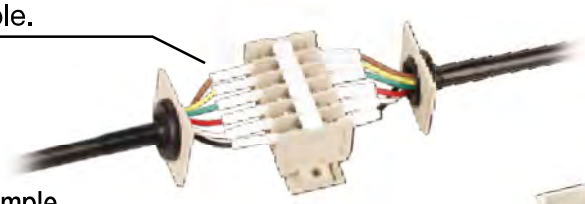
BOXTB Series

Oil Resistant | Chemical Resistant | RoHS Compliant

Removable partitions and terminal block

Wiring can be done before mounting inside the box as terminal blocks and partition plates are removable.



◆Cable Gland mounting example

Specifications

Rated voltage		AC,DC 600V
Rated current		20A (BOXTB-6AT20: 40A)
Insulation resistance		200MΩ or more (DC500V)
Withstand voltage		AC 2500V / min
Applicable wire		2.0㎟ / MAX (BOXTB-6AT20: 5.5㎟ / MAX)
Tightening torque	Terminal Screw	0.8～1.4N・m (BOXTB-6AT20: 1.2～1.8N・m)
	Lid	–
Protection Rating		–
Ambient temperature		–25°C～+100°C (No freezing and condensations)
Relative humidity		45%～85%

Materials

BOX main body	PBT (UL94V-0)
Lid	PBT (UL94V-0)
Gasket	–
Lid fixing screw	–
Coil spring	–
Nut	–
Hinge	–
Terminal block main body	PBT (UL94V-0)
Terminal Screw	SWCH (Zn+trivalent chromate-plating) M3.5×8L M4×7.5L
Conductive plate	Brass (Ni plating)
Grommet	EPDM

Chemical resistance

Liquid solution		Liquid solution	
Water	◎	Ethylene glycol	◎
Mineral oil	◎	Ester	△
Heating oil	○	Halogenated hydrocarbon	△
Gasoline	△	Phenol	×
Anti-corrosion oil	◎	Cresol	×
Vegetal oil	◎	Liquid ammonia	×
Acetone	△	Oxygenated water	○
Benzene	△	Weak acid	◎
Carbon tetrachloride	△	Strong acid	△
Alcohol	◎	Weak alkali	△
Acetic Ether	△	Strong alkali	×

◎…High resistance, and non-degrade
○…little change the weight, and usable according to condition
△…change the weight and dimension, but usable for a short time
×…It is difficult to use because of swelling and melting

BOXTB-4AT

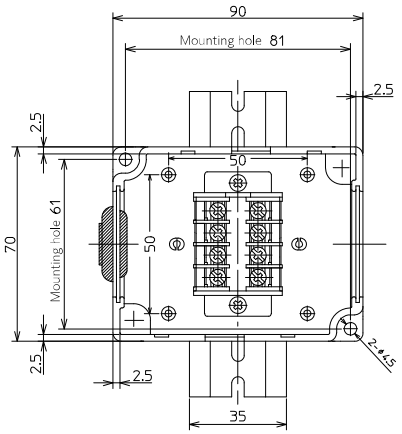
600V / 20A / 2㎟ [Screw size M3.5] / 4poles

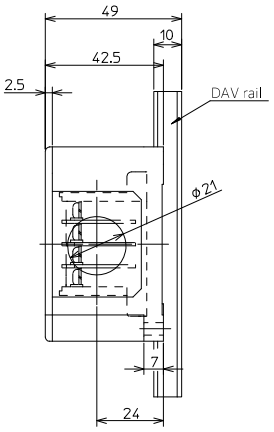
Weight: 147g
Sales lot: 1pc

■Applicable Short bar

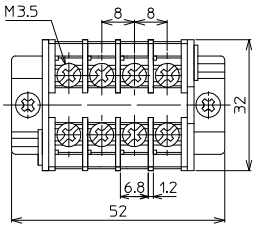
BB8A-2, 4 (see P.36)

