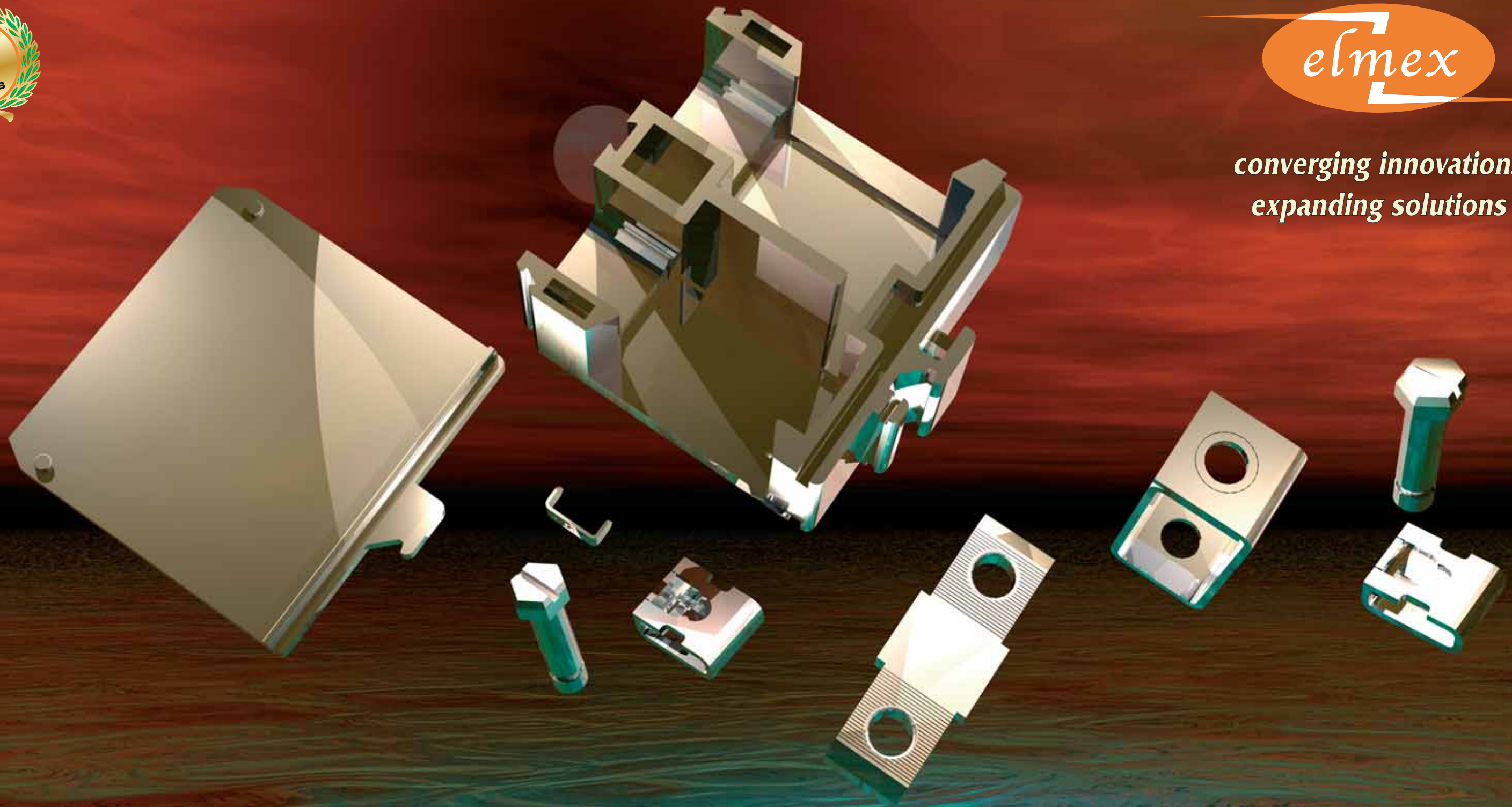


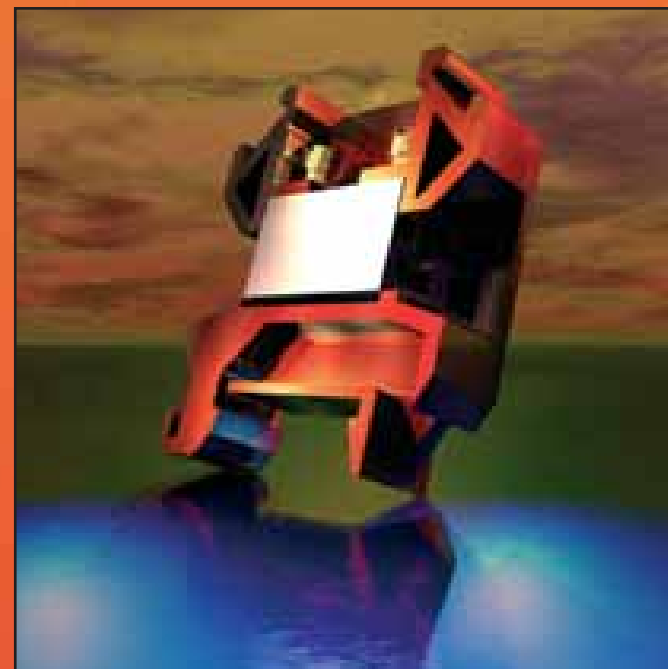
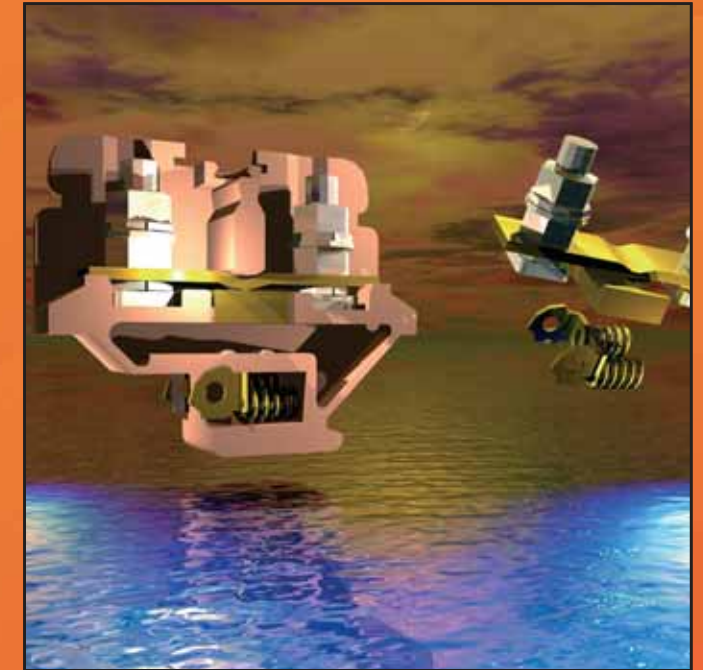
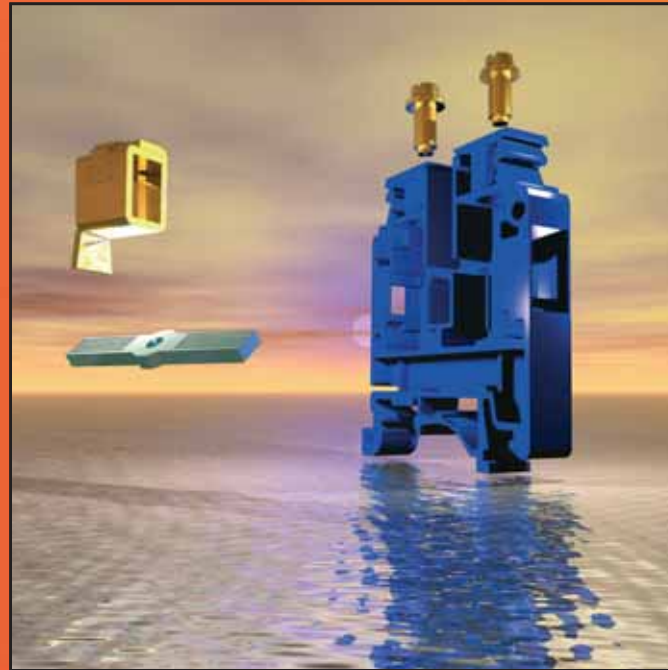


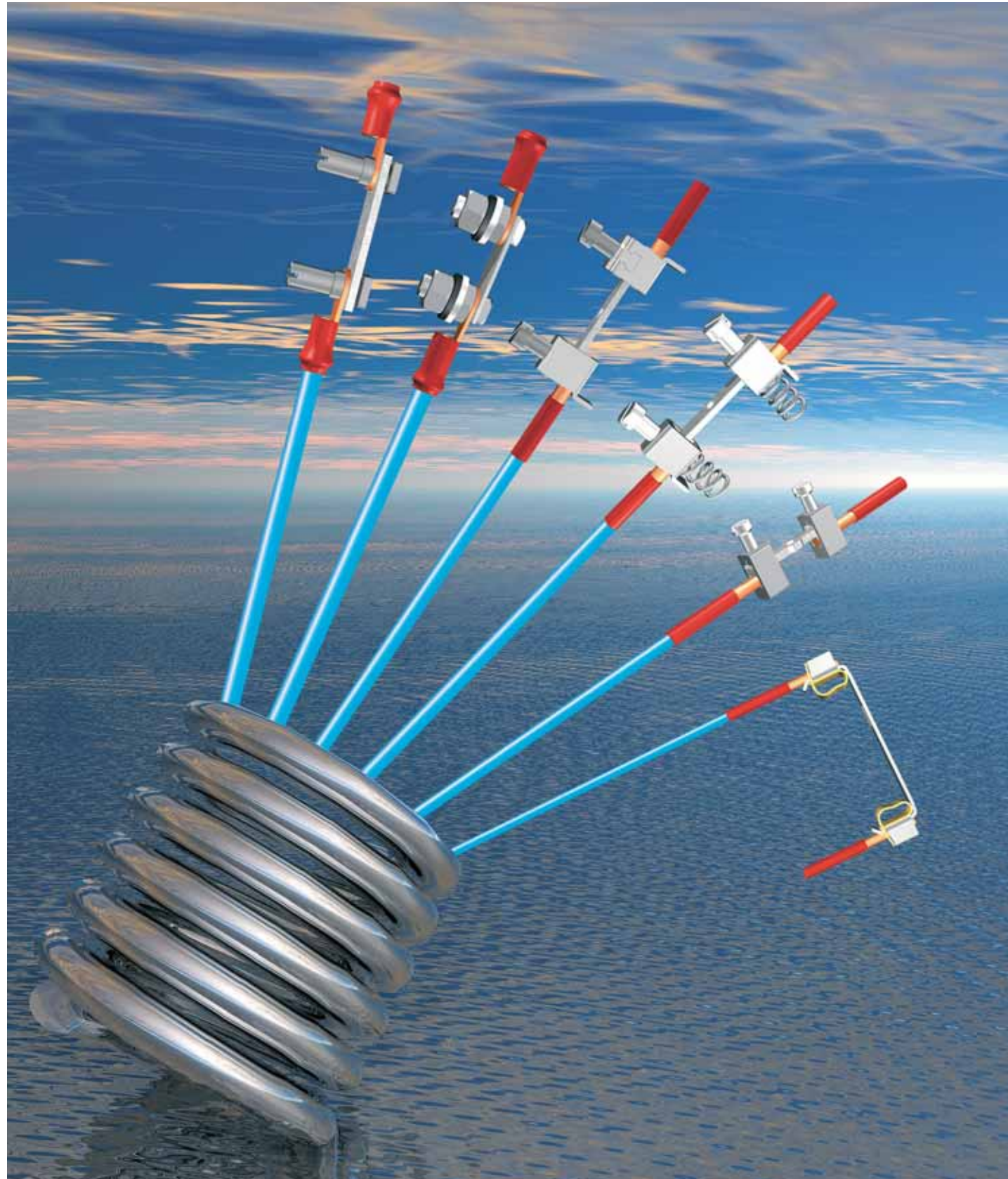
*converging innovations
expanding solutions*



Elmex Controls Pvt. Ltd.
Vadodara, India

THE WORLD OF ELMEX TERMINALS





Index

Sr. No.	Title	Page
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ELMEX : A BRIEF STORY

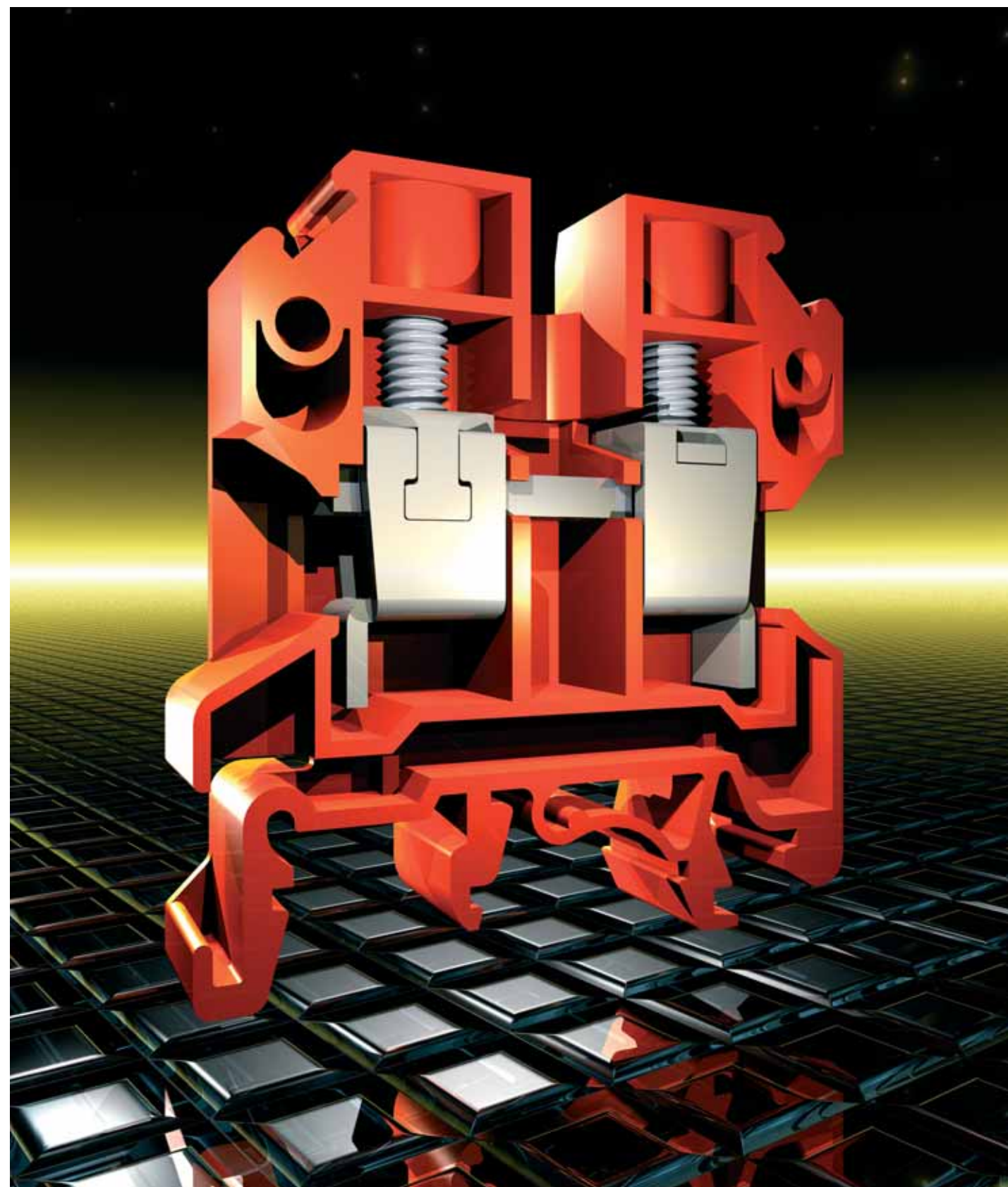
elmex is a pioneer in the field of Electrical Wire Termination Technology in India. **elmex** started its journey in 1963 with the manufacturing of Rail Mounted Clip-On type Terminal Blocks for the Switchgear Industry. Steered on by the vision of founder-chairman, Mr. J D Ray, **elmex** has moved from strength to strength and is regarded as the leader in manufacturing terminal blocks in the country.

