



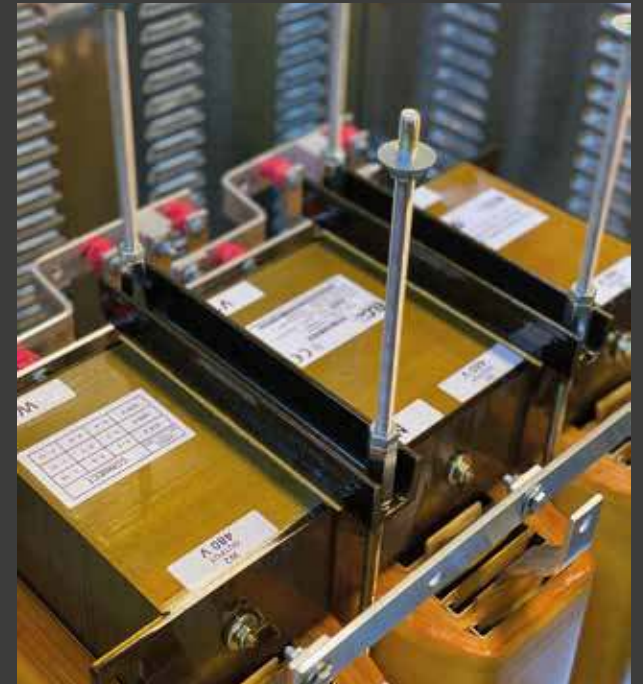
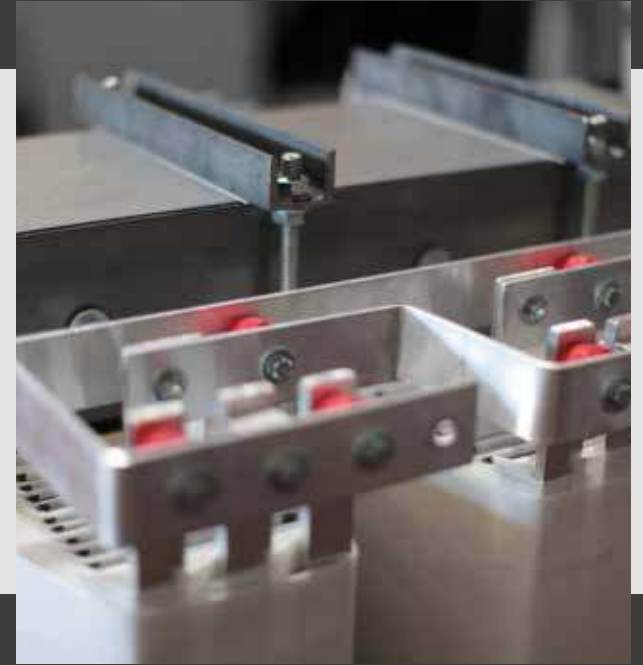
ELCA
TRANSFORMATORE MONOPHASE 200VA
50/50 Hz 1240V CLASSICO
CE



TOGETHER WE TRANSFORM
TOGETHER WE SUCCEED

MADE IN ITALY

COMPANY PROFILE



La società ELCA Trasformatori s.r.l. nasce nel 1962 e si specializza fin da subito nella realizzazione di Trasformatori, Autotrasformatori e Reattanze di bassa tensione e di tipo a secco.

ELCA Transformers was founded in 1962 and it has become a leading company in the production of Transformers, Autotransformers and Reactors low voltage and dry type.

La sede produttiva principale e gli uffici sono siti a Cerro Maggiore (MI) tra Milano e l'aeroporto Malpensa e coprono una superficie totale di circa 2500m².

Altri due stabilimenti ed un magazzino di stoccaggio si trovano a pochi chilometri dalla sede centrale.

The main manufacturing plant and offices are located in Cerro Maggiore (MI) and cover an area of about 2500 sqm. Other two production plants and another warehouse are located not far from the headquarter.



