



# BCH ELECTRIC LIMITED

## Industrial Enclosure



### Wall Mounted Boxes

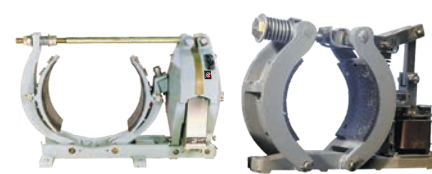
- Range : Size 200 x 200 x 150 to 1200 x 1400 x 400 (W\*H\*D) in mm
- 41 different variants / Standard sizes
- Upto IP-66 Version
- Available in MS Powder Coated & in SS-304 grade stainless steel.
- PU Jointless gasket
- LHS & RHS interchangeability of door
- Available with mounting plate & cable entry plate
- Single & Double door versions

## Industrial Products



### Plugs & Sockets

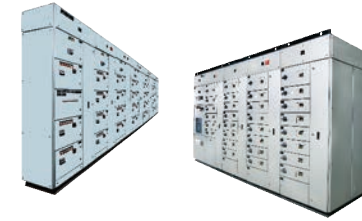
- 'DS' Decontactors: 5 Pin 16A, 32A, 63A, 125A, 415V : with Integral Switching Device, : IP 65 Protection
- Heavy Duty Metal P&S 'SS' Type: : Power-3/4/5 Pin 30A, 415V : Control - 12 Pin 12A, 415V
- Plastic P&S, 'PS' Type: 3/4/5 Pins 20A/32A, 415V
- Metal Clad P&S 'MP' & 'MS' Type: 3 Pins 20A, 250V & 4Pin 30A, 415V
- Plug & Socket Boxes available with all type of Plug & Sockets in universal & flush mounted



### DC & AC Brakes

- DC Shunt Brakes: Size 150mm-800mm & 8"-30" wheel dia : Braking Torque 8kgm-1242kgm
- DC Series Brakes: Size 200mm-600mm & 8"-23" wheel dia : Braking Torque 13.8kgm-555kgm : Half hour & one hour rating
- Fail safe operations
- Brake coil Epoxy filled Class F insulation
- AC Solenoid : Pull type -25mm & 31.4mm stroke length : Continuous & intermittent Duty
- AC Brakes : Brake size 4", 5.5", 7", 250mm : Braking Torque 13.6Nm-147Nm
- Neoprene shock absorber increases life of solenoid

## Custom Build Products



### Motor Control Center & Power Control Center

- Techno Modular Design with flexibility in construction, Fixed & withdrawable type in Single front & Double front execution upto form - 4B
- IP-54/55 design suitable for Indoor & Outdoor installation
- Bus Bar Rating up to 6300A with E91E grade Aluminium/ Electrolytic grade Copper Bus Bars
- Type tested for Short Circuit 4000A for 65 KA rms/1sec & 143KA peak fault withstand as per IS: 8623 & IEC:61439
- Type tested for Temperature rise 800A to 4000A from CPRI Bhopal as per IS: 8623 and IEC: 61439
- Intelligent motor control center with advanced IMC relays



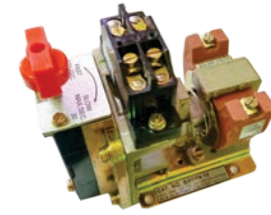
### Floor Standing Enclosure

- Available variants of standard panels: Complete Modular (TME) I Semi-modular (SME) Smartline TME I Multifold Variant (TEOS)
- Range: 600x1800x400 (WxHxD) in mm through 1200x2200x800 (WxHxD) in mm
- Different versions available such as rear door/rear cover with or without mounting plate
- Upto IP 55 degree of protection
- Powder coating in RAL-7035 shade followed by PU gasket
- Ideal for Special purpose machines, Control panels, Automation & instrumentation enclosures



### Limit Switches & Foot Switches

- Limit Switches:**
- Heavy Duty, Mini & Precision ranges of limit switches
- Conforms to IEC-60947-5-1
- Rugged & Reliable design
- Zinc Die Cast body - Heavy & Mini Limit Switch
- Oil tight, water tight & dust proof
- Wide range of operating heads
- Foot Switches:**
- Two & Three Positions
- 1NO+1NC/2NO+2NC/4NO+4NC contact blocks
- With & without latch options
- With 'Guard' & with 'Shield' versions