The steady and systematic growth coupled with the desire for incremental innovation, unfaltering customer service and steadily increasing manufacturing productivity has brought **elmex** to its current level of competence, marked by a host of Global Approvals for the wide range of products. **elmex** manufacturing plants are ISO 9001:2008 and ISO 14001:2004 certified by TÜV Süddeutschland. Our products conform to International Standard IEC 60947-7-1 and are certified by TÜV Süddeutschland. Our products also carry certification from Underwriter's Laboratories Inc. - USA & Canada, UL International Demko A/S - Denmark, Intertek ETL SEMKO - Sweden, SGS Fimko Ltd. - Finland, Nemko AS - Norway, Det Norske Veritas - Norway (for ATEX).

elmex's techno-economic competitiveness has led many multinationals to choose **elmex** as a global outsourcing partner. **elmex** is regarded as a trustworthy and reliable partner when it comes to product quality and efficient delivery schedules. All of this is made possible because of the commitment and competence of 'team **elmex**' and its desire for continuous improvement and innovations.

elmex's brand equity is reflected in the fact that we are the preferred choice of some of the biggest national and multinational companies such as ABB, Alstom, Areva, Siemens, Honeywell, GE, L&T, BHEL and NPC.

Elmex Electric Pvt. Ltd. emerged from **elmex** in 1993 and introduced, for the first time in India, the concept of DIN-rail mounted Interface Modules for Control and Automation Industry. The state-of-the-art manufacturing facility is located 20 kms



from our Corporate Headquarters, on Vadodara - Mumbai National High Way.

Manufacturing Infrastructure :

Over the years **elmex** has continuously updated their infrastructure. Today **elmex** is equipped with state-of-the-art machinery for tooling and manufacturing, such as : CNC Wire Cut Machine, CNC EDM Drill, Micro-processor based Automatic Injection Molding Machines with Auto-loaders Ultrasonic Welding and Wave-Soldering Machines, Computerized Multifforming Machine, Pitch-Control Auto-Tapping and Internal Thread Rolling Machine, etc.

Testing Facilities :

Special testing facilities like Salt-Spray Testing, Short Time Current Testing, Electrical and Mechanical Endurance Testing have been installed, in addition to facilities for Testing as per IEC, UL, CSA.

Quality Assurance :

elmex manufacturing operations are supported by fully computerized Design and Development for product and tool design, Testing Laboratory for conducting tests according to international Specifications, and a Quality Management System (ISO 9001:2008) operating through out the various **elmex** units established in Vadodara and around.

In addition, the quality management system at **elmex** is subjected to periodic inspection and audits by various international certification bodies like UL India, UL International Demko A/S and DNV for product certification and maintenance.

Marketing Network :

elmex has an extensive network of more than 100 dealers across India. These stock points helps to serve customers with prompt delivery support as and when required. Apart from these dealers, **elmex** has representatives and resident engineers at strategic locations to support customers for technical queries.

Quality Policy

We shall manufacture and deliver Quality Goods which build up and sustain unfailing Customer Satisfaction and Confidence and ensure the same by our high level of commitment to Quality.

We shall continue to provide our Customers with value added products through continuous improvements in products and processes and achieve Total Quality Management with total employee involvement.

Environmental Policy

We as an organisation are committed to adopt environment friendly practices in our operations and we are committed to implement Environmental Management System as per standard ISO 14001.

We shall continue to comply with legal requirements in force as applicable to our operations.

We are committed to continual improvements in performance of our Environmental Management System in respect of reducing waste, conservation of natural resources and prevention of pollution. We shall promote environment awareness by providing training to our employees. We shall communicate this policy to all our employees and stake holders.

APPROVALS

	UL Recognition for USA		CE Mark Conforming to IEC Specification
	c-UL Recognition for Canada		CE Mark for explosion-proof Approval as per ATEX directive
	D mark Certification for Denmark		For compliance of products with RoHS directive.
	S Mark Certification for Sweden		Quality System ISO 9001-2008
	FI mark Certification for Finland		Environment Management System ISO 14001-2004
	N Mark Certification for Norway		
	CSA Recognition for Canada & USA		

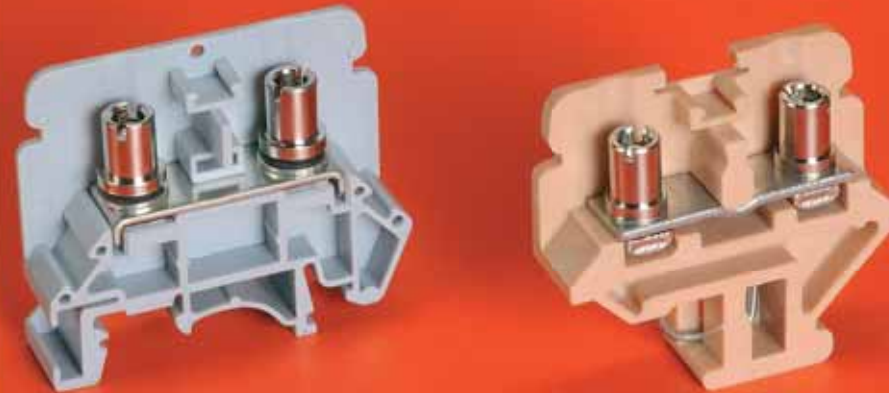


TERMINATION TECHNOLOGY FROM ELMEX

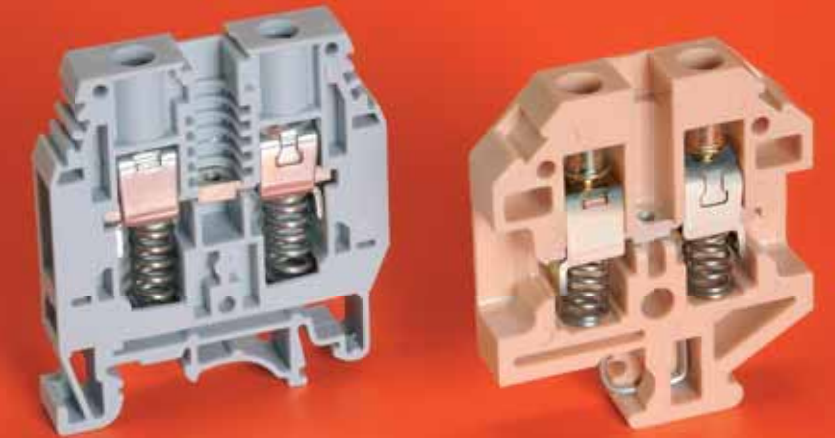
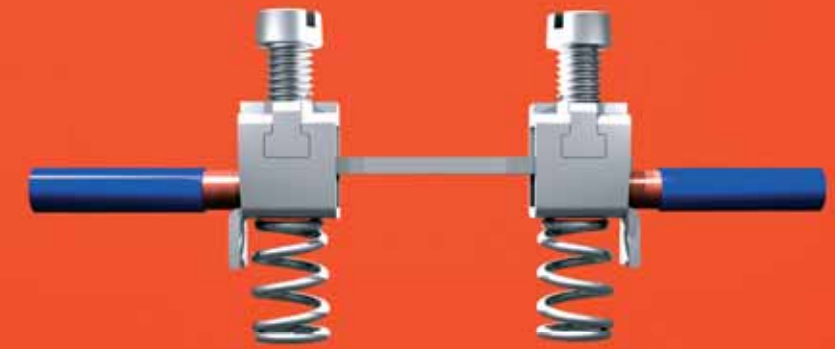
EXTRA SECURED – RING/FORK TERMINATION



EXTRA SECURED – RING/FORK TERMINATION



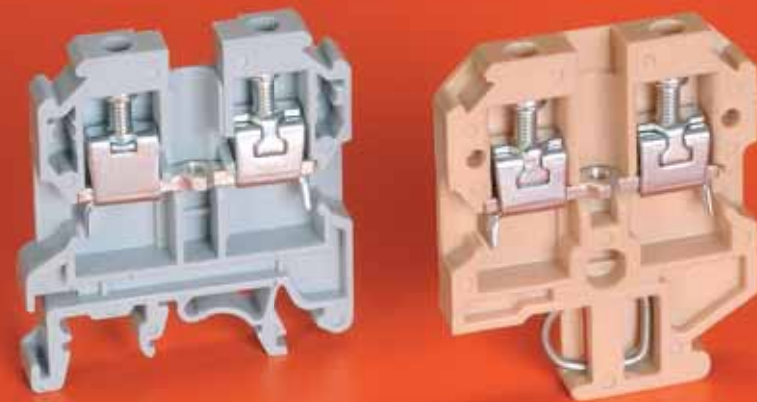
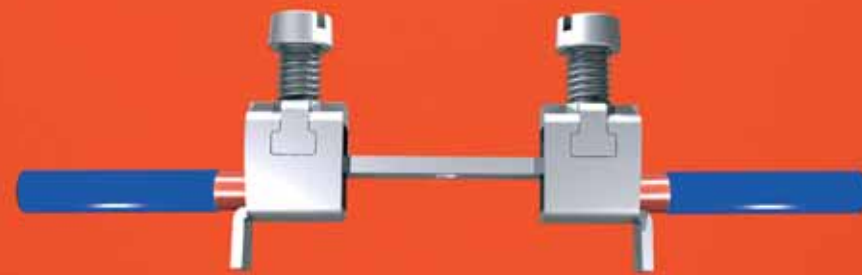
SPRING LOADED – VIBRATION RESISTANT





