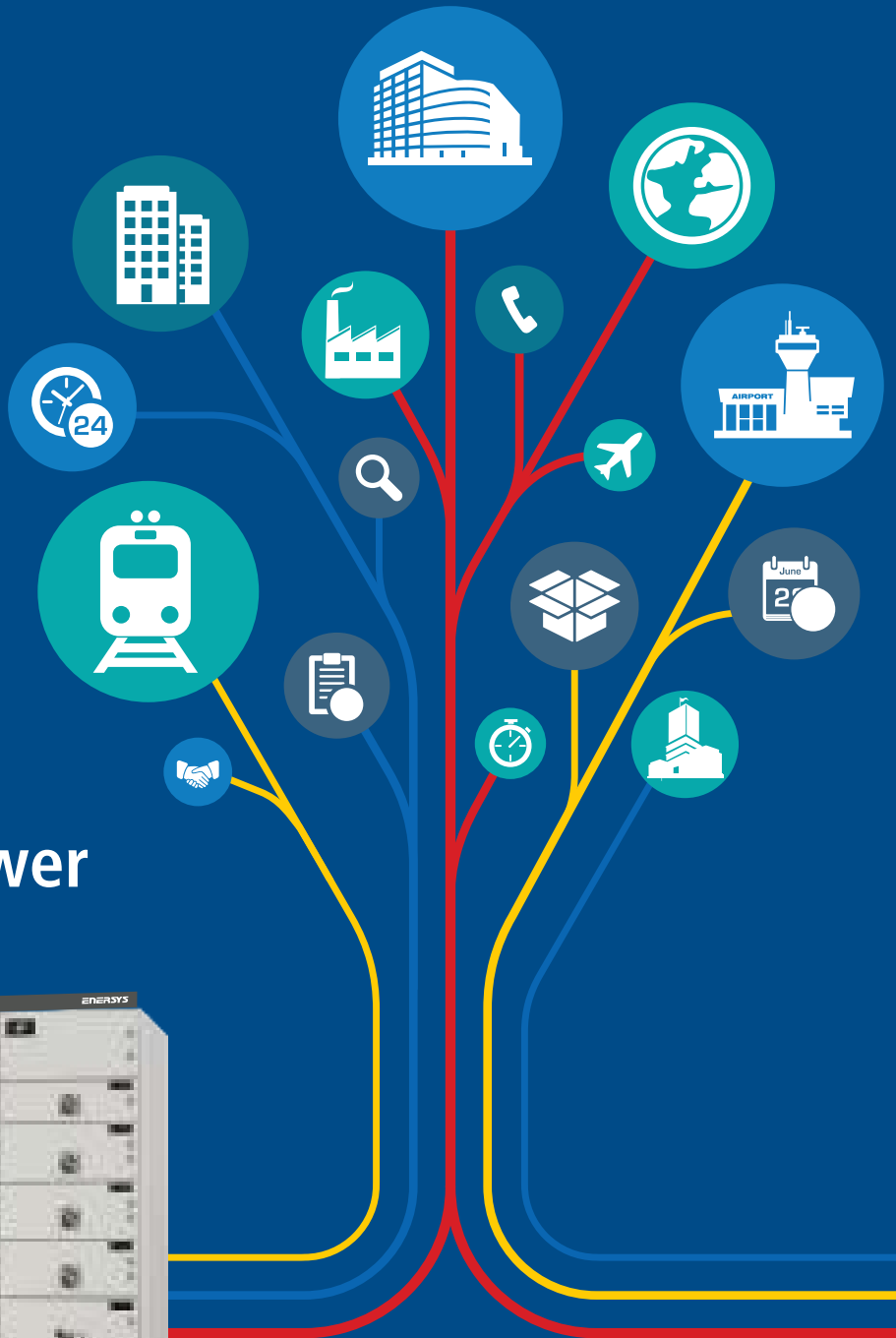
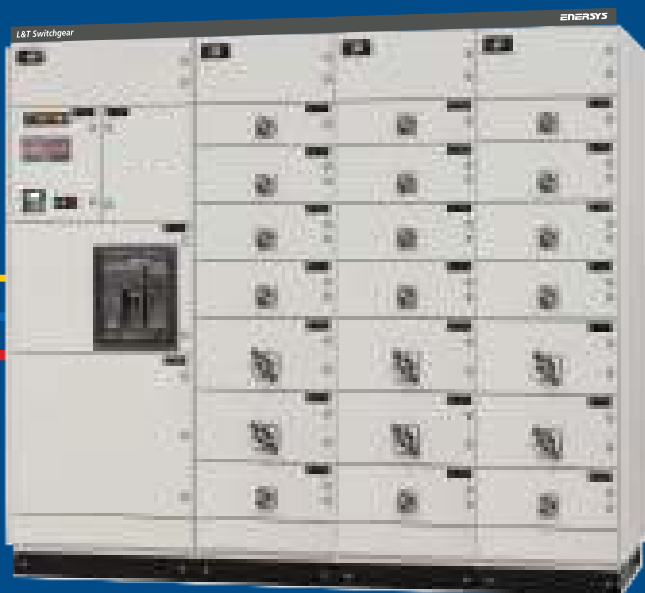


The in-demand Solution for Power Distribution



Winner of Deming Prize 2019



Good quality products and customer service, continuous improvement in processes, systems and capabilities are the hallmark of leaders in business.

The Electrical Standard Products (ESP) business and New Product Development (NPD) function of L&T Electrical & Automation (E&A) have been awarded the Deming Prize 2019, by JUSE (Union of Japanese Scientists and Engineers), Japan.

The Deming Prize is one of the highest awards on Total Quality Management (TQM) in the globe. It is presented to an organisation that has implemented TQM suitable for its management philosophy, scope/ type/ scale of business and management environment.

The TQM activities of ESP were evaluated for establishment of customer oriented objectives and strategies & top management leadership, suitable utilisation and implementation of TQM, effects obtained regarding business objectives and demonstration of organisational capabilities.

E&A's ESP is the first low voltage switchgear manufacturer in India that has received this recognition.



About Us

L&T Electrical & Automation (E&A) is a market leader for electrical distribution, monitoring and control solutions in the low voltage category.

Popular among customers as L&T Switchgear, E&A offers a wide range of low and medium voltage switchgear, motor starters, electrical systems, industrial automation, building electrical solutions, energy management solutions, electrical modernization solutions and metering solutions. Its products and solutions cater to key sectors of economy like industries, utilities, infrastructure, building and agriculture.

E&A's manufacturing operations at Navi Mumbai, Ahmednagar, Vadodara, Coimbatore and Mysuru in India adhere to global practices of excellence and receive support from well-equipped in-house design and development centres as well as tooling facilities that contribute to precision in manufacturing.