### KRTPN (Pneumatic Timer)

- 30 Sec/60Sec/180Sec
- AC & DC Supply
- PN Type- On Delay, PNI Type- On Delay+Instantaneous, PCN Type- On Delay+Off Delay
- 1NO+1NC/ 2NO+2NC contact blocks
- Completely maintainable i.e. coil, contact blocks and timing head can be replaced
- Special Timer for Railway application



### Power Receptacles

- Welding Receptacles (16A-125A) with MCB / RCCB/ RCBO/MCCB/Switch/SFU as incomer
- Also available with mechanical interlock between socket & switch such that plug can not be removed while switch is on
- Single / Multiple outlet boxes 16/20/32/63/125A rating
- Loop in Loop out facility
- Higher degree of Ingress Protection up to IP-65
- 10 Tank processed powder coated enclosure in CRCA sheet / Stainless Steel (SS-304)/GI Sheet Steel
- PU Gasket for excellent sealing against dust and water



### Compartmentalized Enclosure (MCC / PCC / PMCC)

- A truly modular system to enable you to assemble type tested Switchboard as Single / Double Front Indoor / Outdoor Type options both in Fixed & Drawout option
- Internal segregation up to Form 4b
- Type tested according to new standard IEC 61439-1
- Short circuit withstand strength up to 50 KA for 1 sec
- Absolutely Flexible: Progressive & last minute design changes can be accommodated easily with little or no cost impact
- Mounting Plate adjustable throughout the feeder compartment
- Upto IP-54 class
- Drawout feeder available from 200mm height (2SU) to 800mm height (8SU)



## BCH ELECTRIC LIMITED

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Corporate Office : 1105, New Delhi House, 27, Barakhamba Road, New Delhi - 110 001 Tel. : 91-11-23316029/3610/6539/43673100 Fax : 91-11-23715247

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Registered Office : Block 1E, 216, Acharya Jagadish Chandra Bose Road, Kolkata - 700 017

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Works 2 : 64-68, Sector-7, IIE, Pant Nagar, Rudrapur, Udham Singh Nagar - 263 153 (Uttarakhand) Tel. : 05944-250214/16 Fax : 05944-250215

### Sales Offices :

|                                  |                                  |  |   |                                |                                   |                                 |
|----------------------------------|----------------------------------|--|---|--------------------------------|-----------------------------------|---------------------------------|
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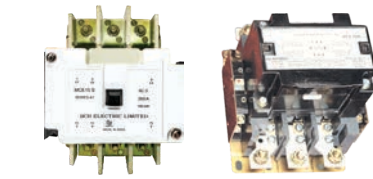
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Switchgear & Controlgear | Power Controls | Reactive Power Management | Enclosures

Brake & Crane Controls | Automation | Wires & Cables | Custom Build Products

## Controlgear Products



### AC Contactors

- Duros Freedom series**
  - Wide range: 6A to 1200A
  - Conforms to IEC60947-4-1/IS-13947-4-1
  - AC & DC Control Voltages
  - 3/4 Pole
  - Common Snap on accessories up to 75A
- Citation series**
  - Range: 32A, 40A, 70A
  - Conforms to IEC-158
  - 3 Pole
  - Wide terminal space for reliable & durable termination
  - Front open design for ease of inspection



### DC Contactors

- Range : 50A-600A at 600VDC
- Ready to use mechanically inter locked versions
- Normally closed versions available
- Hold on coil for time delay
- Mechanical life : 20 million operations
- Electrical life : 1 million operations



### Motor Starters & Submersible Pump Starters

- DOL Starters - range upto 40HP
- Star-Delta Starters - range upto 375HP
- 3-Ph Submersible Pump Starters range
  - DOL upto 32A relay range
  - Star-Delta upto 135A relay range
- 1-Ph Submersible Pump Starters - upto 32A relay range
- Oil Immersed DOL & Star Delta Starters
- Mini Manual Starters, 1-ph DOL, Auto start DOL
- Fully-Automatic & Semi-Automatic Versions available
- Protects motor from phase failure, phase reversal and phase imbalance
- Conforms to standard IEC 60947-4-1