TERMINATION TECHNOLOGY FROM ELMEX

OVERLAPPED DOUBLE INTERLOCK



NON-FERROUS - CORROSION RESISTANT



SPRING CLAMP TERMINATION



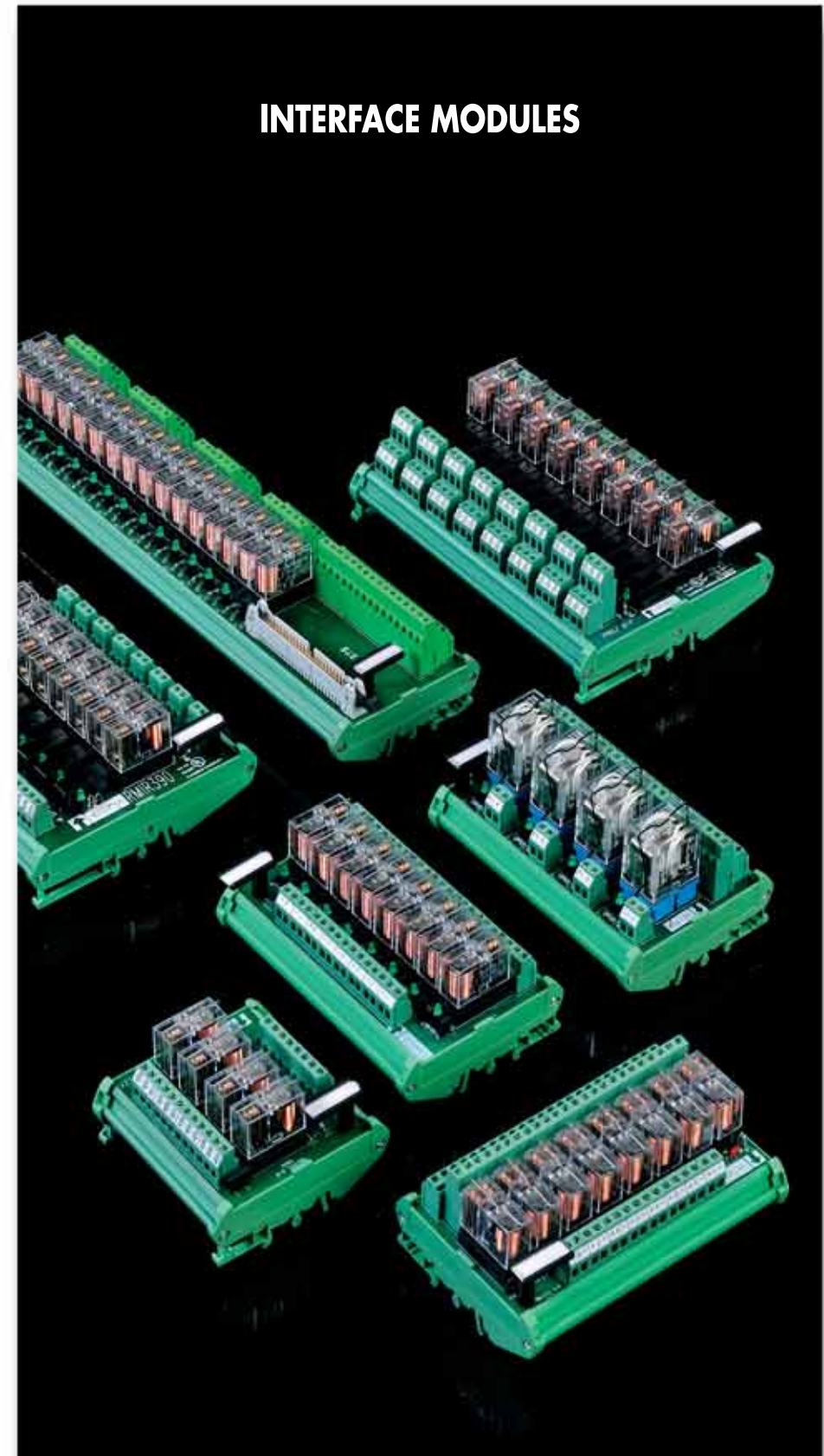


THE ELMEX PRODUCT RANGE

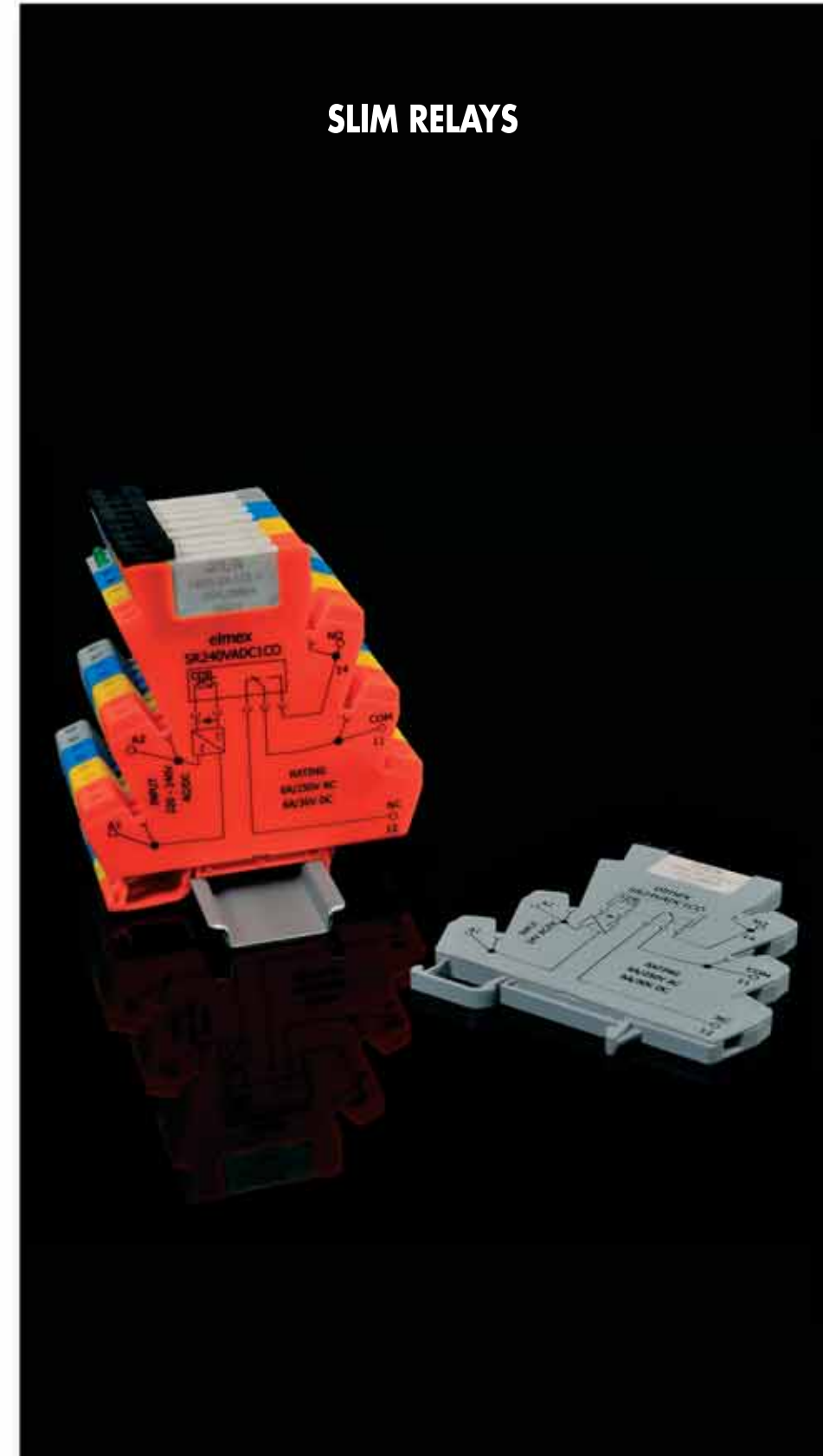
DIN RAIL MOUNTED CLIP-ON TERMINALS



INTERFACE MODULES



SLIM RELAYS





LOW VOLTAGE CURRENT TRANSFORMERS

TAPE INSULATED



RESIN ENCAPSULATED



PLASTIC CASING



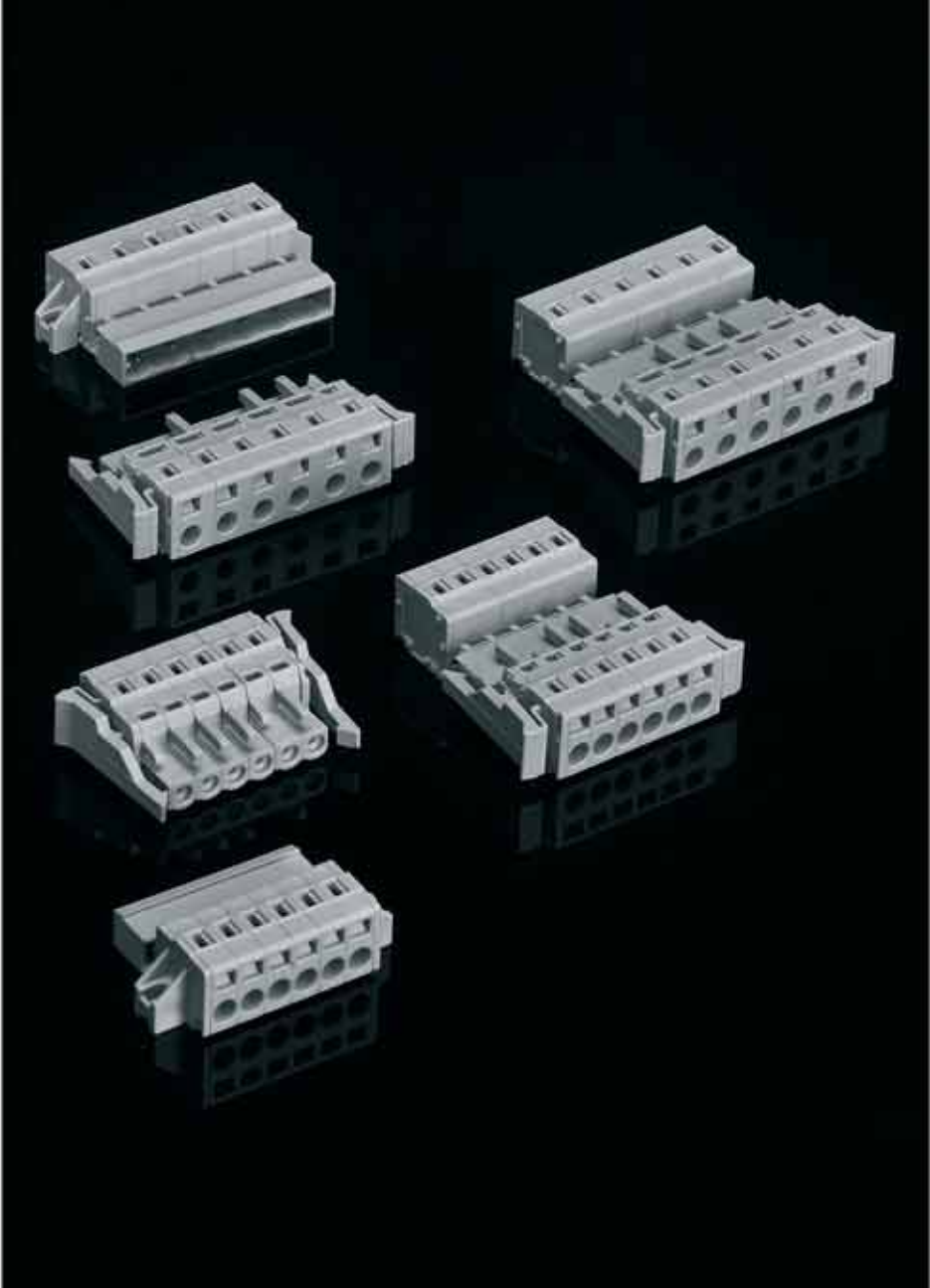


THE ELMEX PRODUCT RANGE

SOLAR CONNECTORS



PLUG AND SOCKET CONNECTORS

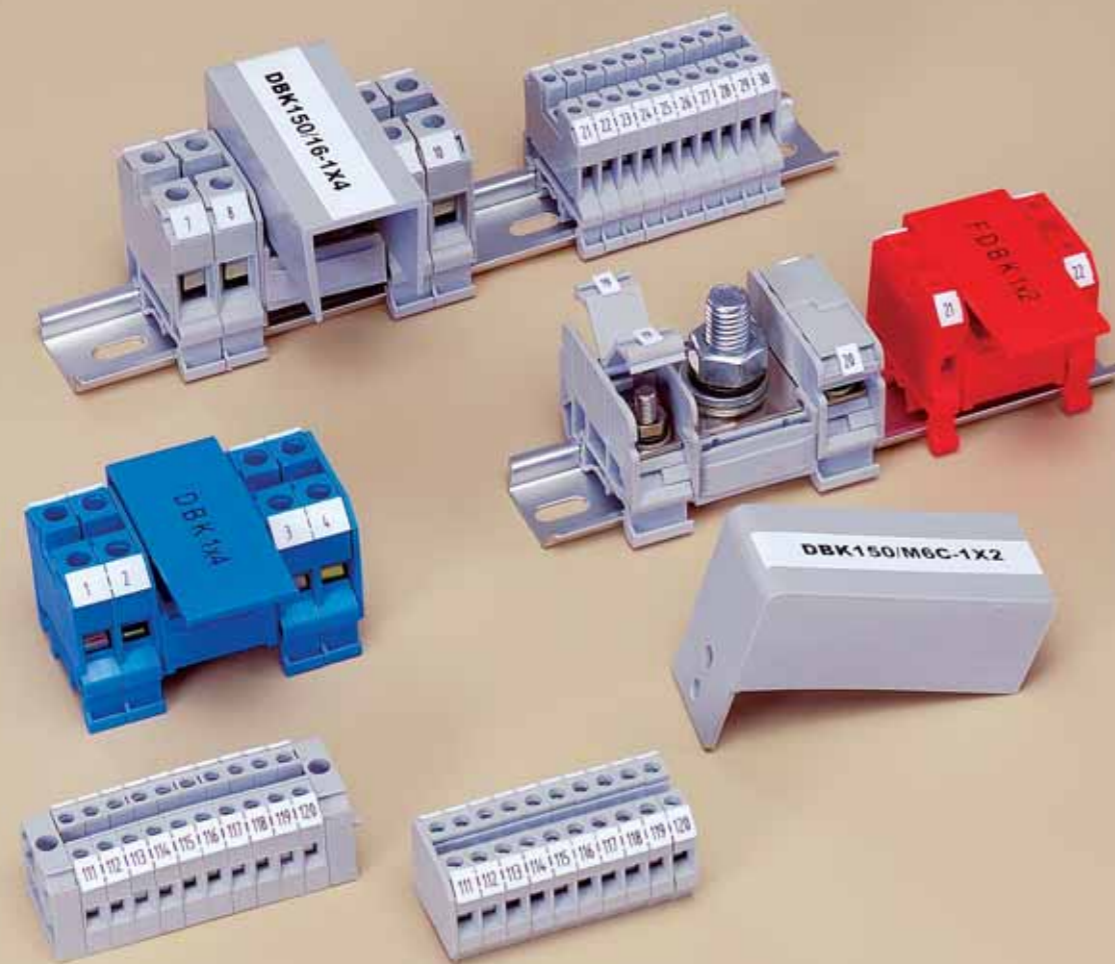


SPECIAL APPLICATION SWITCHES





elmex Power and Signal Distribution Solutions *Innovative, Compact, and Safe Design...*



DISTRIBUTION BLOCKS :

- ✓ Replaces Conventional Bus Bar
- ✓ Completely Shrouded, Finger Safe
- ✓ For Power/Signal Distribution and Centralised Earthing
- ✓ Wide Range : Upto 150 sq mm incoming and upto 35 sq mm outgoing

elmex Bus Bar Termination Solutions : *Safe, Proven, Advanced options...*



BUS BAR TERMINALS :

- ✓ Suitable for upto 240 sq mm conductor
- ✓ New Finger Safe and Shrouded Design also available
- ✓ Polyamide 6,6 version with safe mounting lock on DIN Rail
- ✓ Wide Range : SPT 35/70, DPBB 50/70/120/185/240, CBT 110/170/250/300



elmex Stud Termination Solutions :

A time-tested range now in Polyamide 6,6...

