

The best technical solution at the best possible price

# Introduction

**ELSTEEL** Ltd. is an international re-search and development orientated company.

Our objective is as simple as our products:  
To manufacture the worlds best enclosures at the best possible price.

The enclosures range from the smallest terminal box to the biggest Olympic Stadium distribution panel.



**This** short form brochure explains the advantages of Techno Module and how it can be used.

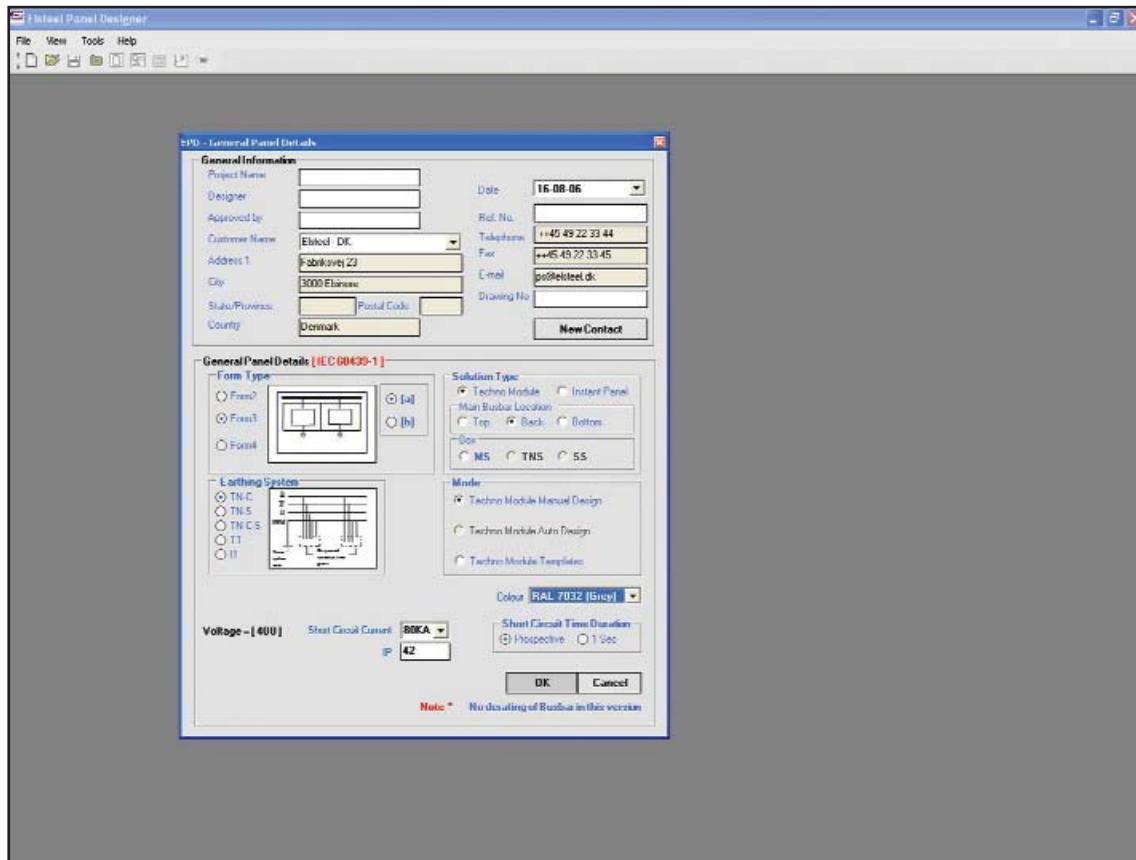


Techno Module is a patented 200 mm grid modular system for the switchboard manufacturing industry.

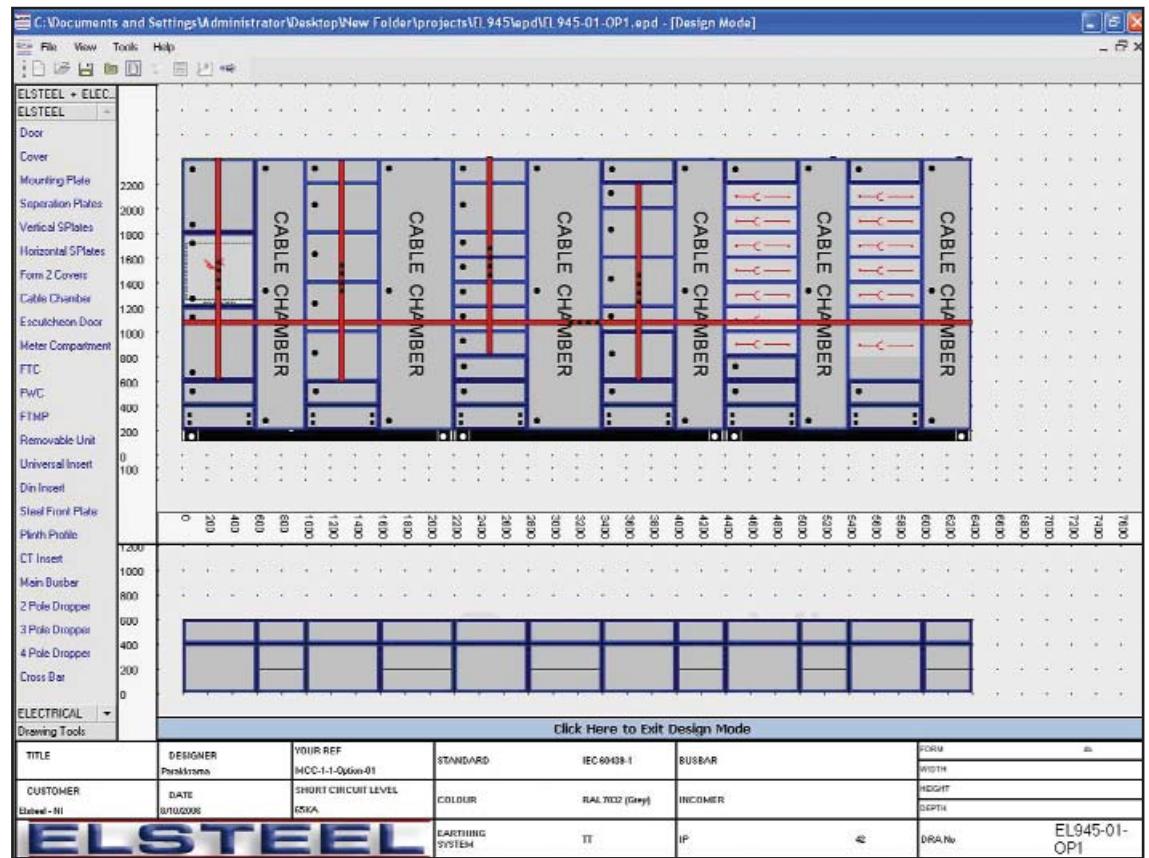
It is the result of many years of work in research and development, and type - testing at recognised test stations around the world.