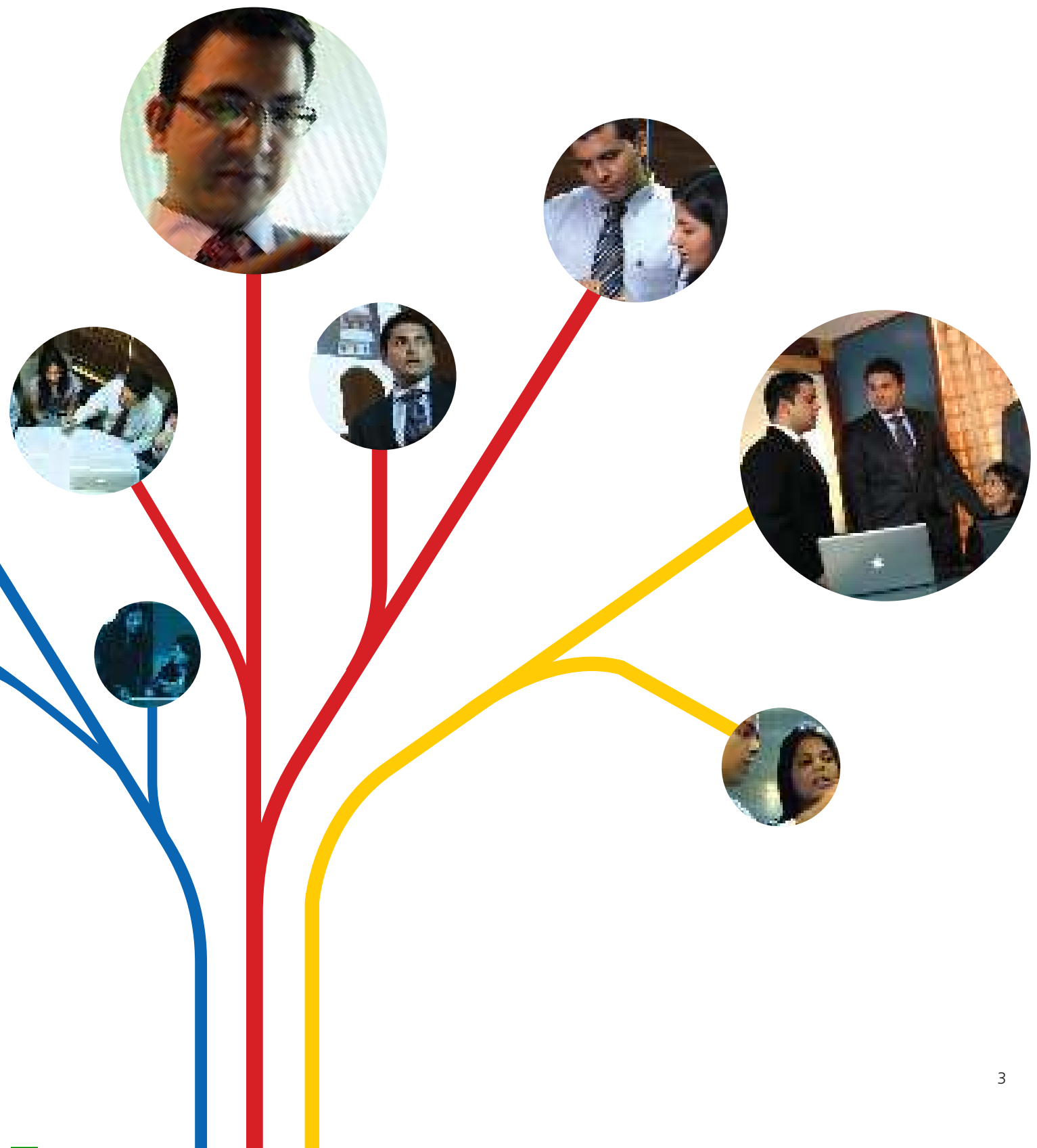


Our People

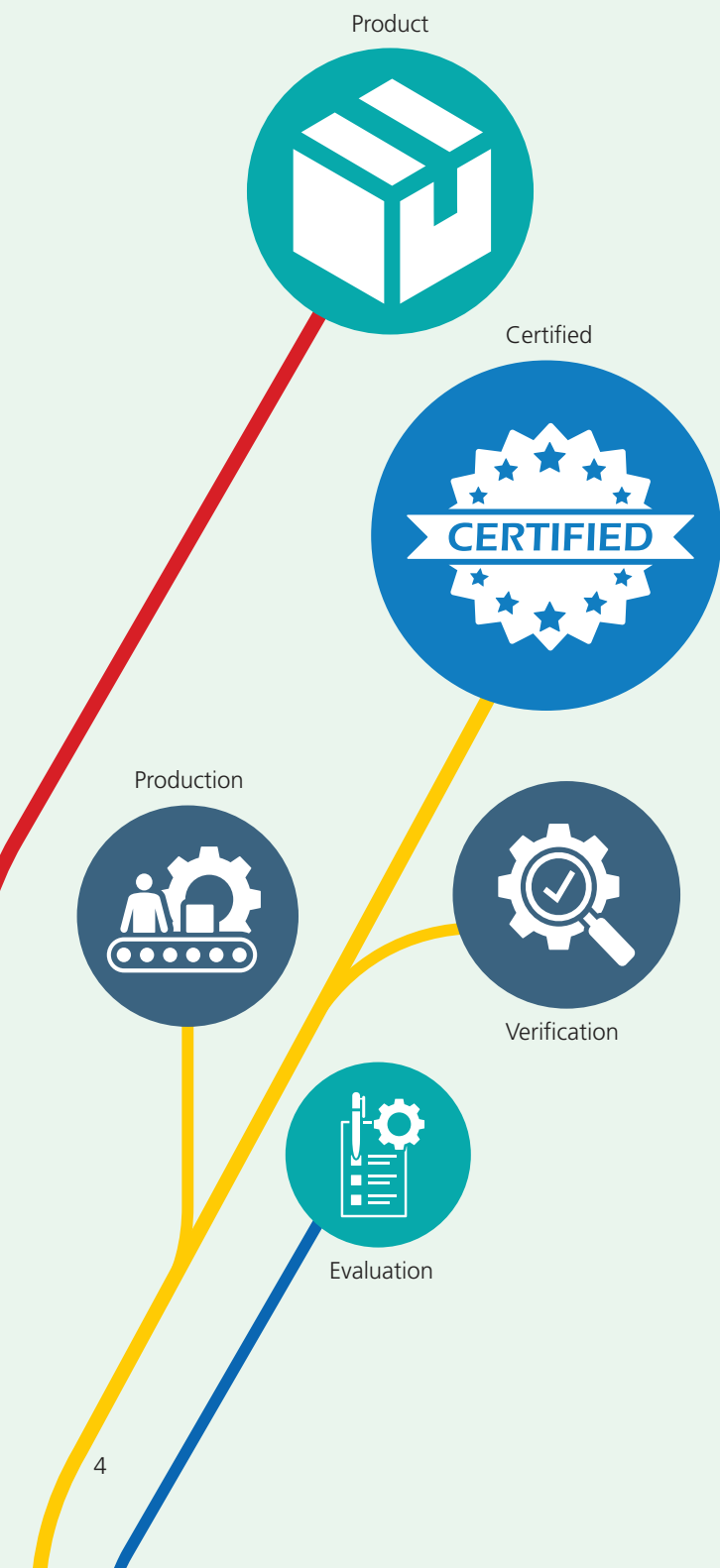
Our people are selected from the best institutes nationwide.

Training primes them to deliver high-tech solutions, and mentoring ensures that they imbibe the values of the Company and develop an attitude of customer focus.





Quality Management System



Quality

We infuse excellence into the manufacture of every product, and into the implementation of every process - beginning with our raw materials. Our commitment to quality translates into CAD workstations at the design stage, quality audits by independent groups and a stringent vendor approval system. We understand that quality is irreplaceable, and that is why we use the most reliable and trusted processes that help our systems become leaner, and our services more efficient.

Quality Strategy

The adoption of Quality Management System is a strategic decision. All our plants are ISO-9001 certified, and have been so since 1994. We also help & encourage our suppliers and stockists to acquire certification. The design and implementation of our Quality management System is influenced by varying customer needs, business objectives, products and processes employed. We have developed and qualified a substantial number of lead as well as internal auditors among our own people putting across areas as varied as marketing, design, production, procurement, quality and stores. This wide base of people familiar with the standards helps in effective implementation of the Quality Management System.

E&A is one of the few manufacturers of switchgear in India with test laboratories certified by the National Accreditation Board for Calibration and Testing Laboratories (NABL), affiliated to the Indian Government's Department of Science and Technology. Our facilities have been accredited for Electrical and Mechanical testing and calibration since 2002.