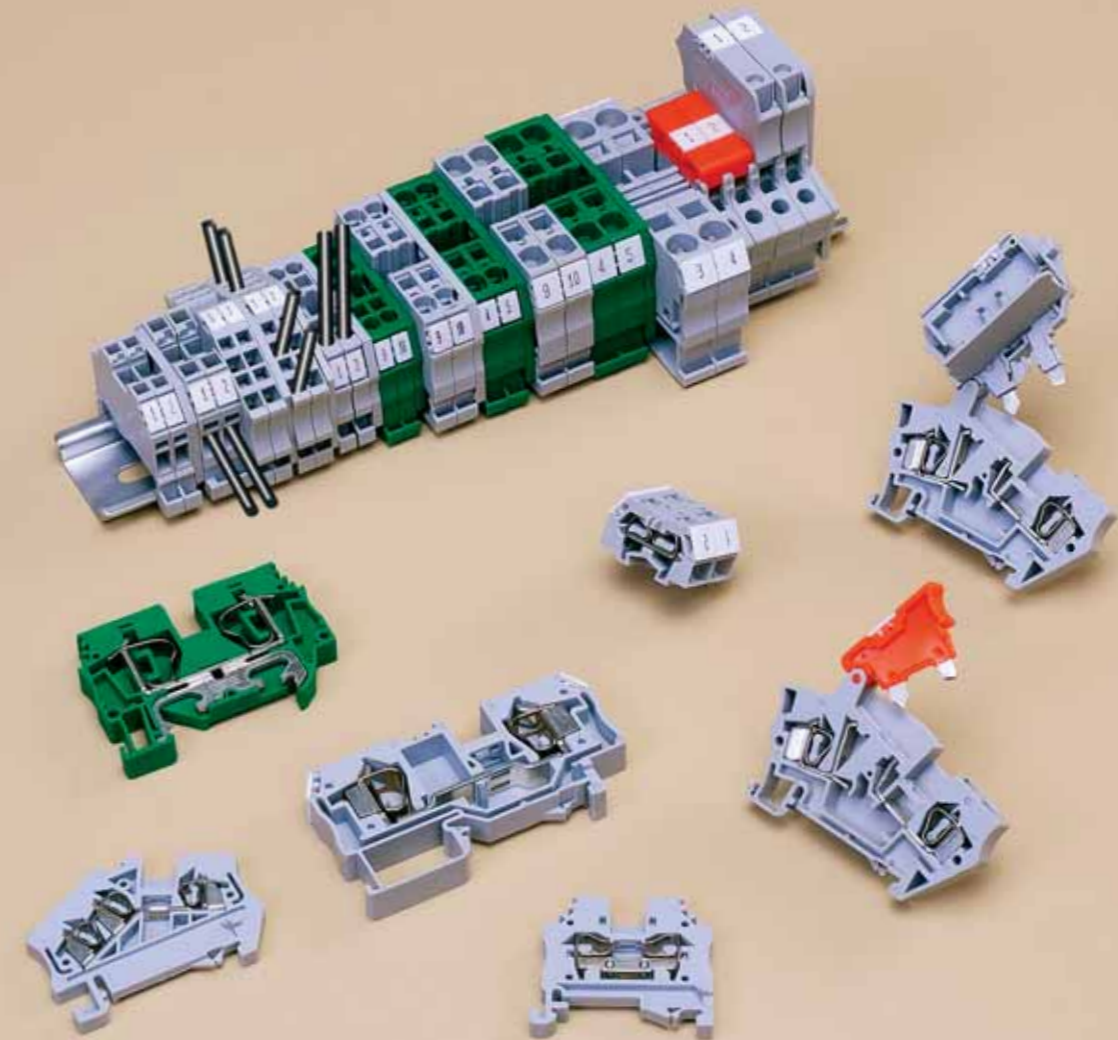


STUD TERMINALS :

- ✓ Finger-safe, Unbreakable, most trusted Design
- ✓ Choice of Screw Driver/Nut Driver operated terminals
- ✓ Suitable for upto 35 sq mm conductor, Mountable on all DIN Rails
- ✓ Disconnecting Terminal Available (CATD M4/CLTD M4 Equivalent)

elmex Screwless Termination Solutions :

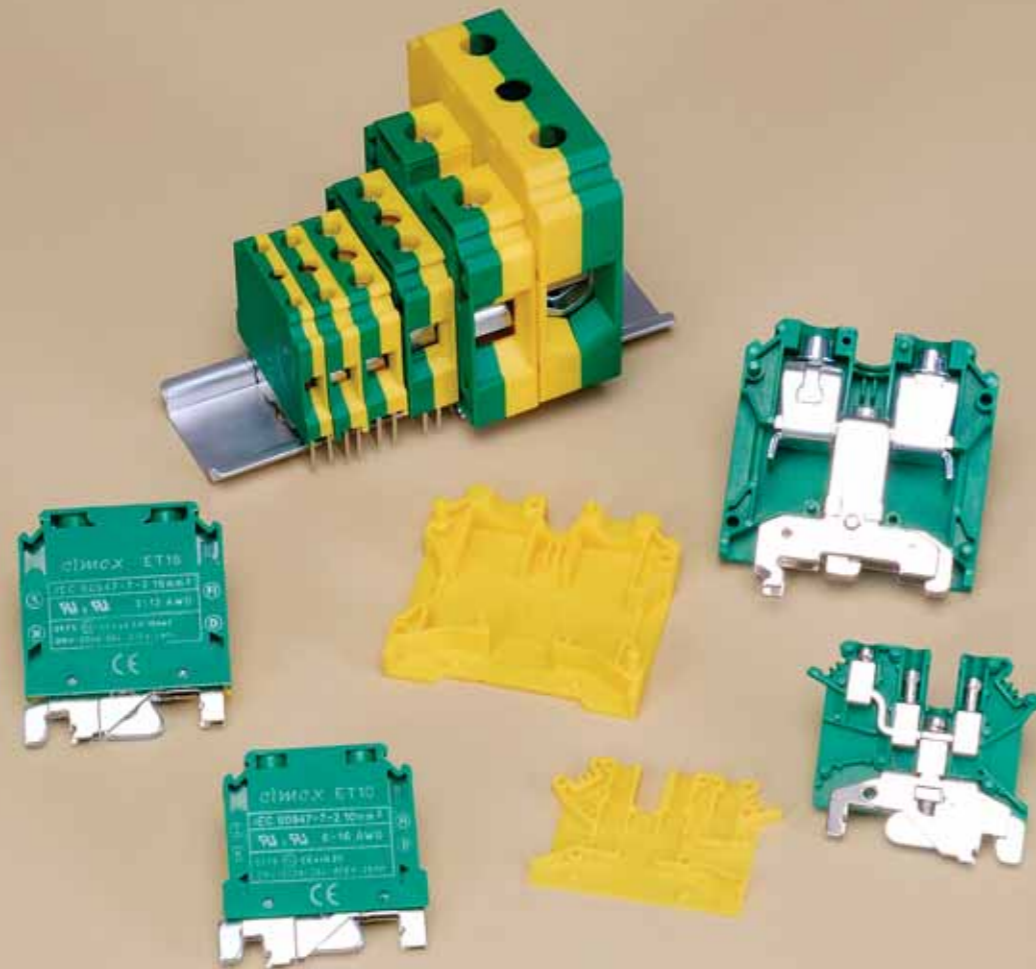
Compact Design for diverse applications...



SPRING CLAMP TERMINALS :

- ✓ DIN Rail and Panel Mounted Terminals
- ✓ Angular, Top and Side Conductor Entry options
- ✓ Fuse and Disconnect Terminals, 3 & 4 Conductor Terminals
- ✓ Equipped with Dual Jumper Slots for diverse bridging applications

elmex Earth Terminals :
Earthing solutions through DIN Channels



EARTH TERMINALS :

- ✓ Green Yellow colour code for Earthing
- ✓ Earthing through metallic foot and channel
- ✓ Available from 4 sq mm to 50 sq mm wire sizes
- ✓ Mounted adjacent to standard feed through terminals on the same channel

elmex Spring Loaded Terminals :
Secure wire connection where vibration persists



SPRING LOADED TERMINALS :

- ✓ Vibration Resistant Terminals
- ✓ Available in Polyamide and Melamine Housings
- ✓ Accommodates Hook-Bladed Lug which prevents wire pull-outs
- ✓ Available in various colours



ELMEX APPROVALS & CERTIFICATION

Sr. #	Logo	Approval/Certification Type	Document Reference	Certificate Type
1		Quality system certification as per ISO 9001 by TUV SUD South Asia Pvt. Ltd. for Elmex Group	12 100 10479 TMS dtd 11/02/2014	QMS certification ISO 9001:2008
2		Quality system certification as per ISO 9001 by TUV SUD South Asia Pvt. Ltd. for Elmex Controls Pvt. Ltd.	12 100 10479/03 TMS dtd 11/02/2014	QMS certification ISO 9001:2008
3		Quality system certification as per ISO 9001 by TUV SUD South Asia Pvt. Ltd. for Elmex Electric Pvt. Ltd.	12 100 10479/04 TMS dtd 11/02/2014	QMS certification ISO 9001:2008
4		Environmental Management System Certification as per ISO 14001 by TUV SUD South Asia Pvt. Ltd. for Elmex Controls Pvt. Ltd.	12 104 10479/01 TMS dtd 11/05/2013	EMS Certification ISO 14001:2004
5		Environmental Management System Certification as per ISO 14001 by TUV SUD South Asia Pvt. Ltd. for Elmex Electric Pvt. Ltd.	12 104 10479/02 TMS dtd 11/05/2013	EMS Certification ISO 14001:2004
6		Certificate of Compliance by Underwriter's Laboratory standard UL 1059 & CSA 22.2 no. 158	20090915-E188984 dtd 15/09/2009	UL & cUL for USA & Canada
7		Certificate of Compliance by CSA International standard CSA 22.2 no. 158 & UL 1059	2068420 dtd 22/08/2008	CSA approval for Canada & USA
8		Certificate of Compliance by CSA International standard CSA 22.2 no. 158 & UL 1059	2068421, 2068422 & 2068423 dtd 02/09/2008	CSA approval for Canada & USA
9		Certificate of Compliance by CSA International standard CSA 22.2 no. 158 & UL 1059	2342344 dtd 21/01/2011	CSA approval for Canada & USA
10		Certificate of Compliance by CSA International standard CSA 22.2 no. 158 & UL 1059	2355064 dtd 02/02/2011	CSA approval for Canada & USA
11		Certificate of Compliance by CSA International standard CSA 22.2 no. 158 & UL 1059	2355456, 2355327 & 2360531 dtd 15/02/2011	CSA approval for Canada & USA
12		Product approval as per EC low voltage directive (2006/95/EC) & standard IEC 60947-7-1 & IEC 60947-7-2 by TUV SUD South Asia Pvt. Ltd.	Compliance Document dtd 25/03/2010	CE Certification
13		Certificate of Conformity as per EC low voltage directive (2006/95/EC) & standard IEC 60947-7-1 by Det Norske Veritas Certification (DNV)	Compliance Document dtd 05/11/2013	CE Certification



ELMEX APPROVALS & CERTIFICATION

14		Product approval as per EC low voltage directive (2006/95/EC) & standard IEC 60947-7-1 by TUV SUD South Asia Pvt. Ltd.	Compliance Document dtd 31/05/2010	CE Certification
15		Product approval as per EC low voltage directive (2006/95/EC) & standard IEC 60947-7-1 by TUV SUD South Asia Pvt. Ltd.	Compliance Document dtd 11/08/2011	CE Certification
16		Product approval as ATEX component as per standard EN 60079-0, EN 60079-7 & EN 60079-11 by Det Norske Veritas Certification AS (DNV)	DNV 11 ATEX 94137U Rev 1 dtd 21/10/11	EC type examination certificate for ATEX for Increased safety 'e' & Intrinsic safety 'i'
17		Product approval as ATEX component as per standard EN 60079-0 & EN 60079-15 by Det Norske Veritas Certification AS (DNV)	DNV 11 ATEX 94138U Rev 1 dtd 21/10/11	EC type examination certificate for ATEX for Protection Type 'n'
18		Product quality assurance notification as per standard EN 13980 by Det Norske Veritas Certification AS (DNV)	DNV 11 ATEX 996603Q Rev 1 dtd 25/03/2014	Product Quality Assurance Notification for ATEX
19		Product approval as per standard EN 60947-7-1 by UL International Demko A/S	D03272 dtd 15/04/2014	NCS Certification for Denmark D Mark
20		Product approval as per standard EN 60947-7-2 by UL International Demko A/S	D03275 dtd 15/04/2014	NCS Certification for Denmark D Mark
21		Product approval as per standard EN 60947-7-1 by Intertek SEMKO AB	1011092 dtd 12/08/2010	NCS Certification for Sweden S Mark
22		Product approval as per standard EN 60947-7-2 by Intertek SEMKO AB	1011099 dtd 12/08/2010	NCS Certification for Sweden S Mark
23		Product approval as per standard EN 60947-7-1 by SGS FIMKO LTD.	FI 26565, FI 26566 dtd 05/01/2011	NCS Certification for Finland Fi Mark
24		Product approval as per standard EN 60947-7-1 by SGS FIMKO LTD.	FI 26564 dtd 05/01/2011	NCS Certification for Finland Fi Mark
25		Product approval as per standard EN 60947-7-1 by NEMKO AS	P11213867 dtd 24/02/2011	NCS Certification for Norway N Mark
26		Product approval as per standard EN 60947-7-2 by NEMKO AS	P11213926 dtd 10/03/2011	NCS Certification for Norway N Mark
27		Product approval as per standard VDE 0611 by TUV Suddeutschland India Pvt. Ltd.	P279 1023 Q 17032004M dtd 18/03/2004	VDE Compliance



Certificate of Compliance

Certificate Number 20090915-E188984
 Report Reference E188984,1998 August 26
 Issue Date 2009 September 15

Page 1 of 2



Issued to: ELMEX CONTROLS PVT LTD

59 Gidc Estate
 Makarpura Rd
 Vadodara GJ- 390010, India

*This is to certify that
 representative samples of*

COMPONENT - TERMINAL BLOCKS

For part numbers covered please refer addendum

*Have been investigated by Underwriters Laboratories Inc.® in
 accordance with the Standard(s) indicated on this Certificate.*

Standard(s) for Safety:

United States Standard UL 1059 Fourth Edition,
 Canadian National Standard - C22-2 No. 158-1987 Second Edition.

Additional Information:

Unique Conditions of Acceptability – i.e. This Terminal block is intended for use with miscellaneous fuses. These fuses are not intended for branch-circuit over current protection. Markings concerning fuse replacement and location should be considered.

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark  may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada  and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Look for the UL Recognized Component Mark on the product

Issued by: *Ranjini S*

Reviewed by: *John Tsavalos*

Ranjini S, Customer Service Professional.

John Tsavalos, Staff Engineer

UL India Pvt. Ltd

Underwriters Laboratories Inc.

Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc.