All major brands of breakers contactors relays etc. fit perfectly into the system.

# The ELSTEEL Panel Designer



Data entry



Auto

# Designer

The first step in designing a successful distribution or motor control centre is planning with ELSTEEL Panel Designer.

## Basic Information

Enter the information about the customer, and project. Click ok and you come directly to the drawing board. Here you can pick and place components the way you like

## Cost calculation

The software will automatically generate a panel. The cost calculation will tell the exact price for the complete package.

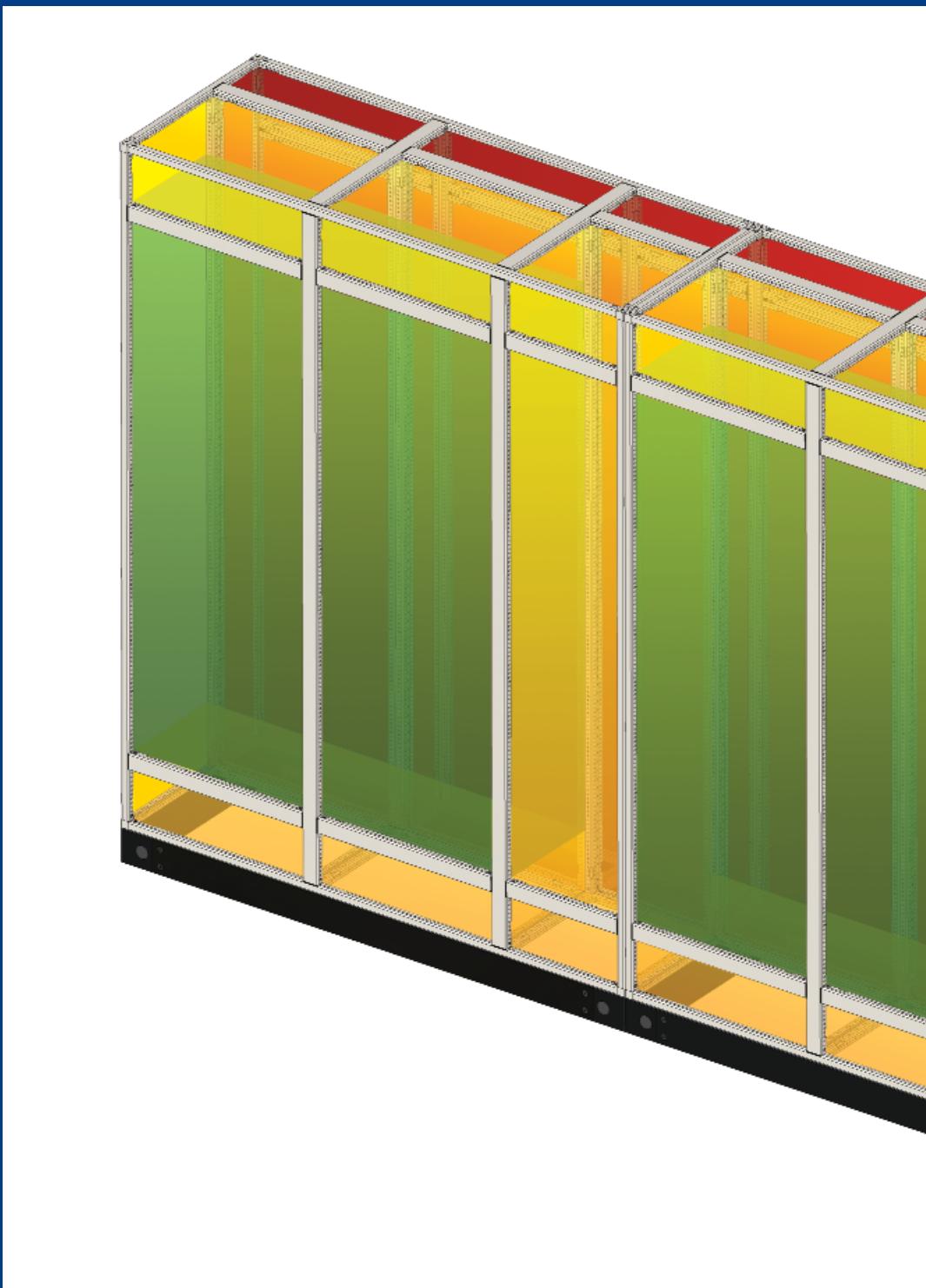
## Parts

The system will give you all information about Elsteel items, as well as electrical items. Our software engineers are constantly updating the database with new products.

