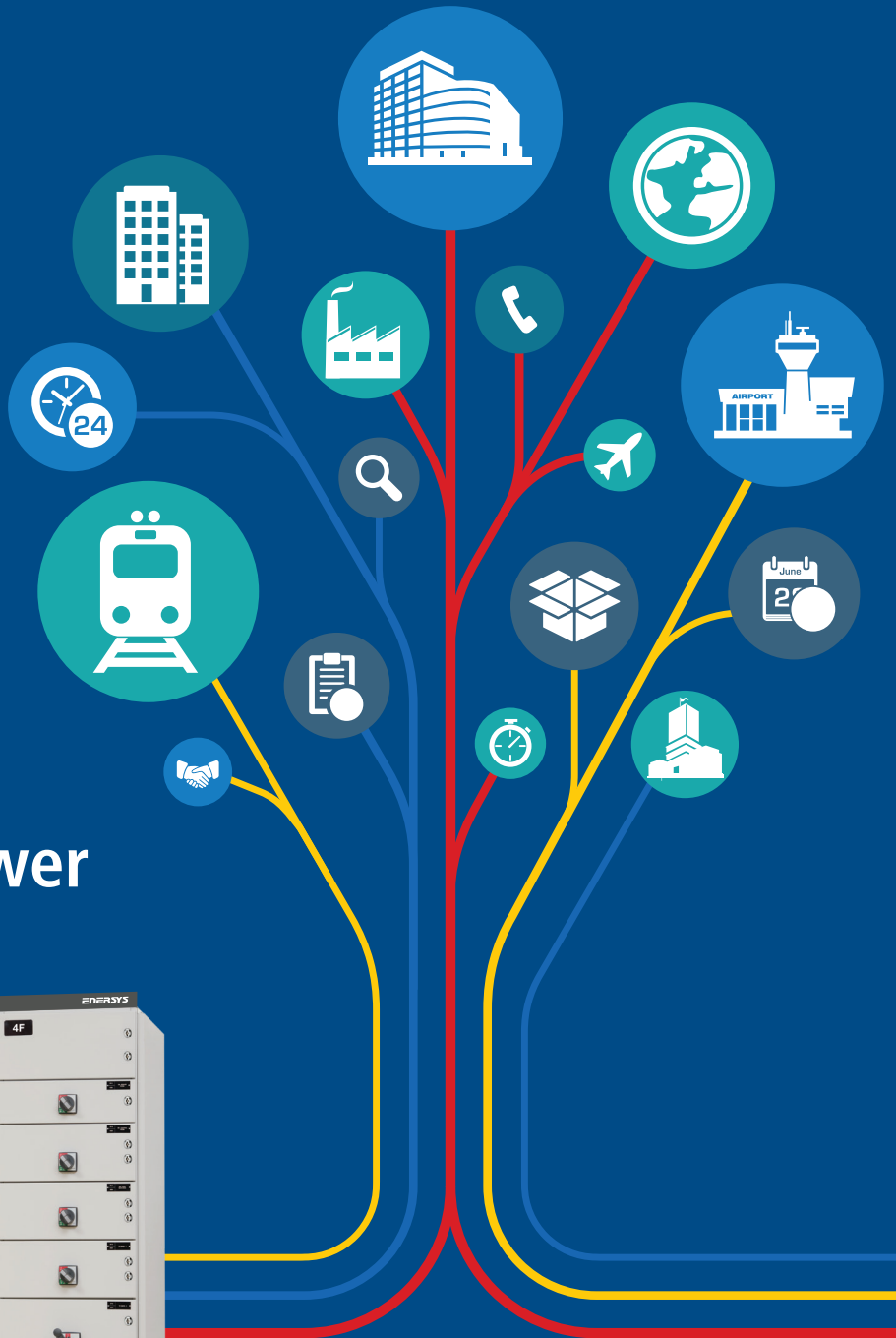


The in-demand Solution for Power Distribution



Winner of Deming Prize 2019



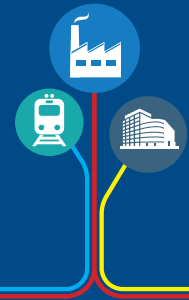
Good quality products and customer service, continuous improvement in processes, systems and capabilities are the hallmark of leaders in business.

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.

