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Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material

For your convenience, the below describes the related updates:

For revised/new documentation, please reference 2023-07-03 in the page headings.

Volume(s) 1 Section(s) 1 were added.

E535045-Vol1-AuthorizationPage
E535045-vol1-RecCompMarkData
E535045-vol1-Index
E535045-vol1-SectionGeneral
E535045-20230703-CertificateofCompliance
E535045-20230703-Description
E535045-20230703-TestRecord

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Times change, Trust Remains™



FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

SYSTEMS, ELECTRICAL INSULATION - COMPONENT
(OBJY2, OBJY8)

Manufacturer:	SEE ADDENDUM FOR MANUFACTURER LOCATIONS
Applicant:	3198524 (Party Site) CPTRADE S.R.L. Via Lussemburgo 71 Vicenza VI 36100 IT
Recognized Company:	3198524 (Party Site) SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Recognized Company to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

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Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following website: <https://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <https://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Recognized Company in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s), and any Recognized Company will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <https://www.ul.com/resources/contracts/follow-up-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding

that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body. The certification body's accreditation status for the applicable certification scheme and identification of the accreditation body can be found at <https://www.ul.com/resources/accreditation>.

Deborah Jennings-Conner
VP Regulatory Services
UL LLC

LOCATION

3335282 (Party Site)
Factory ID: F05
UL Contracting Party for above site is: UL GmbH

3335288 (Party Site)
Factory ID: F15
UL Contracting Party for above site is: UL GmbH

Recognized Component Marking Data Page (RCMDP)

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

RECOGNIZED COMPONENT MARKING

Products Recognized under UL's Component Recognition Service are identified by marking elements consisting of:

1. The Recognized Company's identification specified in this document.
2. A catalog, model or other applicable product designation specified in the descriptive sections of this document.
3. The UL Recognized Component Mark shown below is optional unless required elsewhere in the Procedure.

Only those components, which actually bear the Marking, should be considered as being covered under the Recognition Program. The UL Listing or Classification Mark is not authorized for use on or in connection with Recognized Components.

Recognized Component Mark



Minimum size of the Recognized Component Mark is not specified as long as it is legible. Minimum height of the registered symbol ® shall be 3/64 inch but may be omitted if it is out of proportion to the Recognized Component Mark or not legible to the naked eye.

The manufacturer may reproduce the Mark electronically. Any decision regarding the acceptability of the manufacturer's Mark reproduction will be made at the Reviewing Office.

Recognized Component Marking Data Page (RCMDP)

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

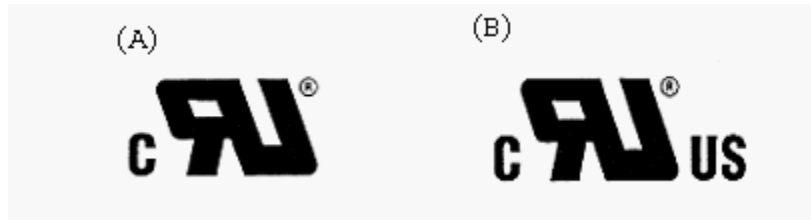
RECOGNIZED COMPONENT MARKING

Products Recognized under UL's Component Recognition Service are identified by marking elements consisting of:

1. The Recognized Company's identification specified in this document.
2. A catalog, model or other applicable product designation specified in the descriptive sections of this document.
3. The UL Recognized Component Mark shown below:
 - (A) Recognized only to Canadian safety requirements, or;
 - (B) Recognized to both U.S. and Canadian safety requirements.

Only those components, which actually bear the Marking, should be considered as being covered under the Recognition Program. The UL Listing or Classification Mark is not authorized for use on or in connection with Recognized Components.

Recognized Component Mark



Minimum size of the Recognized Component Mark is not specified as long as it is legible. Minimum height of the registered symbol ® shall be 3/64 inch but may be omitted if it is out of proportion to the Recognized Component Mark or not legible to the naked eye.

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INDEX

<u>System Designation</u>	<u>Section</u>	<u>Report Date</u>	<u>Temperature Class</u>
CPT-UL1553	1	2023-07-03	155 (F)

GENERAL

PRODUCT COVERED:

Component - Systems, electrical insulation.

FACTORY LOCATION AND IDENTIFICATION:

The factory identification code, if applicable, is noted in the Addendum to the Authorization Page and is to be marked on the frame, coil, or core.

TRADEMARK DESIGNATION:

No trademark or trade name may be used to identify products Recognized in this Procedure in lieu of the company name.

