LINE SIDE SERIES (PRIMARY POWER DISCONNECT DEVICE)

YJ TYPE

This series has a completely new contactor structure.
A new mechanism has been developed to eliminate magnetic force generated at the contacting surface. This mechanism greatly improves the short-circuit current characteristics.

FEATURES

■Excellent contactor structure

A new mechanism has been developed to increase the mechanical strength of the bus against short-circuit current. The layout has been improved and the insulation bus that enables easy insulation between buses has been achieved. Thus, the short-circuit current characteristics have been improved greatly.

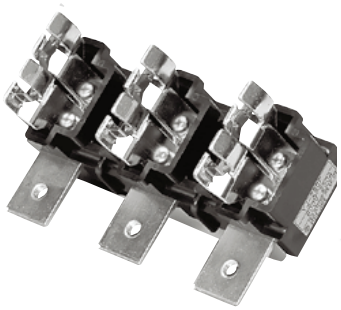
SPECIFICATIONS (RATINGS, PERFORMANCE)

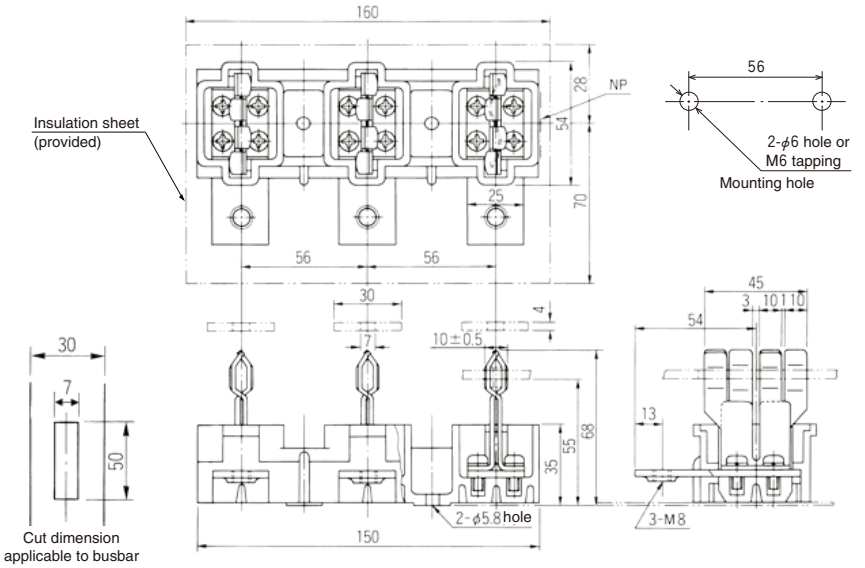
Type	YJ-250F
Rated insulation voltage (Ui)	600V
Rated current-carrying capacity (Ith)	250A
Weight	435g

STANDARD PRODUCTS

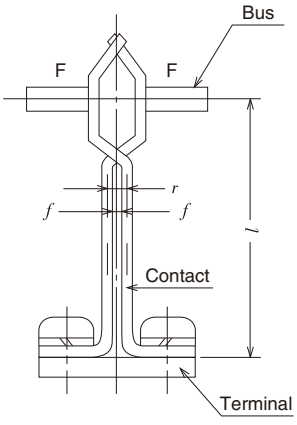
YJ-250F

– Front connection type –





■Relation between electromagnetic attracting force and repulsion of the contact of the YJ series.



In the left figure, electromagnetic repulsion **F** generated at the contacting surface when short-circuit current flows is offset by electromagnetic attracting force f generated at the parallel part.

The relation between F and f is expressed as follows:
$\mathbf{F} = 3.96 \times i^2 \times 10^{-8}$ kg ····· Repulsion
$f = 2.04 \times i^2 \times 10^{-8} \times l/r$ kg ····· Attracting force
Therefore, the condition of $\mathbf{F} < f$ is relevant to l/r.

From the above equation, the result shows that this contactor has sufficient l/r and that the attracting force is far greater than the repulsion.
i = Crest value of short-circuit current

⚠ **Precaution on use**

- An insulation sheet is provided as standard for use to secure the insulation distance from the panel surface. Be sure to use it when mounting this device.