Petrochemical



Offshore



Defence



Power



Pharma Lab

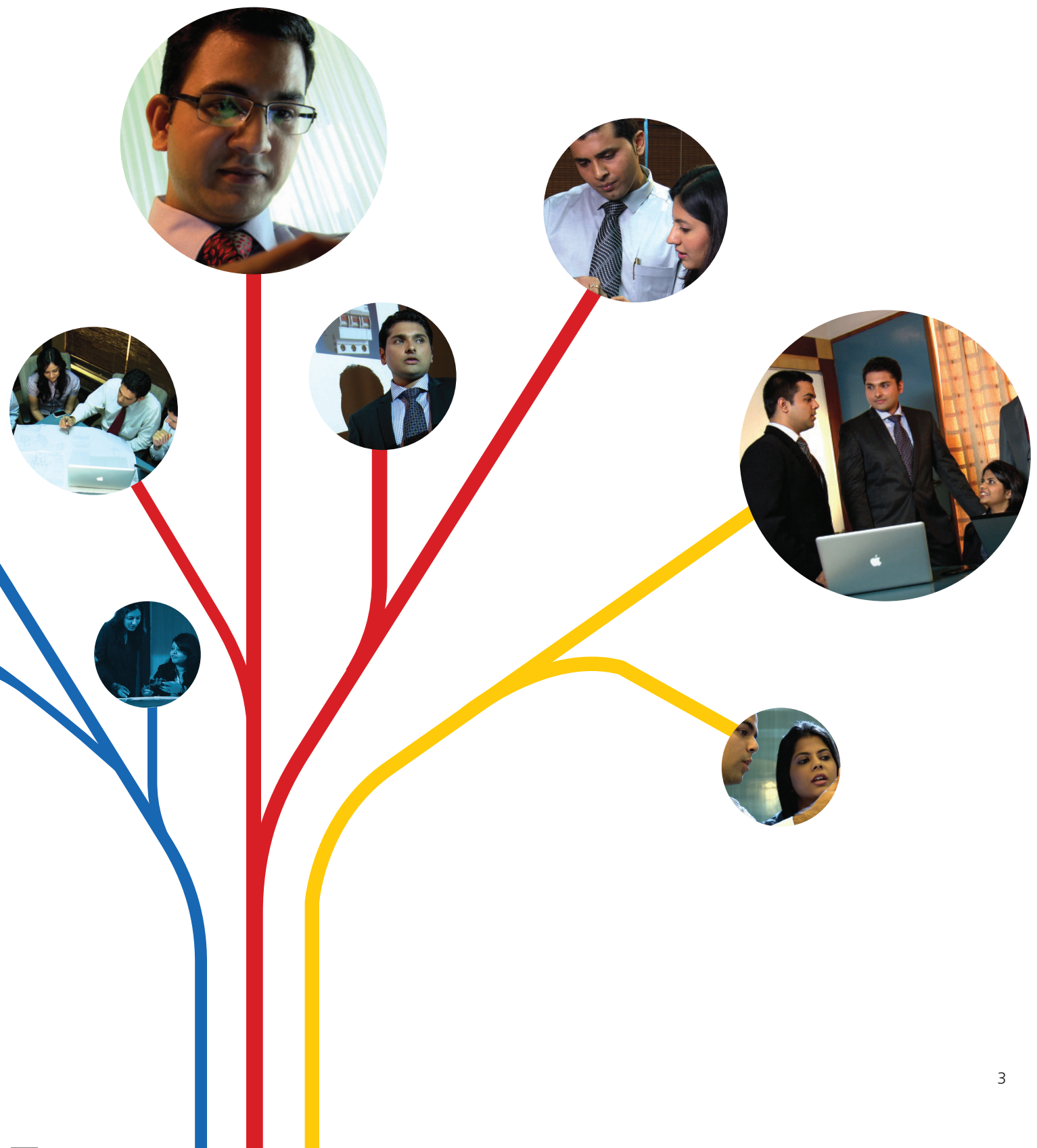


Our People

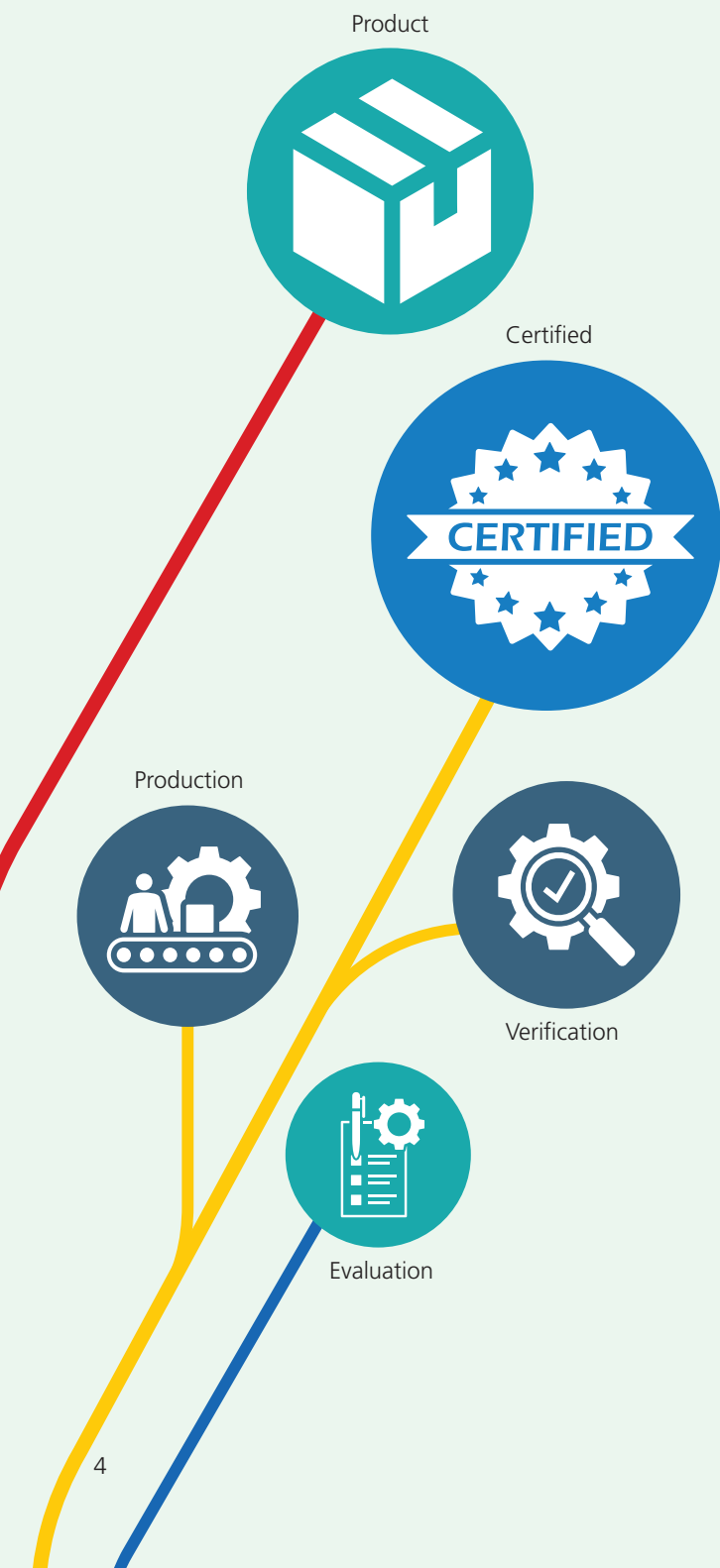
Our people are selected from the best institutes countrywide.

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

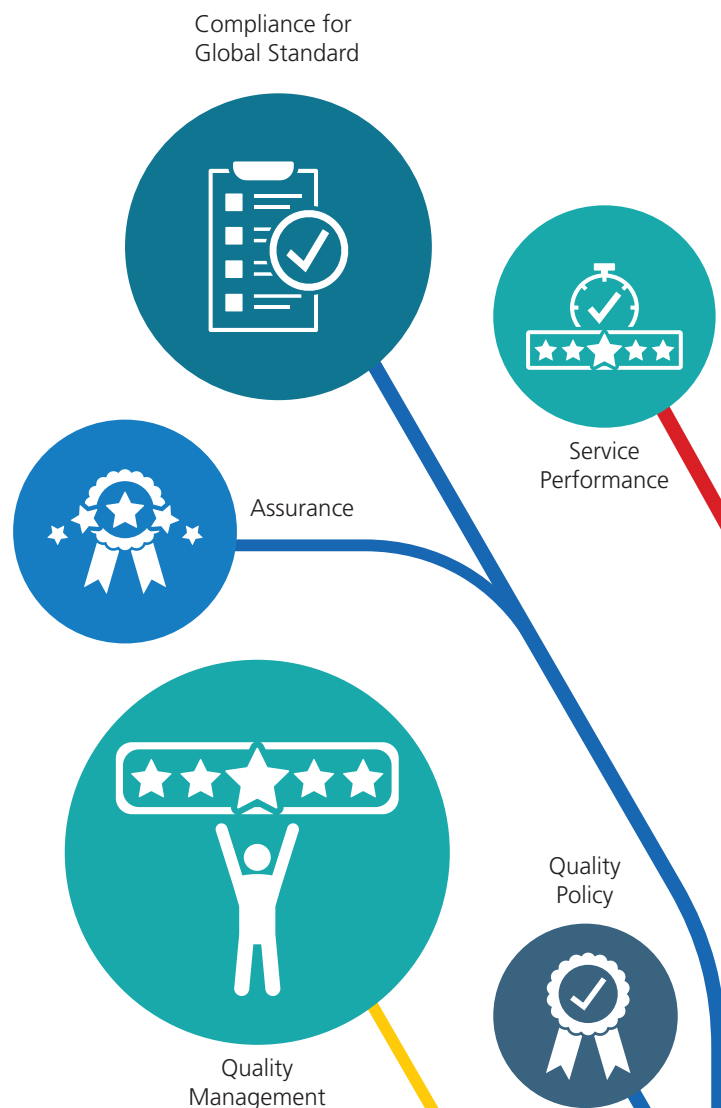
Quality Assurance and Reliability: Salient features

- 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.