### Air Circuit Breakers (ACB)

- Range: 800A to 6300A
- Icu=Ics=Icw(1Sec.) - 65kA to 100kA
- 3-Pole & 4-Pole
- Microprocessor based release with & without display
- 'Double Break' Main Contacts
- Unified dimensions - Same height & depth for entire range
- Zero clearance: Vertical stacking



### LT Power Capacitors - Cylindrical & Box Type

- Range: 1 kVAR to 50 kVAR
- MPP Cylindrical type - Normal & Heavy Duty
- MPP Box type-Normal & Heavy Duty
- APP Box type-Single layer, Heavy Duty
- SHDLL Box type-Super Heavy Duty (5 yrs. warranty)
- Rated Voltage (Vn): 440V/ 480V/525V
- Frequency : 50 (+/- 3%) Hz
- Insulation Voltage : 3kV AC
- Rated Temperature : 50° C



### Plug in Relays

- ARP series Plug in Relay**
  - 2 & 3 Changeover Universal relays-10Amp
  - 4 & 2 Changeover Miniature relays -6Amp, 12Amp
  - 12/24/48/110 VDC Coil Voltage
  - 12/24/48/110/230 VAC Coil Voltage
  - Mechanical indicators and test/latch button
- ASP series Plug in Relay**
  - 2 & 3 Changeover Universal relays-10Amp/5Amp
  - 2 & 4 Changeover Miniature relays -5Amp
  - 12/24/48/110 VDC Coil Voltage
  - 12/24/48/110/230 VAC Coil Voltage
  - Inbuilt Diode Protection for DC coil Relays



### Submersible Flat Cable & Wires

#### 3 Core Flat Cable

- Range 1.0-35sq mm
- Conforming to IS 694:2010
- Use of ETP copper conductor 99.98% purity
- Thick sheathed PVC / XLPE Insulated type cables available

#### Single & Multicore PVC cables

- Single core range : 0.50-300 sq mm
- Conforming to IS 694:2010
- Use of ETP copper conductor 99.98% purity
- Special PVC formulation for stress free insulation to ensure long life

#### FR & FRLSH Cables

- Range : 0.50-50 sq mm
- Superior flame retardant characteristics



### 4 Pole & 2 Pole Contactors

- 4 Pole Contactor ratings 12, 16, 20, 25, 32, & 40A
- 2 Pole Contactor ratings 12, 16, 20, 25, 32, & 40A
- Conforms to IEC60947-4-1
- Electrical endurance (AC3) : 1 Million Operations
- Encapsulated Coil for high withstand capacity
- Compact & Robust construction using high grade moulding
- Weld resistant Silver Alloy contacts
- Wide Band Coil options available
- Spare Coil and spare Contact Kit available



### Overload Relays

- Citation series**
  - Wide range: 0.195A to 600A
  - Built in single phasing protection
  - Ambient temperature compensated
  - Direct mounting & Separate mounting options
  - Class10
- Duros Freedom series**
  - Range: 0.1A to 32A
  - Built in Single Phasing Protection
  - Ambient temperature compensated
  - Class-10A
  - Direct & Separate mounting option



### Motor Protection Circuit Breaker (MPCB)

- Available in three models (MS, MPE & MPH Series)
  - Range: 0.1A to 32A
  - Conforms to IEC 60947-4, IEC 60947-2
  - Mechanical & Electrical Endurance : 1 lakh operations
  - Side mounting & top mounting aux. contacts
  - UV & Shunt release
  - Clear trip indication
  - Rotary Handle option in MPH range



### MCCBs (Moulded Case Circuit Breaker)

- Rating : 3Pole 10A-630A
- 3 Frame Sizes-100A, 250A, 630A
- Breaking Capacity : 10kA to 50kA
- Tested & Certified as per IS/IEC-60947-2
- Complete range with CE marking
- Ics = 100%, 75% and 50%
- Fixed and Variable Thermal Setting
- Suitable for Isolation
- Line load interchangeability
- \* Also available from Terasaki range 3/4P 10A-3200A, 10kA-200kA with Thermal Magnetic & Electronic Trip Unit



