BS EN 62683:2015

BSI Standards Publication

Low-voltage switchgear and controlgear — Product data and properties for information exchange

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National foreword

This British Standard is the UK implementation of EN 62683:2015. It is identical to IEC 62683:2015. It supersedes BS EN 62683:2013 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee PEL/121, Switchgear and Controlgear and their assemblies for low voltage, to Subcommittee PEL/121/1, Low voltage switchgear and controlgear.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

Low-voltage switchgear and controlgear - Product data and properties for information exchange (IEC 62683:2015)

Appareillage à basse tension - Données et propriétés de produits pour l'échange d'informations (IEC 62683:2015)

Niederspannungsschaltgeräte - Produktdaten und -eigenschaften für den Informationsaustausch (IEC 62683:2015)

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European foreword

The text of document 121A/47/FDIS, future edition 2 of IEC 62683, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62683:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-07-02
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-10-02

This document supersedes EN 62683:2013.

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Endorsement notice

The text of the International Standard IEC 62683:2015 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60127-1	NOTE	Harmonized as EN 60127-1.
IEC 60715	NOTE	Harmonized as EN 60715.
IEC 60947-2:2006	NOTE	Harmonized as EN 60947-2:2006 (not modified).
IEC 60947-3	NOTE	Harmonized as EN 60947-3.
IEC 60947-4-1:2009 and A1:2012	NOTE	Harmonized as EN 60947-4-1:2010 (not modified) and as EN 60947-4-1:2010/A1:2012 (not modified).
IEC 60947-4-2:2011	NOTE	Harmonized as EN 60947-4-2:2012 (not modified).
IEC 60947-4-3	NOTE	Harmonized as EN 60947-4-3.
IEC 60947-5-1:2003	NOTE	Harmonized as EN 60947-5-1:2004 (not modified).
IEC 60947-5-2:2007	NOTE	Harmonized as EN 60947-5-2:2007 (not modified).
IEC 60947-5-4	NOTE	Harmonized as EN 60947-5-4.

IEC 60947-6-1:2005	NOTE	Harmonized as EN 60947-6-1:2005 (not modified).
IEC 60947-6-2	NOTE	Harmonized as EN 60947-6-2.
IEC 60947-7-1:2009	NOTE	Harmonized as EN 60947-7-1:2009 (not modified).
IEC 60947-7-2:2009	NOTE	Harmonized as EN 60947-7-2:2009 (not modified).
IEC 60947-7-3:2009	NOTE	Harmonized as EN 60947-7-3:2009 (not modified).
IEC 60947-8	NOTE	Harmonized as EN 60947-8.
IEC 60999-1:1999	NOTE	Harmonized as EN 60999-1:2000 (not modified).
IEC 61058-1:2000	NOTE	Harmonized as EN 61058-1:2002 (modified).
IEC 61095	NOTE	Harmonized as EN 61095.
IEC 61140:2001	NOTE	Harmonized as EN 61140:2002 (not modified).
IEC 61672-1:2013	NOTE	Harmonized as EN 61672-1:2013 (not modified).
IEC 61987-10	NOTE	Harmonized as EN 61987-10.
IEC 62262:2002	NOTE	Harmonized as EN 62262:2002 (not modified).
IEC 82079-1:2012	NOTE	Harmonized as EN 82079-1:2012 (not modified).
ISO 13850:2006	NOTE	Harmonized as EN ISO 13850:2008 (not modified).
ISO 14025	NOTE	Harmonized as EN ISO 14025.

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
-	-		+ corrigendum May	1993
IEC 60947-1	2007	Low-voltage switchgear and controlgear - Part 1: General rules	EN 60947-1	2007
+ A1	2010		+ A1	2011
+ A2	2014		+ A2	2014
IEC 61360-1	-	Standard data elements types with associated classification scheme for electric items - Part 1: Definitions - Principles and methods	EN 61360-1	-

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR – PRODUCT DATA AND PROPERTIES FOR INFORMATION EXCHANGE

FOREWORD

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International Standard IEC 62683 has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of the IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

This second edition cancels and replaces the first edition published in 2013. This edition constitutes a technical revision.