LA NOSTRA STORIA

OUR HISTORY



UNA STORIA IN CONTINUA TRASFORMAZIONE

AN HISTORY IN CONTINUOUS IMPROVEMENT

1962

Casati Luciano
fonda la sua fabbrica di stabilizzatori

Stabilizers company was founded by Casati Luciano



1976

Inizio vendite a livello internazionale

Starting of sales on global scale



1982

I **trasformatori** diventano la produzione principale

Transformers become the main business



1990

Brevettati morsetti ELCA

ELCA terminal blocks are patented



1993

Innovazione TMCV: CLASSE II attacco su guida DIN - IP20

TMCV is the new advanced model on DIN - IP20 rail guide - class II



1997

Sistema di qualità ISO

Implementation of ISO quality system



2006

Certificato UL/CSA

UL/CSA certificate for American and Canadian markets



2009

Certificato SASO

SASO certificate for Kingdom of Saudi Arabia



2010

Viene installata la prima bobinatrice per banda

The first winding machinery is installed



2015

Ampliamento reparto produttivo, costruzione nuovi uffici, inaugurazione nuova sala prove

Expansion of production department, construction of new premises and testing room



2020

Certificazione UL/CSA morsetto Elca 30A e 16A

30A and 16A ELCA terminal blocks are certified by UL laboratories



2021

Acquisto nuova macchina avvolgimento ibrido **Nastro/Piattina 4.0**

Purchase of new hybrid winding machinery 4.0

LA NOSTRA FORZA

OUR STRENGTHS

Ampia gamma di produzione trasformatori/autotrasformatori

da 20VA a 1500kVA

Reattanze **da 1A a 3000A**

Produzione di **15.000 trasformatori al mese**

Prodotti studiati su esigenze e specifiche del cliente

Consegna standard in 10 giorni

Servizio **Fast Delivery 3÷5 giorni** lavorativi

Oltre **1500** trasformatori standard in pronta consegna

Collaudo totale sulla produzione

Certificazioni **UL/CSA**  US FILE E241443

Personale qualificato: 30 persone

Produzione e Fornitori **Made in Italy**

Wide range of production transformers/autotransformers

from 20VA to 1500kVA

Reactors from 1A to 3000A

Production of 15.000 transformers per month

Customized products on customers' specifications

Standard delivery in 10 days/Fast delivery in 3÷5 working days

All transformers 100% tested

Certificates UL/CSA  US FILE E241443

30 skilled employees

Production and suppliers all Made in Italy



 **SINCE**
1962

 **2500m²**
AREA OF OFFICES
AND PRODUCTION

TRANSFORMERS IDENTIFIED BY
 **SPECIFIC SERIAL**
NUMBERS
809107

30 
SKILLED EMPLOYEES

 **PRODUCTION**
AND SUPPLIERS
ALL MADE
IN ITALY

TRANSFORMERS & AUTOTRANSFORMERS



20 VA to
1500 kVA


RANGE OF PRODUCTION



REACTORS

1A to
3000A

RANGE OF PRODUCTION

 **95%**
CUSTOMIZED PRODUCTS



99% CUSTOMER
SATISFACTION
APPROVED BY ISO 9001:2015



ALL TRANSFORMERS ARE

100% TESTED

 **15000**
TRANSFORMERS PER MONTH



CERTIFICATIONS



KSA R-201347



FILE E255070



FILE E241445



SIC 13175.01



ISO 9001:2015

PRINCIPALI SETTORI

MAIN SECTORS

AUTOMAZIONE INDUSTRIALE

INDUSTRIAL AUTOMATION

QUADRI ELETTRICI

SWITCHBOARDS / SWITCHGEARS

DISTRIBUTORE MATERIALE ELETTRICO

ELECTRICAL DISTRIBUTORS

MACCHINE UTENSILI

MACHINE TOOLS

MACCHINE PACKAGING

PACKAGING MACHINES

MACCHINE TESSILI

TEXTILE MACHINES

RIFASAMENTO

CORRECTION BOARDS

ELETTROMEDICALE

ELECTROMEDICAL SECTOR

ENERGIE RINNOVABILI

RENEWABLE ENERGIES

SETTORE FERROVIARIO

RAILWAY

SETTORE ASCENSORISTICO

LIFTS

DATA CENTER

DATA CENTER



PRODUZIONE

PRODUCTION







ELCR

TECHNICAL

COLLAUDO TESTING



Prova Termica _ Trasformatore 500 kVA

Descrizione macchina: trasformatore trifase 500kVA, 415/400V (695,6/721,7A), 50Hz, collegamento Dyn11.

