



Complete Range of Electrical Standard Products

About Us

L&T Electrical & Automation, part of multi-billion dollar Larsen & Toubro, designs, manufactures and markets low and medium voltage switchgear products, electrical systems, energy meters and automation solutions. Our wide range of products and solutions meet the power distribution and control needs of different industry segments, utility, infrastructure, buildings and homes.

In terms of performance, our products and solutions comprising Power Distribution Boards (Main Distribution Board, Sub Main Distribution Board and Final Distribution Board), Harmonics filters, Changeover systems and Drives are equipped with features that ensure quality and reliability of power and efficient management of energy.

Our switchgear components like air circuit breakers, switch disconnecter fuses, moulded case circuit breakers, contactors, relays, starters and fuses seamlessly fit into the circuit for ensuring smooth distribution. In addition, we offer modular devices, switches and integrated automation solutions for commercial buildings, residential complexes and individual homes.

More than five decades of experience in in-house design and development of switchgear as well as a comprehensive tooling facility support the introduction of high quality products. Our products are rigorously tested for their functionality and performance at internationally recognised laboratories and test facilities that open the doors to international markets. Our products are certified by international agencies like ASTA (Intertek), KEMA (Dekra), CE, UL and BIS.

Customers' needs are accorded highest importance in the evolution and design of products with latest tools and techniques that set new norms in quality standards. Over the last 50 years, we have established strong engineering capability and set up facilities and offices closer to the customer. L&T Electrical & Automation operates seven factories in UAE, Saudi Arabia, UK, Australia and South East Asia and six in India.

Cost competitiveness, responsive service teams and respect for time lines make the difference in our association with customers. L&T promotes a culture of innovation that facilitates breaking new grounds in technology, creation of intellectual property and delight for customers. L&T Electrical & Automation practices sustainability principles and works for environment upkeep and social causes.