## Technical Info

Drawings generated in 2D and isometric viewing. Temperature rise calculations and diagrams

# Layout

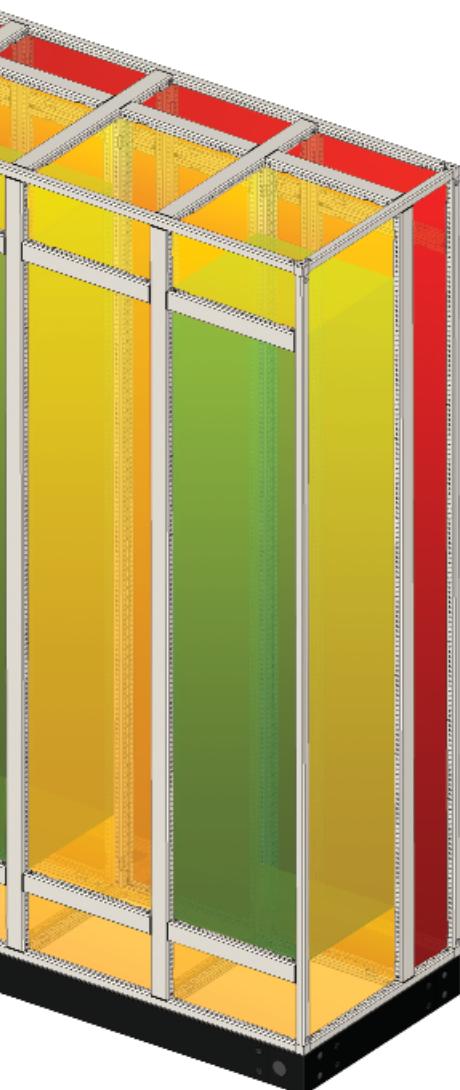


**In** the design mode of the **ELSTEEL Panel Designer** program you can divide the panel into 3 sections as shown.

This is usually the best-balanced technical solution as well as being the most economical.

However, if this layout is not suitable you can re-arrange the panel to any other configuration you want.

This system is used irrespective of whether it is a Distribution panel or MCC.



Green - Functional units

Yellow - Cable chamber

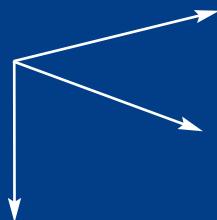
Red - Bus bar section

# Framework





**The** system is modular in steps of 200 mm in all three directions.



There is no limit to the possibilities and positions.

The framework is made from 2mm electrogalvanized powder coated steel profile.

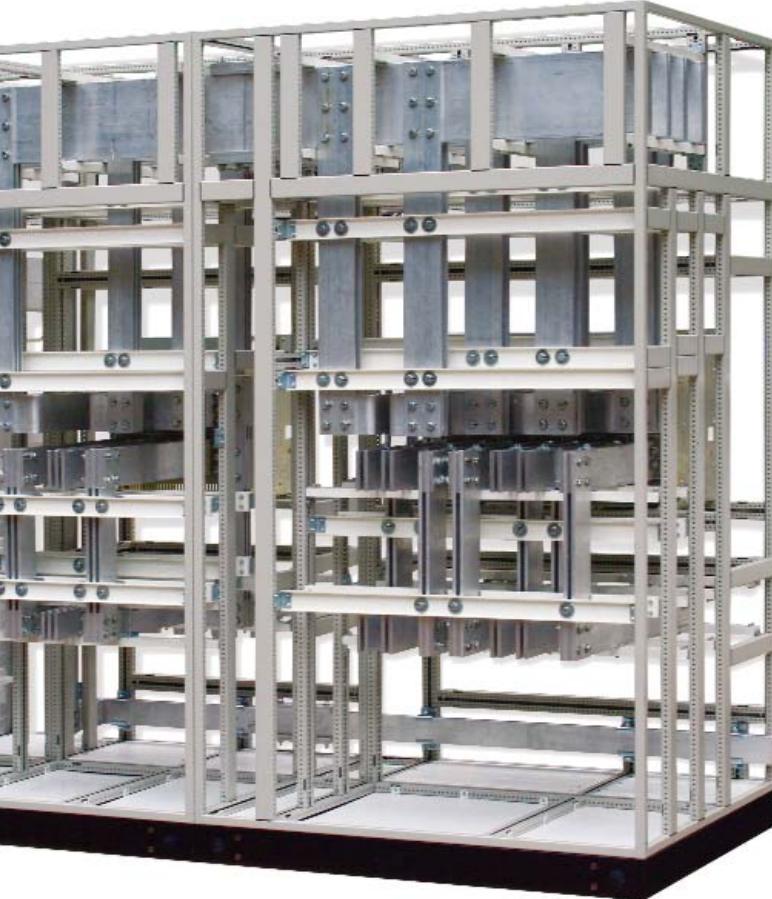
It forms a 25mm grid and can be arranged in an unlimited number of ways.

It rests on a modular base frame which incorporates all facilities for dividing and transportation.

Smaller panels can be made in the economical instant panel or Techno Module Light.

# Busbars





**The** busbar system incorporates the use of 10 mm thick flat bars. Either Copper or Aluminium.

The holders are made from special formulated plastics, and can be mounted in any position inside the framework.

During type testing upto 7100 Amp 100 kA/1sec. the holders have been tested rigourously again and again, and again, and again, and again....

The holders do not incorporate bolts for clamping but allow the bars to slide during heating and cooling.

# Inserts - Fixed type





**The** panel shown here is fitted with MCCB with solid connections directly on to the droppers.

The Mounting plates have been prepunched for easy breaker mountings.

They are available in all the modular sizes.

Separation plates can divide the panel into all the forms of segregation.

# Plug In Inserts

**These** removable units can be used as base for either switches or motor starters. They can be changed safely while the board is live. This gives great flexibility to the end user.

They are available as 3 or 4 pole units from 0 - 630 AMP - with or without flexible bus bars.

The units are very economical when compared to bolted connections.





# Form 3 + 4

**Highest** form of personal safety - yes - but also protection of material and environment.

With these separation plates installed it is possible to work in one section of the panel board while the rest of the panel is live.

Separation plates prevent foreign objects or particles resulting from a short circuit, in one section to contaminate the whole panel.





# Fully Withdrawable

**This** is beyond doubt the fastest and most successful way of changing starters on the market. Heavy duty solid stainless steel mechanism ensure years of reliable operation.

The optional digital diagnostic display informs the operator of the different positions of the drawer as well as temperature / amps / voltage / r.p.m.s. etc.

Removed



Disconnected Lockable



Test



Connected



Where lives are at stake and/or high capital investment is involved fully withdrawable units should be specified.