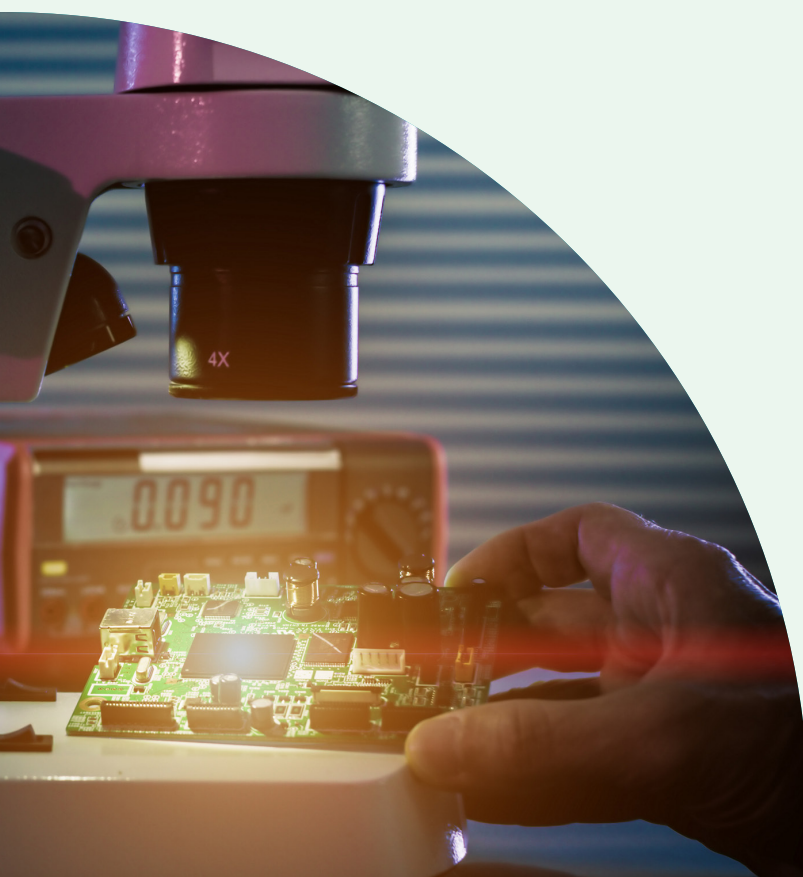
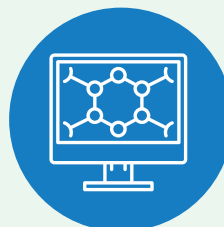
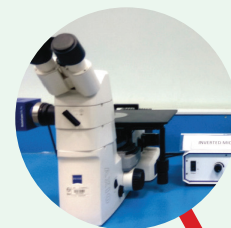
Quality Management System

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.

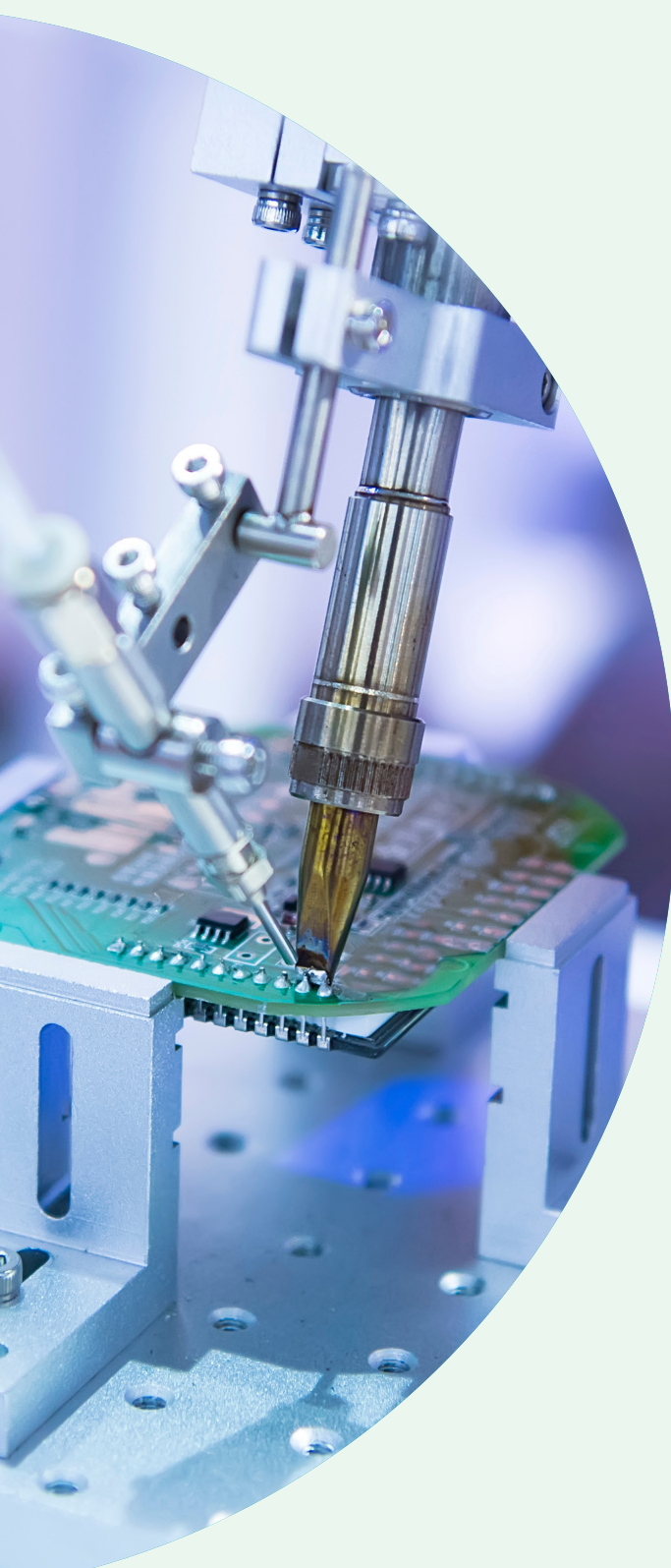
Mechanical Testing Laboratory: Dedicated laboratories for metallurgy, plastic testing and surface finish are equipped to evaluate the insulation properties of various types of plastics and other insulating material used in our products.