Quality Management System

Quality Assurance and Reliability: Salient features

- Centralised Quality Assurance function
- Ensuring product reliability is an integrated aspect of our Quality Assurance process
- In-house calibration and testing facilities
- Periodic internal and third-party quality audits of our facilities and our partner's facilities by the Quality Control function in each product group
- Use of Proven International Quality tools like Six sigma, T-Matrix, Qc story etc. for improvements

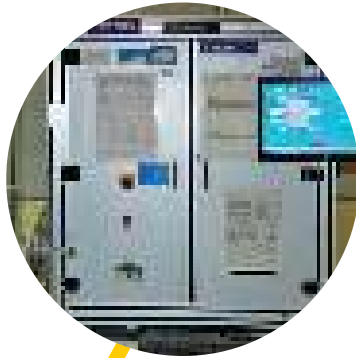
Quality Assurance

The Quality Assurance function includes:

- The establishment (when required), implementation and upgrade of the Quality Management System
- Concurrent working on new product development right from design stage
- Quality planning including assessment of Test facilities for their adequacy, effectiveness and consistency.
- Comprehensive evaluation of sources, Raw materials, components, processes, intermittent assemblies & final products from customer's perspectives.
- Meticulous monitoring of product reliability through regular, non-routine and type testing including life tests.
- Provision of standard IMTEs and specialised Gauges.
- In depth analysis of customer inputs on product performance and driving improvement across all functions.
- Regular monitoring of all quality KPIs at organisation level. Driving excellence across all business process.



Quality Management System



Quality Assurance Laboratories and Test facilities

Our Quality Assurance department has state-of-the-art test facilities for in-depth routine testing of our products. Our suppliers have access to these facilities for sample testing and co-quality verification. There are six testing and calibration laboratories which utilise a wide range of calibration standards and equipment to ensure the optimal functioning of our quality assurance tools. They ensure that our raw material, components, sub-assemblies and finished products live up to their claims.

Electrical Calibration Laboratory: The primary function of this laboratory is to ensure the calibration of electrical and electronic measuring instruments used throughout the factory and to maintain records to track the fitness of these equipment.

Electrical Testing Laboratory: The primary function of this laboratory is the sample testing of various electricals and electronic products as per their relevant standards.





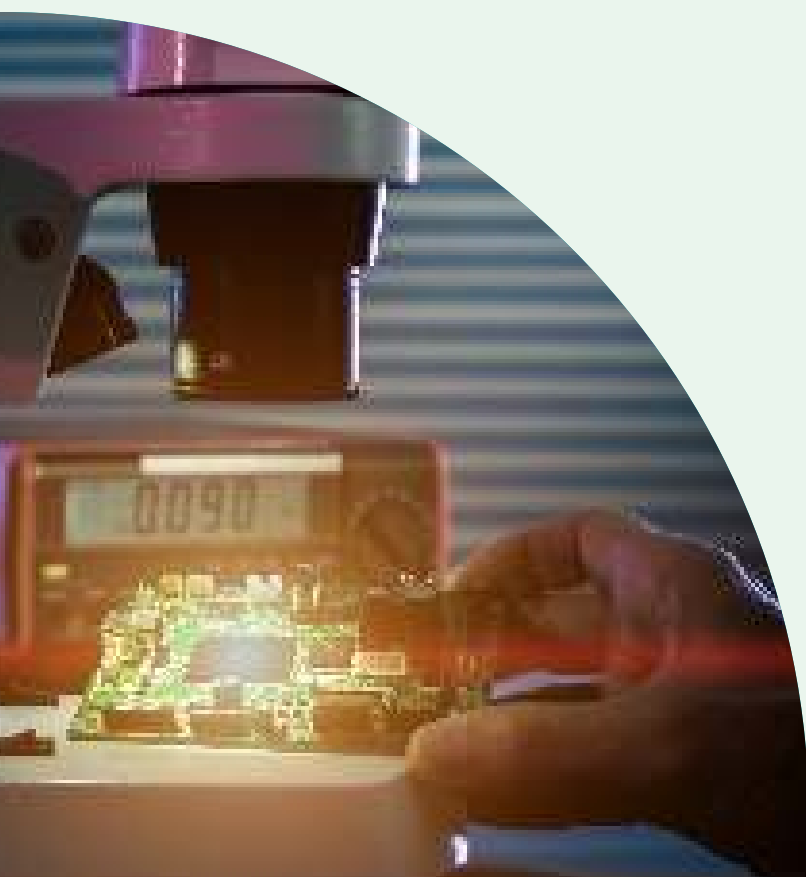
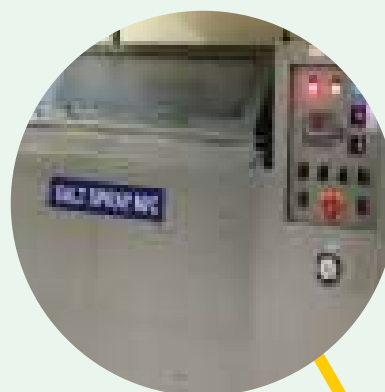
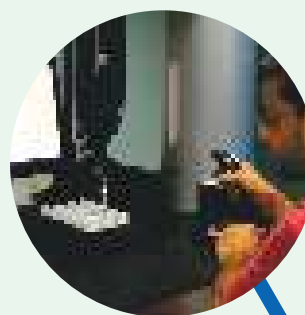
Quality Management System

Mechanical Calibration Laboratory: This laboratory maintains metrological standards for length, torque, mass and volume. Its primary function is to ensure the regular calibration of gauges and measuring instruments.

Mechanical Testing Laboratory: Dedicated laboratories for metallurgy, plastic testing and surface finish are equipped to evaluate the insulation properties of various types of plastics and other insulating material used in our products.

Microscopy Laboratory: This laboratory is equipped for the micro-structural analysis of the various types of silver alloys used in our products.

Surface Finishing Laboratory: To ensure quality of protective surface coatings, control is exercised right from the receipt of the chemicals up to the end of production.



Quality Management System



Six Sigma

Six Sigma, a process improvement tool developed by Motorola in 1985, is widely used across our facilities to optimise processes. Our Six Sigma journey began in the year 2000 and a high number of Six Sigma black belts and projects ensure the continuity of this aspect of manufacturing excellence.

Quality Initiative Test facilities at various factories

The norms of a good quality switchboard with high reliability are very stringent. Components with even minor variations from their norms are rejected. This necessitates a focused approach to quality and ensures trouble-free working of our products through the evaluation of raw materials and components, process and products audits and regular equipment calibration.

Each process of manufacture - right from sourcing to final assembly - is analysed and corrective action measures are implemented to remove any superfluous activities. The Switchboard Quality & Reliability (SQR) team within the production support organisation consists of an SQR manager and a team of quality reviewers. Roughly 30% of our production support team works for SQR. The size of SQR team is approximately 20-30% of the size of production support team.