Available in 0 - 630 AMP.

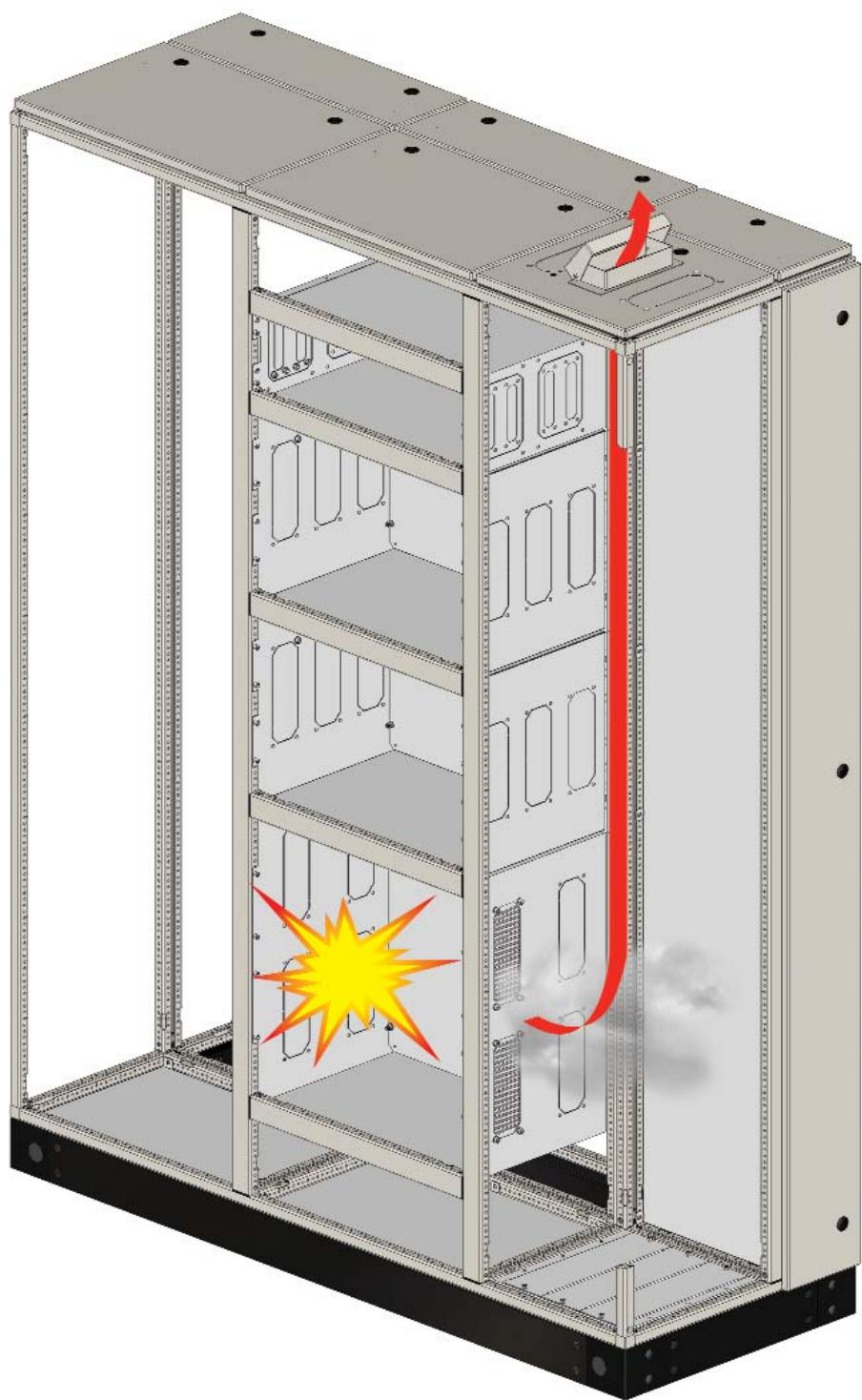


# Arc Faults

**Specially** designed and tested filters will allow excessive gas to escape from any compartment into the adjacent cable ladder and out through the top of the panel.

This means that no flames or solid objects will explode towards the operator in front of the panel.

The filters are economical and very simple to install.



# Finish

The surface of the panel is powder coated in RAL 7032 smooth finish, -is easy to maintain and will look as new for many years.

Phosphated and chromepassivated pre-treatment suitable for tough tropical conditions.

Degree of protection up to IP55

After commissioning, the panel is easily expanded and breakers or motor starters can be removed or fitted while it is live.





# Certification

**ASTA CERTIFICATION SERVICES**  
1300 E. 6th Street • Suite 110 • Cypress, CA 90630 • (714) 427-7000  
Fax: (714) 427-7009 • Email: [info@astacert.com](mailto:info@astacert.com)

CERTIFICATE OF SHORT-CIRCUIT RATING

APPLICABILITY Item Power and Neutral Mainboard and Vertical Switch and Isolating Circuit  
Standard IEC 60072-15 Ed. 1.1, IEC 60072-15 Ed. 1.1

DESCRIPTION Type: Class Technological System 10004\*

MANUFACTURER Phoenix Contact, Kugellagerstrasse 36, 96138 Aalen, Germany, DE

TESTED BY Falcon Testing Laboratory Limited, India

GATE OF 101250 - APR 13 2007 July 2006

The apparatus, constructed in accordance with the description, character and the conditions has been tested for the values of proving tests in accordance with IEC 60072-15 Ed. 1.1, IEC 60072-15 Ed. 1.1.

The results are valid for the model of Phoenix Testo, and the readings refered below and the general performance are considered to comply and to justify the voltage assigned by IEC 60072-15 Ed. 1.1.

Short-circuit peak current withstand rating:  
1000A (horizontal and vertical position)  
1000A (horizontal position)  
These phases: IEC 60072-15 Ed. 1.1, IEC 60072-15 Ed. 1.1.

The report of Phoenix Testo applies only to the apparatus tested. The is of any application having the characteristics specified with the subject matter with IEC 60072-15 Ed. 1.1.