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

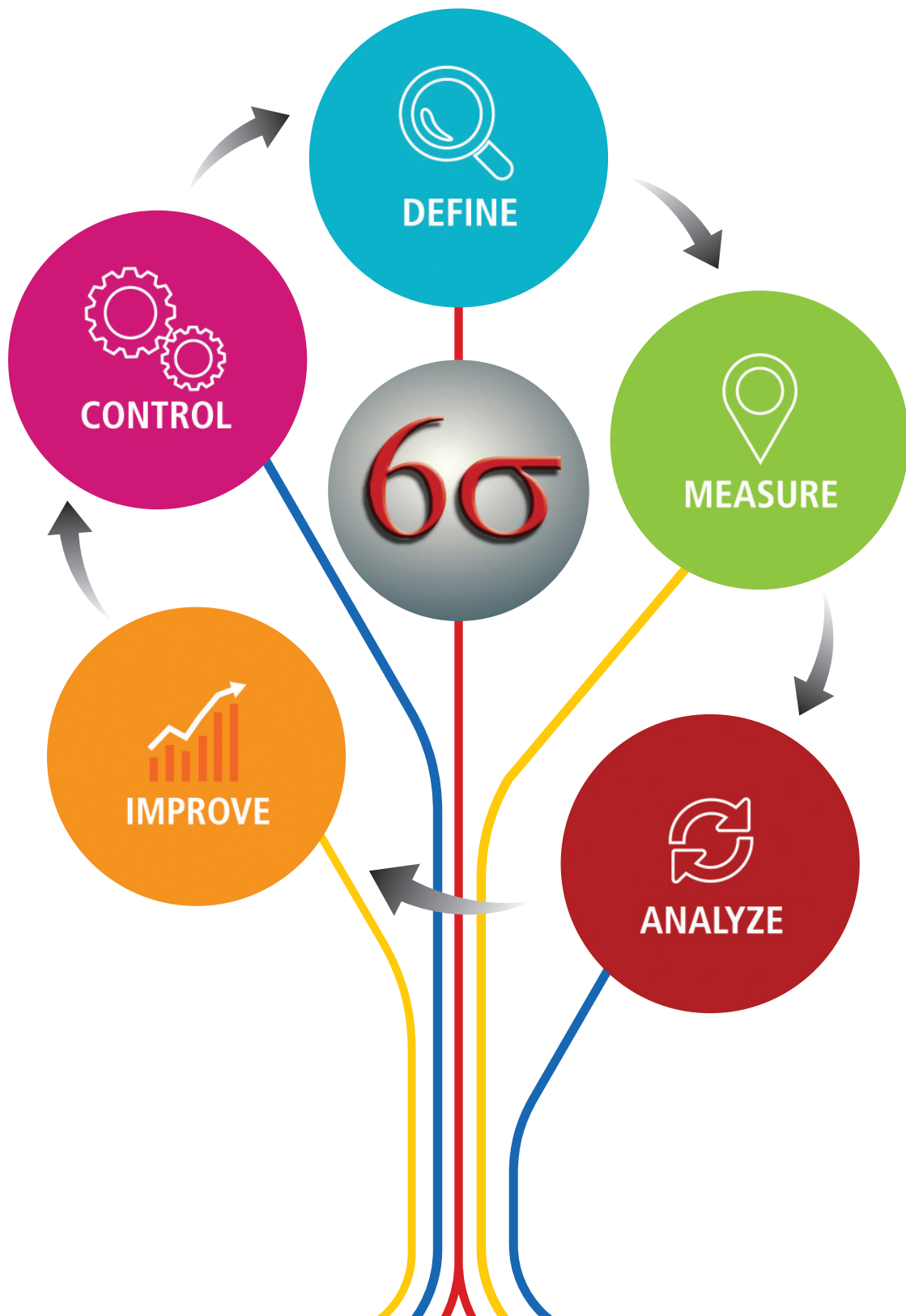
Quality control is strategically located across our manufacturing for:

- 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

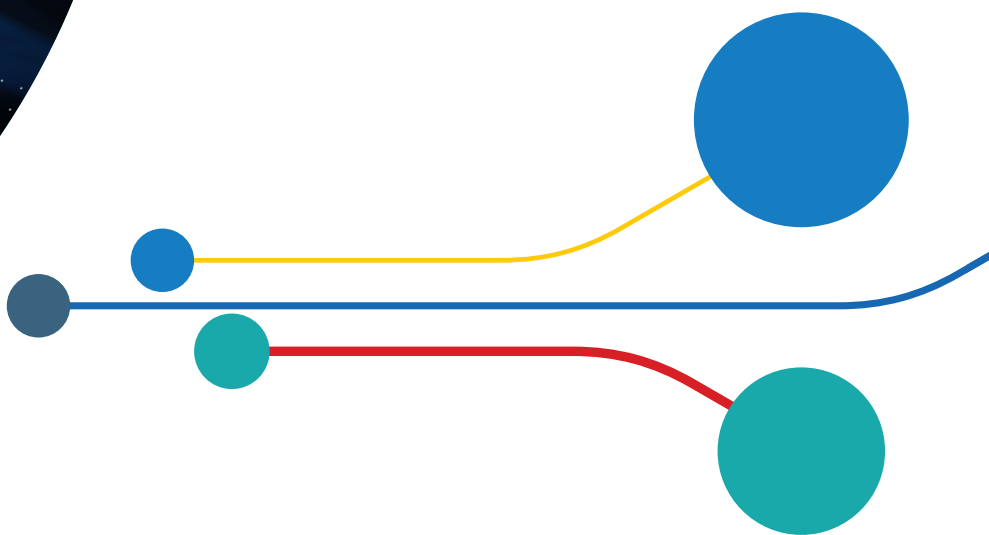


Applications



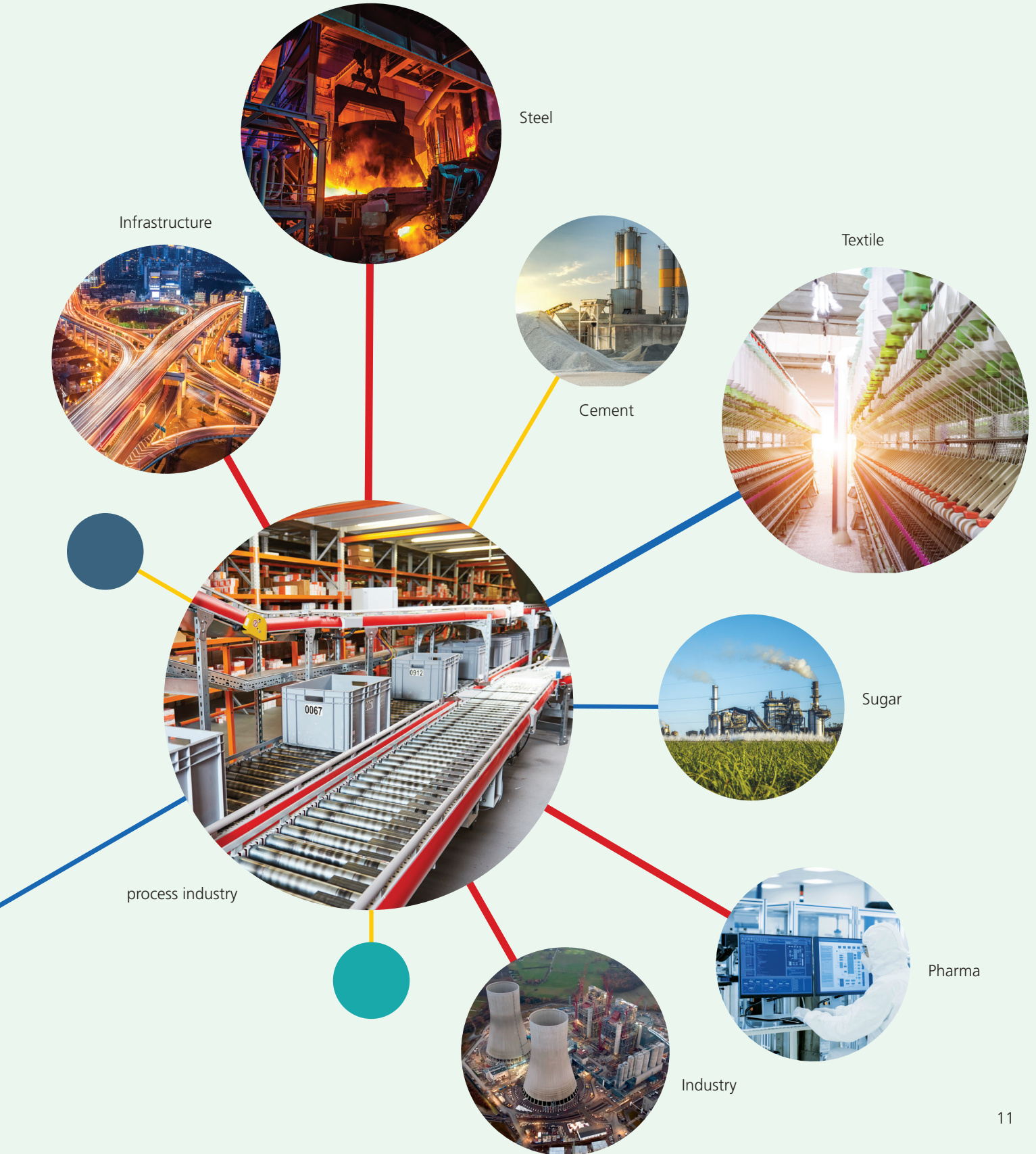
Innovation and Technology leader E&A provides a comprehensive range of solutions to exceed your present and future requirements. Our new range of distribution board is more reliable and safe; assuring you, an absolute uninterrupted power supply for your infrastructure.