Our Facilities

INDIA



Ahmednagar



Coimbatore



Mysore



Navi Mumbai



Vadodara

OVERSEAS



Dammam, KSA



Henikwon, Malaysia



Jebel Ali, UAE



Servowatch, UK

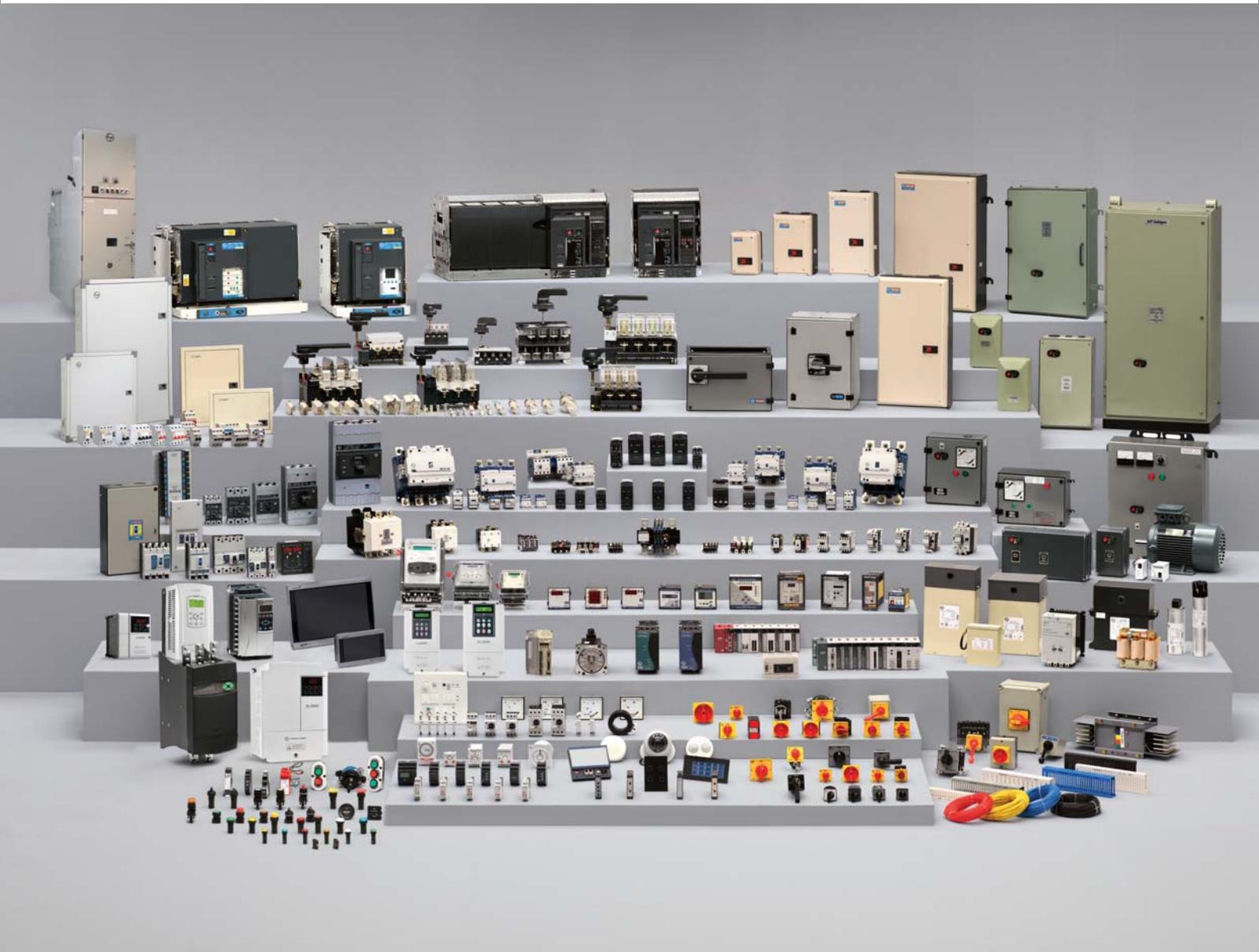


Tamco, Indonesia

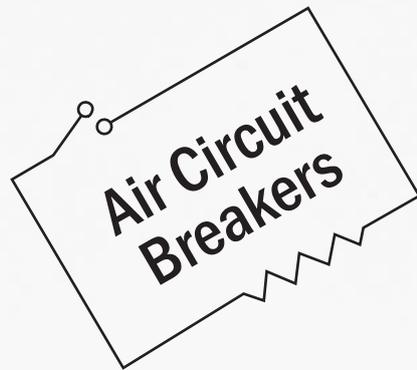


Tamco, Malaysia

A complete range of Electrical Standard Products



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U-POWER
OMEGA
 Air Circuit Breakers

- 400A to 6300A in three optimized frame sizes
- Standard 100% neutral rating, 50% and 200% neutral ratings available
- Common height and depth across the range
- Suitable for direct termination of copper and aluminum links
- No derating till 70 degree Celsius
- Unique arc chute interlocking prevents breaker closing when arc chute is missing
- Smart racking shutter ensures total safety in racking operations
- Unique pole design ensures energy saving through low watt loss
- Independent locking of ON / OFF buttons
- Tool-less fixing of voltmetric releases
- Display of complete accessory information on front facia
- Conforms to IS/IEC 60947-2 & IEC 60947-2

Matrix Releases

- Unique OLED display for metering
- Metering for current, % loading, voltage, power, energy, PF, frequency & THD
- Modular design provides flexibility in selection of features
- Touch screen interface for setting parameter in UW-MTX 4.5 version & graphical display
- Event & trip history recording
- Data communications through Modbus, Profibus & Zigbee protocol
- Smart-card for quick parameterisation of protection releases
- Possible to integrate with any Energy Management System
- Protection against EF & REF
- DIN rail mountable modules for advance protections like REF, Temp. monitoring, TCS, etc.
- Conforms to EMI/EMC standards

POWERMAN

- Manage different types of loads like: electricity, water, gas, steam
- Comprehensive solution for protection and power management
- Customized single line diagram of power system
- Integrates all communicable L&T products viz. ACBs, meters and PLCs
- Intuitive web-based Graphical User Interface (GUI)
- Remote real-time monitoring and data acquisition
- Comprehensive reporting and alarm management
- Real-time and historical trending
- Multi-level password protection
- 'N' number of devices can be connected using existing LAN/WAN network
- Helps in saving energy



Air Circuit Breakers

C-POWER

- Comprehensive range: 400A to 6300A
- $I_{cs}=I_{cu}=I_{cw}$ (for 1 sec) across the complete range for total selectivity / discrimination
- Proven track record of over 350,000 installations in 40 years
- High mechanical and electrical life
- Elegant design and rugged construction
- Suitable for direct termination of copper and aluminum links
- In-built mechanical anti-pumping feature
- Distinct 'maintenance' position in draw-out ACBs
- CE marking for the complete range
- Conforms to IS/IEC 60947-2 & IEC 60947-2



C-POWER S1 Range

- 630A to 3200A in two frame sizes in draw-out version
- $I_{cs}=I_{cu}=I_{cw}$ (for 1 sec) across the complete range for total selectivity
- High mechanical and electrical life
- Elegant design and rugged construction
- Suitable for direct termination of copper & aluminum
- In-built mechanical anti-pumping feature
- Distinct 'maintenance' position in draw-out ACBs
- CE marked for the complete range
- Common depth & height across the range
- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Common accessories with C-POWER



Protection Release

Comprehensive range of micro-processor based protection and control units with true-RMS sensing, self-powered protections, fault annunciation & communication capabilities. Conforms to EMI / EMC standards.