This present edition includes the following significant technical changes with respect to the first edition:

a) new descriptions of 41 classes for the families of circuit-breakers and their associated devices (ACC2xx), switches and disconnectors (ACC3xx), control switches (ACC5xx) and terminal blocks (ACC7xx) in addition to 14 classes for motor-starters of the first edition;
b) new associated properties and value lists necessary for the new classes;
c) three new blocks of properties: ACC017 Head of the control circuit device, ACC018 Light block of the control circuit device and ACC041 Over-current release;

d) use of LEVEL_TYPE for replacing minimum and maximum properties into a single property with two values.

The text of this standard is based on the following documents:

FDIS	Report on voting
121A/47/FDIS	121A/53/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

Mainly large customers and wholesalers are requesting standardized product descriptions and product properties from product manufacturers. However, all stakeholders will benefit from this standardised presentation and data exchange.

Multiple associations or groups of actors launched different initiatives to try to respond to this demand but, due to the lack of standardisation of classes and properties, the situation is not satisfactory neither for customers nor for manufacturers.

In order to keep the lead of product description, IEC proposes a new consistent solution within its product standards.

The purpose of this International Standard is to:

- define device classes and properties for low-voltage switchgear and controlgear in a dedicated standard,
- provide a basis for introduction of the low-voltage switchgear and controlgear classes and properties into the IEC 61360 database maintained by IEC/SC3D (see http://std.iec.ch/iec61360).

This standard is not intended to establish a hierarchy of product classes called classification.

The intended benefits of this standard are to:

- reduce the time and efforts of mapping data for each customer request;
- optimize the workflow of B2B exchanges;
- minimize duplication of articles in customer inventories and in databases;
- minimize losses and misinterpretation of data during exchanges;
- facilitate the selection of a product, especially regarding reliability and safety;
- give access to product data everywhere regardless of country, language and culture;
- provide product data related to environmental aspects such as material declaration;
- contribute to the fast growth of the e-business by simplifying the development of:
  - e-Catalogue allowing the differentiation of products performances, certifications and approvals, etc;
  - e-commerce: use of electronic networks to exchange information, products, services and payments for commercial and communication purposes between individuals (consumers) and businesses, between businesses themselves.

The output of this standard consists of:

- reference dictionary of low-voltage switchgear and controlgear using existing terms from IEC standards. However, terminology used in e-business may be relevant for the purpose of naming classes in this standard to get a high level of acceptance;
- properties for e-commerce purposes, conformity of properties with product standards being the main goal of this standard.

NOTE The classes "under consideration" are for information only and are intended to be completed during the next maintenance cycle.

For this project, the introduction of low-voltage switchgear and controlgear within the IEC 61360 database needs to address the following technical aspect:

- IEC 61360 requires mandatory attributes. The complete set of mandatory attributes with additional relevant attributes for low-voltage switchgear and controlgear will be available within the IEC 61360 database. At the development stage, the CDD 62683 database is

available at the following address: http://std.iec.ch/cdd/iec62683/cdddev.nsf/Welcome?OpenPage . Within the present document, only the most useful attributes will be presented;

- The switchgear and controlgear data model is implemented in an appropriate domain of the IEC Component Data Dictionary (CDD), IEC 61360, by creating dictionaries of blocks, classes and properties.

LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR – PRODUCT DATA AND PROPERTIES FOR INFORMATION EXCHANGE

1 Scope

This International Standard establishes the reference dictionary of the general description of low-voltage switchgear and controlgear classes based on defined properties.

This dictionary is used to facilitate the exchange in electronic format of data describing low-voltage switchgear and controlgear.

This standard provides clear and unambiguous definitions of a limited number of properties and classes which are mainly used for presentation, selection and identification of products particularly in electronic catalogues.

Each property has an unambiguously defined meaning and naming, and where relevant, a defined value list, a defined format and a defined unit.

The intention is not to cover manufacturer specific features.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60947-1:2007, *Low-voltage switchgear and controlgear – Part 1: General rules*
IEC 60947-1:2007/AMD1:2010
IEC 60947-1:2007/AMD2:2014

IEC 61360-1, *Standard data element types with associated classification scheme for electric items – Part 1: Definitions – Principles and methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions of IEC 60947-1, as well as the following terms and definitions apply.

3.1
attribute
data element for description of a property, a relation or a device class

EXAMPLE The name of a property, the code of a class, the measure unit of a property.

3.2
block (of properties)
collection of properties describing one common aspect of the device class

EXAMPLE Diagnostic functions, control circuit.