For questions in India, you may call 91-88-4138 4408, U.L. India Pvt. Ltd

TERMINALS UNDER UNDERWRITERS LABORATORIES CERTIFICATION :

KUT 2.5, KUT 4, KST 4UWS, KUT 6, KST 6WS, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KUT 2.5N, KUT 4N, KUT 6N, KUT 10N, KUDD 4N, KAT M3, KAT M4, KAT M5, KBT M4, KBT M5-15, KBT M6, KAT M3C, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KBT M6C, OAT 2.5, OAT 6, KUDF 4, KUDF 4D, KUDF 4A, KUDDF 4, KUDDF 4D, KUDDF 4A, KUF 10, KUF 10D, KUF 10A, KUFH 4, KUFH 4D, KUFH 4A, UBDF 4, UBDF 4D, UBDF 4A, KLTD M4, KUTSD 6, KUTD 10, KULTD 6, KULTD 4, KULTD 4WS, KULTDM 4-2W, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, KULTD 6-4W, DPBB 50, DPBB 70, DPBB 120, DBK 8, DBK 1X2, DBK 1X4, DBK 1X8, FDBK 8, FDBK 1X4, FDBK 1X8, DFBK 12, KUDD 4 CC1, KUDD 4 CC2, KUDD 4CA1, KUDD 4 CA2, KUDD 4 D1, KUDD 4 R, KUDD 4 MOV, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4-TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4-TWIN, SUT 1.5, SUT 4, NET 4, MBT 4, SCT 2.5, DCT 2.5-1X2, DCT 2.5-2X2, MCT 2.5, MCT 2.5P4, PUT 2.5, PUT S2, ECD 2, ECD 3, ECDD 2, ECDD 3



Certificate of Compliance

Certificate: 2342344

Master Contract: 244296

Project: 2342344

Date Issued: January 21, 2011

Issued to: Elmex Controls Pvt. Ltd
12 GIDC Industrial Estate
Makarpura, Vadodara, Gujarat 390010
INDIA
Attention: Mr. R. H. Virani

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Sham Das Gupta
Shaon Das Gupta

PRODUCTS

CLASS 6228 01 – WIRE CONNECTING DEVICES – Terminal Assemblies

CLASS 6228 81 – WIRE CONNECTING DEVICES – Terminal Assemblies – Certified to US Standards

Terminal block din rail mounting spring clamp, spring force connection, 600V with ampere ratings, wire sizes as given below:

Model designation	Wire size	Current
DCT 2.5N	14 - 20 AWG	15 Amp.
DCT 4N	12 - 20 AWG	20 Amp.
DST 2.5	14 - 20 AWG	15 Amp.
DST 4	12 - 20 AWG	20 Amp.
DST 6	10 - 20 AWG	25 Amp.
DST 10	8 - 16 AWG	50 Amp.
DST 16	6 - 16 AWG	65 Amp.
SCT 4	12 - 20 AWG	20 Amp.

TERMINALS UNDER CSA INTERNATIONAL CERTIFICATION :

KUT 6, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 4, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KAT M4, KAT M5, KBT M4, KBT M5-15, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, OAT 2.5, OAT 6, KUDF 4, KUDF 4D, KUDF 4A, KUDDF 4, KUDDF 4D, KUDDF 4A, KUF 10, KUF 10D, KUF 10A, KUFH 4, KUFH 4D, KUFH 4A, UBDF 4, UBDF 4D, UBDF 4A, KLTD 4, KUTSD 6, KUTD 10, KULTD 6, KULTD 4, KULTDM 4-2W, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, KULTD 6-4W, DPBB 50, DPBB 70, DPBB 120, SPT 35, SPT 70, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4-TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4-TWIN, SUT 1.5, SUT 4, NET 4, MBT 4, DST 2.5, DST 4, DST 6, DST 10, DST 16, SCT 4, DCF 4, DCF 4D, DCF 4A, DCDD 4, DSET 4, MCT 4

COMPLIANCE DOCUMENT



Applicant : M/s. Elmex Controls Pvt. Ltd.,
12 G.I.D.C. Estate, Makarpura Road,
Vadodara – 390 010, Gujarat, India.

Details of the Product: Terminal Blocks- Model Nos. DST 2.5, DST 4, DST 6,
DST 10, MCT 4, OAT 2.5, OAT 6, DBK 2.5, DBM 4, DBP 4,
DPBB 240, DPBB 185N, DBK 150/16 (1X8), DBK 150/16
(1X2), DBK 150/16 (1X4), DBK 150/25 (1X4), DBK 150/25
(1X2), DBK 150/25 (1X8), DBK 150/M6C(1X2), DBK
150/M6C(1X4), DBK 150/M6C(1X8), PS 8M,
KBT 100, ET 4, ET 50.

Standards used for testing: 1 IEC 60947-7-1:2009 (Third Edition)
2 IEC 60947-7-2:2009 (Third Edition)

This is to confirm that a sample of subject Terminal Blocks was tested to the safety test requirements of Low Voltage Directive (2006/95/EC) by us at the manufacturing location and the test results comply with the requirements.

After implementation of the requirements in test report no.20091230101, 20091230102, 20091230103, 20091230104, 20091230105, 20091230106, 20091230107, 20091230108, 20091230109, 20091230110, 20091230111, 20091230112, 20091230113, 20091230114 issued to the manufacturer, preparation of the necessary technical documentation and signing of the declaration of conformity. CE marking can be affixed on the product and on all products of the same type that has been identically manufactured.

The document holder is responsible for the consistent manufacturing of the product in compliance with the test sample submitted to us.

V. Ramesh
DIVISIONAL MANAGER – PRODUCT CERTIFICATION

Date: March 25, 2010

Note: Products entering the European Union are subject to the requirements set forth in the European Directives. It is the responsibility of the person placing the product on the European market to ensure compliance with applicable Directives. Our services are intended to provide you with the data needed to determine compliance, but the person placing the product on the European market still has the responsibility to ensure each product complies with the applicable Directives. The product liability rests with the manufacturer or his representative in accordance with Council Directive 85/374/EEC.

This document applies only to the particular sample provided for testing and certification and does not permit the use of a TÜV PRODUCT SERVICE certification mark. It becomes ineffective in the event of changes relating to products of the above Directives.

COMPLIANCE DOCUMENT



Applicant : M/s. Elmex Controls Pvt. Ltd.,
12 G.I.D.C. Estate, Makarpura Road,
Vadodara – 390 010, Gujarat, India.

Details of the Product: Terminal Blocks- Model Nos. CST 2.5, CSTM 2.5, CST 6,
CST 10, CST 35, CST 16, CST 25, CSLT 1, CST 2.5WS,
CST 6WS, CBT M4, CBT M5, CBT M6 S1, CBT M6,
CBT 100, CST 70BB, CST 185BB, CBT 300T, CBT 300,
CBT 110, CBT 170, CBT 250, CBT 110T, CBT 170T,
CBT 250T, CAT M4, CAT M3, CAT M5, CATD M4,
CLTD M4, CSTD 6

Standards used for testing: IEC 60947-7-1:2009 (Third Edition)

This is to confirm that a sample of subject Terminal Blocks was tested to the safety test requirements of Low Voltage Directive (2006/95/EC) by us at the manufacturing location and the test results comply with the requirements.

After implementation of the requirements in test report no.20101030101, 20101030102, 20101030103, 20101030104, 20101030105, 20101030106, 20101030107, 20101030108, 20101030109 & 20101030110 issued to the manufacturer, preparation of the necessary technical documentation and signing of the declaration of conformity. CE marking can be affixed on the product and on all products of the same type that has been identically manufactured.

The document holder is responsible for the consistent manufacturing of the product in compliance with the test sample submitted to us.

V. Ramesh
DIVISIONAL MANAGER – PRODUCT CERTIFICATION

Date: May 31, 2010

Note: Products entering the European Union are subject to the requirements set forth in the European Directives. It is the responsibility of the person placing the product on the European market to ensure compliance with applicable Directives. Our services are intended to provide you with the data needed to determine compliance, but the person placing the product on the European market still has the responsibility to ensure each product complies with the applicable Directives. The product liability rests with the manufacturer or his representative in accordance with Council Directive 85/374/EEC.

This document applies only to the particular sample provided for testing and certification and does not permit the use of a TÜV PRODUCT SERVICE certification mark. It becomes ineffective in the event of changes relating to products of the above Directives.



ZERTIFIKAT ♦ CERTIFICATE ♦ 認 證 證 書 ♦ CERTIFICADO ♦ CERTIFICAT

COMPLIANCE DOCUMENT

Applicant : Elmex Controls Pvt. Ltd.,
12, G.I.D.C. Estate, Makarpura Road,
Vadodara – 390 010, Gujarat, India.

Details of the Product: Terminal Blocks
Model Numbers: See Annexure A

Standards used for testing: IEC 60947-7-1: 2009 (Third Edition)

This is to confirm that a sample of subject Terminal Blocks was tested to the safety test requirements of Low Voltage Directive (2006/95/EC) by us at the manufacturing location and test results comply with the requirements.

After implementation of the requirements in test report no. (See Annexure A) issued to the manufacturer, preparation of the necessary technical documentation and signing of the declaration of conformity, **CE marking** can be affixed on the product and on all products of the same type that has been identically manufactured.

The document holder is responsible for the consistent manufacturing of the product in compliance with the test sample submitted to us.

V. Ramesh
 DIVISIONAL MANAGER – PRODUCT CERTIFICATION

Date: Aug 11, 2011

Note: Products entering the European Union are subject to the requirements set forth in the European Directives. It is the responsibility of the person placing the product on the European market to ensure compliance with applicable Directives. Our services are intended to provide you with the data needed to determine compliance, but the person placing the product on the European market still has the responsibility to ensure each product complies with the applicable Directives. The product liability rests with the manufacturer or his representative in accordance with Council Directive 85/374/EEC.

This document applies only to the particular sample provided for testing and certification and does not permit the use of a TÜV PRODUCT SERVICE certification mark. It becomes ineffective in the event of changes relating to products, applicable standards and the Directives.

TUV SUD South Asia Pvt. Ltd. - TÜV SUD Group - Off. Saki Vihar Road, Saki Naka - Andheri (East) - Mumbai - 400 072 - India

TERMINALS UNDER CE CERTIFICATION :

KUTM 2.5, KUT 2.5, KUT 4, KST 4UWS, KUT 6, KST 6WS, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, KUT 4 1x2, KUT 4 2x2, ET 4, ET 6, ET 10, ET 16, ET 35, ET 50, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KUT 2.5N, KUT 4N, KUT 6N, KUT 10N, ETN 4, ETN 6, ETN 10, KUDD 4N, ETDD 4N, KAT M3, KAT M4, KAT M5, KBT M4, KBT M5-15, KBT M6, KAT M3C, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KBT M6C, OAT 2.5, OAT 6, KUDF 4, KUDF 4D, KUDF 4A, KUDDF4, KUDDF 4D, KUDDF 4A, KUF 10, KUF 10D, KUF 10A, KUFH 4, KUFH 4D, KUFH 4A, UBDF 4, UBDF 4D, UBDF 4A, KLTD M4, OAT 6T, OAT 6DTS, KUTSD 6, KUTD 10, KUDT 4-2x2, KULTD 6, KULTD 4, KULTD 4WS, KULTD M4-2W, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, KULTD 6-4W, KBT 100, DPBB 50, DPBB 70, DPBB 120, DPBB 185N, DPBB 240, SPT 35, SPT 70, DBK 8, DBK 1x2, DBK 1x4, DBK 1x8, FDBK 8, FDBK 1x4, FDBK 1x8, DFBK 12, DBK 2.5-10W, DBP 4-10W, DBM 4-10W, DBK 150/16(1x2), DBK 150/16(1x4), DBK 150/25(1x2), DBK 150/25(1x4), DBK 150/M6C(1x2), DBK 150/M6C(1x4), DBD 16, DBD 35, KUDD 4CC1, KUDD 4CC2, KUDD 4CA1, KUDD 4CA2, KUDD 4D1, KUDD 4R, KUDD 4MOV, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4 TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4 TWIN, KUT 4NTCK, KUT 4NTCJ, KUT 4NTCT, KUT 4NTCE, SUT 1.5, SUT 4, CET 4, NET 4, MBT 4, PET 4, SET 4, MCT 2.MC, DST 2.5, DST 4, DST 6, DST 10, DST 16, SCT 2.5, SCT 4, DCT 2.5-1x2, DCT 2.5-2x2, DST 2.5-1x2, DST 2.5-2x2, DSdT 2.5, DSdT 2.5-2x2, DSdD 2.5, DCF 4, DCF 4D, DCF 4A, DDS8L, DCDT 4, DSET 4, DSET 6, DSET 10, MCT 2.5, MCT 2.5P4, MCT 4, PS 8M, KNL 4, KNL 16, KNL 35, LPT 225, LPT 235, LPT 325, LPT 335, PUT 2.5, PUT S2, ECD 2, ECD 3, ECDD 2, ECDD 3, CSTM 2.5, CST 2.5, CST 6, CST 10, CST 16, CST 25, CST 35, CST 70, CST 185, PSC 1/5, CST 2.5WS, CST 6WS, CSLT 1, CAT M3, CAT M4, CAT M6, CBT M4, CBT M5, CBT M6, CBT M6S1, CATD M4, CLTD M4, CSTD 6, CBT 100, CBT 110, CBT 170, CBT 250, CBT 300, CBT 110T, CBT 170T, CBT 250T, CBT 300T, CUTM 2.5, CUT 4, CUT 6, CUT 10, CUDD 4, CUDD 4S



DEMKO CERTIFICATE

Certificate No.	D-03272
Page	1/3
Date of Issue	2014-04-15
Certificate Holder	ELMEX CONTROLS PVT. LTD. 12, GIDC Estate Makarpura Road Vadodara, 390 010 India
Manufacturer	ELMEX ELECTRIC PRIVATE LIMITED 134-135 GIDC Estate Por- Ramangamdi Vadodara, 391243 India
Production site	ELMEX ELECTRIC PRIVATE LIMITED 134-135 GIDC Estate Por- Ramangamdi Vadodara, 391243 India
Certified Product Model	Terminal Blocks See Page 2
Trademark	elmex
Rated Voltage / Frequency	See Page 2
Rated Current / Power	See Page 2
Insulation Class	-
Degree of protection (IP)	-
Tested acc. to	EN 60947-1:2007/A1:2011, EN 60947-1:2007, EN 60947-7-1:2009
Test Report No.	4786091693-A issued on 2014-03-27
Additional Expire date	2024-04-14


Certification Manager

Jan-Erik Storgaard

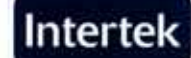
Certification Body

UL International Demko A/S, Borupvang 5A, DK-2750
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com
www.ul-europe.com



TERMINALS UNDER DEMKO CERTIFICATION :

KUT 4, KST 4UWS, KUT 6, KST 6WS, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KAT M4, KAT M5, KBT M4, KBT M5-15, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KUTSD 6, KUTD 10, KULTD 6, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, DPBB 70, DPBB 120, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4 TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4 TWIN, SUT 1.5, SUT 4, CET 4, NET 4, MBT 4

Certificate

 for European Product Safety
Intertek

Reference No. 1011092

Multiway terminal block

Type designation	KUT*, KST4U, KST 4UWS, UBT*, KULT*, KATM*, KBTM*, DPBB*, SUT*, KST6WS, KUDD4, UBDD4, DU3D4, NET4, KU2D4, KU2D4S, DUSD4, CET4N, MBT 4	
Certificate holder	Elmex Controls Pvt. Ltd. 12, GIDC, Makarpura Baroda - 390 010 Gujarat INDIA	
The product complies with the standard(s)	EN 60947-7-1:2009	
Date of expiry	17 March 2015	
EU Directive information	The product satisfies the provisions for CE marking according to the Low Voltage Directive 2006/95/EC.	