SR71 - Offers comprehensive protection for overload, Short circuit, Instantaneous, Earth fault and Neutral overload, Power metering, Communication & other advanced features along with ZSI.

SR18Gi with display - Overload, Short circuit, Instantaneous and Earth fault protection with zone-selective interlocking (ZSI).

SR18/18G with display - Overload, Short circuit, Instantaneous and Earth fault protection.

DN1 - Overload, Short circuit, Earth fault (As optional).



Moulded Case Circuit Breakers

d sine MCCBs

- Comprehensive range : 20A to 1250A, 3P/4P
- Breaking capacities : 25kA/36kA/50kA/70kA/100kA
- Confirms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- DEKRA certified
- Protection releases : Microprocessor, Thermal-magnetic & Magnetic based
- Solution for DC application
- Solution for total selectivity
- Solution for high voltage application with high breaking capacity
- Ergonomic design
- User friendly features
- Wide range of internal-snap fit & external accessories

Motor Backup Protection Version

- Only magnetic protection
- Type 2 charts available for DOL & Star-Delta starters for breaking capacity 50kA

Switch Disconnecter Version

- For switching purpose

d sine Protection Releases

Thermal Magnetic Release

- Adjustable overload settings
- Fixed/Adjustable short circuit settings
- True RMS sensing

Microprocessor Based Releases

- **MTX 1.0/2.0**
 - LSI/LSING protection
 - Adjustable protections with time delay
 - Adjustable trip class
 - Provision of thermal memory defeat
 - Overload Indication through LED
 - Panel mounted OLED display for current metering & trip record
 - Self powered
 - True RMS sensing
- **MTX 3.0**
 - LSING protection with advanced features
 - All features of MTX2.0
 - Communication capable through MODBUS
 - Comprehensive Current/Voltage/Power/Energy/THD/PF/Freq/MD metering
 - Trip record & Event record

DU MCCBs

- Comprehensive range : 16A to 400A, 1P/2P/3P/4P
- Breaking capacities : 10 / 18 / 25 / 36 / 50 kA
- Confirms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- Thermal magnetic release with adjustable & fixed overload setting
- Ergonomic design
- User friendly features
- Compact in size
- Internal & External accessories



Switch Disconnect Fuses

Switch-Disconnect- Fuse & Switch- Disconnect

- Ratings: 32A to 800A, 415V, utilization category AC 23A
- CE marking and Conformance to IEC 60947-3, IS/IEC 60947-3
- Quad break electro dynamically compensated contact system
- Suitable for copper and aluminium terminations
- High clearance and creepage distances
- Suitable for vertical & horizontal installations
- Versatile handle with door interlock & padlock facility
- Positive isolation of fuses & clear ON/OFF indication

FN S-D-F / S-D

- Variants : 2P / 3P / TPN
- Available in interior / sheet steel enclosure version
- Suitable for cylindrical / DIN / Bolted fuse-link

FNX S-D-F

- Variants : TPN / 4P
- Suitable for cylindrical & DIN fuse-link
- Stepless telescopic shaft for depth adjustment
- DIN rail mounting up to 125A



High Rupturing Capacity Fuses

DIN Fuses: Type HN

- Ratings: 63A to 800A
- High breaking capacity (100kA)
- Low watt loss
- Low let-through energy
- Immediate fault indication
- Size: 000 to 3

Cylindrical Fuses: Type HF

- Ratings: 2A to 63A
- High breaking capacity (80kA)
- Low watt loss
- Immediate fault indication

Bolted Fuses: Type HG

- Ratings: 2A to 32A
- High breaking capacity (80kA)

Bolted Fuses: Type HQ

- Ratings: 2A to 630A
- High breaking capacity (80kA)

Accessories

- Fuse base
- Fuse pulling handle



Changeover Switches

Type - C-Line

- Ratings: 63A to 2000A
- Available in 6 frame sizes
- AC 23A rating for complete range
- Available in open execution, in SS enclosure, fused & motorized versions
- Spacious SS enclosure doesn't need separate cable gland box
- Electro-dynamically compensated contact system
- Higher withstand capacity
- Higher electrical & mechanical life
- Suitable for aluminum termination
- Staggered terminals for ease in termination
- Unique flippable handle above 250A
- Dual operating position (Center/side)
- No load line bias
- Excellent aesthetics
- Complete safety: Terminal shroud, phase barriers & source separator provided as standard
- Site mountable fuse conversion kit
- Plug and play accessories available for motorized version