Note 1 to entry: A block is a feature class in the sense of IEC 61360-1 and ISO 13584-42.

3.3
cardinality
pattern defining the number of times a concept reoccurs within a description

Note 1 to entry: Cardinality allows a block of properties contained in a list of properties to be used more than once for a particular transaction in order to describe, for example, a device with several different outputs or more than one process cases.

Note 2 to entry: Cardinality is defined by IEC 61987-10.

3.4
device
material element or assembly of such elements intended to perform a required function

Note 1 to entry: In this standard, a device corresponds to a low-voltage switchgear and controlgear.

[SOURCE: IEC 60050-151:2001, 151-11-20, modified – replacement of the note]

3.5
device class
set of properties which gives a description of a device

3.6
polymorphism
pattern that allows substitution of a single concept in the same context by a different more specific (specialized) concept

Note 1 to entry: A specialised polymorphic block of properties can replace a more generic one in the same context. A polymorphic operator (control property) can act in selecting between of various specialisations.

Note 2 to entry: Polymorphism is defined by IEC 61987-10.

3.7
property
defined parameter suitable for the description and differentiation of device class specific characteristic describing an aspect of device class

4 General

The attributes shall follow IEC 61360-1.

Based on IEC 61360-1 data model, the structured data called cardinality and polymorphism may be used.

5 Properties

5.1 Criteria for naming properties

In order to maintain consistency and clarity in the naming of properties, terms from product standards shall be used when there available.

Synonymous names may be associated with the property name when well established terms are used on the market.

5.2 Attributes of a property

The following attributes of a property are considered in this standard:

– identifier;
– preferred name;
– definition;
– source document;
– data type;
– unit of measure;
– value format;
– value list.

6 Block of properties

Each property within a block shall describe one common aspect covered by the definition of this block.

The list of blocks of properties is defined in Table 1.

Table 1 – Library of blocks used in the device classes of low-voltage switchgear

Block name	Definition	Source	Class ID
Identification	information necessary for unambiguous identification of the device		ACC011
General technical data	general technical aspects of the device		ACC012
Diagnostic functions	ability to analyse a situation corresponding to a predefined set of parameters		ACC013
Main circuit (of a switching device)	all the conductive parts of a switching device included in the circuit which it is designed to close or open	IEC 60050-441: 1984, 441-15-02	ACC014
Input / Output circuit	circuit used to receive or to send signals or data		ACC015
Control and auxiliary circuits	all the conductive parts of a switching device which are intended to be included in a circuit other than the main circuit of the device		ACC016
Head of the control circuit device	part of a device which contains and support the actuator or contains the lens of an indicator light, fixed on an enclosure or on the body of the device		ACC017
Light block of the control circuit device	part of a device which contains and support the lamp, fixed on an enclosure or on the body of the device		ACC018
Short-circuit	accidental or intentional conductive path between two or more conductive parts forcing the electric potential differences between these conductive parts to be equal to or close to zero	IEC 60050-151: 2001, 151-12-04	ACC040
Over-current release	release which causes a mechanical switching device to open when the current in the release exceeds a predetermined value	2.4.25 of IEC 60947-1: 2007 modified	ACC041
Data communication	communication function for the transfer of information between the device and the system		ACC050
Installation, mounting and dimensions	physical information of the device for installation		ACC066
Connection facilities	terminals, screws or other parts, used for the electrical connection of conductors of external circuits	IEC 60050-426: 2008, 426-04-25	ACC068
Product certificates and standards	conformity of a device with specified requirements and compliance with recognised product standards		ACC070

7 Device classes

7.1 Device class attributes

The attributes of the device class shall follow IEC 61360-1.

The following attributes of a device class are considered in this standard:

– identifier,
– preferred name,
– definition,
– synonymous name, and
– source document.

NOTE The synonymous names are limited to those necessary to avoid confusion when selecting a device class.

7.2 Classification of low-voltage switchgear and controlgear

Table 2 gives the classification of low-voltage switchgear and controlgear domain based on the corresponding product standards. The class name column is structured in four levels of hierarchy using indent alignments.