Quality Control

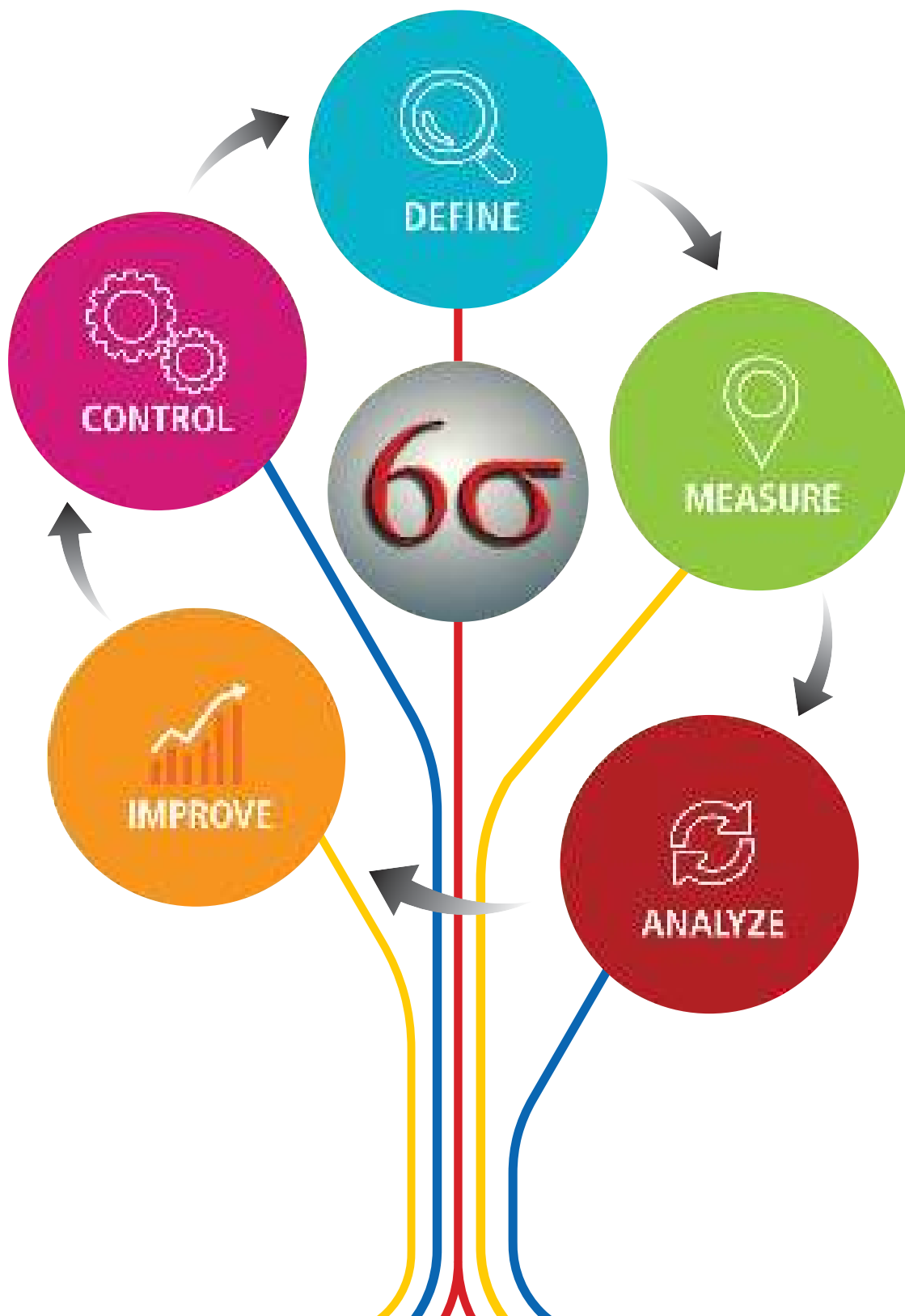
Quality control is strategically located across our manufacturing for:

- Incoming raw material and component inspection
- In-process inspection that includes setting approval, stage inspection and sample inspection
- Finished product inspection including packing audits and customer inspection
- Customer-complaint resolution





Quality Management System

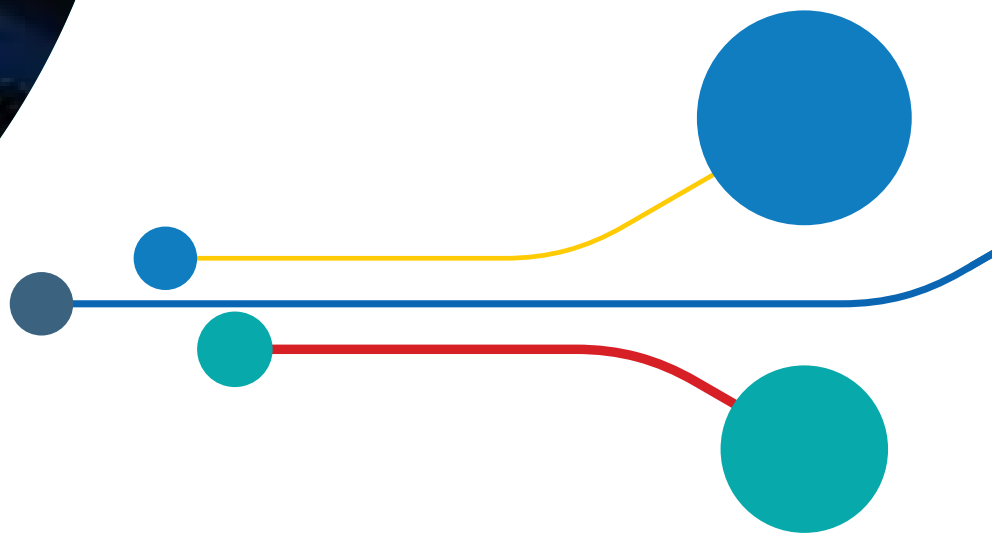


Applications



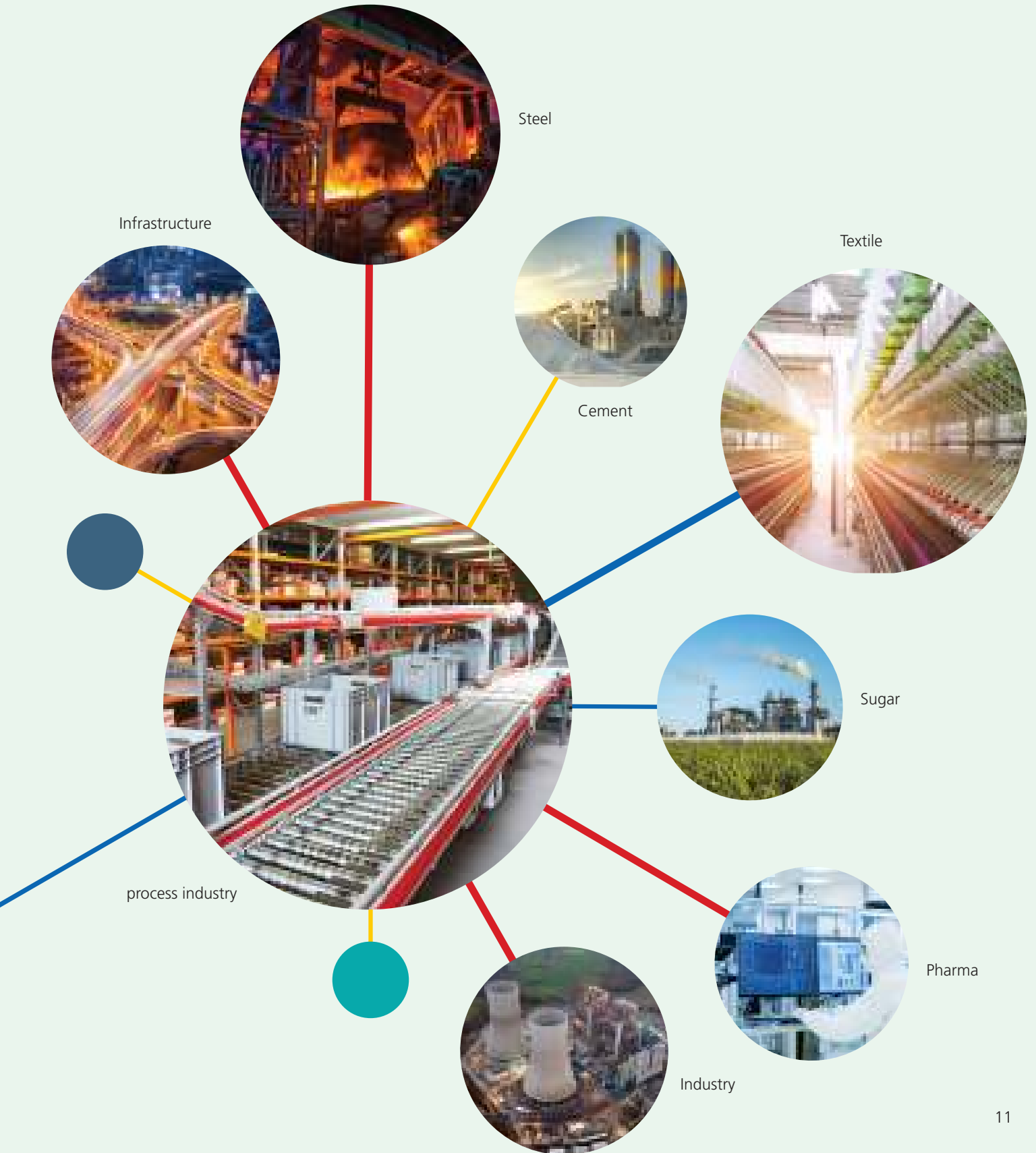
Innovation and Technology leader E&A provides a comprehensive range of solutions to exceed your present and future requirements. Our new range of distribution board is more reliable and safe; assuring you, an absolute uninterrupted power supply for your infrastructure.