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.

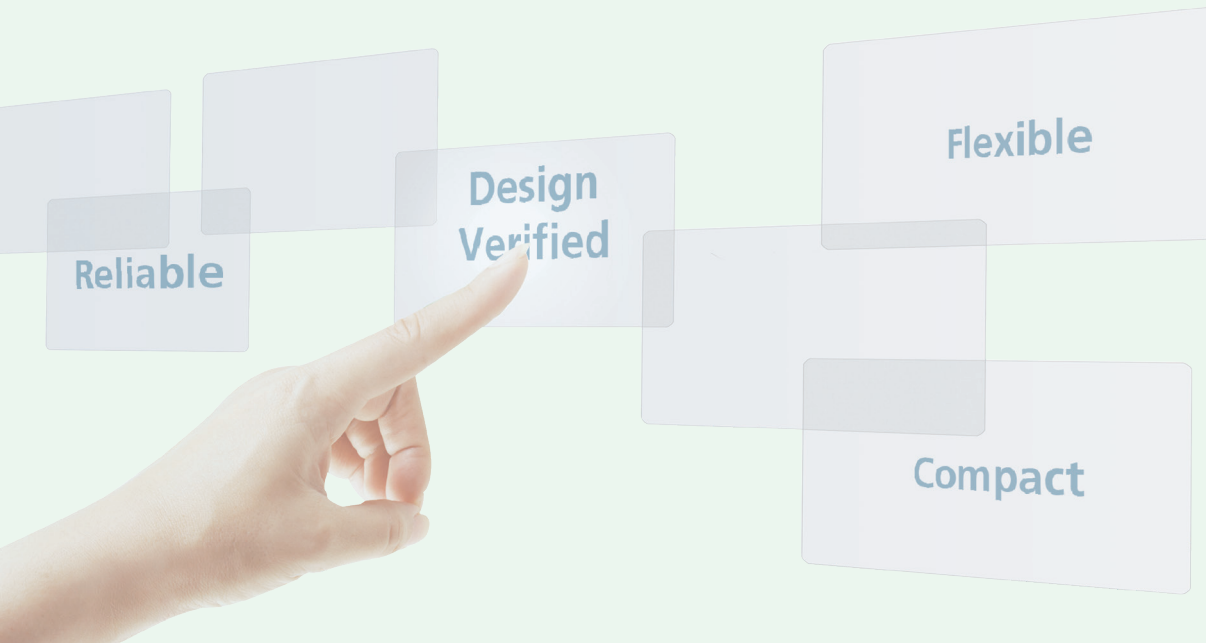


Integral safety - arc protection

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

Energys 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

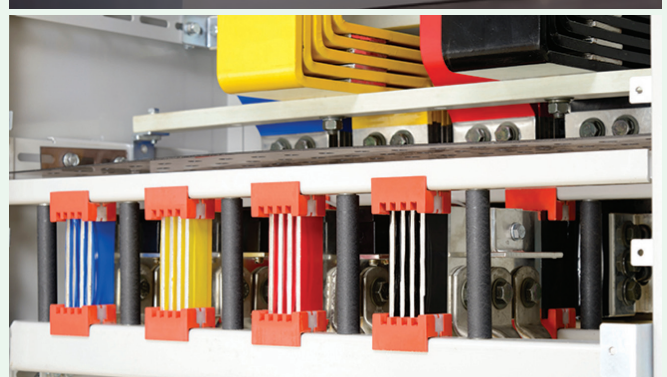
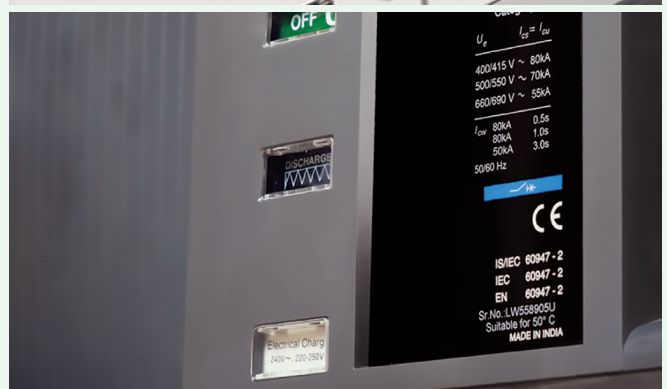
Energys range is well designed & engineered to perform satisfactorily in harsh environments consisting of dust, water, or pollution, making it suitable for all geographical sites or any critical ambience.

Unmistakable, Unmatched performance

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

Technical sophistication

Energys 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

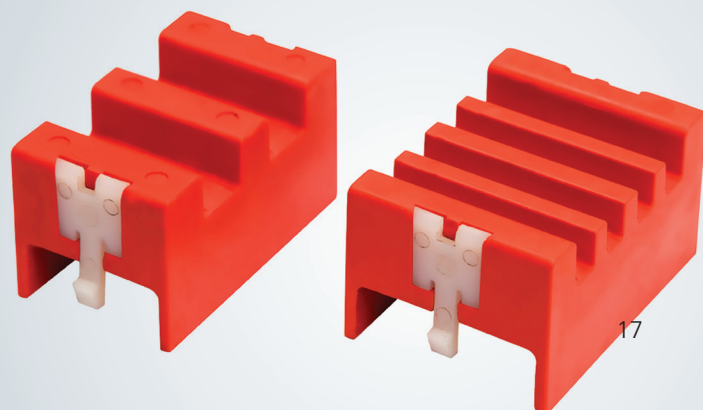
We can offer Enersys range as functional sub-assemblies, flat-packed versions, or fully preassembled to your specifications. Shorter lead time and speedy delivery, make it easy to react to your constant changing needs or enquiries.