Table 2 – Low-voltage switchgear and controlgear classification

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
LV switchgear and controlgear domain		domain covering switching devices and their combination with associated control, measuring, protective and regulating equipment, also assemblies of such devices and equipment with associated interconnections, accessories, enclosures and supporting structures	2.1.1 of IEC 60947-1:2007 modified	ACC001	
LV switchgear and controlgear classes		set of switching devices and their combination with associated control, measuring, protective and regulating equipment, also assemblies of such devices and equipment with associated interconnections, accessories, enclosures and supporting structures	2.1.1 of IEC 60947-1:2007 modified	ACC100	
Circuit-breaker classes		set of circuit-breakers, their releases and accessories		ACC200	
Circuit-breaker	Moulded case circuit breaker, Air circuit breaker	mechanical switching device, capable of making, carrying and breaking currents under normal circuit conditions and also making, carrying for a specified time and breaking currents under specified abnormal circuit conditions such as those of short-circuit	IEC 60050-441:1984, 441-14-20	ACC201	7.3.2
Release for circuit-breaker	Trip unit	unit connected to a circuit-breaker which initiates action that causes the protected circuit to be switched off when a preset threshold is exceeded		ACC202	7.3.3

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Residual current release for circuit-breaker	Earth leakage module	unit connected to a circuit-breaker which concurrently performs residual current detection, compares such measurements with a preset value and initiates action that causes the protected circuit to be switched off when this value is exceeded		ACC203	7.3.4
Shunt release for circuit-breaker	Shunt trip	release energized by a source of voltage	IEC 60050-441:1984, 441-16-41 modified	ACC204	7.3.5
Under-voltage release for circuit-breaker	Under-voltage trip	release which permits a circuit-breaker to open with or without time-delay, when the voltage across the terminals of the release falls below a predetermined value		ACC205	7.3.6
Motor-operator for circuit-breaker		dependent power operator capable of closing and opening the circuit-breaker		ACC206	7.3.7
Switch classes		set of mechanical switching device capable of making, carrying and breaking currents under normal circuit conditions which may include specified operating overload conditions and also carrying for a specified time currents under specified abnormal circuit conditions such as those of short-circuit	IEC 60050-441:1984, 441-14-10 modified	ACC300	
Switch-disconnector		switch which, in the open position, satisfies the isolating requirements specified for a disconnector	IEC 60050-441:1984, 441-14-12	ACC301	7.3.8
Switch-disconnector-fuse		switch-disconnector in which one or more poles have a fuse in series in a composite unit	IEC 60050-441:1984, 441-14-16	ACC302	7.3.9
Fuse-switch-disconnector		switch-disconnector in which a fuse-link or a fuse-carrier with fuse-link forms the moving contact	IEC 60050-441:1984, 441-14-19	ACC303	7.3.10
Contactors, starters and similar equipment classes		set of devices including: – contactors – motor-starters – motor protective devices NOTE See IEC 60947-4 series.		ACC400	
Motor protection circuit-breaker		circuit-breaker providing overload protection to the motor and the circuit NOTE See IEC 60947-4 series.		ACC401	7.3.11
Motor management device		electronic overload relay for motor, including extended functions with communication ability	derived from 3.4.31 of IEC 60947-4-1:2009/AMD1:2012	ACC402	7.3.12
Motor management device, extension module		module providing at least one extended function to a motor management device		ACC403	7.3.13

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Motor management device, operator panel		human machine interface dedicated to a motor management device		ACC404	7.3.14
Motor-starter combination	Protected starter, Combination starter	equipment consisting of a starter, a manually-operated switching device and a short-circuit protective device, which may or may not incorporate an isolating function NOTE See also IEC 60947-6-2.	derived from 3.4.8 of IEC 60947-4-1:2009	ACC405	7.3.15
Motor-starter	Starter	combination of all the switching means necessary to start and stop a motor in combination with suitable overload protection	IEC 60050-441:1984, 441-14-38 modified	ACC415	7.3.16
AC semiconductor motor controller	Soft-starter	semiconductor switching device that provides the starting function for an a.c. motor and an OFF-state NOTE 1 Because dangerous levels of leakage currents can exist in a semiconductor motor controller in the OFFstate, the load terminals should be considered as live parts at all times. NOTE 2 In a circuit where the current passes through zero (alternately or otherwise), the effect of "not making" the current following such a zero value is equivalent to breaking the current.	3.3.2 of IEC 60947-4-2:2011	ACC406	7.3.17
Power contactor, a.c. switching		mechanical switching device having only one position of rest, operated otherwise than by hand, capable of making, carrying and breaking a.c. currents under normal circuit conditions including operating overload conditions NOTE See IEC 60947-4-1.		ACC407	7.3.18
Capacitor contactor		contactor used to switch capacitor load NOTE See IEC 60947-4-1.		ACC408	7.3.19
Combination of contactors	Star-delta contactors, Reversing contactors	arrangement of several contactors for star-delta, reversing or two-step motor switching NOTE See IEC 60947-4-1.		ACC409	7.3.20
Power contactor, d.c. switching		mechanical switching device having only one position of rest, operated otherwise than by hand, capable of making, carrying and breaking d.c. currents under normal circuit conditions including operating overload conditions NOTE See IEC 60947-4-1.		ACC410	7.3.21