Scopo: misura della sovratemperatura del nucleo e degli avvolgimenti facendo scaldare sia il nucleo che gli avvolgimenti a, rispettivamente, tensione e corrente nominale.

Dati di collaudo (prova in corto e prova a vuoto) del trasformatore:

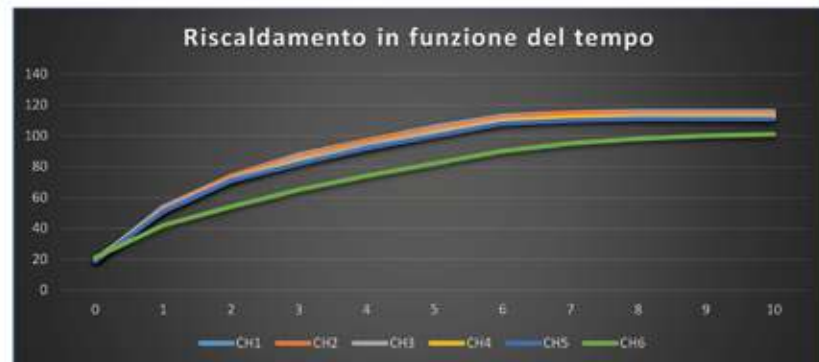
- IO: 1,19%;
- PO: 1628W;
- Pk (115°C): 6061W;
- Uk (115°C): 4,81%.

Metodo di misura termico: 6 sonde PT100 con temperatura rilevata su centralina NT938-ETH (Techsystem).

- CH1: bobina centrale (v), 2° areazione;
- CH2: bobina centrale (v), 4° areazione;
- CH3: bobina centrale (v), 6° areazione;
- CH4: bobina laterale (u), 4° areazione;
- CH5: bobina laterale (w), 4° areazione;
- CH6: nucleo.

Dati rilevati (tabella con grafico):

Tempo	0h	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h
T CH1	19°C	54°C	74°C	88°C	97°C	106°C	113°C	115°C	116°C	116°C	116°C
T CH2	19°C	53°C	74°C	87°C	97°C	105°C	112°C	115°C	115°C	115°C	115°C
T CH3	20°C	52°C	72°C	85°C	94°C	103°C	110°C	112°C	113°C	113°C	113°C
T CH4	20°C	51°C	71°C	83°C	92°C	101°C	109°C	112°C	112°C	112°C	112°C
T CH5	19°C	51°C	71°C	82°C	92°C	100°C	108°C	110°C	111°C	111°C	111°C
T CH6	21°C	42°C	54°C	65°C	74°C	82°C	90°C	95°C	98°C	100°C	101°C
T.amb.	18,7°C	19,1°C	19,3°C	19,5°C	19,8°C	20,1°C	20,5°C	20,9°C	21,3°C	21,7°C	22,1°C



Risultati delle sovraturemperature (a regime):

- **ΔT avvolgimenti: 93°C** (considerando CH1, CH2, CH3 e temperatura ambiente 22°C);
- **ΔT nucleo: 79°C** (considerando temperatura ambiente 22°C).

Altri risultati termici (a regime):

- Differenza tra fase centrale (v) e fase laterale (u): 3°C;
- Differenza tra fase centrale (v) e fase laterale (w): 4°C;
- Differenza massima nella fase centrale: 3°C;
- Differenza tra avvolgimento fase centrale e nucleo: 14°C.