### Automatic Power Factor Controllers (APFC Relays)

- RG - T series:
  - 1 Phase Single CT version for balanced loads
    - 6, 8, 12 steps
  - RG3 - T series:
    - 3 phase, 3CT version for unbalanced loads
      - 8,12 steps
  - Connecting single phase & 3-phase capacitors
  - Compensation of each phase
  - Measures : A, V, cos-Ø, total W, Total VAR, total VA, total KWh, total KVARh



### Sensors

- Inductive Proximity Sensors**
  - Diameter - 4mm to 80mm
  - Switching distance .8mm to 40mm
  - Flush & Non Flush Version
  - AC 2 Wire DC 2, 3 & 4 Wire versions
- Capacitive Proximity**
  - Sensing distance up to 25mm
  - AC 2 Wire & DC 3 Wire & 4 Wire version
  - Sensitivity adjustment through multi turn potentiometer
- Photo Electric**
  - Cylindrical and rectangular type
  - Diffuse reflective, Retro reflective & thru beam
  - Emitter-Receiver
  - Sensing range: 50mm to 10mtr, AC & DC version



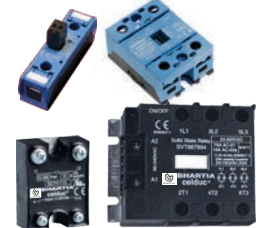
### Definite Purpose Contactors

- 20A to 40A
- 1Pole & 2Pole
- Quick connector terminals
- Wide band coil option
- Specially designed for air conditioning & refrigeration applications



### Electronic Overcurrent Relay (EOCR)

- Rating: 0.5 to 60 Amp (In-built CT)
- Microprocessor control
- Ammeter function through LED/Digital display
- Trip Class 10, 10A, 20 & 30
- Low power consumption
- High accuracy
- Din rail mounting/Panel mounting
- Selectable definite & indefinite time - current characteristics
- Ambience insensitive
- Low inventory



### Solid State Relay (SSR)

- Range: 12A to 125A
- Single phase and three phase SSR
- Slim SSR range (22.5mm) with current monitoring & temperature controller PID
- Input voltage 3V to 32VDC (Other voltages on request)
- High switching frequency and longer life
- Reliable and quite operation
- Compact size
- Low level output control possible without interfacing



### MCB (Miniature Circuit Breaker)

- Rating: 6A to 63A
- Poles: 1P/SPN/2P/3P/TPN/4P
- Tripping Curve B & C
- Conforms to IS/IEC-60898-1
- IP 20 Degree protection (Finger Proofed terminals)
- Breaking Capacity 10kA
- Impulse voltage withstand 4 KV
- Suitable for isolation
- Terminal Capacity 35 sq. mm (Cu)
- Possibility of bus bar termination at both ends



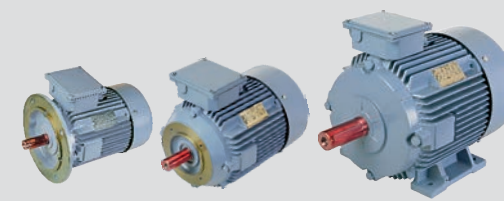
### Capacitor Switching Contactor

- Ideal solution for Switching single and multiple Capacitor banks upto \*25 KVAR
- Poles: 3P, 415V AC, 50Hz
- IP 20 protection
- \* Range will be extended very soon upto 60 KVAR



### Electronic Timers

- Timer Category
  - On Delay
  - Off Delay
  - Cyclic
  - Multifunction
  - Star Delta
- Timing range from 0.1 Sec to 10.0 Hours
- Widest Voltage range
- Large Calibrated dial for easy & accurate time setting
- Surface mounting & DIN rail mounting
- Special version Encapsulated timer for compressor /Pump application



### Motors

- IE2 & IE3 efficiency motors from 0.37 KW to 315KW
- Inverter duty Motors | Crane & Hoist application Motors | Brake Motors | Multi speed Motors | Cooling Tower-Oil immersed Motors

### 'AC/DC Drive & Soft Starter'

Please contact nearest Branch