MARKING:

Recognized Company name, "Private Label" name (if authorized by Multiple Recognition Correlation Sheets), or trademark or trade name (if authorized above), factory location if produced at more than one location (see above) and system designation on frame, coil, or core. Additionally those insulation systems Recognized in accordance with the Canadian National Standard, as indicated under "Product Covered" in the applicable Section of the Procedure, must also be marked with the Recognized Component Mark for Canada



The above marking requirement does not apply if the insulation system is to be used in the manufacturer's Recognized or Listed end-product, with both the system and end-product available for examination at the same time and same place and the end-product certification is contingent upon the insulation system being constructed correctly.

DEFINITIONS:

Potting Compound - A molded insulation which completely encases the insulation system and which itself is surrounded by a metal or molded plastic case or potting shell into which the compound was added before hardening.

Encapsulant - A molded insulation, which completely encases the insulation system but does not have a supplementary surrounding case.

Layer Insulation - The insulation, which is interleaved between successive layers of an insulated conductor in the same, winding.

Phase Insulation - The insulation, which is placed between the windings of a multiphase device.

Lead Wires - The insulated wires attached to the ends of a winding for the purpose of connecting the device to a circuit.

Varnish - Resin used to impregnate the windings of the coil.

Overcoat Varnish - Varnish or paint typically sprayed or otherwise applied only onto the outer surface of the coil.

GENERAL GUIDELINES FOR FIELD REPRESENTATIVES:

The following guidelines explain how the individual components contained in these Recognized insulation systems may be used.

1. Motor, transformer or coil constructions produced using a Recognized insulation system are limited to the materials documented for that system. If the system in question has more than one table, the construction is limited to the materials from only one table and may not incorporate materials from any other tables.
2. In the product description of some systems one or more material functions may be designated "Optional", indicating that the function is not required to appear in every design. Requirements in a UL end product Standard, however, may take precedence over this indication, making an optional function mandatory.

Note - Product descriptions written in an earlier format may not identify optional functions as such.

3. If more than one material is specified for a non-optional function, at least one of the materials must be used. If thickness is specified for these non-optional materials, the material chosen must be used in at least the minimum thickness specified.
4. A potting compound may be used in place of the varnish only if:
 - A. The varnish is designated "Optional" or,
 - B. The potting compound is the same material as the varnish, i.e., same manufacturer and same designation.
5. Ground insulation, in at least the minimum thickness specified, must always be used between the windings and the magnetic core or any other grounded or dead metal of the device. Ground insulation for motors is often referred to as slot insulation. Materials not listed under ground and interwinding insulation may not be used for these functions even if listed elsewhere in the system description.
6. Unless otherwise indicated in the end-product file, Interwinding insulation, in the minimum thickness specified, must always be used between any two isolated windings in a transformer, with the exception that it is not required between the series-parallel winding of multivoltage devices. Materials not listed under ground and interwinding insulation may not be used for these functions even if listed elsewhere in the system description.

7. Core tubes or bobbins designated "Mechanical Support Only" are not to be substituted for ground insulation and must be covered with one of the specified ground insulation materials in the proper minimum thickness.
8. Window insulation in a transformer construction or major outer wrap for coil constructions is used to insulate the open end or outer surface of the windings from the grounded metal. This insulation is considered "Optional" if an air gap of at least 1/32 in. exists between the window insulation and grounded metal. If no such air gap exists, the window insulation is serving in the capacity of ground insulation and a proper ground insulation material, in the proper thickness, must be used.
9. Magnet wire may be of aluminum or copper as specified in the Construction Details of each Report. When verifying the ANSI MW type, this type number may be followed by a Suffix -A or -C indicating aluminum or copper respectively.
10. If the insulation of the lead wire enters the confines of the winding or the outer wrap of the winding, the wire is considered part of the insulation system and should be specified in the construction details. If the insulation on these wires terminates prior to entering the winding or outer wrap, this wire is not considered part of the insulation system. Lead wires may not be used for filament winding applications unless specifically stated. See Item 11 below.

All lead wires must either be Recognized Component Appliance Wiring Materials (AWM) (AVLV2), Listed fixture wire (ZIPR) or Listed flexible cords (ZJCZ) with the insulation thickness and voltage ratings required in the end product application.