FIERE INTERNAZIONALI

INTERNATIONAL FAIRS



Fiera Internazionale - SPS Italia (PARMA)
International Fair - SPS Italy (PARMA)

Siamo presenti sin dalle prime edizioni alla fiera internazionale di Dubai Middle East Energy (MEE) e SPS Italia, la Fiera Italiana dell'Automazione. Inoltre, ogni anno selezioniamo e partecipiamo ad almeno una fiera internazionale di settore come ad esempio in Russia/Germania/Francia/India/Arabia Saudita ecc..

We have been participating from the first editions to the international fairs of Middle East Energy in Dubai as well as SPS Italia, the Italian exhibition for automation. Moreover, every year we select and participate at least to one main international event of our sector in different countries, such as Russia/ Germany/ France/ India/ Kingdom of Saudi Arabia

ITALIA

ELCA TRANSFORMERS

H3.C21

SINCE 1962
2500M² AREA OF OFFICES AND PRODUCTION
99% CUSTOMER SATISFACTION
30000 SKILLED EMPLOYEES
15000 TRANSFORMERS PER MONTH
95%
20 VA TO 1000 KVA RANGE OF PRODUCTION
ALL MADE IN ITALY
100% TESTED
CERTIFICATIONS

ELCA
TRANSFORMERS
28 years of your service

SINGLE PHASE
THREE PHASE
TRANSFORMERS
AUTOTRANSFORMERS
REACTORS
CHOKES



Fiera Internazionale - MEE Middle East Energy (DUBAI)
International Fair - MEE Middle East Energy (DUBAI)

I NOSTRI PRODOTTI

OUR PRODUCTS

TRASFORMATORI / AUTOTRASFORMATORI / REATTANZE DI TIPO A SECCO E A BASSA TENSIONE
TRANSFORMERS / AUTOTRANSFORMERS / CHOKES DRY TYPE AND LOW VOLTAGE

**Trasformatori Certificati UL/CSA
file number E241443**

*UL/CSA Transformers
file number E241443*

**Trasformatori/Autotrasformatori
con sistema di isolamento
UL/CSA E255070**

*UL/CSA homologated insulation
system transformers
file number E255070*

**Trasformatori aggancio
su guida DIN IP20**

DIN Rail Transformers IP20

**Trasformatori in cassette
di protezione metalliche**

*Transformers enclosed
in protection boxes*

**Autotrasformatori e Reattanze
per avviamento motori**

*Autotransformers and reactors
for starting motors*

**Trasformatori
Trimonofase/Triesafase**

Special Transformers





Autotrasformatore da 800kVA con interruttore da 1600A

■ Autotransformer 800kVA with switch disconnect 1600A



Trasformatore trifase 1500kVA ventilazione forzata. Peso totale 2300kg

■ Three phase transformer 1500kVA with forced ventilation. Total weight 2300kg



Trasformatore trifase 125kVA in cassetta IP23 acciaio inox AISI 316

■ Three phase transformer 125kVA inside IP23 stainless steel AISI 316 metal box



Reattanza trifase 3800A per raddrizzatore 6-PULSE. Peso 2000kg

■ Three phase reactor 3800A for 6-PULSE rectifier. Total weight 2000kg



Trasformatore trifase 700kVA connessione zig-zag con interruttore 1000A
■ Three phase transformer 700kVA zig-zag connection with switch disconnector 1000A



Trasformatore trifase 50kVA 3000V $\pm 2,5\%$ / 400V connessione Dyn11
■ Three phase transformer 50kVA 3000V $\pm 2,5\%$ / 400V connection Dyn11



Trasformatore trifase 450kVA con protezioni certificate UL/CSA
■ Three phase transformer 450kVA with UL/CSA certified protections



Trasformatore monofase 500kVA. Peso 950kg
■ Single phase transformer 500kVA. Weight 950kg



Trasformatore monofase per uso elettromedicale
■ Single phase transformer for electromedical use



Trasformatori protezione IP20 classe II con aggancio su guida DIN
■ Din-rail class II transformers with protection class IP20



Trasformatore monofase certificato
■ Single phase certified transformer

UL US FILE E241443



Trasformatore trifase ingresso 600V certificato
■ Three phase certified transformer with primary 600V