Additional information in Appendix.

Certification Body	Intertek Semko AB, Product Certification	Place	Kista - Stockholm
Signed	 Magnus Wahlgren	Date	12 August 2010 Page 1 of 8

TERMINALS UNDER SEMKO CERTIFICATION :

KUT 4, KST 4UWS, KUT 6, KUT 10, KST 6WS, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KAT M4, KAT M5, KBT M4, KBT M5-15, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KUTSD 6, KUTD 10, KULTD 6, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, DPBB 70, DPBB 120, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4 TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4 TWIN, SUT 1.5, SUT 4, CET 4, NET 4, MBT 4





CERTIFICATE FI 26565

Our Ref. 261608-1

Product	Terminal block
Type	KUT 2,5...95, KST4U, UBT2,5N, UBT2,5...10, UBT4TWIN, KULT1...6, KATM4, KBTM5, DPBB120, SUT4, KSTUWS, KST6WS, KBTM4, KATM5, DPBB70, SUT1,5, KUT10, KUDD4, UBDD4, DU3D4, NET4, KU2D4, KU2D4S, DUSD4, MBT4, CET4N
Trade mark	ELMEX
Certificate Holder	Elmex Controls Pvt. Ltd. 12, GIDC, Makarpura Baroda 390 010 GUJARAT, INDIA
Manufacturer	Econix Hitec Components Pvt. Ltd. 134-135, GIDC Estate Por-Ramangamdi VADODARA 390 243, INDIA
Technical information	See the Appendix to this certificate.
The product is certified according to the following standard(s)	EN 60947-7-1:2009
Validity	This certificate is valid until 05 January 2016 unless the standard in question has been amended or superseded with significant changes in requirements, in which case, SGS Fimko has the right to shorten the validity of the certificate based on the legislation of the European Union. This certificate includes the right to use the FI mark under the condition that changes (if any) will be checked at SGS Fimko before the product is brought onto market and that the conditions for FI certification are met.
Directive information	The product(s) fulfils the essential safety requirements for CE conformity marking according to the Low Voltage Directive (2006/95/EC) at the date of issue of the certificate.
Date of issue	05 January 2011
Signature	<p>SGS Fimko Ltd</p>  <p>Sixten Lökfors Project Manager</p>



This certificate has 2 appendices



This certificate is issued by the company under its General Conditions for Certification Services accessible at www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Fimko Ltd. | Särkinleentie 3 P.O.Box 30 FI-00211 Helsinki, Finland
t. +358 9 696 361 f. +358 9 692 5474 www.fi.sgs.com
Business ID 0976538-5  Member of the SGS Group (SGS SA)

TERMINALS UNDER FIMKO CERTIFICATION :

KUT 4, KST 4UWS, KUT 6, KST 6WS, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KAT M4, KAT M5, KBT M4, KBT M5-15, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KUTSD 6, KUTD 10, KULTD 6, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, DPBB 70, DPBB 120, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4 TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4 TWIN, SUT 1.5, SUT 4, CET 4, NET 4, MBT 4



 CERTIFICATE 				
Order No. 166660	Page 1/11			
Product	Terminal block			
Applicant	Elmex Controls Pvt. Ltd. 12, G.I.D.C., Industrial Estate, Makarpura Road, Vadodara , Vadodara 390 010 Baroda Gujarat India			
Manufacturer	Econix Hitech Components Pvt. Ltd. 134-135, GIDC Estate, Por - Ramangamdi 390 243 Vadodara India			
Factory	Econix Hitech Components Pvt. Ltd. 134-135, GIDC Estate, Por - Ramangamdi 390 243 Vadodara India <input type="checkbox"/> See next page(s)			
Ratings	2.5mm ² 24A 800V			
Trade mark	elmex			
Model / Type Ref.	KUT 2,5			
Principal characteristics	Terminal block with thermoplastic insulation. 2 terminals for rail mounting. For 0.5-2.5mm ² flexible-or 0.5-4.0mm ² rigid Cu-conductors. Pollution degree 3. Uimp: 8kV. Screw torque: 0.5Nm. <input type="checkbox"/> See next page(s)			
A sample of the product was tested and found to be in conformity with	POW EN 60947-1:2007 EN 60947-7-1:2009			
Validity	This certificate documents conformity with the standards shown, and also applies as license for use of Nemkos name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation. New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.			
Additional information	<input type="checkbox"/> See next page(s)			
Additional model(s)	<input checked="" type="checkbox"/> See next page(s)			
Date of issue 24-02-2011				
 Signature Skule Moe Certification Department				
Nemko AS	Office address	Internet	Telephone	Fax
P.O. Box 73, Blindern	Gaustadalléen 30	www.nemko.com	+47 22 96 03 30	+ 47 22 96 05 50
N-0314 Oslo, Norway	Oslo		Enterprise number:	NO 974404532

TERMINALS UNDER NEMKO CERTIFICATION :

KUT 4, KST 4UWS, KUT 6, KST 6WS, KUT 10, KUT 16, KUT 25, KUT 35, KUT 50, KUT 95, ET 6, ET 10, ET 16, ET 35, KU2D 4, KU2D 4S, KUDD 4, DU3D 4, DUSD 4, KULT 4, KULT 6, KULT 1, KAT M4, KAT M5, KBT M4, KBT M5-15, KAT M4C, KAT M5C, KBT M4C, KBT M5-15C, KUTSD 6, KUTD 10, KULTD 6, KUTSD 6-2W, KUTSD 6-7W, KUTSD 6-10W, DPBB 70, DPBB 120, UBT 2.5, UBT 4, UBT 6, UBT 10, UBDD 4, UBT 4 TWIN, EBT 2.5, EBT 4, EBT 6, EBT 4 TWIN, SUT 1.5, SUT 4, CET 4, NET 4, MBT 4



DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

- [2] COMPONENT INTENDED FOR USE IN EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: **DNV 11 ATEX 94137U** Rev. 1
- [4] Component: **Increased safety Terminal Blocks**
Brand: **Elmex**
- [5] Applicant – Manufacturer or Authorized representative: **Econix Hi-tech Components Pvt. Ltd.**
- [6] Address: **134/135, G.I.D.C, Industrial estate Por, Raman Gamdi Vadodara – 391 243, Gujarat, INDIA**
- [7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2009 and EN 60079-7:2006
- [10] The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacturer and supply of this component.
- [12] The marking of the equipment or protective system shall include the following:

II 2 G Ex e HC Gb

Høvik, 2011-10-21
for Det Norske Veritas AS

Marianne Spæren
Certification Manager



Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300 000. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



DET NORSKE VERITAS

PRODUCT QUALITY ASSURANCE NOTIFICATION

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] Notification Number: **DNV 11 ATEX 96603Q** Rev 1
- [4] Equipment or Protective Systems or components as listed: **Terminal Block**
(The EC-Type Examination Certificates based on this notification are listed by the notified body)
- [5] Applicant –Manufacturer or Authorized Representative in the Community: **Elmex Electric Private Limited**
134/135 G.I.D.C Industrial Estate Por, Raman Gamdi Vadodara – 391 243, Gujarat, India
- [6] Manufacturer: **Elmex Electric Private Limited**
134/135 G.I.D.C Industrial Estate Por, Raman Gamdi Vadodara – 391 243, Gujarat, India
- [7] DNV, notified body number 0575 for Annex VII in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies to the applicant that the actual manufacturer has a product quality assurance system which complies to Annex VII of the Directive.
- [8] This notification is based on audit report listed on page 2.
This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex VII
Results of periodical re-assessment of the manufacturing process is a part of this notification.
- [9] This notification is valid until **2016-09-17** and can be withdrawn if the manufacturer does not satisfy the production quality re-assessment.
- [10] According to article 10[1] of the Directive 94/9/EC the CE marking shall be followed by the identification number 0575 identifying the notified body involved in the production control stage (Annex VII)




Høvik, 2014-03-25
for Det Norske Veritas AS

Ståle Sandstad
Certification Manager



Notice: This notification may only be reproduced in its entirety and without any change
The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures
If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300 000. In this provision 'Det Norske Veritas' shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Zertifikat <i>Certificate</i>		 TÜVRheinland	
Zertifikat Nr. <i>Certificate No.</i> R 60095315	Blatt <i>Page</i> 0001		
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum 16.07.2014	Date of Issue (day/month/year)
0001--	19600047 001		
Genehmigungsinhaber <i>License Holder</i> ELMEX CONTROLS PVT. LTD. 12 GIDC INDUSTRIAL ESTATE MAKARPURA VADODARA India		Fertigungsstätte <i>Manufacturing Plant</i> ELMEX CONTROLS PVT. LTD. 12 GIDC INDUSTRIAL ESTATE MAKARPURA VADODARA India	
Prüfzeichen <i>Test Mark</i>		Geprüft nach <i>Tested acc. to</i> EN 50521:2008+A1	
			
Zertifiziertes Produkt <i>(Geräteidentifikation)</i> Certified Product <i>(Product Identification)</i>	Lizenzentgelte - Einheit <i>License Fee - Unit</i>		
Connector for Photovoltaic-systems			6
Bezeichnung Type designation	: EMPV4 : Male/Female connector		
Rated Voltage Rated Current	: 1000VDC : 2,5mm ² :25A 4,0mm ² , 6,0mm ² :30A		
Ambient Temperature Upper limit Temperature:	: -40°C to 85°C : 95°C		
Cross section range Protection Degree	: 1X 4,0mm ² / 2,5 mm ² / 6,0mm ² : IP67		
Application Class	: A		
6			
<p><small>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfvorgängen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.</small></p>			
TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com Fax: +49 221 806-3935 http://www.tuv.com/safety		 Zertifizierungsstelle Sahure Oralaip	

Compliance Document



No. P279 1023 Q 17032004M

elmex controls Pvt Ltd
12, G I D C Estate, Makarpura Road
Vadodara-390010, India

Product : Terminal Block

Model : KUT 16

Parameters : Voltage : 800 V (AC), 50 Hz
Current : 85 A
Conductor Size: Rated c/s 16 Sq mm , 6 – 16 Sq mm(F),
6 – 16 Sq mm(Rigid Str),2.5-10 Sq mm (Solid)
Torque : 1.2 Nm

The above named equipment was tested according to

VDE 0611: NOV 1977

The detailed results of the test and the technical documents are listed in

Test Report No: P279/1023/Q/17032004

This document pertains only to the sample product submitted to TÜV SUDEDEUTSCHLAND INDIA for testing and does not apply to the serial products. In particular, it does not certify the quality or safety features of the products made in series production.

It does not permit the use of a TÜV PRODUCT SERVICE certification mark on the tested product.

The certificate holder is responsible for the consistent manufacturing of the product in compliance with the test sample submitted to us.


 Head Product Certification
 Date: 18-03-2004


 TÜV SUDDEUTSCHLAND INDIA PVT LTD
 (A Subsidiary of TÜV SUDEDEUTSCHLAND INDIA AG, Germany)

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ CERTIFICADO ◆ CERTIFICAT



Certificate of Qualification



This is to certify that

Elmex Controls Pvt. Ltd.,
12, GIDC, Makarpura Road,
Vadodara 390010, Gujarat, INDIA

has been qualified by CSA International as a Testing Facility for
**WITNESSED MANUFACTURER'S TESTING FOR
CERTIFICATION PROGRAM**
Based on ISO/IEC 17025:2005