Energys range of distribution boards are perfect match for your Infrastructure, Steel, Cement, Textile, Sugar, Pharma and Process Industries.





Applications





Safety First



Perfect Harmony



The Leading Edge



Counter the time



The Smart Space Saver



Enersys range of switchboards are backed by many years of knowledge, switchgear experience in addition to feedback from consulting engineers, electrical contractors and end users.

With Enersys range of switchboards , we assure you cutting-edge performance, superior safety, greater reliability, effective use of your capital & space, and high class protection for your power distribution systems.

The design verified assembly together with increased versatility makes it competent to accomplish today's challenging demands and move towards fulfilling future expectations.

Enersys range is fully compartmentalised and duly complied with the latest international standards and local regulations, elevating your power distribution to a new level.



Safety First

Noble guardian

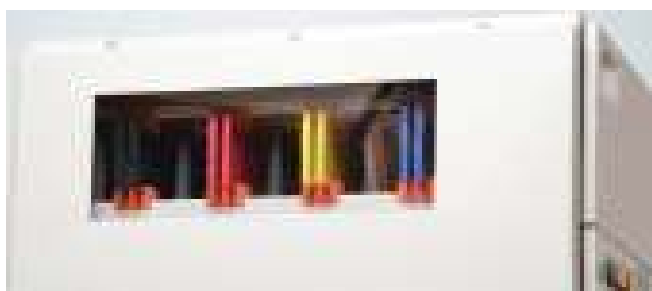
Energys range is divided into distinct compartments (equipment, busbar, cable and auxiliary) segregated by metallic or non-metallic partitions or barriers, to ensure maximum safety level for your operator against electric shock.



Multi level safety

The specially designed tool operated and padlockable door knob provides multi level safety for your personnel.

Additionally, you are protected from accidental access to live parts by our intelligent interlocks.



Trusted bus system

Generous clearances for main busbars and connectors ensure unmatched safety for you.

Supports and insulation materials are flame resistant, track resistant and non-hygroscopic exhibiting outstanding electrical properties.



Safety First



Environmental control

Energys range gives you protection against access to hazardous parts, solid foreign bodies and liquids.

The innovative design of camlock, hinges and door gasket bolster ingress protection.



Integral safety - arc protection

The complete closed door operation and limitation of fault within a confined area, Energys range ensures total safety for the operator and maintenance personnel as well as plant safety in order to limit the damage.



The Leading Edge



Efficiency expert

Enersys range is the intelligent modular solution to combine your different installation designs in one section with high efficiency. The flexibility thus achieved allows for the simple exchange or addition of functional units, giving an edge to your credence.

Design for tropicalisation

Enersys range is well designed & engineered to perform satisfactorily in harsh environments consisting of dust, water, or pollution, making it suitable for all geographical sites or any critical ambience.

Unmistakable, Unmatched performance

Stringent fault withstand capacity of Enersys-M of 65 kA for 1s & Enersys-i of 80 kA for 1s, which assure you an exclusive and high-quality performance.

Technical sophistication

Enersys range believes in future and sets new standards as a technically superior application in infrastructure. This means it is always designed to meet constantly increasing technical challenges offering maximum personal and installation safety, a wide range of possible uses, quick installation, minimal maintenance, and timely delivery.





Countering the Time



Need based Delivery

We can offer Enersys range as functional sub-assemblies, flat-packed versions, or fully preassembled to your specifications. Shorter lead time and speedy delivery, make it easy to react to your constant changing needs or enquiries.

Standardisation expert

The indispensable compartmentalised design of Enersys range reduces your installation and maintenance time. Further, usage of single tool for assembly makes Enersys range a standardised product.

Revolutionary support

The exclusive click fit busbar supporting design requires less effort, thereby lowering assembly time, to achieve timely delivery of your distribution board.



The Smart Space Saver

New compactness

Energys range of power distribution board is one of the most compact switchboards and has been optimised for different ratings & requirements.

Rear cable alleys and rear droppers helps reducing the Footprints of the panel.

Flexible cable chamber

Energys range gives you an option to select front or rear cable entry based on your space requirements.

Moreover, generous space is provided for terminating power cables, ensuring higher bending radius and reducing undue stress on terminals.

Minimum footprint, Maximum Density

Energys range can accommodate ACB in a smallest width panel of 500 mm. Further, the higher density of MCCB feeders in a single panel is evident.





The Perfect Harmony

Ergonomic design

Energys range is equipped with flexibility to lift it from top using Lifting angle or to maneuver with a secured plinth base, acting as a easy-to-use interface for installing your assembly to prevent any injuries to personnel.

Quick installation

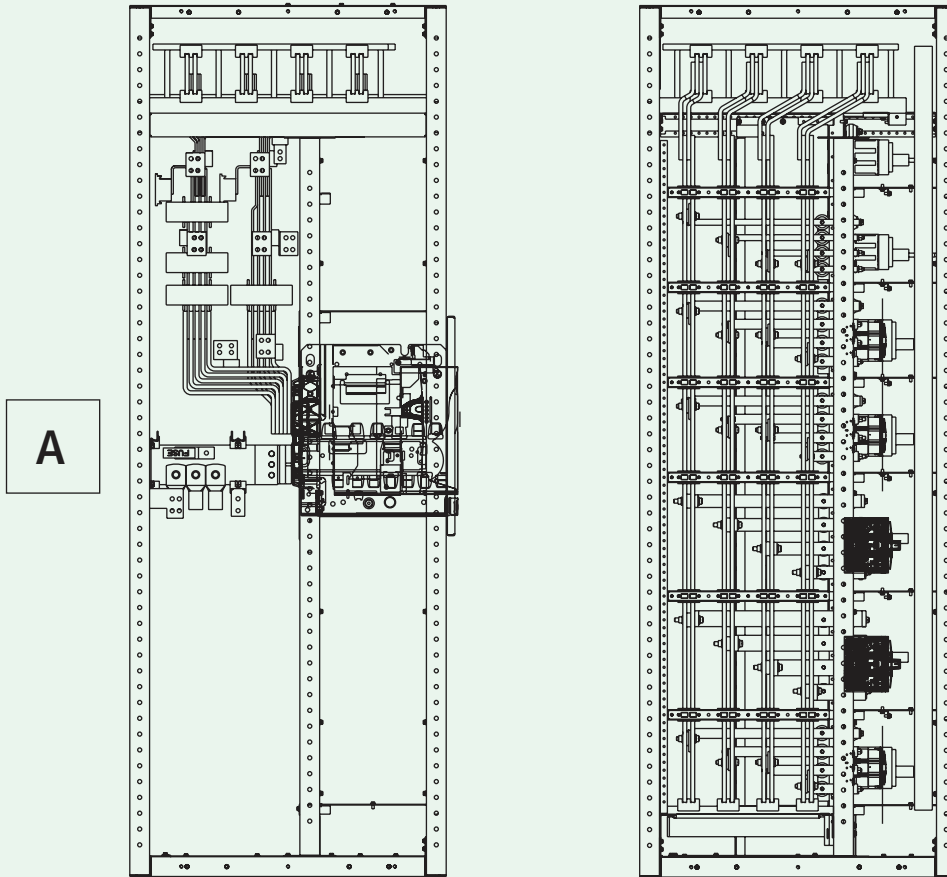
A separate control wireway, and horizontal main busbar chamber give you an easy way in for fishplate or splice joints, speeding up your installation.

