



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



Floor Standing Enclosure

- Available variants of standard panels: Complete Modular (TME) | Semi-modular (SME) | Smartline TME | 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



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)

Industrial Products



Plugs & Sockets

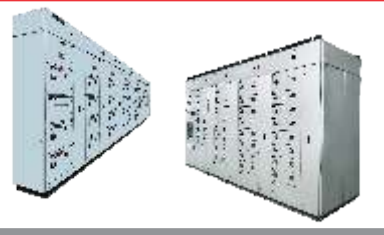
- 'DS' Decontactors: 5 Pin 16A, 32A, 63A, 125A, 415V : with Integral Switching Device, : IP 65 Protection
- Heavy Duty Metal P&S 'SS' Type: : Power-3/4/5 Pin 30A, 415V : Control - 12 Pin 12A, 415V
- Plastic P&S, 'PS' Type: 3/4/5 Pins 20A/32A, 415V
- Metal Clad P&S 'MP' & 'MS' Type: 3 Pins 20A, 250V & 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



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



BCH ELECTRIC LIMITED

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BCH ELECTRIC LIMITED



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



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



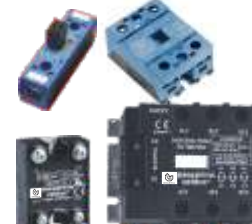
Definite Purpose Contactors

- 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

Power Distribution Products

Reactive Power Management

Automation Products



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



MCBs (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-φ, 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



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

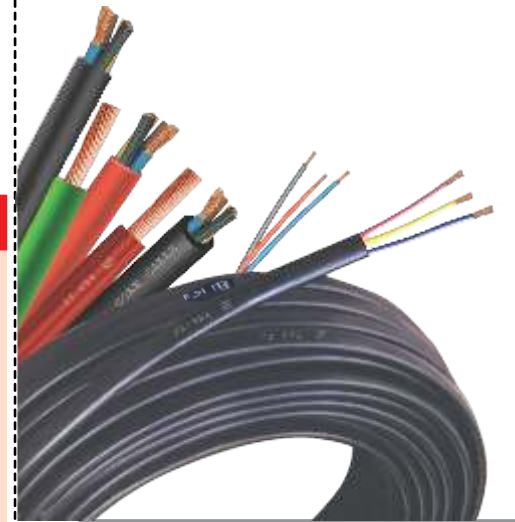
- Ideal solution for Switching single and multiple Capacitor banks upto *25 KVAR
- Poles: 3P, 415V AC, 50Hz
- IP 20 protection
- * Range will be extended very soon upto 60 KVAR



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

Wires & Cables



Submersible Flat Cable & Wires

3 Core Flat Cable

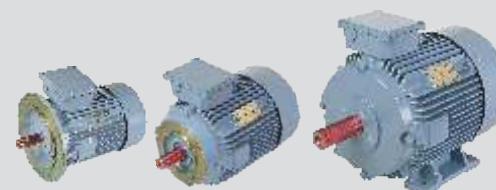
- Range 1.0-35sq mm
- Conforming to IS 694:2010
- Use of ETP copper conductor 99.98% purity
- Thick sheathed PVC / XLPE Insulated type cables available

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



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'

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