UL US FILE E241443



I NOSTRI CERTIFICATI

OUR CERTIFICATES

CERTIFICATE OF COMPLIANCE

Certificate Number 20160930-E241443
Report Reference E241443-20040622
Issue Date 2016-SEPTEMBER-30

Issued to: ELETTROMECCANICA ELCA SRL
 VIA PER LEGNANO 53
 22023 CERRO MAGGIORE MI ITALY


This is to certify that representative samples of COMPONENT - TRANSFORMERS, GENERAL PURPOSE Transformers, Industrial Control, Series: TMULXXXyyyyy.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 5085-1 and CAN/CSA C22.2 No. 66.1-06, Low voltage Transformers – Part 1: General Requirements
 UL 5085-2 and CAN/CSA C22.2 No. 66.2-06, Low Voltage Transformers – Part 2: General Purpose Transformers

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark 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.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.


 Bruce Mahanholz, Director North American Certification Program
 UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/customer-service>

CERTIFICATE OF COMPLIANCE

Certificate Number 20160930-E241443
Report Reference E241443-20060728
Issue Date 2016-SEPTEMBER-30

Issued to: ELETTROMECCANICA ELCA SRL
 VIA PER LEGNANO 53
 22023 CERRO MAGGIORE MI ITALY


This is to certify that representative samples of COMPONENT - TRANSFORMERS, GENERAL PURPOSE Transformers, Industrial Control, Series: T3ULXXXyyyyy.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 5085-1 and CAN/CSA C22.2 No. 66.1-06, Low voltage Transformers – Part 1: General Requirements
 UL 5085-2 and CAN/CSA C22.2 No. 66.2-06, Low Voltage Transformers – Part 2: General Purpose Transformers

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark 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.

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Look for the UL Certification Mark on the product.


 Bruce Mahanholz, Director North American Certification Program
 UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/customer-service>

CERTIFICATE OF COMPLIANCE

Certificate Number 20191009-E255070
Report Reference E255070-20190930
Issue Date 2019-OCTOBER-09

Issued to: ELETTROMECCANICA ELCA SRL
 Via Dei Celti, 56/58
 (Zona Rescaldina)
 20023 Cerri Maggiore MI ITALY

This certificate confirms that representative samples of COMPONENT - SYSTEMS, ELECTRICAL INSULATION FTA Thermal Class 155(F) electrical insulation system designated 155 IS.

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 1446 - UL Standard for Systems of Insulating Materials - General
 CSA C22.2 No. 0-10 - General requirements — Canadian Electrical Code, Part II

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.


 Bruce Mahanholz, Director North American Certification Program
 UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/customer-service>



THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

CISQ/IMQ has issued an IQNet recognized certificate that the organization:

ELETTROMECCANICA ELCA SRL
VIA DEI CELTI 56/58 - 20023 CERRO MAGGIORE (MI)

has implemented and maintains a
Quality Management System

for the following scope:

Design and production of single and three phase transformers, autotransformers, reactances and chokes

Further clarifications regarding the applicability of ISO 9001:2015 requirements may be obtained by consulting the organization.

which fulfills the requirements of the following standard:

ISO 9001:2015

Issued on: **2019 - 07 - 17**
Expires on: **2022 - 07 - 30**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document.

Registration Number: IT - 1625



Alex Stachivaitis
President of IQNET



Ing. Claudio Prossini
President of CISQ

IQNet Partners*

LENEX Spain AFNOR Certification France AFCEB Portugal CCC China CSB Ref: CQC China CMM China CQS Czech Republic CxI-Cert Croatia DQS Holding GmbH Germany FCM Brazil FONDONORMA Florence KONTIC Colombia Inspectori Serbisani Oy Finland INTCO Costa Rica IRAM Argentina ISA Japan IFCO Korea MINTEC Greece MSET Hungary Nemko AS Norway NSAI Ireland NVCE-SEK Belgium PCPC Pakistan Quality Assurance ASQA Australia R2E Russia SRI Israel SRI Slovenia SIRM QAS International Malaysia SQS Jordanland SRIAC Romania TSTI It. Priceland Bureau TSE Turkey YUQS Serbia IQNet is registered in the USA by: AFNOR Certification, CQS, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com



CERTIFICATO N. **9101.ELM8**
CERTIFICATE N.