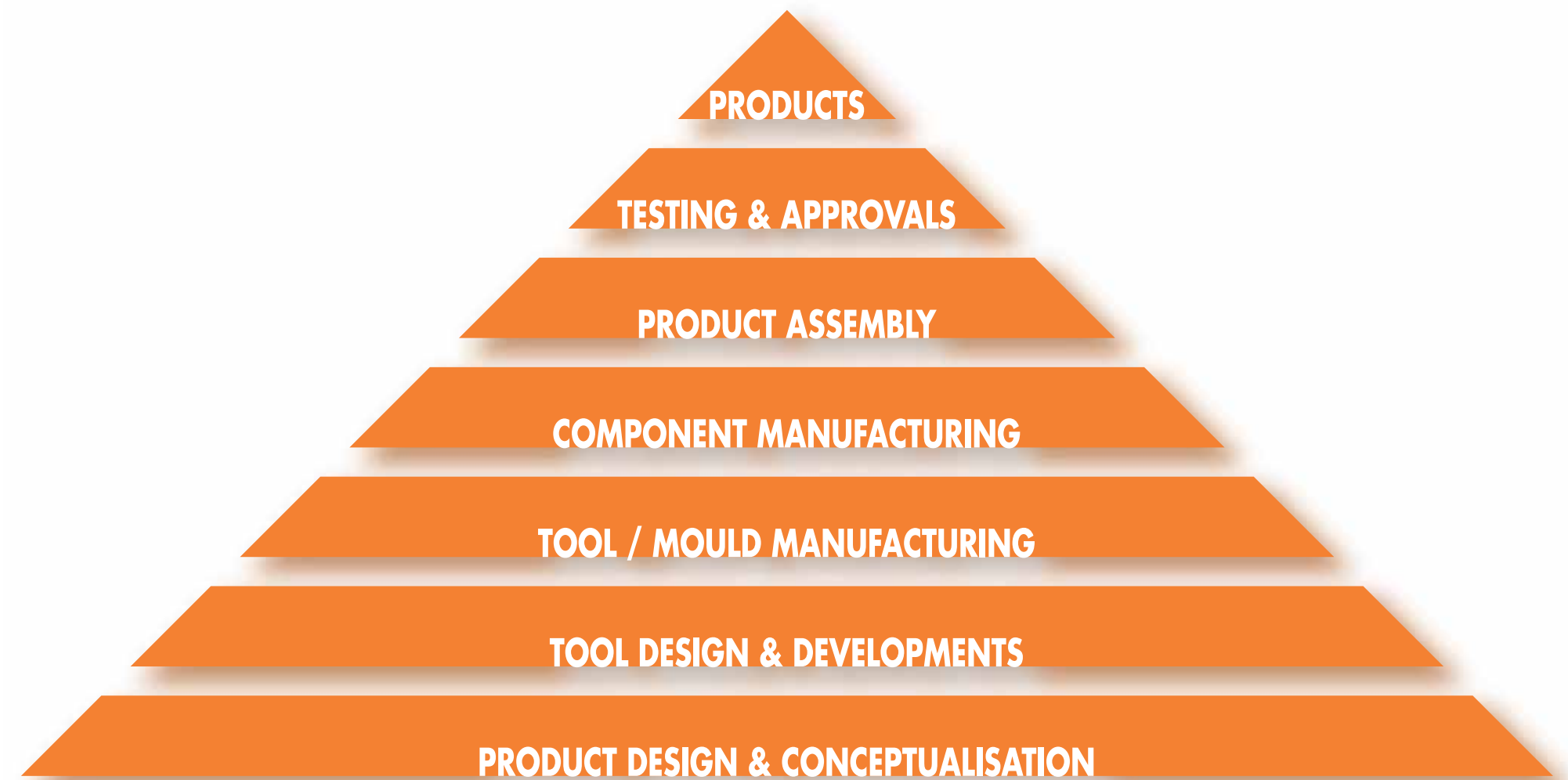
Certificate No. WMTC-181
Issue Date: January 10, 2011
Expiry Date: January 9, 2014

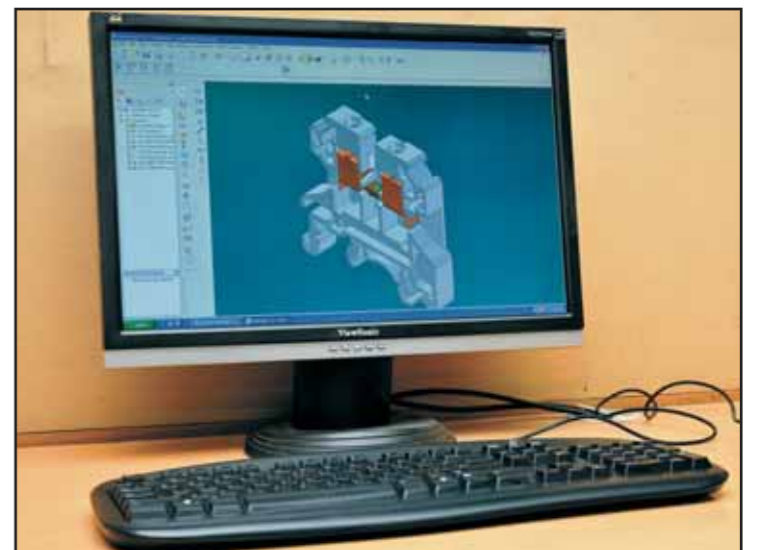
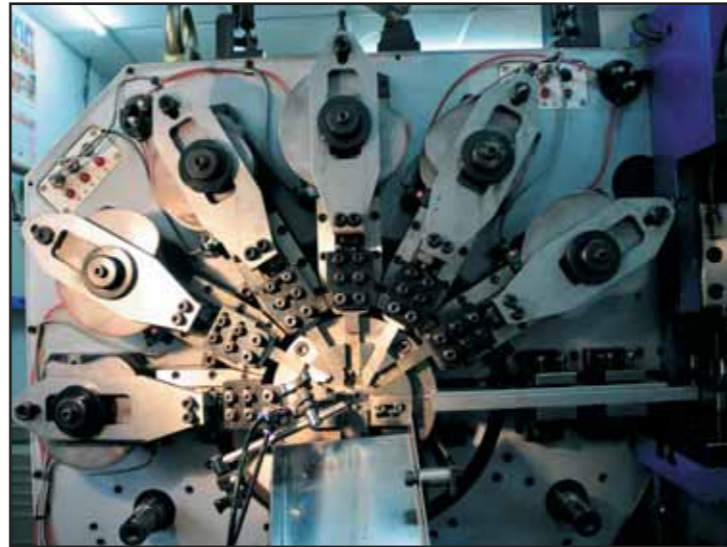

George Tranquada
Technical Manager, Service Quality



PLANT & MACHINERY AT ELMEX

PRODUCTION MACHINERY		
Sr. No.	Machine Type	Quantity
1	Injection Moulding Machines	30
2	Compression Moulding Machines	24
3	Power Press	100
4	Automatic Tapping Machines	27
5	Ultrasonic Welding Machine	2
6	Wave Solder Machine	1
7	Shearing Machines	3
8	Heat Treatment Furnaces	4
9	Automatic Rivetting Machines	5
10	Multislid Forming Machines	3
TOOL ROOM MACHINERY		
Sr. No.	Machine Type	Quantity
1	CNC Wire Cut Machines	6
2	CNC EDM Machines	5
3	ZNC EDM Machine	1
4	CNC EDM Drill Machine	1
5	CNC Milling Machine	1
6	Conventional EDM Machine	1
7	Conventional Milling Machines	2
8	Surface Grinders	9
9	Shaping Machine	1
10	Tool & Cutter Grinder	1
11	Lathe	3
12	Hardness Tester	1
13	Profile Projector	1
14	Shadow Profile Projector	1







TESTING EQUIPMENT AT ELMEX

Sr. #	Instrument Name	Range	Accuracy
1	Tension Meter	0-50 kgs	0.2 kgs
2	Digital Counter (Flexion set up)	0 - 9999	0.5 %
3	Digital Preset Timer (Flexion Set up)	0 - 99 Min.	0.5 %
4	Dead Weights	0.050-20 kgs (14 Nos.)	-
5	Digital Temperature Indicator	0-200 Deg. (5 Channel)	0.5 %
6	Digital Milli-volt Meter	0-19.99 mV	0.5 Class
7	Digital DC Ammeter	0-30 A (75 mV)	0.5 Class
8	True RMS Digital AC Ammeter	0-300 A (5A)	0.5 Class
9	True RMS Digital AC Voltmeter	0-750V	0.5 Class
10	High Voltage Tester	0-5 Kv	2.5%
11	True RMS Digital AC Voltmeter	0-5Kv	0.5 Class
12	Digital AC Milli-Ammeter	0-200 mA	0.5 Class
13	Torque Wrench (Type I)	0 - 6 Nm	6%
14	Digital Hygro Thermometer	0-50 °C/20-99 %	1 °C 3 %
15	Stopwatch	0-120 Min	0.01 Sec
16	Digital Multimeter	-	-
17	Digital Outside Micrometer	0 to 25 mm	0.001 mm
18	Digital Vernier Caliper	0 to 200 mm	0.01 mm
19	Torque Wrench (Type II)	5 to 33 NM	6%
20	Torque Screw Driver (Type III)	10-120 cNM	6%
21	Micro-ohm Meter	1999 micro ohms to 1999 milli ohms	0.5 %
22	Vernier Caliper	0-150 mm	0.01 mm
23	Torque Tester	0-120 cNM	-





PARTIAL LIST OF ELMEX CREDENTIALS

“Excellence is an art won by training and habituation. We do not act rightly because we have virtue or excellence, but we rather have those because we have acted rightly. We are what we repeatedly do. Excellence, then, is not an act but a habit.”

Aristotle

CONSULTANTS

ENGINEERING PROJECTS (INDIA) LTD.
FACT ENGINEERING & DESIGN ORGANISATION (FEDO)
JACOBS
MECON LIMITED
TATA CONSULTING ENGINEERING LTD. (TCE)
TELECOMMUNICATION CONSULTANTS INDIA LTD.

ELECTRICITY BOARDS

CENTRAL ELECTRICITY SUPPLY UTILITY – ORISSA
DAKSHIN HARYANA BIJLI VITRAN NIGAM
ELECTRICAL DEPARTMENT – DADAR NAGAR
GUJARAT ENERGY TRANSMISSION CORPORATION LTD. (GETCO)
GUJARAT STATE ELECTRICITY CORPORATION LTD.
HARYANA VIDYUT PRASARAN NIGAM LTD.
MAHARASHTRA ELECTRICITY DISTRIBUTION CO. LTD.
MEGHALAYA STATE ELECTRICITY BOARD
PASHCHIMANCHAL VIDYUT NIGAM LTD. - MEERUT

PORT TRUST

MAZAGAON DOCK LIMITED – MUMBAI
MUMBAI PORT TRUST – MUMBAI
NEW MANGALORE PORT TRUST
PARADIP PORT TRUST

STEEL SECTOR

STEEL AUTHORITY OF INDIA LTD. (SAIL)
TATA STEEL

MUNICIPAL CORPORATIONS

AHMEDABAD MUNICIPAL CORPORATION
KOLKATA MUNICIPAL CORPORATION
MUMBAI METROPOLITAN REGION DEVELOPMENT AUTHORITY (MMRDA)
NAVI MUMBAI MUNICIPAL CORPORATION
PIMPRI CHINCHWAD MUNICIPAL CORPORATION

POWER SECTOR

ADANI – MUNDRA
BALMER LAWRIE CO. LTD. - KOLKATA
BHARTIYA NABHIKYA NIGAM LIMITED - KALPAKKAM
CENTRAL COAL FIELDS LTD.
CROMPTON GREAVES LTD. - NASIK
DELHI TRANSCO LTD.
LARSEN & TOUBRO – MUMBAI
ORISSA MINING CORPORATION LTD.
SIEMENS LIMITED - HYDERABAD

RAILWAYS

CENTRAL RAILWAYS
EAST CENTRAL RAILWAYS
WESTERN RAILWAY

MARINE

HOOGLY DOCK & PORT ENGINEERS LTD.
MAZGAON DOCKS

REFINERIES

ESSAR – HAZIRA, JAMNAGAR, VADINAR
HINDUSTAN PETROLEUM CORPORATION LTD. (HPCL)
OIL INDIA LIMITED
OIL & NATURAL GAS CORPORATION (ONGC)

RESEARCH INSTITUTES

CENTRAL POWER RESEARCH INSTITUTE
INDIAN INSTITUTE OF TROPICAL METEOROLOGY
NATIONAL GEOGRAPHICAL RESEARCH INSTITUTE
NATIONAL INSTITUTE OF TECHNOLOGY

CONSTRUCTION OF JETTY AND RAW WATER PUMPING STATION AT MA-ER GHAT (RAGHUBAZAR) FOR DHAPA WATER TREATMENT PLANT
TECHNICAL BID
 NOTICE INVITING TENDER NO.: 001/W/102/2009-10/PMC DATED 14.01.2010

Navi Mumbai Municipal Corporation
 TENDER
 NMMCE/EEV 18/2008
 SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 11KV/0.4KV TRANSFORMER, 5KV/0.4KV TRANSFORMER, 11KV/11KV TRANSMISSION LINE WITH ASSOCIATED EQUIPMENT AT WTP, BHOKARPADA, D. MUMBAI

MAHAVITARAN
 Maharashtra State Electricity Distribution Co. Ltd.

MUMBAI PORT TRUST
 TENDER NO. - 308/08
 Construction of Second Liquid Chemical Plant at Pali, Mumbai
TENDER DOCUMENT

VENDORS LIST
 FOR EPCC PACKAGES FOR DIESEL HYDRO TREATING PROJECT FOR HINDUSTAN PETROLEUM CORPORATION LTD. MUMBAI REFINERY
 DOCUMENT NO : 44LK-5100-000-R-01-0003-A4 Rev. 2
 Prepared and issued by: **JACOBS** Engineering India Private Ltd. Nav Mumbai

THE KOLKATA MUNICIPAL CORPORATION
 NOTICE INVITING TENDER NO.: 001/W/102/2009-10/PMC DATED 14.01.2010

OIL INDIA LIMITED
 DELHAJIAN-786 602, Assam, (India)
TENDER DOCUMENT
 For Design, Engineering, Procurement, Fabrication, Supply, Construction and Commissioning on LSTK Basis of One No. Central Gas Gathering Station & Off Take Point at Madhuban and One No. Field Gathering Station at Chabua, Assam, India
VOLUME - V OF VI
 (Electrical And Instrumentation Tech. Specification & Standards)
 TENDER NO. OILCCO/PDNG/GLOBAL/215/2008
ST Saipem Triune Engineering Pvt. Ltd. NEW DELHI INDIA

GUJARAT STATE ELECTRICITY CORPORATION LIMITED
TECHNICAL SPECIFICATION FOR RENOVATION OF 220 KV SWITCHYARD AND CONTROL BUILDING PACKAGE STAGE-I (2X12) VOL. II PART- A & B
 CONSULTANT **NTPC Limited**
 (A Government of India Enterprise) CORPORATE ENGINEERING DIVISION ENGINEERING OFFICE COMPLEX SECTOR-24, NOIDA-201301 BID DOCUMENT NO.: CW-APPD-PAM-9259-BOP

STEEL AUTHORITY OF INDIA LIMITED
 BOKARO STEEL PLANT
TECHNICAL SPECIFICATION FOR ILLUMINATION, EARTHING, LIGHTNING PROTECTION & AREA LIGHTING FOR COLD ROLLING MILL -
 (T.S. No. MECSE24/11/1E/01/13/2008)

OIL PALM INDIA LIMITED
 (A JOINT VENTURE OF THE GOVT. OF KERALA AND THE GOVT. OF INDIA)
 Registered Office: 330, 33A, Old Sea Trade Bank, P.O. No. 115, Sankarapada, P.O. 08-08/09
 Tel: 491811/24842/24842 Phone: 491811/24842/24842 Fax: 491811/24842
 E-mail: oilpalm@oilpalm.com
TENDER DOCUMENTS FOR 12TPH BOILER PLANT FOR THE PALM OIL MILL OF OIL PALM INDIA LTD.
 TENDER No.: OPIL-01-R/2008
 Prequalification cum Techno-Commercial Bid
FACT ENGINEERING AND DESIGN ORGANISATION UDYOGAMANDAL 683 501 KERALA

NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
 (Council of Scientific & Industrial Research)
 Uppala Road, Hyderabad-500 007 (A.P.), India
 Tel: +91 80 2303 4000 Fax: +91 80 2303 4001
INVITATION TO TENDER February 26, 2010
 No. NGR/2009-Pat/T-140
 Dear Sirs,
 Bids are invited for Supply, Installation, Testing & Commissioning of 1.1 Meter Diameter System in Electric Sub-Station - 33-110 KV, Hyderabad.
 Last date & Time for submission of offer: 23-03-2010 at 3:00 P.M.
 Date & Time of Tender Opening: 23-03-2010 at 9:30 P.M.
 We are interested to furnish of the following materials. Kindly send your quotation under referring to our Terms and Conditions enclosed in the bid document.