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

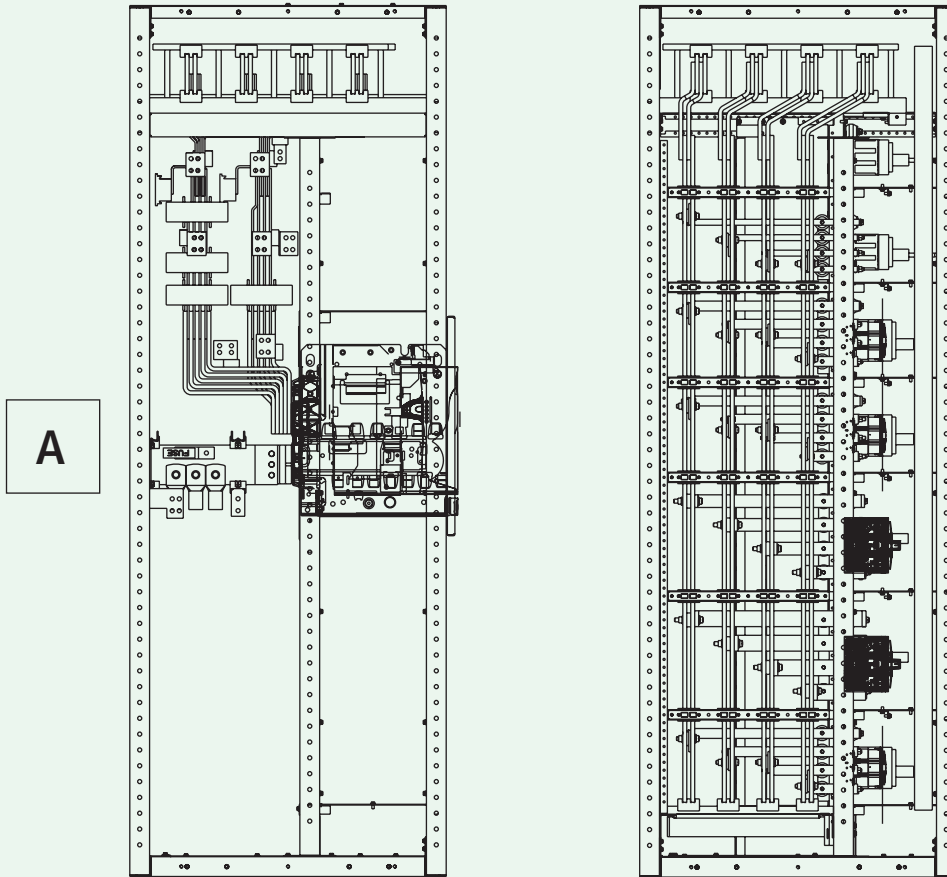
A separate control wireway, and horizontal main busbar chamber give you an easy way in for fishplate or splice joints, speeding up your installation.

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.

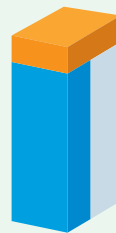


Typical Arrangements - Enersys-i



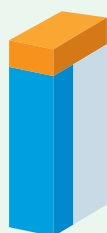
ACB Panel

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)

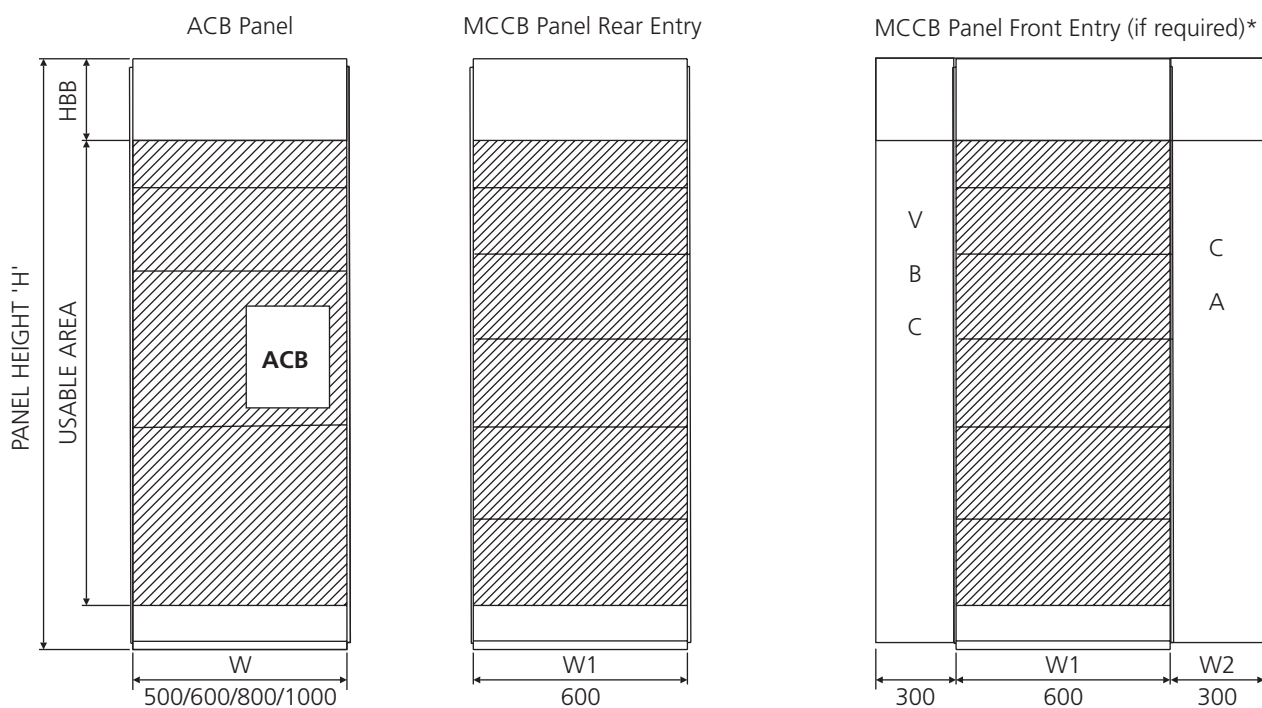
MCCB Panel (if required) *
300(VBC) + 600(W) + 300(CA) x 800(D)

- 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

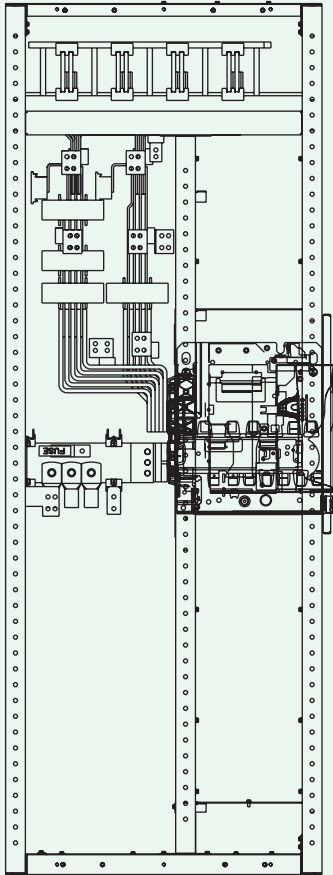
Standards		IEC61439
Electricals characteristics		
Voltage ratings	Rated operational voltage (U_e)	415 VAC
	Rated insulation voltage (U_i)	690V / 1000V AC
	Rated impulse withstand voltage (U_{imp})	12kV for Busbar & ACB Feeder, 8kV for MCCB feeders
	Rated frequency (f_n)	50 Hz
Current ratings	Main Horizontal 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)



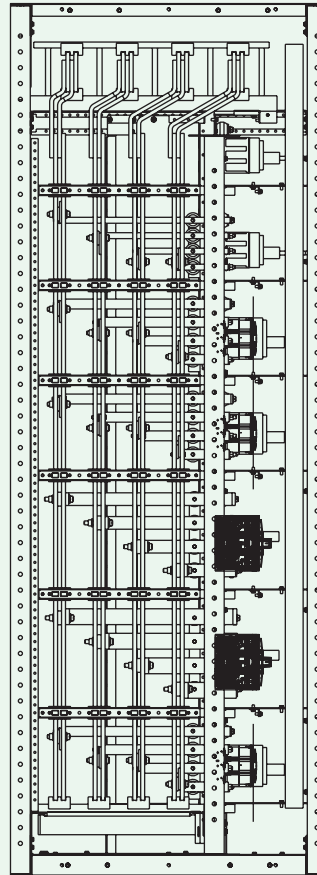
Technical Specifications - Enersys-i

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

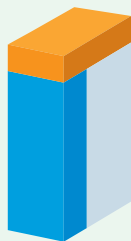
Typical Arrangements - Enersys-M



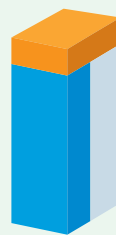
ACB Panel



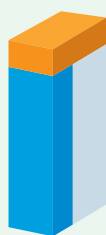
MCCB Panel



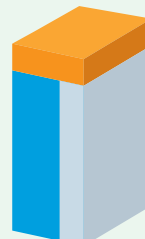
ACB Panel
500/600/800/1000(w) x 1000(D)