11. Filament windings may be made from the same type of wire used as lead wires except these wires are used to construct a winding. The material used as a filament winding must appear in the insulation system under the non-optional functions of "Magnet Wire Insulation" or "Filament Windings".
12. The use of any thermal protector such as thermal fuse or thermal cut-off is considered acceptable in any insulation system and need not be documented.
13. Overcoat varnishes are to be applied only to the outer surface of the coils and are not to be applied in such a way as to allow the overcoat varnish to penetrate into the coil. Typically these overcoats are sprayed onto the coil. If the coil has already been impregnated with a "varnish" then the dipping of the coil into the overcoat varnish is acceptable.

14. "Litz" wires are multiple magnet wires bundled together for use typically when winding high frequency transformers. These wires sometimes employ an outer wrap or core other than just another strand of wire (e.g. Dacron, fiberglass, aramid fiber etc.). If such wires are to be used as Magnet Wire in a given system, the Litz wire(s) being used is(are) required to be Recognized Component - Magnet Wires (OBMW2) and called out specifically in the construction details of that system.
15. Any material or component mounted on the outside of the motor, coil or transformer such that the material or component does not touch the windings or enter the confines of the outer wrap, is not considered part of the insulation system and need not be tabulated in the system description.
16. Off-site molding of those bobbins to be used as ground or interwinding insulation shall be performed by molders Recognized under the Fabricated Parts (QMMY2) category; and Bobbins to be used as ground or interwinding insulation that are molded at the winding facility shall comply with the requirements outlined in the Standard for Polymeric Materials - Fabricated Parts, UL 746D, with the exception of the marking requirements.
17. Tapes listed under the "Tape" insulation function may not be used as ground or interwinding insulation unless listed separately under the "Ground and Interwinding Insulation" function.
18. The use of metal foil or metal foil tape in an insulation system additionally requires the use of a suitable ground insulation from that system between the metal foil and all windings.

CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2324664-0
Report Reference E535045-20230703
Date 4-Jul-2023

Issued to: CPTRADE S.R.L.
Via Lussemburgo 71
Vicenza, VI 36100
Italy

This is to certify that representative samples of OBJY8 - Systems, Electrical Insulation Certified for Canada - Component
See Addendum Page for Product Designation(s).

Have been evaluated 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: ANSI/CAN/UL 1446:2020, 8th Ed., Issue Date: 2019-11-13, Revision Date: 2020-11-19

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

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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.


Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2324664-0
Report Reference E535045-20230703
Date 4-Jul-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
CPT-UL1553	Class 155(F) Electrical Insulation Systems

Deborah Jennings-Conner
Deborah Jennings-Conner, VP Regulatory Services



UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2328749-0
Report Reference E535045-20230703
Date 4-Jul-2023

Issued to: CPTRADE S.R.L.
Via Lussemburgo 71
Vicenza, VI 36100
Italy

This is to certify that representative samples of OBJY2 - Systems, Electrical Insulation - Component
See Addendum Page for Product Designation(s).

Have been evaluated 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: ANSI/CAN/UL 1446:2020, 8th Ed., Issue Date: 2019-11-13, Revision Date: 2020-11-19

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

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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Deborah Jennings-Conner, VP Regulatory Services

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CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-2328749-0
Report Reference E535045-20230703
Date 4-Jul-2023

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
CPT-UL1553	Class 155(F) Electrical Insulation Systems


Deborah Jennings-Conner, VP Regulatory Services



UL LLC

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File E535045
Project 4790885066

July 3, 2023

REPORT

On

COMPONENT - SYSTEMS, ELECTRICAL INSULATION

CPTRADE S.R.L.
Vicenza, VI, 36100, IT

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DESCRIPTION

PRODUCT COVERED:

Component - Systems, Electrical Insulation.

USR, CNR - FTA Thermal Class 155 (F) electrical insulation system designated CPT-UL1553.

FTA denotes Full Thermal Aging.

GENERAL CHARACTER:

The insulation system covered by this Report has been evaluated for thermal classification and subjected to the Full Thermal Aging (FTA) program and is intended for use in transformer motor or coil constructions where the operational designed service life may be greater than 5000 hours.

RATINGS:

System Designation	FTA Thermal Class	Maximum Hot Spot Temperature	Indoor	Outdoor (Enclosed)
CPT-UL1553	155 (F)	155°C	Yes	Yes

The insulation system has been evaluated for connection to the low voltage side of the distribution network where transient overvoltages and partial discharge are not likely to contribute to the degradation of the insulation system. This use is consistent with systems extending from the service point or source of power.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

See the Section General - GENERAL GUIDELINES FOR FIELD REPRESENTATIVE for guidelines explaining the individual components contained in these Recognized insulation systems.

Conditions of Acceptability:

Use - For use only in products where the acceptability of the combination is determined by UL LLC.

