A Standard Alternative to Locally Manufactured Enclosures

Smartline Modular Enclosures

Contemporary, highly flexible modular enclosure system made through most modern manufacturing facilities for versatile applications. Ideally suited for Automation Control / Power Distribution and for Industrial Controls. As the name suggests the construction is fully modular and offers flexibility of flatpack shipment. There is a separate robust subframe, covered with Doors and Covers protected against ingress by highly resilient foamed-in PU gasket. The mounting plate is depth adjustable.

BCH ELECTRIC LIMITED
Top quality and economy characterise Smart Line TME

The bend profiles with extruded pattern hole is one of the core features of our Smart Line modular enclosure. It offers top quality combined with maximum useful internal space, unlimited assembly options due to slots and holes on a 25 mm DIN pitch pattern, does not require manual machining due to approximately 1000 M6 tapped extruded hole and 1000 round hole (for medium sized enclosures) where assembly work is required. No additional hardware or Cage Nut required for universal installation.

Superior Quality

- High corrosion protection.
- 10 Tank fully automated pretreatment process using spray jets and cascade rinsing with Tri-Cataionic Zinc Phosphating ensure high SST life and provides optimum corrosion protection and is a perfect solution for priming of steel surfaces.
- Used only Draw Quality CRCA & Electro galvanized steel.
- Structural profiles made of Electro Galvanized steel and then powder.
- PU foam Jointless Gasket coating.

Save Money

- Better product at a competitive price.
- Designed to house power distribution components and other electronics with flexibility of mounting a wide range of components and accessories.

Save Time

- Easy interior installation without any form of enclosure machining.
- Facilitating and accelerating interior installations with a comprehensive range of accessories with reduced time.
- Offering standard dimensions to cover many application fields.
- Immediate delivery range. Ex-stock availability of product.
- System solutions from a single partner.
### SmartLine TME advantage over locally fabricated enclosures

<table>
<thead>
<tr>
<th>SL. No.</th>
<th>Features</th>
<th>BCH Smart Line TME</th>
<th>Locally Fabricated Enclosures</th>
<th>BCH Smart Line Advantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Construction</td>
<td>Fully Modular Construction</td>
<td>Welded construction</td>
<td>Facilitates site modifications and baying of enclosure</td>
</tr>
<tr>
<td>2</td>
<td>Frame</td>
<td>2mm thick GPSP bent structure with corner blocks</td>
<td>Mostly manufactured out of L angle</td>
<td>Uniform diagonal accuracy.</td>
</tr>
<tr>
<td>3</td>
<td>Painting process</td>
<td>Fully automated 10 Tank spray type Pre-treatment + Tri- cationic Zinc Phosphating + Powder Coating</td>
<td>Only powder coating with conventional pre-treatment</td>
<td>Corrosion resistant and increased cabinet life</td>
</tr>
<tr>
<td>4</td>
<td>Gasketing</td>
<td>Polyurethane gasket</td>
<td>DPDM / Neoprene gasket changes its property due to temperature variation. The gasket becomes hard and brittle which results in failure of IP</td>
<td>Life of polyurethane is more when compared to EPDM / Neoprene gasket. There will be no deformation in the gasket which provides consistent IP rating over a period of time</td>
</tr>
<tr>
<td>5</td>
<td>Material</td>
<td>CRCA, D grade directly from the mills [TATA / POSCO]</td>
<td>HRPO from local market</td>
<td>Guarantee on the material grade and specifications</td>
</tr>
<tr>
<td>6</td>
<td>Availability</td>
<td>Mostly Ex - Stock</td>
<td>To be manufactured on receipt of order</td>
<td>Faster delivery</td>
</tr>
<tr>
<td>7</td>
<td>Accessories</td>
<td>Standard comprehensive range of accessories available ex - stock</td>
<td>Made to order on need basis</td>
<td>Faster delivery</td>
</tr>
<tr>
<td>8</td>
<td>Manufacturing Process</td>
<td>Automated process</td>
<td>Manually fabricated</td>
<td>Uniform quality</td>
</tr>
<tr>
<td>9</td>
<td>Service</td>
<td>National support through branches and dealer network</td>
<td>Only at manufacturing location</td>
<td>Ease of serviceability</td>
</tr>
<tr>
<td>10</td>
<td>Interchangeability</td>
<td>The doors, mounting plate, side panels, rear panels can be interchanged to any other cabinet of the same size</td>
<td>Restricted to the same cabinet due to fabricated parts</td>
<td>Faster assembly and uniformity</td>
</tr>
</tbody>
</table>
### Standard Available Sizes