This certificate is valid for three years from the date of issue. It may be used without restriction as long as it is issued by an authorized Testing & Certification Organization.

IPH Berlin  
Institut für elektrische Hochfrequenztechnik

**TYPE TEST REPORT**

Test document No.: IEC 205-2.2.30

Client: Elmo Leitung  
Dortmund, Nordrhein-Westfalen  
D-44281 Lippesee / Düsseldorf, Nordrhein-Westfalen

Address: 1142614  
Cronenstr. 2, Kielstraße IPB 7500 Lübeck

Manufacturing Unit: Modular sub-module of a low-voltage switchgear and controlgear assembly  
IEC205M020002, Kielstraße 71376 Lübeck

Type: Rated voltage three-phase 50 Hz

Current characteristics: Rated current of outgoing unit (2x900mA/50Hz)

Protection: Type I protection according to IEC 60072-15 Ed. 1.1  
Rated short circuit withstand current of outgoing unit  
Rated short circuit withstand current of short circuit

Normal environment: IEC 60072-15 Ed. 1.1  
IEC 60072-15 Ed. 1.1  
IEC 60072-15 Ed. 1.1  
IEC 60072-15 Ed. 1.1  
IEC 60072-15 Ed. 1.1

User permission:

- Limit withstand current 1000A
- Verification of short circuit withstand strength
- Verification of the performance of the protection device

Test result:

The equipment tested has passed  
the test performed at the rated characteristics.

IPH Berlin  
Institut für elektrische Hochfrequenztechnik

**TYPE TEST REPORT**

Document No.: 013.258.E.004

Client: ELS STEEL LIMITED  
Spur Road 2, EPZ, Karunayake, Sri Lanka

Manufacturer:

Test object: Three phase  
Type: MCCB

Manufacturing No.:

Use	Rated operating voltage	1	2
Switching current	240 V	1600 A	1600 A
Number of contacts	3	1000 A	1600 A
Insulation class	2500 V	3200 V	3200 V
Number of poles	3	3200 V	3200 V

Normative document: IEC 60898-1

Test performed:

Test result:

Pass

Date of test:

Test result:

Pass

IPH Berlin  
Institut für elektrische Hochfrequenztechnik

**DEMKO**

Lokal: S. P. O. C. L. B. 21.1  
Lokal: 2/19, Export Processing Zone,  
Sri Lanka  
Sri Lanka  
Tel. 011-3160263  
Fax: 011-3160264  
Date: 2007-03-28

R. H. Hooper  
Head of Department

**COPY**

Test Report  
Number 100574

Apparatus Three MCCB outgoing units of a 415 V / 690 V (Us / Uc) three-phase switchgear assembly.  
Designed as a Technico-Resilient Module.

Manufacturer Elsteel Ltd  
Spur Road 2  
EPZ, Karunayake, Sri Lanka

Client KEB Techno (New South Wales)  
AMEC Mayfield (South Australia)  
Techno Asia (Victoria)  
Electroline (Sri Lanka)

Dates of Tests 24 September 1997

The apparatus was tested in accordance with the description, drawings and photo Test Report has been tested in accordance with:  
Australian Standard 3439.1-1993 with Amendment 1 - Appendix E

Tests

Standard Internal Arcing Fault Test  
250 A, 400 A and 630 A - 63 kA rms at 415 V,  
MCCB outgoing units

Conclusion

The three MCCB outgoing units subjected to the standard internal acceptable protection to an operator with the remainder of the circuit assembly suitable for further service.

This Test Report applies only to the apparatus tested. The responsibility for conformity of any other parts rests with the manufacturer. Only representatives of this firm do have the authority to issue Test & Certification Australia, 10 Mars Road, Lane Cove, NSW 2066, Australia.

Disclaimer: All rights reserved. The information contained in this document is the sole property of Testing & Certification Australia Pty. Ltd. It is supplied for the sole purpose of determining the conformance of the apparatus described and is not to be reproduced or copied, in whole or in part, without written permission from Testing & Certification Australia Pty. Ltd.

This Test Report comprises 8 pages, 1 diagram, 4 enclosures and 10 photographs

M. M. Lewis  
Testing & Certification Australia

The laboratory is registered by the National Association of Testing Authorities Australia. The work described herein has been performed in accordance with the terms

**Certificate of Compliance**

Certificate No: 10-2815  
Project: 100216  
Hazard No: ELSSTEEL LTD.  
Spur Road 2,  
Karunayake Industrial Promotion Zone,  
Kannanayake,  
Sri Lanka  
Authorized by: Ursula Goss

**DET NORSKE VERITAS  
MANAGEMENT SYSTEM CERT**

DET NORSKE VERITAS  
VERIFICATION OF PRODUCT DECLARATIONS

ELSTEEL LTD.

Spur Road 2, EPZ, Karunayake, SRI LANKA

has been found to conform to the Quality Management System  
ISO 9001:2000

This Certificate is valid for the following product or service:

DESIGN AND MANUFACTURE OF TYPE TESTED MC  
VOLTAGE SWITCH BOARDS AND DISTRIBUTION

Original Certification date: 2006-12-17

DNV  
I  
R  
A  
S  
V  
K  
M

Compliance to the standard is subject to the individual expert  
it is verified by the DNV appointed registered Team Leader.

Serial No. Summarized  
Last Author:

Lack of fulfillment of conditions as set in the Appendix may render the certificate null and void.