Accessories & spares

- Handle
- Auxiliary contacts
- Fuse conversion kit
- Castel lock
- EOM version



Contactor and Thermal Overload Relays

M-line

Power Contactors Type MNX

- Ratings: 9A to 650A AC-3
- Available in six frame sizes
- Easy inspection and replacement of coils and contacts
- Front ON / OFF indication
- Entire range UL certified
- Operating band from 65% to 120% up to 32A
- Conforms to IEC 60947-4-1 and IS/IEC 60947-4-1

Special Features of 9A - 40A Contactors

- Snap fit construction
- Finger-proof terminals
- Common coil for entire range

Accessories

- Add-on auxiliary contact block
- Surge suppressor
- Mechanical interlock kit

Thermal Overload Relays Type RTX & MN

- Ratings: RTX Relay 0.23A-41A
MN Relay 0.2A-570A
- Inbuilt single phasing protection
- Suitable for direct/separate mounting
- Built-in 'START' and 'OFF / RESET' push buttons
- Auto and manual reset modes
- Ambient temperature compensation: -5°C to +55°C
- Electrically separate NO contact
- Conformance to IEC 60947-4-1 and IS/IEC 60947-4-1

Accessories

- Push button unit
- Relay mounting kit
- Mechanical reset cord

Mini Contactors Type MX

- Suitable for both control & power applications
- AC/DC versions available
- Front ON / OFF mechanical indication
- Base and DIN rail mounting facility
- Finger proof terminals
- Built-in surge suppressor for DC contactors
- Direct mounting of overload relays
- Wide range of accessories
- Conforms to IEC 60947-4-1, IS/IEC 60947-4-1 standards



Contactors and Thermal Overload Relays

Definite Purpose Contactors

Power Contactors Type MO

- Ratings: 9A to 110A AC-3
- Available in four frame sizes
- Compact dimensions saving panel space
- Inbuilt surge suppresser
- Terminal shrouds for power terminals
- DIN rail mounting facility up to 110A
- Lug less termination for frame 2&3
- Low VA consumption
- Box clamp termination for frame 2&3
- RoHS compliant
- Conforms to IEC 60947-4-1 & IS/IEC 60947-4-1

Accessories

- Add on auxiliary contact blocks
- Mechanical Interlock kit

Thermal Overload Relay Type RTO

- Ratings: 0.23A - 110A
- Phase failure sensitive
- Visual status indication
- Sealable transparent cover
- Auto/manual reset function
- Ambient temperature compensated
- Conforms to IEC 60947-4-1 & IS/IEC 60947-4-1

Accessories

- Mounting adaptor for separate mounting

Capacitor Duty Contactors Type MO C

- Ratings: 5 to 80 kVA
- Available in three frame sizes
- De-latching auxiliary contacts improves switching performance
- Dual contact gap for auxiliary contacts
- Encapsulated resistor assembly ensures safety
- Separate terminations of damping resistors for enhanced operational reliability
- Inbuilt surge suppresser
- Wide and chatter free operation band
- Low VA consumption
- Standardized accessories
- Conforms to IEC 60947-4-1 & IS/IEC 60947-4-1



Definite Purpose Contactors

Starters

Power Contactors Type MDX (DC Coil)

- Ratings : 9A to 110A AC-3
- Available in three frame sizes
- Low VA consumption with permanent magnet design
- In built surge suppressor for MDX 9-38
- Conforms to IEC 60947-4-1 and IS/IEC 60947-4-1

Accessories

- Add on auxiliary contact blocks
- Surge suppressor
- Mechanical Interlock kit

4 Pole Contactors Type MCX

- Ratings: 16A to 800A (AC1 duty)
- Suitable for Genset applications
- Available in five frame sizes and twenty one current ratings
- Alpha-numeric terminal marking
- Conforms to IEC 60947-4-1, IS/IEC 60947-4-1 standards
- Wide operating band up to 100A AC1

Type MN

- Excellent aesthetics
- Flush mounted push buttons
- Built in single phase protection relay
- Suitable for rural and industrial motor application
- Enclosures with IP54 degree of protection
- Lockable push button
- Terminal block for ease of termination
- Copper and aluminum terminations possible
- Conforms to IEC 60947-4-1 and IS/IEC 60947-4-1 standards

Direct-On-Line Starters

- Suitable for motors up to 45 hp
- Wide band of operating voltage
- Wide range of relay settings and coil voltages

Star-Delta Starters

- Suitable for 10 hp to 400 hp motors
- Base plate mounting with rubber gasket makes the starter assembly vibration proof
- Available in fully automatic version
- Electronic timers in fully automatic starters for high repeat accuracy