■Dimension

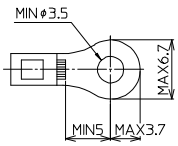




◆Terminal block : ATK-10G-4P
*Chemical / Oil / Heat resistance



■Applicable crimp terminal



BOXTB-6AT

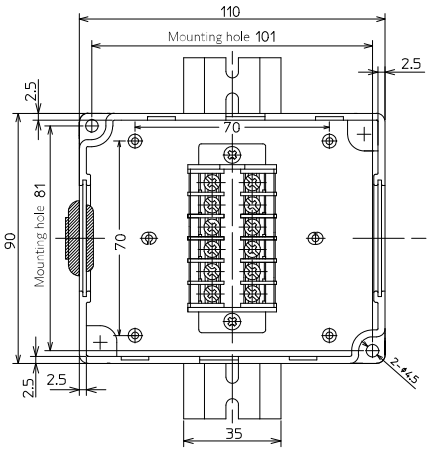
600V / 20A / 2㎟ [Screw size M3.5] / 6poles

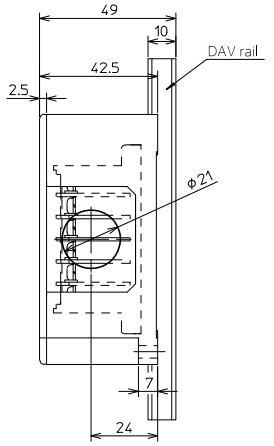
Weight: 203g
Sales lot: 1pc

■Applicable Short bar

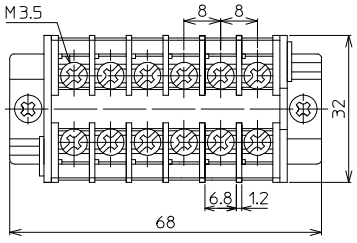
BB8A-2, 4, 6 (see P.36)

■Dimension

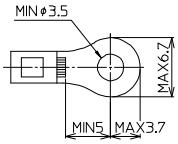




◆Terminal block : ATK-10G-6P
*Chemical / Oil / Heat resistance



■Applicable crimp terminal



BOXTB-8AT10

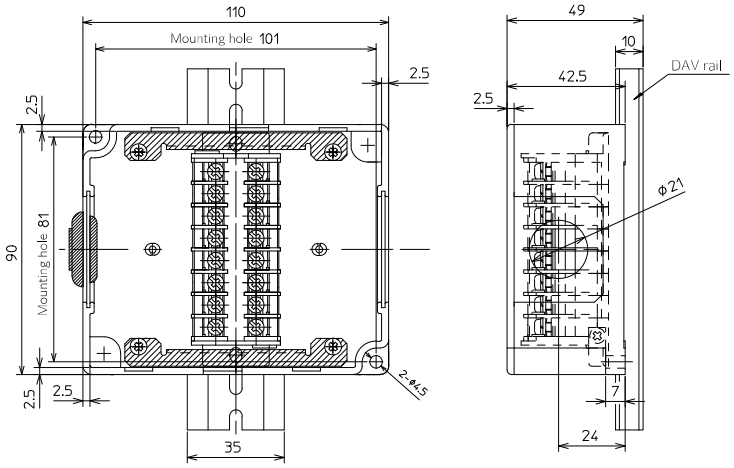
600V / 20A / 2㎟ [Screw size M3.5] / 8poles

Weight: 234g
Sales lot: 1pc

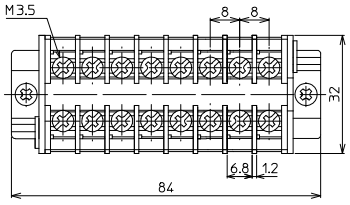
■Applicable Short bar

BB8A-2, 4, 6, 8 (see P.36)