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



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



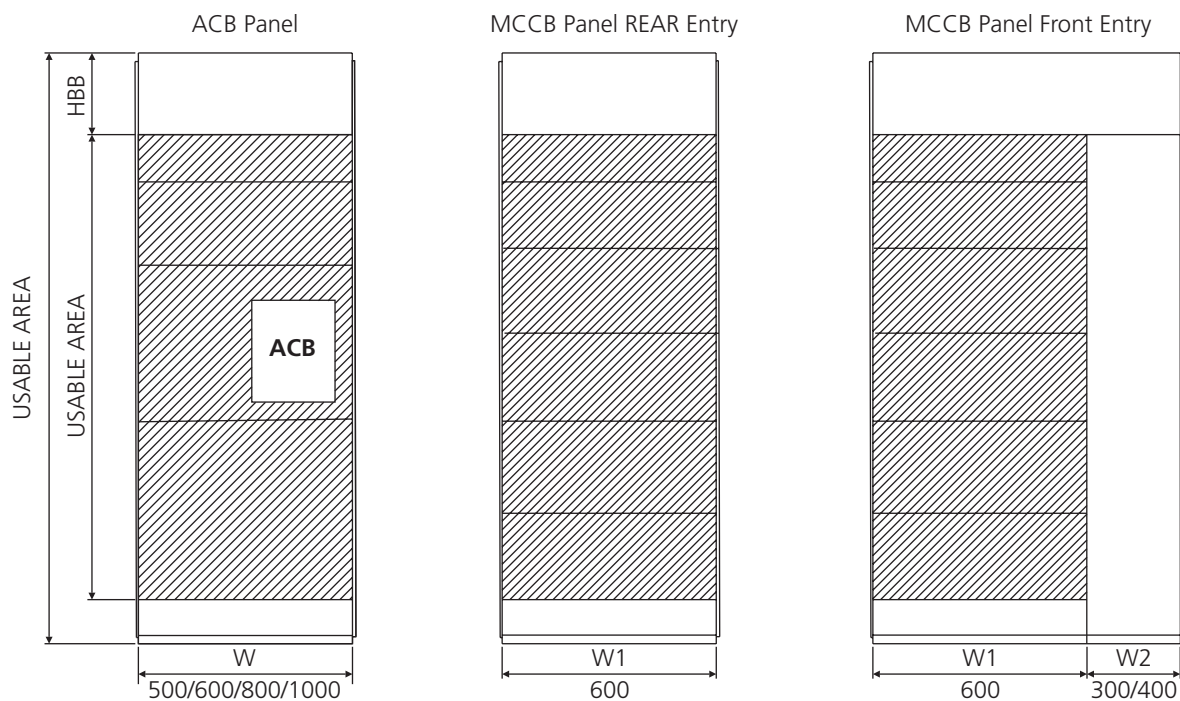
MCCB Panel
900/1000(w) x 800/1000(D)

- 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
	Overvoltage 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

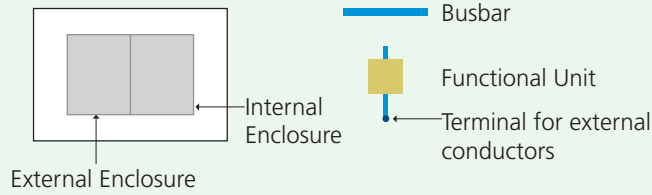


Moulded Case Circuit Breakers

- 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:



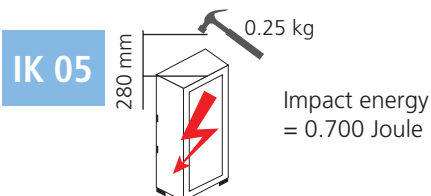
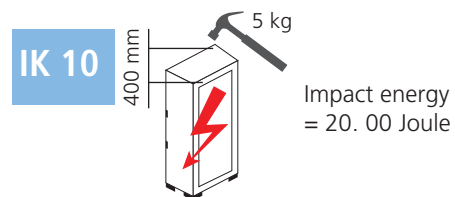
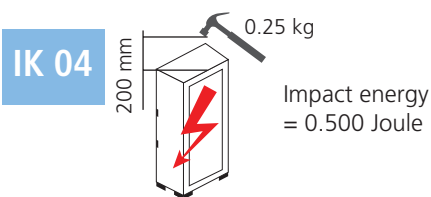
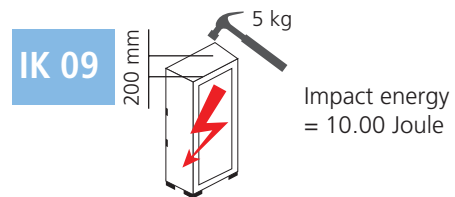
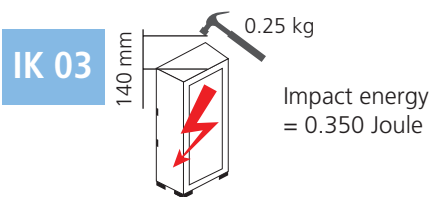
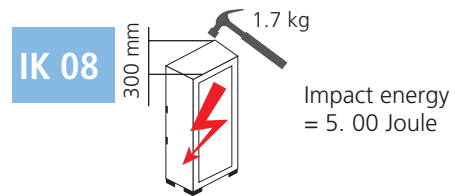
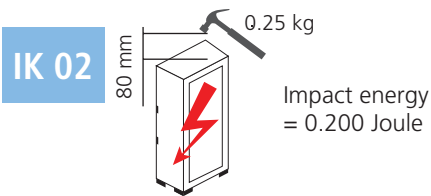
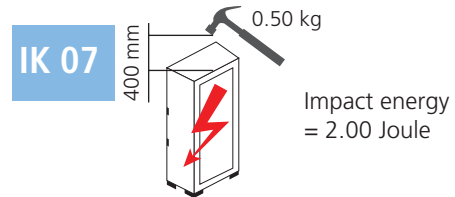
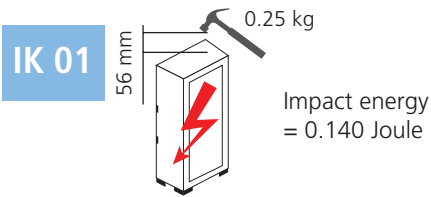
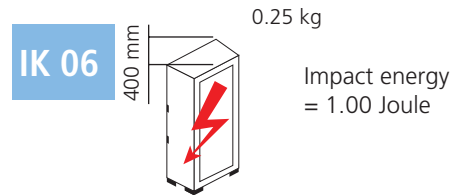
Form	Block Diagram	Explanation	
Form 1		No Internal separation	
Form 2a		Separation between busbars and functional unit	No separation between terminals and busbars
Form 2b		Separation between busbars and functional unit	Separation between terminals and busbars
Form 3a		Form 2a + Separation between functional unit	No separation between terminals and busbars
Form 3b		Form 3a + Separation between functional unit and terminals	Separation between terminals and busbars
Form 4a		Form 2b + Separation between functional unit	Terminals in same compartment as connected functional units
Form 4b		Form 3b + Separation between terminals and busbars	Terminals not in the same compartment as connected functional units