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
L'IMPRESA CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI

ELETTROMECCANICA ELCA SRL

VIA DOMENICHIHO 40 - 20149 MILANO (MI)

UNITÀ OPERATIVA / OPERATIVE UNIT

VIA DEI CELTI 56/58 - 20023 CERRO MAGGIORE (MI)

E' CONFORME ALLA NORMA ISO 9001:2015 IN COMPLIANCE WITH THE STANDARD

ISO 9001:2015

PER LE SEGUENTI ATTIVITÀ / FOR THE FOLLOWING ACTIVITIES

Progettazione e produzione di trasformatori, autotrasformatori, reattanze ad induttanze monocase e trifase
Design and production of single and three phase transformers, autotransformers, reactances and chokes

Further information regarding the applicability of ISO 9001:2015 (2015) general requirements can be obtained by consulting the organization.
Further clarifications regarding the applicability of ISO 9001:2015 (2015) requirements may be obtained by consulting the organization.

IL PRESENTE CERTIFICATO È SOGGETTO AL RIFERITO ISO
REQUIREMENTS PER LA CERTIFICAZIONE DEL SISTEMA DI GESTIONE
THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE
REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS

DATE	ISSUE	REVISION	ISSUE	ISSUE
1998-11-20	FIRST CERTIFICATION	2019-07-17	CURRENT ISSUE	2022-07-30

[Signature]
ING. S.E.A. ING. GUSTAVINO, 43 - 37141 MILANO (TN)
Via Giuseppe Spadolini, 10 - 37141 Milano (TN)



IMP 13

ISO 9001:2015



Page 1 of 34
Report Ref. No. ELS866180A
2017-05-10

TEST REPORT IEC 60989 Separating transformers, autotransformers, variable transformers and reactors.


Report reference No.....	ELS866180A
Date of issue.....	2017-05-10
Testing laboratory.....	TOV Italia s.r.l. – TOV SUD Group
Address.....	Via Montalenghe, 8 – 10010 Scarmagno (TO) - Italy
Testing location.....	as above
Applicant.....	ELETTROMECCANICA ELCA s.r.l.
Address.....	Via dei Celti 56/58 (Zona Rescaldina)- 20023 Cerro Maggiore (MI)
Standard.....	IEC 60 989/91
Test Report Form No.....	SIC13175.00_IEC60989 AUTOTRANSFORMERS_ELCA.DOC
TRF modified by.....	TOV Product Service GmbH
Master TRF.....	PS_INFO2-ELS.MES/REPORTS/CB
Copyright blank test report.....	This report is based on a blank test report prepared by KEMA using information obtained from the TRF originator. Copyright reserved to the bodies participating in the Committee of Certification Bodies (CCB) and/or the CENELEC Certification Agreement (CCA). This report is not valid as a CB Test Report unless appended to a CB Test Certificate issued by a NCB, in accordance with IEC/CEC 02.
Test procedure.....	IEC 60 989/91
Procedure deviation.....	---
Non-standard test method.....	---
National deviations.....	---
Number of pages (Report).....	34 pages
Number of pages (Attachments).....	---
Compiled by.....	Fabio Mauri
(+ signature)	<i>[Signature]</i>
Approved by.....	Massimiliano Mortellaro
(+ signature)	<i>[Signature]</i>

Test Report IEC 60989:1991





ELETTROMECCANICA ELCA SRL

 Via dei Celti, 56-58
20023 Cerro Maggiore (MILANO) - ITALY

 +39 0331 576.229

 +39 0331 464.635

 elca@elcasrl.it

 www.elcasrl.it

 [Elettromeccanica Elca](https://www.linkedin.com/company/elca)



KSA R-201347



FILE E255070



FILE E241443



SIC 13175.01



ISO 9001:2015