



PRODUCTS RELATED TO CONTROL CENTER

# KJ-K TYPE BUSBAR KEEPER

## FEATURES

- This product supports busbar and keeps insulation.
  - High-performance engineering plastic [modified PPE resin (G20%)] with high heat resistance is used. This material is lightweight and has excellent mechanical strength.
- This busbar keeper can be applied to 4mm and 5mm busbar with the attachments as well as 6mm.

## STANDARD PRODUCTS

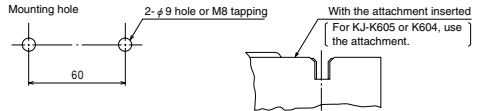
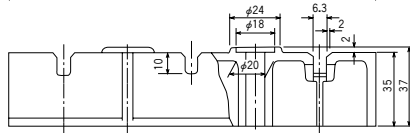
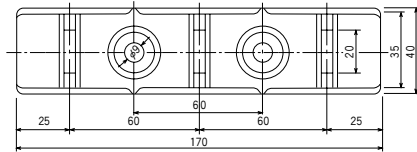
### KJ-K606 (Busbar thickness: 6mm)



### KJ-K605 (Busbar thickness: 5mm)



### KJ-K604 (Busbar thickness: 4mm)

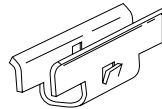


## ACCESSORIES

### Attachment

KJ-K4 attachment : for KJ-K604

KJ-K5 attachment : for KJ-K605



### Relation between short-circuit current and proper installation span (busbar keeper)

As mentioned earlier (E14), the electromagnetic repulsion and attracting force due to short-circuit current between A and B in the right figure is expressed by the following equation. To determine the safe and proper installation span  $l$  from the relation between this equation and the mechanical strength of the keeper, see the table below:

$$f = \frac{2}{9.81} \times I^2 \times l / r k \times 10^{-7} \text{ kg}$$

$i$  = Crest value of short-circuit current

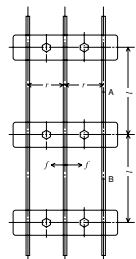
$k$  = Constant between 0.8 and 1.0 depending on shape and layout (Assume a safer value for  $l$ .)

$f$  = 800 kg based on breakdown test data and safety factor

$r$  = 60mm

r.m.s. value for short-circuit current	Proper span $l$ (max.)
50kA	150mm
40kA	230mm
30kA	420mm

Note: The above table disregards the strength of the bus itself.



A SWITCH

B PILOT LAMP & INDICATOR

C CONNECTING DEVICES

D ELECTRONIC DEVICES

E CONTROL CENTER PARTS