Razor-sharp response

With our project management executives and post-sales teams, we offer the services tailored to your specific needs. They promise the competences available to support your installation, commissioning and maintenance requirements.

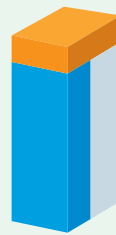
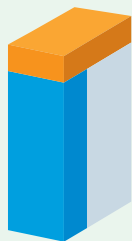


Typical Arrangements - Enersys-i



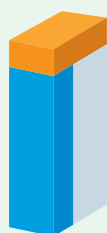
ACB Panel

MCCB Panel



ACB Panel
500/600/800/1000(W) x 1000(D)/1200(D)

ACB Panel
500/600/800/1000 x 800(D)



MCCB Panel
600(W) x 800/1000/1200(D)

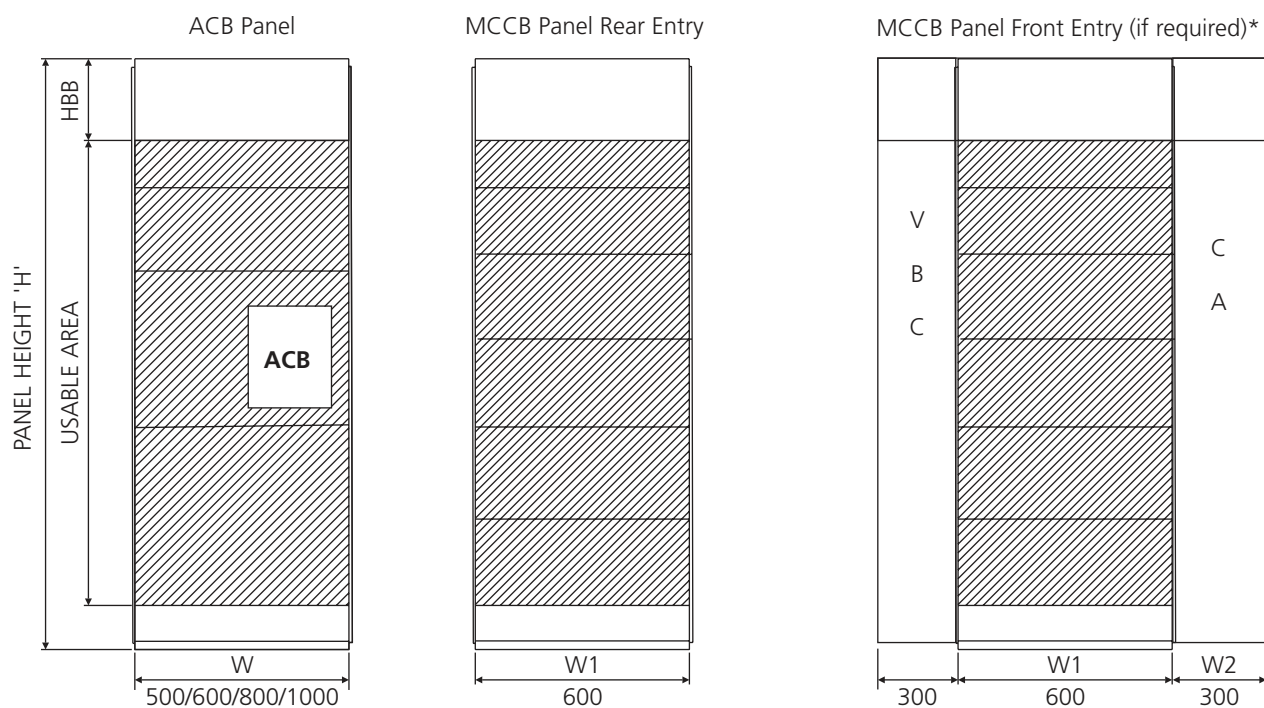
MCCB Panel (if required) *
300(VBC) + 600(W) + 300(CA) x 800(D)

- Feeders
- Cable alley
- Busbar*

*Top or bottom busbar options available



Configurations - Enersys-i



| | ACB Panel | MCCB Panel |
|-------------------------|---------------|---------------|
| Panel Height 'H' | 2200 | 2200 |
| Horizontal Busbar (HBB) | 270 | 270 |
| Usable Area | 1740 | 1740 |
| Depth | 800/1000/1200 | 800/1000/1200 |

All dimensions are in mm

Technical Specifications - Enersys-i

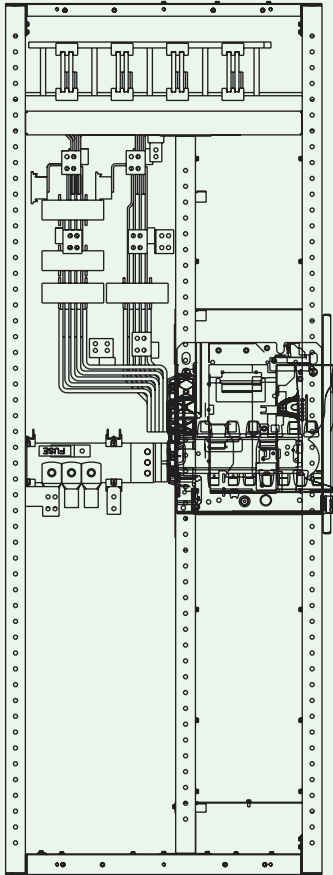
| Standards | | IEC61439 |
|------------------------------------|---|---|
| Electricals characteristics | | |
| Voltage ratings | Rated operational voltage (U_e) | 415 VAC |
| | Rated insulation voltage (U_i) | 690V / 1000V AC |
| | Rated impulse withstand voltage (U_{imp}) | 12kV for Busbar & ACB Feeder, 8kV for MCCB feeders |
| | Rated frequency (f_n) | 50 Hz |
| Current ratings | Main Horizontal busbars | |
| | Busbar system | Aluminium |
| | Rated current (I_{nA}) | Upto 3200A |
| | Rated peak withstand current (I_{pk}) | 176 kA |
| | Rated short-time withstand current (I_{cw}) | Upto 80 kA, 1s |
| | Vertical Distribution busbars | |
| | Rated current (I_{nA}) | Upto 1000A |
| | Rated peak withstand current (I_{pk}) | 176 kA |
| | Rated short-time withstand current (I_{cw}) | Upto 80 kA, 1s |
| | Insulation characteristics | |
| | Clearance | Ph-Ph-25 mm Ph-E & Ph-N-19 mm |
| | Creepage distance | Ph-Ph-25 mm Ph-E & Ph-N-19 mm |
| | Overvoltage category | IV |
| | Pollution degree | 3 |
| | Field condition | Inhomogeneous (non-uniform) |



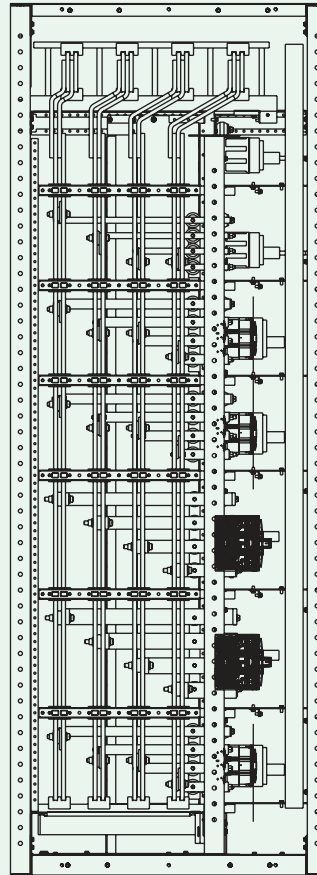
Technical Specifications - Enersys-i

| Mechanical Characteristics | | |
|----------------------------|---|--|
| | In accordance with IEC 60529 | |
| Degree of protection | External | IP 43 & IP 54 - upto 3200A |
| | Internal | IP 2X |
| Forms of separation | as per IEC 61439-2 | upto Form 4b |
| Dimensions | Height (mm) | 2200 , 2300 (with plinth) |
| | Width (mm) | 500, 600, 800, 1000 (ACB panel) |
| | | 600 (MCCB panel - Rear cable access) 600 (W) +300(VBC) + 300(CA) (MCCB panel side cable access) (if required) |
| Depth (mm) | 800, 1000, 1200 | |
| Surface Treatment | Structure | Powder Coating of 50 Microns |
| | Internal Components | Powder Coating of 50 Microns |
| | External Components | Powder Coating of 50 Microns |
| Resistance to Corrosion | Damp heat cycling test | IEC 60068-2-30 |
| | Salt mist test | IEC 60068-2-11 |
| Plastic components | Flame retardant, self-extinguishing, Halogen-free | IEC 60068-2-10, IEC 60695-2-11 |