Starters & Controllers

MK1 Starters

- Manufacturing since 1960s
- Comprises of Direct-On-Line and Star-Delta starters
- Range : Direct-On-Line - 0.5 hp to 7.5 hp and Star-Delta - 6 hp to 15 hp
- Field proven and accepted product
- Reliable overload protection through thermal relay unit
- Operating voltage from 55% to 110% of rated voltage
- Wide range of spares available



MU-G Controllers

- Complete protection to water pump
- Auto start feature on power restoration
- Quick protection against Single Phasing condition
- Adjustable ON delay time for starting the pump after restoration of the power
- Unique Dual Meter - Voltage & Ampere reading in one meter
- Range - 3 hp to 75 hp



M-POWER

- GSM based module for L&T starters & controllers
- Operates starters & controllers from remote location according to the required time
- User can control starter & controller through his mobile
- Suitable for single phase and three phase application
- User gets feedback of every event occurred on starter or controller
- Daily timer mode operates the starter or controller at a set time everyday
- Pump can be kept ON for a particular time period and M-POWER will automatically turn OFF after the set time by the user



**Main
Distribution
Board**

**Sub-Main
Distribution
Board**

**Final
Distribution
Board**

Tripaper®

Distribution Boards

- Available in aesthetically superior ivory colour to suit the interiors of buildings and can be supplied in different colour for bulk requirements
- Available in SPN, TPN and VTPN range
- Available in IP30 (single door) & IP43 (double door) degree of protection
- Distribution boards are suitable for flush and surface mounting
- Ready to use DBs - provided with wire set, earth & neutral bars
- SPN & TPN DBs are supplied with 100A insulated busbar
- VTPN DBs are available with 125A & 250A insulated busbar pan assembly
- Provided with removable top and bottom gland plates with adequate knockout for easy wiring
- Easy installation and flexibility in usage

ENERSYS-M

- Design verified assembly as per latest IEC 61439-1 & 2
- Compliance to local utility regulations
- Rating up to 4000A
- Stringent fault withstand capacity up to 50 kA for 3s
- Ingress Protection up to IP54
- Highest internal separation up to form 4B
- Trusted and reliable switchgear for Enersys-M System

ENERSYS-S

- Ready to use solution for power distribution
- Compliance to global standard - IEC 61439-1&2
- Compliance to local utility regulations
- Rating up to 400A
- Withstand capacity up to 36kA for 1s
- Higher ingress protection up to IP43
- Finger proofing to avoid accidental touch
- Choice of number of outgoing ways of 4, 8 & 12
- Compact design with Modular construction
- Metering & cabling extensions are available as add-ons



Modular Devices



Miniature Circuit Breaker

- Specially designed & developed for residential, commercial & industrial installations
- Conforms to global standard EN/IEC 60898
- Two position DIN rail clip
- Breaking capacity - 6kA & 10kA
- Available in B, C & D curves in SP, DP, TP & FP versions from 6A to 63A
- Unique-True contact indication shows actual status of contact
- Low power loss - almost 50% of the values prescribed by IEC
- Finger Proof IP20 Terminals, suitable up to 35sq. mm wire, with provision for dual termination
- No line-load bias
- Suitable for Isolation
- KEMA tested
- Carries CE marking



Isolator

- Conforms to global standard EN/IEC 60947-3
- Available in range of 40A to 100A in DP, TP and FP versions
- Suitable for AC-22 utilization category
- Finger proof terminals-IP20 degree of protection
- Ergonomically designed, profiled for superior cooling and manufactured with fire retardant material
- Carries CE marking and KEMA tested



Earth Leakage + Miniature Circuit Breaker (EL+MCB)

- Provides 3 in 1 protection against earth leakage, short circuit and overload
- Conforms to global standard like EN/IEC 61009-1
- Available in DP & FP versions in the range of 6A to 63A with 30mA, 100mA and 300mA sensitivity
- Truly current operated, operates even at nominal 4V₀
- Featured with neutral advance mechanism
- Operation even in case of neutral failure
- Carries CE marking

Residual Current Circuit Breakers (RCCBs)

- Provides protection against electric shocks & earth leakage
- Available in DP and FP versions in 25A to 100A with 30mA, 100mA and 300mA sensitivity
- Conforms to IEC 61008-1