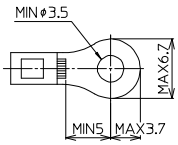
■Dimension



◆Terminal block : ATK-10G-8P
*Chemical / Oil / Heat resistance



■Applicable crimp terminal



BOXTB-6AT20

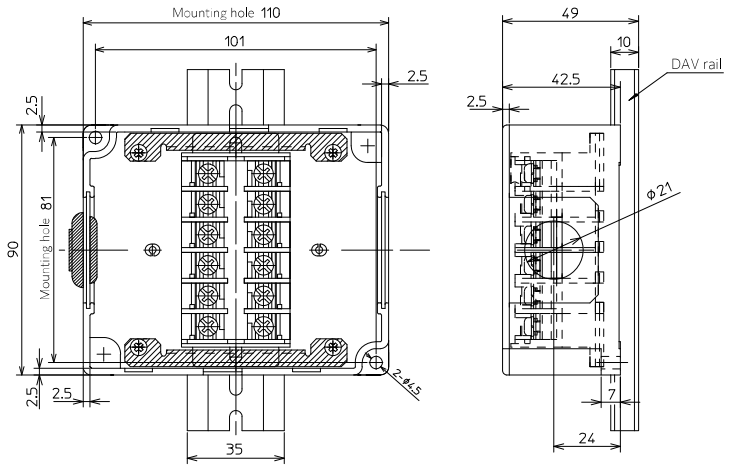
600V / 40A / 5.5㎟ [Screw size M4] / 6poles

Weight: 266g
Sales lot: 1pc

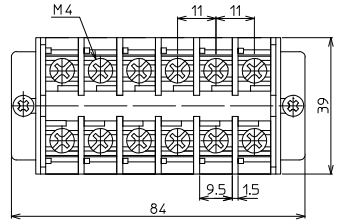
■Applicable Short bar

BB11-2, 4 (see P.41)

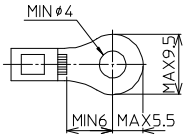
■Dimension



◆Terminal block : ATK-20G-6P
*Chemical / Oil / Heat resistance



■Applicable crimp terminal



Accessories

No-hole plate

SP-2

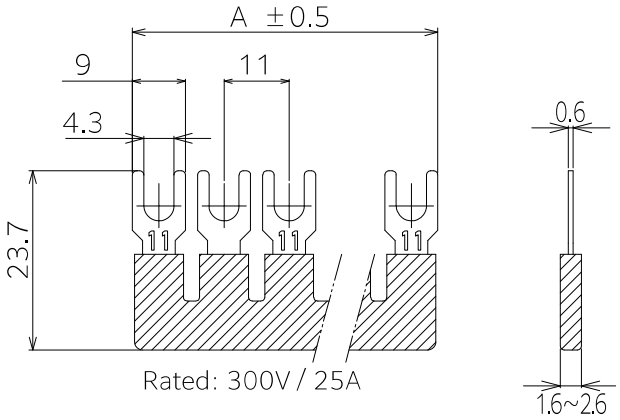
Sales lots: 10pc
Weight: Approx. 5g

Short bar

BB11-2

BB11-4

■Dimension



No. of poles	Part No.	A	Weight	Sales lot
2	BB11-2	14.5㎜	1.9g	10pcs
4	BB11-4	30.5㎜	4.0g	10pcs

Material : Copper alloy (Ni plating) , PVC

	Type of Terminal Block	Part No.	Rated	Mounting methods	
				Direct	IEC/DIN 35㎜ rail
BOXTS IP67  P.6		BOXTS-3 BOXTS-3A BOXTS-4 BOXTS-4A BOXTS-6 BOXTS-6A BOXTS-N BOXTS-NA BOXTS-N4 BOXTS-N4A BOXTS-N6 BOXTS-N6A	AC,DC 250V 15A(1.5㎟)	●	●
BOXTC IP67  P.12		BOXTC-4 BOXTC-4A BOXTC-6 BOXTC-6A	AC,DC 250V 15A(1.25㎟)	●	–
BOXTH IP67  P.14		BOXTH-1LB BOXTH-1LC BOXTH-1HB BOXTH-1HC BOXTH-2LB BOXTH-2LC BOXTH-2HB BOXTH-2HC BOXTH-3LB BOXTH-3LC BOXTH-3HB BOXTH-3HC BOXTH-1LB-A BOXTH-2LB-A BOXTH-3LB-A	AC,DC 600V 15A(2.0㎟)	●	●