S.No.	Description	Qty.
1	Supply, Installation, Testing and Commissioning of 1.1 Meter Diameter System in Electric Sub-Station. <td>One</td>	One
	Specifications, Drawings, BOQ for the Package, Particulars of the prospective bidders and Terms & Conditions. List of approved electrical instruments etc. enclosed. <td>Job</td>	Job

 Kindly send your sealed quotation in 2 Parts, Part I Techno-Commercial Bid with all details and specifications of item offered, delivery schedule, warranty, payment terms etc., WITHOUT PRICE AND Part II Commercial Bid WITH PRICE, as per to reach us on or before 23.03.2010 by 2:30 P.M. and the Techno-Commercial Bid (Without Price) will be opened on 23-03-2010 at 1:00 P.M.
 E.M.D. Rs. 1,00,000/-
 Bids should be submitted in the form of Demand Draft / Bank Cheque/ Cash beyond 85 days and specifications of item offered, delivery schedule, warranty, payment terms etc., WITHOUT PRICE AND Part II Commercial Bid WITH PRICE, as per to reach us on or before 23.03.2010 by 2:30 P.M. and the Techno-Commercial Bid (Without Price) will be opened on 23-03-2010 at 1:00 P.M.

ESSAR
 Part I of DRAFT
 TENDER FOR HIGHWAY, JALNAR, RAJASTHAN - INDIA
 Lot No. 307/2008

Start Of Tender Document
 Workshop Projects, East Central Railway
 Tender Document
 No. Engg/WT-02/Open

MECON LIMITED RANCHI - 834 002 INDIA

ભાવિની BHAVINI
 BHAVINI NIGAM LIMITED

ELMEX VALUED CUSTOMERS





ELMEX VALUED CUSTOMERS

POWER SECTOR

ABB LTD.
AREVA T & D INDIA LTD.
SIEMENS LTD.
LARSEN & TOUBRO LTD.
SCHNEIDER ELECTRIC INDIA PVT. LTD.
CROMPTON GREAVES LIMITED
JINDAL POWER
TORRENT POWER
JAYPEE GROUP
STATE ELECTRICITY BOARDS

TELECOMMUNICATIONS SECTOR

ACME TELEPOWER LTD.
DELTA ENERGY SYSTEMS INDIA PVT. LTD.
PACE POWER SYSTEMS PVT. LTD.
GKAR (INDIA) SYSTEMS PVT. LTD.

STEEL SECTOR

BHILAI STEEL PLANT
TATA STEEL
ROURKELA STEEL PLANT
JINDAL STEEL
STEEL AUTHORITY OF INDIA LIMITED (SAIL)
BHUSHAN STEEL LTD.
VISHAKHAPATNAM STEEL PLANT
DURGAPUR STEEL PLANT

GOVERNMENT SECTOR

BHARAT HEAVY ELECTRICALS LTD (BHEL)
NATIONAL THERMAL POWER CORPORATION (NTPC)
NATIONAL ALUMINIUM COMPANY LIMITED (NALCO)
NUCLEAR POWER CORPORATION OF INDIA LIMITED (NPCIL)
POWER GRID CORPORATION OF INDIA LIMITED (PGCIL)
NHPC LTD.



STEEL INDUSTRY



PROCESS INDUSTRY



PV POWER SYSTEMS



TELECOMMUNICATIONS



NUCLEAR/THERMAL/HYDEL SYSTEMS



AUTOMATION INDUSTRY

PETROCHEMICALS & REFINERIES SECTOR

OIL & NATURAL GAS CORPORATION (ONGC)
RELIANCE INDUSTRIES LTD.
INDIAN OIL CORPORATION LTD. (IOCL)
INDIAN PETROCHEMICALS CORPORATION LTD. (IPCL)

CEMENT SECTOR

SHREE CEMENT
AMBUJA CEMENT
J.K. CEMENT
GRASIM INDUSTRIES

AUTOMATION SECTOR

HONEYWELL AUTOMATION
ROCKWELL AUTOMATION
ABB LTD.
SIEMENS LTD.
YOKOGAWA INDIA LTD.
LARSEN & TOUBRO LTD.

DG SETS SECTOR

SUDHIR GENSETS LIMITED
JACKSON ENGINEERS LTD
POWERICA LIMITED

CONSULTANTS

JACOBS
PROJECTS & DEVELOPMENT INDIA LTD. (PDIL)
ENGINEERS INDIA LTD. (EIL)
UHDE
TOYO ENGINEERING INDIA LTD.
TATA CONSULTANCY SERVICES (TCS)
DCL
M.N. DASTUR
DAISIN COMPANY LTD.

RAILWAYS

DELHI METRO RAIL CORPORATION LTD. (DMRC)
INDIAN RAILWAYS



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MAX ENGINEERING & MARKETING CO.

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ASHUTOSH ENTERPRISES

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RAVI SWITCHGEAR

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J.J.ELECTRICALS

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GANDHIDHAM

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RAJKOT

INDUSTRIAL CARES
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PERFECT SWITCHGEARS

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INDUSTRIAL TRADING COMPANY
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Mr. Nitinbhai Mehta
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VASU AUTOMATION & ELECTRICALS

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Mobile : +91 98241 31206
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PRAKASH INDUSTRIAL SERVICES PVT. LTD.

Mr. Nilesh Parekh
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E-Mail : pisvapi@yahoo.co.in



ELMEX AUTHORISED DEALERS IN INDIA

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VADODARA

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UMANG ELECTRICALS

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NAND CORPORATION

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HARYANA

CHANDIGARH

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GURGAON

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JHARKHAND

JAMSHEDPUR

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RANCHI

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KARNATAKA

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MODEL ELECTRICALS

Mr. Nirmal
Ph. No. : 080-4153 7627
Mobile : +91 98453 51692
Email : modern.electricals07@gmail.com

POWER & CONTROL SYSTEM

Mr. Manoj Meghani
Ph. No. : 080-2223 5982
Mobile : +91 98450 58533
Email : meghani@vsnl.net

SURAJ INDUSTRIAL SUPPLIERS

Mr. Suraj Vaishnav / Ashok Vaishnav
Ph. No. : 080-4132 7185
Mobile : +91 93418 16661, 98440 46056
Email : surajindspl@gmail.com

VISHAL ELECTRICALS

Mr. Prakashchand
Ph. No. : 080-4122 2028
Mobile : +91 98450 52947
Email : vishalelectricals1975@gmail.com

VENK TECHNOLOGIES

Mr. Karthik
Ph. No. : 080- 41131973
Mobile : +91 9008404142
Email : venktechnologies@gmail.com

MANGALORE

J. P. ELECTRICALS
Mr. J. M. D. Almeida
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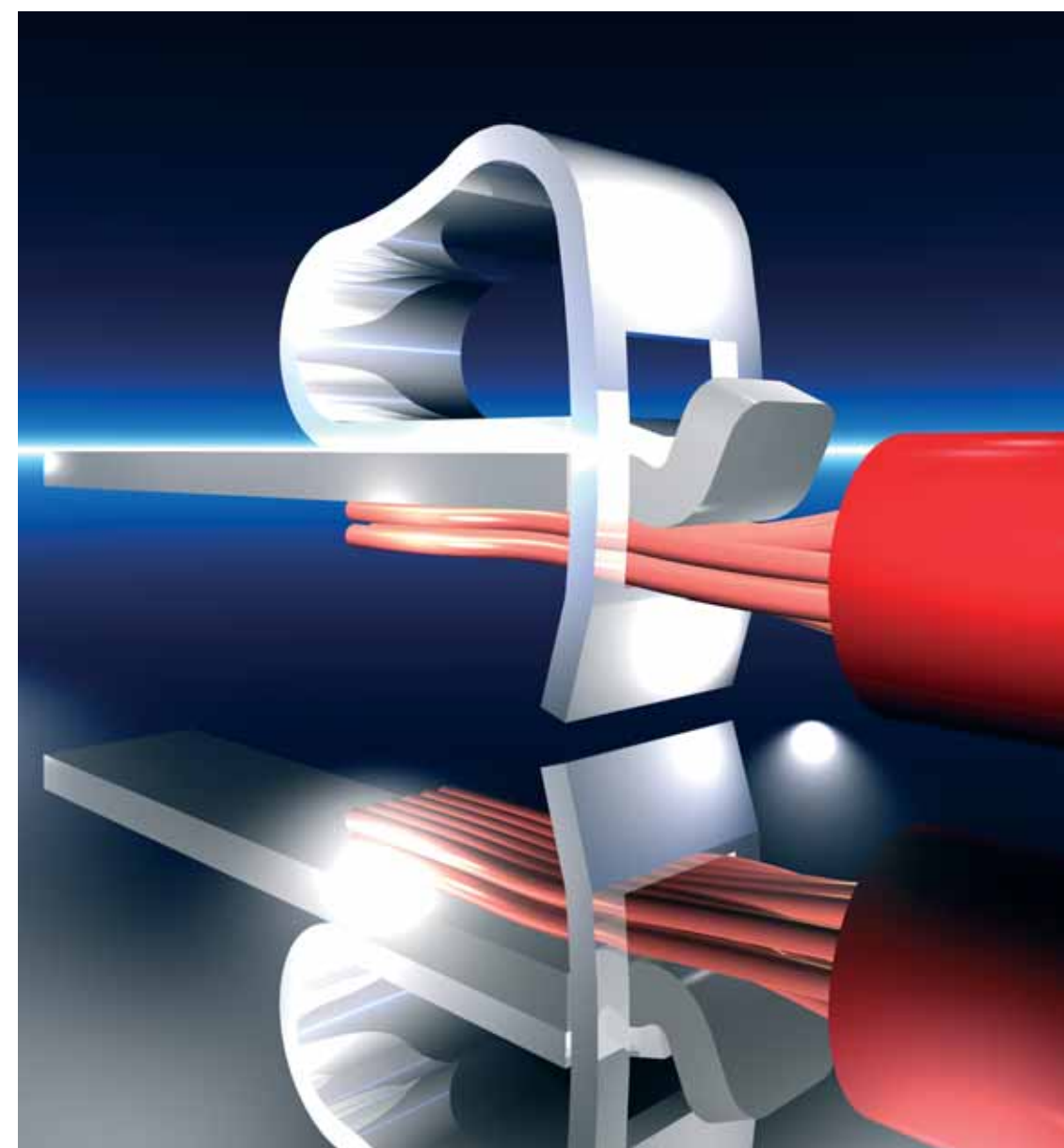
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ELMEX : THE WORLD OVER





ELMEX AT VARIOUS EXHIBITIONS



Cross Currents MAY 2010

elmex Terminal Blocks for Photovoltaic Applications

With an ever increasing demand for power and continuing depletion of resources used to generate electricity through conventional means, it is clear that non-conventional and renewable sources of energy will play a significant role in meeting energy demands of the future. Solar energy is one such resource which has vast potentials to be tapped through the application of photovoltaic technology. The term photovoltaic technology refers to a system that converts solar energy into usable power, generating electricity from energy inverter that converts DC components, such as circuit breakers, devices and terminal blocks for connection.

elmex offers a wide range of sq mm, tested and approved in photovoltaic systems. Electrical blocks are given below. These termination by well proven manufacturing using Polyamide.

TERMINAL TYPE	SPECIFICATIONS
KUT 2.5 N	1000 V DC/24 A/2.5 sq mm/0.5 Nbs
KUT 4 N	1000 V DC/32 A/4 sq mm/0.5 Nbs
KUT 6 N	1000 V DC/41 A/6 sq mm/0.8 Nbs
KUT 10 N	1000 V DC/45 A/10 sq mm/1.2 Nbs
KUT 25	1000 V DC/101 A/25 sq mm/2.3 Nbs
KUT 35	1000 V DC/125 A/35 sq mm/3 Nbs
KUT 50	1000 V DC/150 A/50 sq mm/3 Nbs
KUT 95	1000 V DC/232 A/95 sq mm/20 Nbs

elmex & econix @ ELECRAMA

A panoramic view of our stall at ELECRAMA 2010, Mumbai.

Cross Currents AUGUST 2011

elmex SCREWLESS TERMINAL BLOCKS - AN OVERVIEW

elmex offers a wide range terminal blocks with different termination technologies such as screw-clamp, spring termination and screw-less termination.

In this issue, we present an overview of **elmex** Screwless Terminal Blocks.

elmex Screwless Terminal Blocks are constructed employing good engineering practices. As the name suggests this type of terminal blocks does not require a screw for termination of a conductor within the clamping unit.

Some of the salient features in respect of construction and performance of Screwless Terminal Blocks are described as under:

- 1) The Spring Clamp used in **elmex** Screwless Terminal Blocks are made using special grade Austenitic Stainless Steel material which is heat treated for stress relieving of our end. Important characteristics of this spring steel material are as under:
 - High fatigue strength
 - Better resistance to corrosion effects
 - Higher relaxation resistance, especially at elevated temperatures
 - High ductility, low yield stress and relatively high ultimate tensile strength
- 2) These terminal blocks are available in three entry configurations - i.e. side entry, top entry or depending on termination requirement.

TOP ENTRY **SIDE ENTRY** **ANGULAR ENTRY**

Cross Currents JANUARY 2010

Team elmex Wishes you a Very Happy & Prosperous New Year!



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