495	511													
19	525	521	537													
20	551	547	563													
21	577	573	589													



ACCESSORIES

LIST OF APPLICABLE ACCESSORIES

Accessory Type	End plate	Cover	Marker strip	Marker strip case	Aluminum rail		End clamp	
					Applicable	Semi-applicable	Applicable	Semi-applicable
TX-60SG	TXE-60S	TUC-40 1M TUC-40 1M-V0	TUM-2	TUM marker strip case 1.0	TXB	TUB TKB	TXL	TUL TJL
TX-100G	-	TXC-100 TXC-100-V0						
TX-150G	-	TXC-150 TXC-150-V0						
TX-200G	-	TXC-200 TXC-200V0 TXC-200CV-L						
TX-325G	-	TXC-325 TXC-325-V0 TXC-325 CV-L						
					-	-	-	-

End plate

(Order unit: 100)

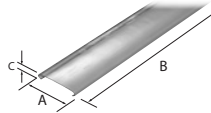


(TXE-60S)

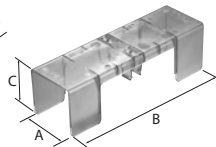
* The side plate is not required for TX-100G to TX-325G.

Cover

(Order unit: 20)



(TUC-40~TUC-325)



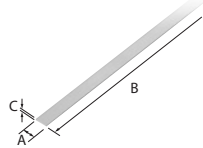
(TUC-200CV-L · TUC-325CV-L)

	TUC-40 1M TUC-40 1M-V0	TXC-100 TXC-100-V0	TXC-150 TXC-150-V0	TXC-200 TXC-200-V0	TXC-325 TXC-325-V0	TXC-200CV-L TXC-325CV-L	TXC-325CV-L
A	80	100	100	100	100	56.3	62
B	1000	34.8	42.8	53.8	59.5	200	200
C	7.5	6.8	6.8	6.8	6.8	88	60

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

Marker strip

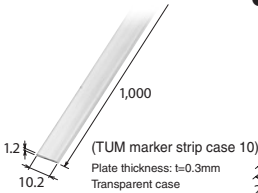
(Order unit: 100)



	TUM-2	TUM-2-0.5t
A	10	10
B	900	900
C	1	0.5

Marker strip case

(Order unit: 100)

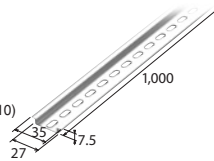


(TUM marker strip case 1.0)
Plate thickness: t=0.3mm
Transparent case

Aluminum rail

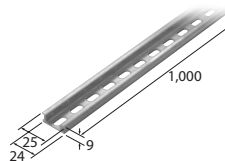
●TXB (DIN rail)

(Order unit: 50)



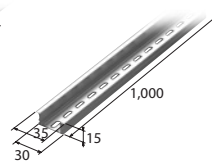
●TUB

(Order unit: 50)



●TKB (reinforced DIN rail)

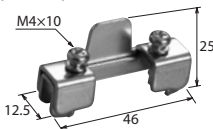
(Order unit: 20)



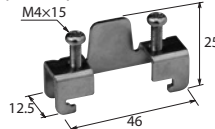
End clamp

(Order unit: 50)

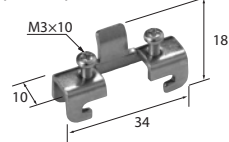
●TXL (for TXB)



●TJL (for TXB)



●TUL (for TUB)



Rail cap

Please see page C29 for rail cap.