CE  
Original certificate valid from:  
June 14, 2006  
Management Representative:  
George H. W.  
Signature

TEST PERFORMED	CERTIFICATION AUTHORITY	CERTIFICATE REFERENCE
<b>Techno Module Panels</b> Comply to IEC 60439-1		
01. Full type test on 1600 A TM System with GE breakers	ASTA	16152
02. Full type test on 2500 A TM System with GE breakers	ASTA	16151
03. Full type test on 6300 A TM System with ABB breaker	IPH	1819.1061.3.431
04. Full type test on 7100 A TM System with ABB breaker	IPH	1819.1061.3.434
05. Short circuit test on TM System	NEFI	1752
06. Short circuit test on TM System	NATA	101740-1
07. Full type test on 5000 A TM System with ABB and Jean Müller	IPH	1513.832.0.468
08. Full type test on 2500 A TM System with Merlin Gerin, ABB, Siemens, Jean Müller breakers	IPH	513.228.6.384
09. Temperature rise test and short circuit test for 5000A TM System	ASTA	12890
10. Temperature rise test and short circuit test for 3200A TM System	ASTA	12798
11. Temperature rise test & Short Circuit test for 2500 A TM System	IPH	170.265.2.230
12. Degree of Protection Test (IP Test) for Techno Module & Instant Panel Systems Test passed for IP55	DEMKO	10/92 - 29 BTh
13. Lloyd's Register Type Approval Certificate for Marine, Offshore and industrial application of Techno Module system	LLOYD'S REGISTER	02/70003

For more certifications and latest updates please see [www.elsteel.com](http://www.elsteel.com)

TEST PERFORMED	CERTIFICATION AUTHORITY	CERTIFICATE REFERENCE
<b>Box Enclosures</b>		
01. Certificate of compliance for Painted Steel Boxes and Terminal Boxes comply to UL 50 Type 4, 4X, 12 and CSA 94 Certificate of compliance for Stainless Steel Boxes and Terminal Boxes comply to UL 50 Type 4, 4X, 12, 13 and CSA 94	CSA	227808
02. Degree of Protection Test (IP Test) for Mild Steel Box enclosure Test passed for IP 65	DEMKO	92911 BTh
03. Degree of Protection Test (IP Test) for Stainless Steel Box enclosure Test passed for IP 66	DEMKO	93/53 BTh
04. Lloyd's Register Type Approval Certificate for Marine, Offshore and industrial application of Stainless Steel Enclosures & 19" cabinets.	LLOYD'S REGISTER	02/70003
<b>Other Certifications</b>		
01. Certified to the Quality Management System Standard ISO 9001:2000	DNV	00049-2003-AQ-CBO-RvA
02. Certified to the Council Directive 2002/95/EC on the restriction of the use of certain hazardous substances in the electrical and electronic equipment	DNV	2006-India-RoHS-0001

For more certifications and latest updates please see [www.elsteel.com](http://www.elsteel.com)

# Material specification

Base Frame	2mm mild steel powder coated in black (RAL 9005)
Corners	Aluminium die casted powder coated in grey (RAL 7032)
Corner Bar / Cross Bar	Electro galvanized 2mm powder coated in grey (RAL 7032)
Doors / Covers	Mild steel 1.5mm powder coated in grey (RAL 7032)
Doors with window	Mild steel 1.5mm powder coated in grey (RAL 7032) & 4mm Tempered Tinted glass
Door Stabilisor	Mild steel 20x20x1.5 square pipe powder coated in grey (RAL 7032)
Door with cable glands	Mild steel 1.5mm powder coated in grey (RAL 7032)
Mounting Plate	Mild steel 2mm powder coated white (RAL 9010) / 2mm Alu-zinc
Separation Plates	Mild steel (2x2, 2x4, 2x6, 4x4, 4x6,) 1 mm painted white (RAL 9010) All other sizes 1.2 mm
Flat Cover	Mild steel 1.5mm painted in grey (RAL 7032)
Panel Assembly Kit	Mild steel 3mm zinc plated
Cable Holder	Mild steel 2mm painted white (RAL 9010)
Lifting Eyes (14380)	Mild steel 3mm powder coated in black (RAL 9005)
Lifting Eyes (14390)	Mild steel 3mm zinc plated
Wall Mounting Brackets	Mild steel 3mm powder coated in grey (RAL 7032)
Transport Wheel Holder	Mild steel 3mm powder coated in black (RAL 9005)
Busbar Holder	Self extinguishing fibre material / reinforced PC
Fish Plate	Copper 10mm
H to V connectors	Copper 10mm
Busbar tap off - 21000	Dia 10mm zinc plated
- 21010 & 21020	Copper 5mm
- 21030	Mild steel 3mm zinc plated
Bracket for earth conductor	Mild steel 3mm zinc plated
Copper Spacer	Copper Dia 30
Instant Panel - Casing	Mild steel 1.5mm powder coated in grey (RAL 7032)
- Doors	Mild steel 1.5mm powder coated in grey (RAL 7032)
- Mounting Plate	Mild steel 2mm powder coated in white (RAL 9010) / Alu-zinc 2mm
Techno Module Light	Please ask for specifications
MS Box (IP65)	
- Box Upto 4.5 - 150	Mild steel 1.2mm textured epoxy / polyester in grey (RAL 7032)
- Box Above 4.5 - 150	Mild steel 1.5mm textured epoxy / polyester in grey (RAL 7032)
- Mounting Plate	Alu-zinc 2mm
MS Terminal Box (IP55)	Mild steel 1.2mm powder coated in grey (RAL 7032)
- Mounting Rails	Alu-zinc 2mm
SS Box (IP66)	Stainless steel 1.5mm (AISI 304, AISI 316) Wet grinding (180)
- Mounting Plate	Alu-zinc 2mm
SS Terminal Box (IP66)	Stainless steel 1.5mm (AISI 304, AISI 316) Wet grinding (180)
- Mounting Rails	Alu-zinc 2mm
SS Floor Standing Enclosure (IP65)	Stainless steel 2mm (AISI 304, AISI 316) Wet grinding (180)