Unless specified otherwise, consideration is to be given to the following when these components are employed in the end-use equipment:

1. End-product constructional details and test performance are not covered by this report.
2. An individual system component listed in the electrical insulation system has not been evaluated to determine if it will perform suitably a) in a different electrical insulation system, or b) as an isolated insulating material used as a physical or electrical barrier.
3. An end use product construction requiring the use of an electrical insulation system is limited to the system materials documented in this report. If the electrical insulation system report has more than one table, the end use product construction is limited to the system materials from only one table and may not use materials from any other tables.
4. The thermal classification of the electrical insulation system does not establish thermal ratings for/or alter established thermal ratings for any of the individual components used in the electrical insulation system.
5. Special chemical or environmental exposures, such as refrigerants, oils, soaps, x-rays, ultraviolet light, etc., have not been evaluated.
6. The acceptability of construction features of the end use assemblies produced with the electrical insulation system, such as spacings, insulation thicknesses and voltage rating of lead wire insulation (if applicable), etc., shall be determined in the end-use application.

CONSTRUCTION DETAILS:

TABLE I
CLASS 155 (F) ELECTRICAL INSULATION SYSTEM DESIGNATED CPT-UL1553

With the exception of any deviations indicated below the Construction Details of the OBJY2/8 insulation system covered by this Report are identical to that of an OBJS2 insulation system cross referenced in the table below.

OBJY2/8 Insulation System covered by this Report	OBJS2 Insulation System Found on the Internet			
	Recognized Company	File Number	OBJS2 System Designation	Table
CPT-UL1553	ELANTAS Europe S.r.l.	E171185	155-3	I

The manufacturer is to use the Internet on behalf of UL's Field Representative to obtain the current Construction Details for this OBJS2 system. This information is stored in the UL iQ for Insulation Systems database, which can be accessed by logging into either [myUL®](#) or via [UL iQ™](#) and select Elec. Insulation Systems.

Except for technical problems beyond the Manufacturer's control (site/phone problems, network problems, power outages, etc.) if the Internet cannot be accessed for this inspection, a Variation Notice is to be written.

CONSTRUCTION DETAILS:

TABLE II
CLASS 155 (F) ELECTRICAL INSULATION SYSTEM DESIGNATED CPT-UL1553

With the exception of any deviations indicated below the Construction Details of the OBJY2/8 insulation system covered by this Report are identical to that of an OBJS2 insulation system cross referenced in the table below.

OBJY2/8 Insulation System covered by this Report	OBJS2 Insulation System Found on the Internet			
	Recognized Company	File Number	OBJS2 System Designation	Table
CPT-UL1553	ELANTAS Europe S.r.l.	E171185	155-3	V

The manufacturer is to use the Internet on behalf of UL's Field Representative to obtain the current Construction Details for this OBJS2 system. This information is stored in the UL iQ for Insulation Systems database, which can be accessed by logging into either [myUL®](#) or via [UL iQ™](#) and select Elec. Insulation Systems.

Except for technical problems beyond the Manufacturer's control (site/phone problems, network problems, power outages, etc.) if the Internet cannot be accessed for this inspection, a Variation Notice is to be written.

TEST RECORD NO. 1

GENERAL:

Test results relate only to the items tested.

No tests were considered necessary to extend Component coverage to the Class 155 (F) electrical insulation system designated CPT-UL1553 since this insulation system is an adopted copy of the previously evaluated and Recognized insulation system indicated below:

Insulation System covered by this Report		Previously Evaluated Reference System		Reference File	Reference Report Date
CPT-UL1553	Table I	155-3	Table I	E171185	2007-10-01
CPT-UL1553	Table II	155-3	Table V	E171185	2007-10-01

See Supplement I11. No. 1 for authorization to adopt the system.

The above insulation system has previously been tested and found to comply with the requirements of the Standard for Systems of Insulating Materials - General, ANSI/CAN/UL 1446:2020, in effect as of the date of this Test Record.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in

Standard No.	Edition No.	Latest Revision Date
ANSI/CAN/UL 1446:2020, SYSTEMS OF INSULATING MATERIALS - GENERAL	8 th	2020-11-19

and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

CONCLUSION

Samples of the component covered by this Report have been found to comply with the requirements covering the category and the component is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify the product(s) described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Recognized Marking on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of UL LLC. The Recognized Component Mark of UL LLC on the product, or the Recognized Marking symbol on the product and the Recognized Component Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Recognition and Follow-Up Service.

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