<table>
<thead>
<tr>
<th>SL</th>
<th>Size of Enclosure (W x H x D in mm)</th>
<th>Cat. No.</th>
<th>Plinth</th>
<th>Cat. No.</th>
<th>Side Covers (Pair)</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>600 x 1800 x 500</td>
<td>SLE 061805</td>
<td>TPL 061805</td>
<td></td>
<td>SLSC 061805</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>800 x 1800 x 600</td>
<td>SLE 081806</td>
<td>TPL 081806</td>
<td></td>
<td>SLSC 081806</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>600 x 2000 x 600</td>
<td>SLE 062006</td>
<td>TPL 062006</td>
<td></td>
<td>SLSC 062006</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>800 x 2000 x 600</td>
<td>SLE 082006</td>
<td>TPL 082006</td>
<td></td>
<td>SLSC 082006</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1200 x 2000 x 600</td>
<td>SLE 122006</td>
<td>TPL122006</td>
<td></td>
<td>SLSC 122006</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>600 x 2000 x 800</td>
<td>SLE 062008</td>
<td>TPL 062008</td>
<td></td>
<td>SLSC 062008</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>800 x 2000 x 800</td>
<td>SLE 082008</td>
<td>TPL 082008</td>
<td></td>
<td>SLSC 082008</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1200 x 2000 x 800</td>
<td>SLE 122008</td>
<td>TPL 122008</td>
<td></td>
<td>SLSC 122008</td>
<td></td>
</tr>
</tbody>
</table>

### Enclosure Versions

1. With mounting plate and rear cover.
2. With mounting plate and rear door.
3. Without mounting plate and with rear cover.
4. Without mounting plate and with rear door.
High quality CRCA branded steel sheets

Removable Doors & Covers

Highly resilient foamed-in PU Gasket

3 Point Lock provided as standard

Paint Shop installed by Handon Machines with Powder Application System from ITW GEMA, Switzerland

100% MODULAR
The design incorporates user friendly features and accessories, viz.

- Adjustable support members.
- Removable doors and covers.
- Gland plate.
- Lifting eye bolts (lifting channel for extra wide enclosures).
- Baying kit (for joining adjacent enclosures).
- Wiring plan pocket.
- Modular plinth.
- Bolted stiffener for door.
- 3 point locking for doors.
- Possibility of offering Louvers with filters, Fans, Limit switch, Multipart mounting plate, AVM pads, and 19" angle adaptors etc.
- All along the internal sub frame, there is M6 tapping every 25mm that offers unmatched flexibility of site fixing of various accessories, supports, brackets, fittings, etc. without need of hole drilling.
Technical Particulars

- IP-54 degree of protection.
- Fabricated from CRCA/GPSP (frame made up of GPSP sheet, doors & covers made up of CRCA sheet).
- Modular construction.
- Mounting plate and cable entry plate made up of Galvanized steel [Unpainted].
- Plinth (optional) 100mm high fabricated from CRCA.
- Cable entry provision is given from Bottom as standard.
- Foam in PU gasket.
- Powder-coated to RAL 7035 structure finish.
- Hinge design allows 120 deg. Door opening.
- 3 point lock provided as standard.
- Door stiffener with provision of drilling holes for wiring harness.
- Side Covers Pair : consisting of 1no. LHS and 1no. RHS cover.

Note: Upto 800 mm width single door, 1200 mm width double leaf door

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**BCH ELECTRIC LIMITED**

an ISO 9001:2008 company, is today one of the leading manufacturers of low voltage electrical and electronic controls. It is a wholly owned Indian Company with a wide network of global business connections.

The company’s strong focus on customer satisfaction is reflected in its wide product range, catering to the requirements of customers in the electrical field. This includes Automation, Switchgear, Enclosures, Brakes and Crane Control Products.

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