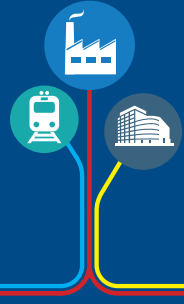


Impact resistant (Ik 10)

- 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



Electrical Standard Products (ESP) Offices:

HEAD OFFICE

L&T Electrical & Automation
L&T Business Park, TC 2, Tower 'B'
3rd Floor, Gate No 5
Saki Vihar Road, Powai
Mumbai 400 072
Tel: 022-67052874 / 2737 / 1156
e-mail: cic@LNTEBG.com

BRANCH OFFICES

L&T Electrical & Automation
501, Sakar Complex I
Opp. Gandhigram Rly. Station
Ashram Road
Ahmedabad 380 009
Tel: 079 4900 4000/4001
e-mail: esp-ahm@LNTEBG.com

L&T Electrical & Automation
No 38, Cubbon Road
Bengaluru 560 001
Tel: 080-46136103 / 100
e-mail: esp-blr@LNTEBG.com

L&T Electrical & Automation
131/1, Zone II, Maharana Pratap Nagar
Bhopal 462 011
e-mail: esp-bho@LNTEBG.com

L&T Electrical & Automation
Plot No. 559, Annapurna Complex
Lewis Road
Bhubaneswar 751 014
Tel: 0674-2436690 / 2436696
e-mail: esp-bsr@LNTEBG.com

L&T Electrical & Automation
Aspire Towers, 4th Floor
Plot No. 55, Phase-I
Industrial & Business Park
Chandigarh 160 002
Tel: 0172-4646840 / 41 / 42 / 46 / 53
e-mail: esp-chd@LNTEBG.com

L&T Electrical & Automation
L&T Construction Campus
TC-1 Building, II Floor
Mount-Poonamallee Road
Manapakkam
Chennai 600 089
Tel: 044-2270 6800
e-mail: esp-maa1@LNTEBG.com

L&T Electrical & Automation
67, Appuswamy Road, Post Bag 7156
Opp. Nirmala College
Coimbatore 641 045
Tel: 0422-4588120 / 1 / 5
e-mail: esp-cbe@LNTEBG.com

L&T Electrical & Automation
3rd Floor, 1&2 Vijay Park,
Main Chakrata road
Ballapur Chowk
Dehradun 248001
Tel: +91 9582252411

L&T Electrical & Automation
Khairasol, Degaul Avenue
Durgapur 713 212
Tel: 0343-2540448 / 2540449 / 2540443
e-mail: esp-dgp@LNTEBG.com

L&T Electrical & Automation
5, Milanpur Road, Bamuni Maidan
Guwahati 781 021
Tel: +91 8876554417
e-mail: esp-ghy@LNTEBG.com

L&T Electrical & Automation
2nd Floor, Vasantha Chambers
5-10-173, Fateh Maidan Road
Hyderabad 500 004
Tel: 040-67015052
e-mail: esp-hyd@LNTEBG.com

L&T Electrical & Automation
Monarch Building, 1st Floor
D-236 & 237, Amrapali Marg
Vaishali Nagar
Jaipur 302 021
Tel: 0141-4385914 to 18
e-mail: esp-jai@LNTEBG.com

L&T Electrical & Automation
Akashdeep Plaza, 2nd Floor
P. O. Golmuri
Jamshedpur 831 003
Jharkhand
Tel: 0657-2340502 / 08
e-mail: esp-jam@LNTEBG.com

L&T Electrical & Automation
Skybright Bldg; M. G. Road
Ravipuram Junction, Ernakulam
Kochi 682 016
Tel: 0484-4409420 / 4 / 5 / 7
e-mail: esp-cok@LNTEBG.com

L&T Electrical & Automation
3-B, Shakespeare Sarani
Kolkata 700 071
Tel: 033-48006001
e-mail: esp-ccu@LNTEBG.com

L&T Electrical & Automation
No. 10, Fortuna Tower, 2nd Floor
Rana Pratap Marg, Near NBRI
Lucknow 226001
e-mail: esp-lko@LNTEBG.com

L&T Electrical & Automation
No: 73, Karpaga Nagar, 8th Street
K. Pudur
Madurai 625007
Tel: 0452-2567405 / 2561068 / 2561657
e-mail: esp-mdu@LNTEBG.com

L&T Electrical & Automation
L&T Business Park, TC 2, Tower 'B'
3rd Floor, Gate No 5
Saki Vihar Road, Powai
Mumbai 400 072
Tel: 022-67052874 / 2737 / 1156
e-mail: esp-bom@LNTEBG.com

L&T Electrical & Automation
Unnati Building, 2nd Floor
Automation Campus
A-600, TTC Industrial area
Shil-Mahape road, Mahape
Navi Mumbai 400710
Tel: +91 22 67226502 / 67226300

L&T Electrical & Automation
12, Shivaji Nagar
North Ambajhari Road
Nagpur 440 010
Tel: 0712-2260012 / 6606421
e-mail: esp-nag@LNTEBG.com

L&T Electrical & Automation
32, Shivaji Marg,
Near Moti Nagar,
P. O. Box 6223
New Delhi 110 015
Tel: 011-41419514 / 5 / 6
e-mail: esp-del@LNTEBG.com

L&T Electrical & Automation
Grand Chandra, 2nd Floor
Fraser Road
Opposite Doordarshan Kendra
Patna 800001
e-mail: esp-patna@LNTEBG.com

L&T Electrical & Automation
L&T House
P. O. Box 119
191/1, Dhole Patil Road
Pune 411 001
Tel: 020-48544395 / 48544279
e-mail: esp.pnq@LNTEBG.com

L&T Electrical & Automation
Crystal Tower,
4th Floor, G. E. Road
Telibandha
Raipur 492 006
Tel: 0771-4283214
e-mail: esp-raipur@LNTEBG.com

L&T Electrical & Automation
3rd Floor
Vishwakarma Chambers
Majura Gate, Ring Road
Surat 395 002
Tel: 0261-2473726
e-mail: esp-sur@LNTEBG.com

L&T Electrical & Automation
Radhadaya Complex
Old Padra Road
Near Charotar Society
Vadodara 390 007
Tel: 0265-6613610 / 1 / 2
e-mail: esp-bar@LNTEBG.com

L&T Electrical & Automation
Door No. 49-38-14/3/2, 1st floor,
NGGO's Colony, Akkayyapalem,
Visakhapatnam 530 016
Tel: 0891-2791126 / 2711125
e-mail: esp-viz@LNTEBG.com

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L&T Electrical & Automation, Electrical Standard Products

L&T Business Park, TC-2, Tower B, 3rd Floor, Gate No. 5, Saki Vihar Road, Powai,
Mumbai - 400 072, INDIA www.Lntebg.com

Customer Interaction Center (CIC)

BSNL / MTNL (toll-free): 1800 233 5858 Reliance (toll-free): 1800 200 5858
Tel: 022 6774 5858 Email: cic@Lntebg.com Web: www.Lntebg.com