# References

Customer	Product	Country
Defence Ministry	Motor Control Centre	Dubai
Qatar International Stadium	Distribution Panel	Qatar
Schwartauer Werke	Techno Module	Germany
Felten & Guilleaume	Techno Module	Germany
Fa. Meyer Brandschutz	Techno Module	Germany
EAE	Techno Module	Germany
Siemens	Techno Module	Germany
Rheinelektra HH	Techno Module	Germany
ARGE Hochtief /Heitkamp	Techno Module	Germany
IBM Tower	Motor Control Centre & Withdrawable unit	Singapore
Police Academy Training Command	Main Switchboard & Main Distribution	Singapore
JTC (Port operating system)	Main Switchboard & Main Distribution	Singapore
Castle Green Condominium	Main Switchboard & Main Distribution	Singapore
Super Coffee Factory (Senoko)	Main Switchboard & Main Distribution	Singapore
MRT Contract C573	Motor Control Centre & Withdrawable unit	Singapore
Shell Eastern Petroleum	22k Alarm Monitoring System	Singapore
LRT Depot C801	Motor Control Centre	Singapore
Raffles Hospital	Motor Control Centre	Singapore
Olympic Stadium 2000	Main Distribution	Australia
Tamworth Hospital	Main Switchboard	Australia
New M5 East Tunnel	Main Switchboard	Australia
Glennies Creek Coalmine	Motor Control Centre Drift Conveyors	Australia
McDonald's	Main Distribution	Australia
Australia Post	Form 3B Main Switchboard	Australia

<b>Customer</b>	<b>Product</b>	<b>Country</b>
Telecom	Main Switchboard	New Zealand
ALDI Shopping Centre	Main Switchboard	New Zealand
Super Yachts	General Control & Motor Control Centre	New Zealand
KCRC Lo Wu station	Motor Control Centre	Hong Kong China
Nothern Telecom	LV Switchboard	China
Holmen Dansk	Distribution Board	Denmark
Steff Houlberg	Motor Control Centre	Denmark
SAS	Main Switchboard & Main Distribution	Denmark
DSB Rail roads	Main Switchboard & Main Distribution	Denmark
Copenhagen Energy	Motor Control Centre	Denmark
The Royal Theater	Main Distribution	Denmark
National Hospital Reykavik	4000A Switchboard	Iceland
M/S Holmatindur	Main Switchboard	Iceland
Eskifjord Ltd	2500A Switchboard	Iceland
Union of Icelandic fish producers	1250A Switchboard	Iceland
Manchester United FC	Main Switchboard	UK
Nissan	Main Switchboard & Package Substations	UK
Nokia	Main Switchboard	UK
Liverpool Airport	Main Switchboard	UK
Pilkington Glass	Motor Control for Glass manufacture	UK
Noway Seafood	Main Switchboard	Norway
Mar Kraftverk	Techno Module	Norway

**For more references please see [www.elsteel.com](http://www.elsteel.com)**

# Manuals

## Constructors Manual

The Constructors Manual contains all the necessary information the panel builder requires for ordering.

In section 1 to 8 Elsteel components are listed with type, description, weight quantity etc. with related sketches.

Section 9 "Technical Specification" contains all the necessary technical information the consultants and engineers require regarding the designing of the assembly.

## Assembly Instruction Manual

The assembly instruction manual provides detailed information for the fitter.

Step by step instructions lead clearly through the build process.

**1**

**CON  
ELS  
IV**

**ORDER INFORMATION**

**TYPE** **DESCRIPTION** **PROFILE LENGTH**

BFC	PLINTH CORNER	
INCI		

**TYPE** **DESCRIPTION** **PROFILE LENGTH**

BPP 3	PLINTH PROFILE	100
BPP 4	PLINTH PROFILE	200
BPP 6	PLINTH PROFILE	400
DPP 8	PLINTH PROFILE	600
BPP 10	PLINTH PROFILE	800
DPP 12	PLINTH PROFILE	1000
BPP 14	PLINTH PROFILE	1200
BPP 16	PLINTH PROFILE	1400
HPP 18	PLINTH PROFILE	1600
BPP 20	PLINTH PROFILE	1800

**TYPE** **DESCRIPTION**

BCD	CLAMPING BRACKET
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**1:01** ISSUED BY: F. P. DATE: 01.06.2006 APP

**PLINTH CORNER****SOCKEL ECKEN****SOKKEL HJØRNE**

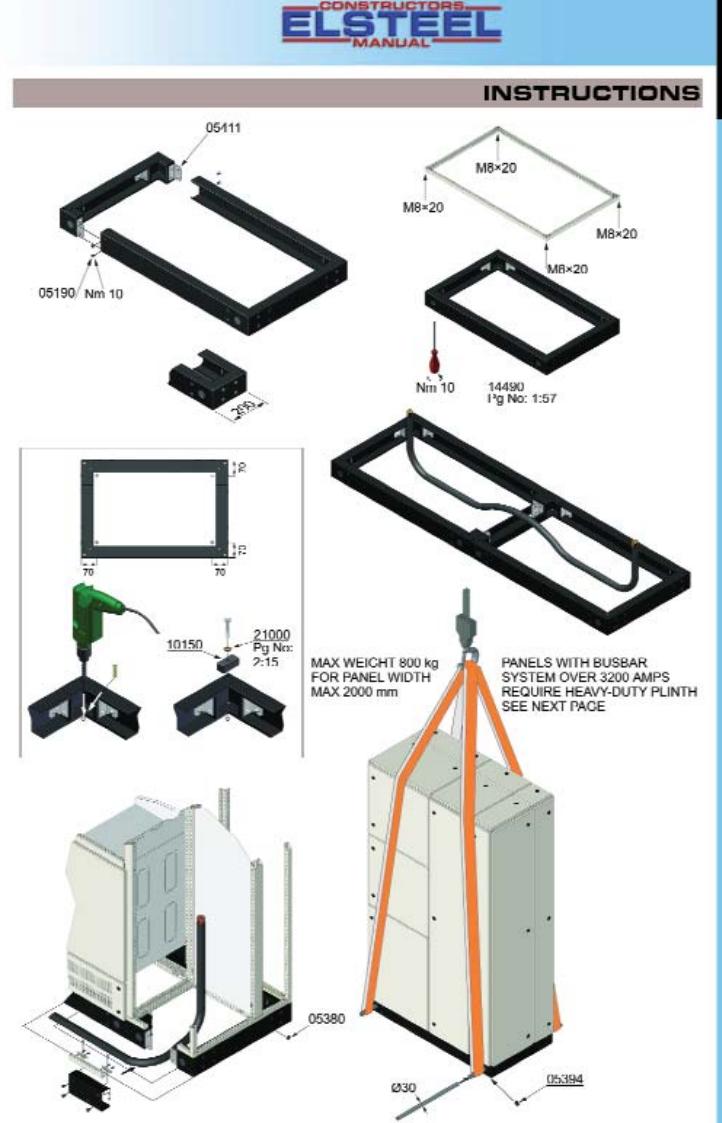
NER SIZE	WEIGHT kg	QTY	ORDER No
100X100	5.02	1 SET	10000