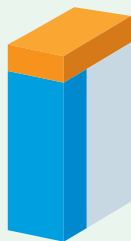
Typical Arrangements - Enersys-M



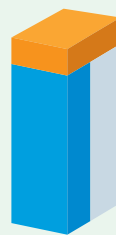
ACB Panel



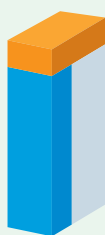
MCCB Panel



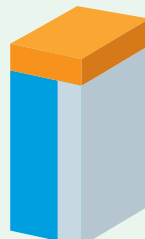
ACB Panel
500/600/800/1000(w) x 1000(D)



ACB Panel
500/600/800(w) x 800(D)



MCCB Panel
600(w) x 800/1000(D)



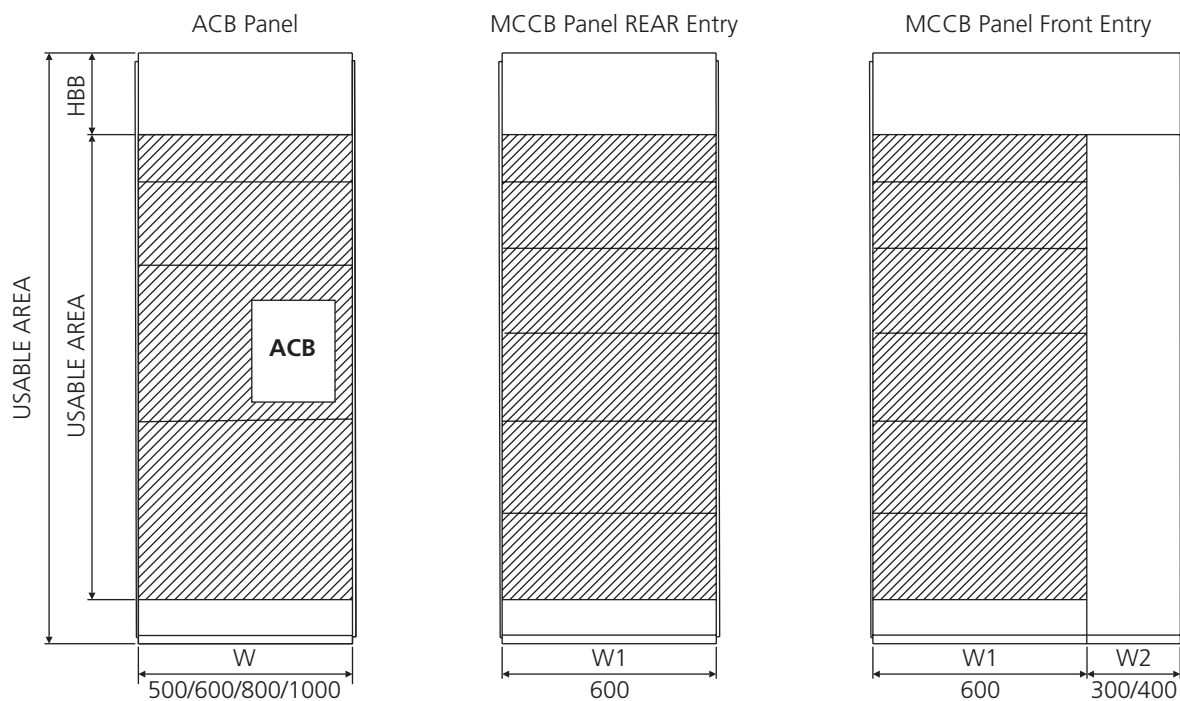
MCCB Panel
900/1000(w) x 800/1000(D)

- Feeders
- Cable alley
- Busbar*

*Top or bottom busbar options available



Configurations - Enersys-M

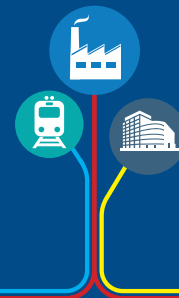


| | ACB Panel | MCCB Panel |
|-------------------------|-----------|------------|
| Panel Height 'H' | 2200 | 2200 |
| Horizontal Busbar (HBB) | 270 | 270 |
| Usable Area | 1740 | 1740 |
| Depth | 800/1000 | 800/1000 |

All dimensions are in mm

Technical Specifications - Enersys- M

| Standards | | IEC61439 |
|------------------------------------|---|---|
| Electricals characteristics | | |
| Voltage ratings | Rated operational voltage (U_e) | 415 VAC |
| | Rated insulation voltage (U_i) | upto1000 VAC |
| | Rated impulse withstand voltage (U_{imp}) | 12kV for Busbar & ACB Feeder, 8kV for MCCB feeders |
| | Rated frequency (f_n) | 50 / 60 Hz |
| Current ratings | Main Horizontal busbars | |
| | Busbar system | Copper |
| | Rated current (I_{nA}) | Upto 4000A |
| | Rated peak withstand current (I_{pk}) | upto 143 kA |
| | Rated short-time withstand current (I_{cw}) | 50 kA, 1s 50 kA, 3s 65 kA, 1s |
| | Vertical Distribution busbars | |
| | Rated current (I_{nA}) | upto 1600A |
| | Rated peak withstand current (I_{pk}) | upto 143 kA |
| | Rated short-time withstand current (I_{cw}) | 50 kA, 1s 50 kA, 3s 65 kA, 1s |
| | Insulation characteristics | |
| | Clearance | Bus Zone - 25 mm Other areas - 20 mm |
| | Creepage distance | Bus Zone - 25 mm Other areas - 20 mm |
| | Overtoltage category | IV |
| | Pollution degree | 3 |
| | Field condition | Inhomogeneous (non-uniform) |



Technical Specifications - Enersys- M

| Mechanical Characteristics | | |
|----------------------------|---|--|
| | In accordance with IEC 60529 | |
| Degree of protection | External | IP 42 - Above 2500A IP 54 - upto 2500A |
| | Internal | IP 2X |
| Forms of separation | as per IEC 61439-2 | upto Form 4b |
| Dimensions | Height (mm) | 2200, 2300 (with plinth) |
| | Width (mm) | 500, 600, 800, 1000 (ACB panel) |
| | | 600 (MCCB panel - Rear cable access) 900/1000 (MCCB panel - Front cable access) |
| Depth (mm) | 800/1000 | |
| Surface Treatment | Structure | Powder Coating / Painted |
| | Internal Components | Powder Coating / Painted |
| | External Components | Powder Coating / Painted |
| Resistance to Corrosion | Damp heat cycling test | IEC 60068-2-30 |
| | Salt mist test | IEC 60068-2-11 |
| Plastic components | Flame retardant, self-extinguishing, Halogen-free | IEC 60068-2-10, IEC 60695-2-11 |

A Global Validation

Our Enersys range of Low voltage switchgear system is subjected to extensive design verifications in compliance with IEC 61439, at reputed international third-party laboratories (ASTA) to assure you best-in-class products.