Busbar Trunking System

Busbar Trunking System

- Sandwich busbar trunking system:
 - 400A to 6300A current capacity
 - Epoxy compound Insulated
- Conventional busbar trunking system:
 - 100A to 400A current capacity
 - Air-insulated
- Medium voltage busbar trunking system:
 - 400A to 5000A current capacity
 - Air-insulated
- Conductor material:
High conductivity Cu/Al
- Ingress protection: IP54, IP55, IP65, IP67
- Configuration of 3P3W/3P4W/3P5W with or without integral earth
- Halogen free, fire retardant epoxy compound insulation for sandwich busducts. Flame propagation test certified by ASTA
- Design ambient temperature 50°C
- Tap - off units are provided for MCCBs or SDFs or MCBs
- Available as feeder for power transmission and plug-in for power distribution
- Standard lengths of 3m/2m/1m up to 0.5m
- Excellent short circuit ratings (up to 100kA)
- System primarily consists of components such as straight length, end flange, end feed unit, tap off units, bends, fixing clips, etc



Power Quality Solutions

Power Factor Correction Capacitors

LTXL Capacitors

- Ultra heavy duty (Box type) - 5 to 100 kVAR

MPPH Capacitors

- Heavy duty (Box type) - 5 to 50 kVAR
- Heavy duty gas filled (Cylindrical type) - 3 to 25 kVAR

MPPS Capacitors

- Standard duty (Agri duty, Box and Cylindrical type) - 1 to 30 kVAR

Harmonic Mitigation Devices

- Reactors 7%, 14% and custom designed also available in Al & Cu winding
- Detuned filter units in various ratings-5, 10, 15, 20, 25, 50, 100 kVAR

Thyristor Switching Module

- Range available: for 10 kVAR, 25 kVAR and 50 kVAR

Automatic Power Factor Correction (APFC) Solutions for variable loads

- etaSYS - Standard APFC panel with power factor correction capacitors (35-500 kVAR)
- etaSYS - Standard APFC panel with Harmonic filters & thyristor switches (35-500 kVAR)
- Custom design APFC panels are also available for other ratings



Rotary Switches

Rotary Switches

- Ratings: AC: 6A - 800A
DC: 16A - 500A
- Standard and customized switches
- Suitable for AC/DC applications
- Break before make / Make before break type switches
- Flexibility of operating positions and switching angles
- Multistep programming switches
- Padlocking switches for safety

Types available

- AC switches (series S, TP and RT)
- AC/DC switches (series D)
- Spring return switches

Applications

- Isolator
- Changeover switches
- Multi-step switches
- Gang switches
- Selector switches
- Control switches
- Motor switches



LB Switches

Load Break Switches

- Ratings: LB : 25A-125A
EB Gen C/O : 16A-125A
- Double break contacts
- Polycarbonate shroud for wired terminal protection is included
- Excellent switching and high short circuit capacity
- Compact and reliable
- Easy installation
- Add-on main/neutral/auxiliary contacts can be mounted on both sides of the switch
- 4th Pole addition is possible at site

Applications

- Motor start and stop
- Manual motor controller as motor Disconnect main switch
- Emergency ON-OFF
- Control switch
- Changeover switch



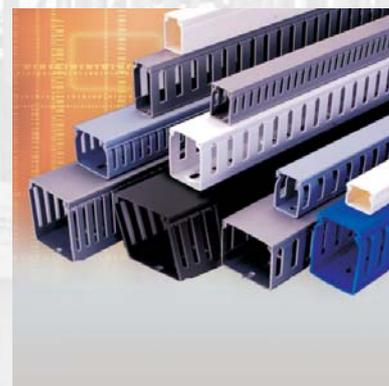
Cable Ducts

Cable Ducts

- Ratings: Type A : 15 x 15 mm -
100 x 100 mm
Type B : 25 x 30 mm -
150 x 150 mm
- Manufactured from special impact rigid polyvinyl chloride
- High dielectric strength and withstands temperature upto 60°C
- Unique cover locking design prevents popping up of wires while removing cover
- Elongated slots at the bottom allow flexible mounting
- Heavy & robust sections
- Material : High impact, self extinguishing, warp-proof rigid PVC

Applications

- Facilitates systematic wiring
- Enhances aesthetics and clarity
- Permits faster connections, addition and fault tracing of wires
- Avoids bunching and tapping
- Provides complete electrical insulation



Control Accessories

Numerical Protective Relays

Timers, Time Switches, Hour Meters & Supply Monitors

Push Buttons / Actuators / LED indicators

- New design to meet end user requirement
- Can accommodate 1 NO block or 1 NC block or 1 bulb holder
- No screws required for assembly
- Ease in mounting and wiring
- Excellent aesthetics
- International approvals UL , CE

Types available

- Integral actuators
- Modular remote control units
- Push button actuators, pendants and push button stations
- Selector switches & accessories
- LED indicators
- All purpose enclosures and spares
- Panel mounted buzzer