**PLINTH PROFILE****SOCKEL PROFIL****SOKKEL PROFIL**

GTH	PANEL SIZE	WEIGHT kg	QTY	ORDER No
300	0.70	1 SET	10030	
400	1.19	1 SET	10040	
600	2.79	1 SET	10050	
800	4.18	1 SET	10060	
1000	5.57	1 SET	10070	
1200	6.97	1 SET	10080	
1400	8.36	1 SET	10090	
1600	9.75	1 SET	10100	
1800	11.15	1 SET	10110	
2000	12.54	1 SET	10120	

**CLAMPING BRACKET****SOCKEL KLEMMEN****GULV BESLAG**

WEIGHT kg	QTY	ORDER No
0.60	1 SET	10150



# International Distributors

EUROPE	MIDDLE EAST - Contd.	ASIA - Contd.
EFA Elektro AS - Norway Tel: ++47 6 681 2400 Fax: ++47 6 680 0478 Mail: geir.sogn@efa.no	Arabian Gulf Switchgear Ltd. - U.A.E. Tel: ++971 6 534 4858 Fax: ++971 6 534 4629 Mail: info@agswitch.com	Flux Engineering - Maldives Tel: ++960 31 7524 Fax: ++960 32 1230 Mail: flux-eng@fluxmaldiver.com.mv
Elsteel Ltd. - Poland Tel: ++48 77 465 4666 Fax: ++48 77 465 4674 Mail: elsteel@elsteel.pl	N. N. Control Panels Ltd. - Cyprus Tel: ++357 25 71 2516 Fax: ++357 25 71 4415 Mail: info@nncontrolpanels.com	Upright Electrical Engineering Services - Hong Kong Tel: ++852 2136 1081 Fax: ++852 2136 1083 Mail: man@upright.com.hk
Elsteel UK - England Tel: ++44 197 885 5909 Fax: ++44 197 885 5824 Mail: sales@elsteel.co.uk	Al Bonian International - Lebanon Tel: ++961 6 40 0195 Fax: ++961 6 40 0192 Mail: bonian.i@cyberia.net.lb	East Link Engineering - Sri Lanka Tel: ++94 11 250 5090 Fax: ++94 11 236 8268 Mail: eastlin@slt.net.lk
RS Components Ltd. - England Tel: ++44 1536 20 1234 Fax: ++44 1536 20 1501 Mail: www.rsweb.com	Electronic & Electrical Industries - Saudi Arabia Tel: ++966 1 294 1458 Fax: ++966 1 265 2443 Mail: www.abunayyangroup.com	Electro Link - India Tel: ++91 79 2297 1070 Fax: ++91 79 2287 7082 Mail: electrolink@sify.com
Elsteel Ltd. - Ireland Tel: ++44 289 077 4041 Fax: ++44 289 078 3197 Mail: ghavlin@parkelect.co.uk	CIMAC Automation - U.A.E. Tel: ++971 4 883 7013 Fax: ++971 4 883 7014 Mail: deepak.naik@cimacdubai.com	Elsteel Ltd. - India Tel: ++91 80 2351 9747 Fax: ++91 80 2351 9757 Mail: nishith@elsteel.com
BMC Manufacturing - Ireland Tel: ++353 1 835 1744 Fax: ++353 1 835 2359 Mail: ydillion@bmcmfg.ie	Powercon Switchgear Factory - Dubai Tel: ++971 4 267 5504 Fax: ++971 4 267 5514 Mail: powercon@powercon.ae	Fudo Automation Systems - Hyderabad, India Tel: ++91 40 5522 5109 Fax: ++91 40 2307 3995 Mail: fudo@rediffmail.com
TMS GmbH - Germany Tel: ++49 4554 705 6500 Fax: ++49 4554 705 6503 Mail: info@technomodul.de	Malisco Switchgear Industry - U.A.E. Tel: ++971 6 532 1125 Fax: ++971 6 532 1105 Mail: malisco@emirates.net.ae	Hitech JSC Company - Vietnam Tel: ++84 4 871 1875 Fax: ++84 4 871 1876 Mail: sales@hitechjsc.com
Kulik Telecom B. V. - Holland Tel: ++31 182 61 8777 Fax: ++31 182 61 6064 Mail: info@kulik.nl	Neka Novin Co., - Iran Tel: ++98 21 8875 7854 Fax: ++98 21 8850 6021 Mail: mmdayeni@nekanovin.com	Maxwell Electrical Asia - Hong Kong Tel: ++852 3583 5088 Fax: ++852 3583 5089 Mail: aven.ng@maxwell.com.cn
IML International Ltd - Malta Tel: ++356 2 141 5642 Fax: ++356 2 143 0384 Mail: info@imlgroup.com	Deutsche Babcock Energie - U.A.E. Tel: ++971 2 554 0584 Fax: ++971 2 554 4535 Mail: d.youvaraj@pad-online.com	Proficon Electronics - Bombay, Pune, India Tel: ++91 20 2747 7441 Fax: ++91 20 4116 7451 Mail: proficons@yahoo.co.in
Rafmiolun Ehf - Iceland Tel: ++354 540 3500 Fax: ++354 540 3501 Mail: kolbeinn@rafmidlun.is	Jawad Electric Switchgear Mfg. - Jordan Tel: ++962 6 488 5617 Fax: ++962 6 488 5618 Mail: b_hindi@google.com.jo	Tricon Thai Automation - Thailand Tel: ++66 39 492 505 Fax: ++66 39 492 509 Mail: hja@tricon.co.th
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