□ : Only Box

	Type of Terminal Block	Part No.	Rated	Mounting methods	
				Direct	IEC/DIN 35㎜ rail
BOXTM IP67  P.24	 	**Direct mounting type** ※BOXTM-401 BOXTM-801 BOXTM-802 BOXTM-1001 BOXTM-1002 BOXTM-1003 BOXTM-2001 BOXTM-2002 BOXTM-2000 BOXTM-2003 **IEC/DIN 35㎜ rail mounting type** BOXTM-60L BOXTM-61L BOXTM-60H BOXTM-61H BOXTM-110L BOXTM-111L BOXTM-110H BOXTM-111H BOXTM-220L BOXTM-221L BOXTM-220H BOXTM-221H	※BOXTM-401 AC,DC 600V 20A(2.0㎟) AC,DC 600V 15A(2.0㎟)	●	●
BOXTB  P.38		BOXTB-4AT BOXTB-6AT BOXTB-8AT10 ※BOXTB-6AT20	AC,DC 600V 20A(2.0㎟) ※BOXTB-6AT20 AC,DC 600V 40A(5.5㎟)	●	●

: Only Box

Safe Use of TOGI BOX terminals

With the product handling, safety information, and all the precautions before mounting, using, servicing, or inspecting the products.

【WARNING】··· A warning notice indicates that neglecting the suggested procedure or practice could be fatal or result in serious personal injury.

【CAUTION】··· A caution notice indicates that neglecting the suggested procedure or practice could result in moderate or slight personal injury and/or property damage.

《BOX terminals》

WARNING

- Do not touch the terminals while the power supply voltage is being applied. Electrical shock may occur.
- When carrying out work, always ensure that the external power supply is cut off in all phases. Electrical shock may occur.
- Do not exceed the ratings. Doing so may cause damage or burn out.

CAUTION

- Do not install or store the product under abnormal conditions such as condensation, corrosive gases, vibrations or shocks outside of the general specification range. Doing so may cause burnout, damage or product deterioration.
- When using the product which has been stored for a long time, check the appearance and the condition of the packing and do not use if deformation, cracks, chips or dents are found. Doing so may cause electric shock due to water leakage.
- The duration of guarantee is limited to one year after purchase. If you use products more than one year, please use at your own risk.
- Terminal screws (Mounting screws) must be re-tightened regularly by following the specified torque. Using the product with loosen screws may cause burnout or short-circuit. Over-tightening of the screws may cause damage.
- Do not use damaged or deformed products, as may cause poor contact, burnout, short-circuit or electric shock.
- Select conductors and wire sizes suitable for the applied voltage and current. Using unsuitable conductors may cause burnout.
- Prevent foreign objects such as iron powder and wire scraps from entering the box and terminal block. Doing so may cause poor contact, burnout, short-circuit or damage.
- When tightening the lid, make sure that there is no dust on the packing. Otherwise, may result in electric shock due to water leakage.
- Follow the each product-specific precautions for mounting and demounting the product. Otherwise, product can be damaged.
- When using the product, ensure that an adequate insulation distance is maintained between adjacent poles and the surrounding area. Otherwise, may result in electric shock, burnout or short-circuit.
- Do not touch the conductive parts of the product directly. Doing so may cause an electric shock.
- Do not apply excessive force, such as dropping the product. Doing so may cause damage.
- Do not modify or disassemble the product. Doing so may cause damage.
- Installation, wiring, maintenance and inspection must be done by qualified personnel with specialist knowledge.