

KAKKU DYNAMIC BRAKING RESISTORS SERIES KDBR

KAKKU dynamic braking resistors are designed for reliable service under heavy-duty operations.

SPECIAL FEATURES

- Each grid is of draw out type facilitating its quick replacement.
- The construction of resistance boxes is free from pressure joints between the grids.
- Negligible change in resistance value despite temperature variation due to low temperature co-efficient of fechrals.
- Proven design with long life, needing practically no maintenance.
- Temperature rise of resistance boxes is limited to 375°C above the ambient temperature of 50°C as per NEMA and relevant IPSS.
- Available in open execution or with enclosure conforming to IP-11, 23, 33 as per IS-2147, 1962.

TYPES OF RESISTANCE GRIDS

1. Fechrals / constantan wire Wound grids.

These are for low current values from 0.9A to 32 Amps. The grids are of Fechrals wire (or constantan wire or tape) wound on special ceramic insulators mounted on a steel frame.

2. Fechrals edge wound grids.

These are for higher current ratings. The grids of these boxes are manufactured from edge wound Fechrals strips mounted on special ceramic insulators supported on a steel frame.

3. Series KPS

These are punched steel grid type resistance boxes, manufactured with AISE 406 / 304.

CONSTRUCTION

Each grid is made from wire/ edge wound strips. The resistance coil is assembled with a set of insulators on a mounting steel frame such that there is no chance of the grid getting damaged due to vibrations. The ends of the edge wound coil of the grid are brazed with copper terminals from which tapping can be taken out.

TECHNICAL DATA

- Ambient temperature up to 50°C.
- Relative humidity up to 100 %. However, max. ambient temp. and max. relative humidity should not occur simultaneously.
- Suitable for max temperature rise of 275 / 375 deg cent.

INFORMATION REQUIRED

The following data is required for design of resistance boxes.

- Power (Kw)
- Resistance value
- Current rating
- Type of grid required.
- Degree of protection.
- Dimensions (if any).

OPTIONAL EXTRAS

- Degree of protection other than IP-23 for enclosed type of boxes.
- Any special dimension of open or enclosed type of Resistance boxes.
- Draw out type of resistance boxes for mounting on racks.

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Symbol Of Reliability