- Electronic timers
 - ON delay, Cyclic, OFF delay, Star Delta, Multifunction
 - Asymmetrical ON / OFF
 - Motor restart control timers
 - Brownout timers
 - Digicon
- Auto reset synchronous timers
- Time switches
 - Analog time switch- FM/1 Quartz
 - Digital time switches-Crono
 - Astronomical time switches - Astro mini, Astro - 1Ph & 3Ph
- Hour meters/ Counters
 - Electromechanical / Digital
- Supply monitors
 - Single phasing preventor UV + OV relay with time delay
 - Phase asymmetry, phase sequence monitoring
 - Earth leakage relay with CBCT
 - Current monitoring relay
 - PTC thermistor relay
 - Frequency monitoring relay

Numerical Protective Relays

- Compact & light weight relays
- Self-diagnostic feature ensures complete reliability
- Low power burden
- Communication capable
- Offers multiple protection
- Flexibility in selection of protection curve
- Conforms to latest standards IEC 61000, IEC 60255, IS 3231 and IS 8686

Product Range

- Single phase & three phase over current and earth fault relays
- Under-voltage & over-voltage
- Power factor controller
- Motor protection
- Feeder protection



Digital Panel Meters

LCD Multifunction Meter

QUASAR

- Trivector bidirectional panel meter
- Class 0.5 and 1.0 accuracy as per IS and IEC standards
- LCD display with backlight
- CT/PT programming
- LT/HT models
- Current ratings of 1A and 5A
- RS485 communication (optional)
- All instantaneous and cumulative values
- Separate display for fundamental and total harmonic values for currents & voltages of all phases
- Flush mounting - 96 mm x 96 mm
- Front panel programming

NOVA

- LCD display
- Class 1 accuracy
- AC auxiliary supply
- RS485 communication
- Password protected CT/PT value programming

Energy Meter

Counter Type

ACRUX

- Class 1 accuracy
- kWh measurement
- 1A and 5A current rating
- Pulse LED output
- Terminal covers with sealing provision

LCD kWh Meter

- Class 1.0 accuracy
- Auxiliary supply
- CT/PT site programming
- Optional RS485 port

Dual Source Meter

GEMiNi

- LCD display
- Class 1 accuracy
- Separate registers available for measurement of utility power and generator power
- AC/DC auxiliary supply
- RS485 communication
- Password protected CT/PT value programming

LED VEGA Series

VEGA range includes:

- Single function meters - Voltmeters, Ammeters and Frequency meters
- VAF & PF meters
- Multifunction meters - Model A, Model B, Model C

Features

- LED display
- Class 1, 0.5 accuracy
- Auxiliary supply range of 90 to 300V
- Auto scaling of Kilo & Mega
- Password protected programming
- 1A or 5A site selectable
- Standard side - 96 mm x 96 mm
- For Multifunction meters only
 - RS485 communication
 - 3 line LED display
 - Total Harmonic distortion



AC Drive

Compact Series

- Range: 0.1 to 11kW

Features

- V/F, Sensor less vector control, Slip compensation
- Onboard potentiometer
- Built in PID
- 150% overload for 60 Sec
- Built in RS485 modbus Communication Protocol
- Built in 24V power source
- 5DI, 1DO, 1AI, 1AO
- Conformal coating complying to IEC 60721-3-3 class 3C2

Applications

OEM Machines, Plastic & Textile Machines, Fan & Pump, LT / CT Crane Control etc...



Smart Series

- Range: 0.75 to 90kW (IP20) & 0.75 to 22kW (IP66)

Features

- V/F, Sensor less vector control, Slip Compensation
- Starting Torque at 200% at 0.5Hz for sensor less control
- Conformal coating complying to IEC 60721-3-3 class 3C2
- Built in RS485 Modbus Communication protocol
- Component life monitor
- Peer to peer communication to share I/O's
- Built in PLC logic
- Built in brake control
- 7DI, 2 (R) + 1 (TR) DO, 2AI, 2AO
- Multi Keypad

Applications

OEM Machines, Elevators, Plastic & Textile Machinery, Fan & Pump, LT / CT Crane Control, Compressors, Conveyors, Extrudes etc...



Fx2000

Flexi Series

- Range: 0.75 to 450kW

Features

- Sensor less, Flux control
- 250% starting torque at 0 RPM in Closed Loop
- Built in Macros for wobulation, Hoist etc...
- Winder application
- Auto sequence
- Smart PLC optional
- Conformal coating complying to IEC 60721-3-3 class 3C2
- Built in RS485 modbus Communication protocol
- 8DI, 2 (R) + 1 (TR) DO, 2AI, 2AO
- Built in brake control for cranes

Applications

Hoist Control, Plastic & Textile Machinery, Winders etc...