IEC 61439

| Construational Characteristics | Enersys Range |
|--|---------------|
| Strength of material and parts | ✓ |
| Degree of protection of enclosures | ✓ |
| Clearances | ✓ |
| Creepage distances | ✓ |
| Protection against electric shock and integrity of protective circuits | ✓ |
| Incorporation of switching devices and components | ✓ |
| Internal electrical circuits and connections | ✓ |
| Terminals for external conductors | ✓ |

| Performance Characteristics | Enersys Range |
|----------------------------------|---------------|
| Di-electric properties | ✓ |
| Verification of temperature rise | ✓ |
| Short circuit withstand strength | ✓ |
| Electromagnetic compatibility | ✓ |
| Mechanical operations | ✓ |





The Perfect Match for Your Enersys range of System

E&A is India's leading switchgear company and offers the widest range of electrical standard products, compliant with Indian and global standards. Our in house design and testing facilities enable us to create customised solutions which combine type-tested Enersys range of switchboards with a wide range of perfectly matched E&A switchgear configurations. All, so that you can achieve the highest levels of cost and design optimisation possible with your Enersys system.



Air Circuit Breakers

- 400 A to 6300 A in three optimized frame sizes
- Short circuit breaking capacities upto 100 kA
- 50/100/200% Neutrals available
- Common Height and Depth across range
- Arc chute interlocking
- No derating at higher ambients
- Energy saving pole design
- Independent locking of ON/OFF buttons
- Tool-less fixing of voltmetric releases
- Display of complete accessory Information on front facia

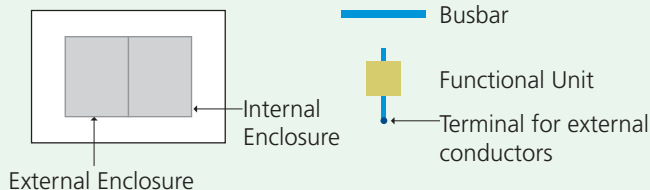


Moulded Case Circuit Breakers

- 20 A to 1250 A in 3/4 pole variants
- Positive isolation
- Short Circuit breaking capacities upto 70 kA
- Microprocessor, Thermal Magnetic and Magnetic based Releases
- Wide range of snap accessories
- Ergonomic design
- User friendly features

Form of Separation (FOS)

Legend:



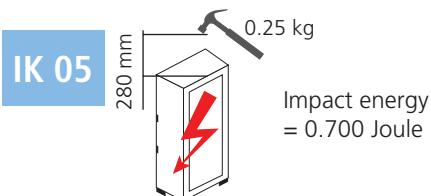
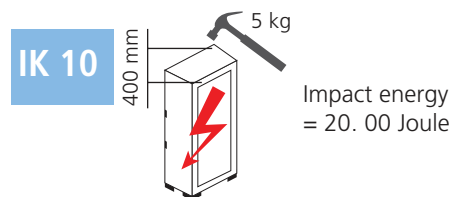
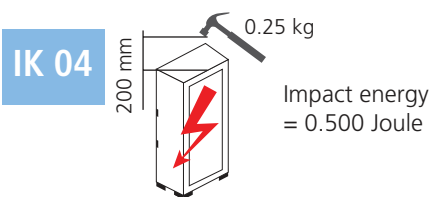
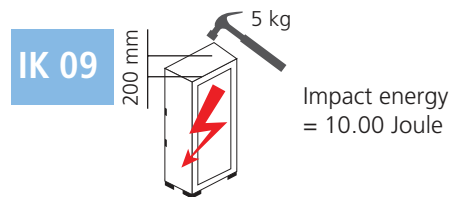
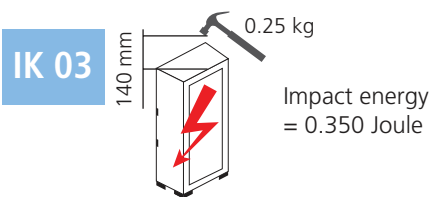
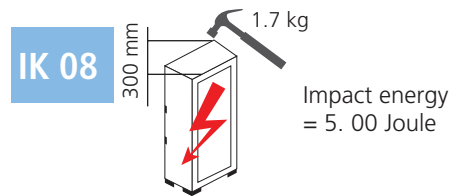
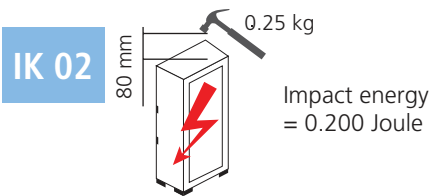
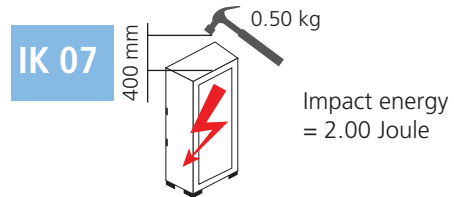
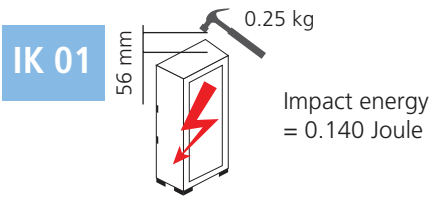
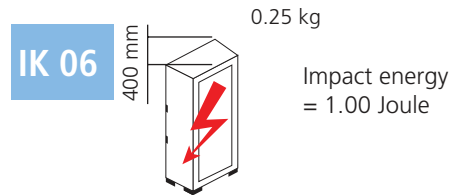
| Form | Block Diagram | Explanation |
|---------|---------------|--|
| Form 1 | | No Internal separation |
| Form 2a | | Separation between busbars and functional unit |
| Form 2b | | Separation between busbars and functional unit |
| Form 3a | | Form 2a + Separation between functional unit |
| Form 3b | | Form 3a + Separation between functional unit and terminals |
| Form 4a | | Form 2b + Separation between functional unit |
| Form 4b | | Form 3b + Separation between terminals and busbars |

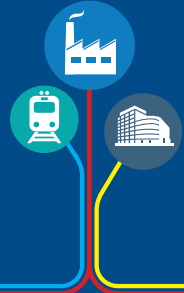


Impact resistant (Ik 10)

- Verified to IK 10 as per IEC 62262 (2002) related to IK ratings
- Ensures protection of its contents from external impacts

| IK Code | IK00 | IK01 | IK02 | IK03 | IK04 | IK05 | IK06 | IK07 | IK08 | IK09 | IK10 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|
| Impact Energy J | * | 0.14 | 0.2 | 0.35 | 0.5 | 0.7 | 1 | 2 | 5 | 10 | 20 |









Ingress Protection (IP)









The protection of enclosures against ingress of dirt or of water is defined in IEC-60529 (BSEN60529: 1991). Conversely, an enclosure which protects equipment against ingress of particles will also protect a person from potential hazards within that enclosure, and this degree of protection is also defined as a standard.

The degrees of protection are most commonly expressed as 'IP' followed by two numbers, e.g. IP65, where the numbers define the degree of protection

1st Digit Protection against Human Contact or Foreign Bodies

| | | |
|---|----------|--|
| | 0 | No special protection |
|  | 1 | With back of hand / large foreign bodies, of diameter >50mm |
|  | 2 | With a finger / medium-sized foreign bodies of diameter >12.5mm |
|  | 3 | With tools and wires etc., with a thickness >2.5mm / small foreign bodies of diameter >2.5mm |
|  | 4 | With tools and wires etc., with a thickness >1mm / granular foreign bodies of diameter >1mm |
|  | 5 | Complete protection / dust-protected |
|  | 6 | Complete protection / dust-proof |

2nd Digit Protection against Water Ingress

| | | |
|---|----------|---|
| | 0 | No special protection |
|  | 1 | Water dripping vertically |
|  | 2 | Water dripping at an angle (up to 15 degrees from the vertical) |
|  | 3 | Spray water (any direction up to 60 degrees from the vertical) |
|  | 4 | Spray water from all directions |
|  | 5 | Water jets from a nozzle in all directions |
|  | 6 | High-pressure jets |
|  | 7 | Temporary immersion |
|  | 8 | Permanent Immersion |



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Product improvement is a continuous process. For the latest information and special application, please contact any of our offices listed here. Product photographs shown for representative purpose only.



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