AC Drive

Soft Starters

Programmable Logic Controllers

Ex2000

Energy Saver Series

- Range: 5.5 to 450kW

Features

- V/F, Sensor less vector control
- Specialized functions for Fan & Pump
- Energy-saving, High-efficiency
- Built in booster pump control
- Component life monitor
- Removable control terminal
- Conformal coating complying to IEC 60721-3-3 class 3C2
- RS485 modbus communication protocol (optional)
- 8DI, 4 (R) + 1 (TR) DO + 2AI + 2AO
- Pre heat function
- Built in cascaded PID

Applications

Fan & Pumps

Soft starters

- Total motor starting solution
- Range: 7.5kW to 800kW (23A - 1600A @ 400V)
- Wide control voltage range (110 - 440VAC)
- XLR8 adaptive acceleration control
- Timed voltage ramp, constant current, torque control, kick start
- Soft stopping
- Soft braking
- Phase sequence protection
- Auto start
- Fault history
- Communication on RS 485
- Forward / Reverse jog functions
- Simulator function allows soft starter functionality to be checked without connecting motor to soft starter

Programmable Logic Controller (PLC)

- Compact & modular
- Wide range: 10-1600 I/Os
- On board I/O mapping for faster setup
- 2 in built communication ports (MODBUS / user defined protocol)
- Run / remote / programming switch - on board
- User friendly windows based programming software for entire range
- Advanced software features, offline simulator & time chart monitoring
- Ideal for OEM application & machine automation



Building Management System

Security & Surveillance System

Lighting & Comfort Solution

ATMOS

- DDC controller with graphical display and easy navigation
- Program backup on SD card (up to 2GB)
- Freely programmable controllers
- Self detecting control bus with up to 999 controllers in a single network
- Self powered by DIN rail using T-Bus connectors
- All modules are plug in and plug out types
- Supports various third party protocols
- Scalable and future proof
- With ATMOS, 200 Input/Output points can be connected to a single DDC controller
- ATMOS DDCs have ready availability of in-built multi-communication ports



PERITO

- Sophisticated range of cameras like Perito's Vandal Dome, Explosion Proof Camera, IR, Weatherproof high speed, PTZ camera & the Integrated PTZ Control Camera with multiprotocol capabilities
- Perito provides with the widest choice of DVRs, ranging from Basic Series, Real-time hybrid DVR, Net DVR (H.264 DVR)
- Intelligent Video Analysis
- CCTV high resolution LCD monitors are available in 7", 17" & 19", Perito offers widest choice of transmission methods like standard analogue over coaxial and up-the-coax



TELETASK

Domotics System

DOMOTICS is the latest trend in home automation which is not just lighting control but is the integration of **Comfort, Safety, & security Communication & Energy Management** for your home. You can control all the functions of the home using a wide range of aesthetically designed Touch Windows, Touch Panels and Touch Screens. You can also control the applications using a remote control, portable touch screen, windows enabled mobile phone, I Phone, iPad, standard PC, the Internet (LAN/WAN/WiFi applications), & so on. A house equipped with a domotics system and a minimal integration of lighting, power, heating or cooling control, saves energy cost from 10-15%.



Medium Voltage Products

Air Insulated Switchgear (Medium Voltage)

- Available for voltage of 12 kV, 24 kV & 36 kV
- Current rating up to 3150A available with short time current ratings of 25kA, 40kA & 50kA for 3 sec
- Complies with IEC 62271-100, 62271-102 and 62271-200
- Metal clad, fully compartmentalized panel
- Horizontal isolation, horizontal draw-out & floor mounted trolley type VCB
- Panel readily extensible on both sides
- Panel is designed to meet temperature rise limits as per standards
- Fully type tested at renowned laboratories
- Partition class is PM
- Mechanical endurance class is M2
- Electrical endurance class is E2
- Loss of service continuity category is LSC2B
- Indoor type panel with ingress protection rating IP-4X

Unique Features

- Inbuilt anti-pumping feature in VCB
- Current rating up to 3150A with natural cooling
- Internal arc classification AFLR up to 40kA for 1 second and 50kA for 0.5 second
- Compact and safe



Diva Solar Lantern

D.V.A
SOLAR LANTERN

Diva Solar Lantern

- 5 W solar panel
- Mobile charging facility
- Adjustable Light Intensity mode
 - Full (10 Hrs), Economy (20 Hrs) & Night (40 Hrs)
- Saves on electricity bills
- Can be charged by AC mains supply also, which means uninterrupted supply during monsoons.
- 2 year warranty on Product & 1 year on battery



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Product improvement is a continuous process. For the latest information and special applications, please contact any of our offices listed here.



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