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Thermal overload relay		inverse time-delay overload relay depending for its operation (including its time-delay) on the thermal action of the current flowing in the relay NOTE See IEC 60947-4-1.	2.4.31 of IEC 60947-1:2007	ACC411	7.3.22
Electronic overload relay		inverse time-delay overload relay depending for its operation (including its time-delay) on the electronic thermal model of the current flowing in the relay NOTE See IEC 60947-4-1.		ACC412	7.3.23
Relay for thermistor protection (PTC)	Control unit for built-in thermal protection (PTC) for rotating electrical machines	device which controls a switching function using the variation of the characteristic of a thermal detector made by a PTC thermistor NOTE See IEC 60947-8.		ACC413	7.3.24
Electromechanical contactor for household and similar purposes		electromechanical air break contactor for household and similar purposes provided with main contacts intended to be connected to circuits the rated voltage of which does not exceed 440 V a.c. (between phases) with rated operational currents less than or equal to 63 A for utilization category AC-7a and 32 A for utilization categories AC-7b and AC-7c, and rated conditional short-circuit current less than or equal to 6 kA. NOTE See IEC 61095.		ACC414	7.3.25
Control switch classes		set of mechanical switching device which serves the purpose of controlling the operation of switchgear or controlgear, including signalling, electrical interlocking, etc.	IEC 60050-441:1984, 441-14-46 modified	ACC500	
Inductive proximity switch		proximity switch producing an electromagnetic field within a sensing zone and having a semiconductor switching element	2.1.1.1 of IEC 60947-5-2:2007	ACC501	7.3.26
Capacitive proximity switch		proximity switch producing an electric field within a sensing zone and having a semiconductor switching element	2.1.1.2 of IEC 60947-5-2:2007	ACC502	7.3.27
Non-mechanical magnetic proximity switch		proximity switch which senses the presence of a magnetic field and has a semiconductor switching element and no moving parts in the sensing element	2.1.1.5 of IEC 60947-5-2:2007	ACC503	7.3.28
Ultrasonic proximity switch		proximity switch transmitting and receiving ultrasound waves within a sensing zone and having a semiconductor switching element	2.1.1.3 of IEC 60947-5-2:2007	ACC504	7.3.29
Through beam photoelectric proximity switch	Photoelectric proximity switch type T	photoelectric proximity switch which is indirectly operated through lateral approach of its reference axis between emitter and receiver by a defined object	2.1.1.4.3 of IEC 60947-5-2:2007 modified	ACC505	7.3.30

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Retroreflective photoelectric proximity switch	Photoelectric proximity switch type R	photoelectric proximity switch which is indirectly operated through lateral approach to its reference axis between emitter-receiver and reflector by a defined object	2.1.1.4.2 of IEC 60947-5-2:2007 modified	ACC506	7.3.31
Diffuse reflective photoelectric proximity switch	Photoelectric proximity switch type D	photoelectric proximity switch which is directly operated through lateral or axial approach to its reference axis by a defined object	2.1.1.4.1 of IEC 60947-5-2:2007 modified	ACC507	7.3.32
Diffuse reflective photoelectric proximity switch with background suppression	Photoelectric proximity switch type D with background suppression	photoelectric proximity switch with adjustment of usable operating distance, which is directly operated through lateral or axial approach to its reference axis by a defined object NOTE See IEC 60947-5-2.		ACC508	7.3.33
Auxiliary contact block	Contact unit	a contact element or contact element combination which can be combined with similar units operated by a common actuating system of a power switching device	2.3.3.10 of IEC 60947-5-1: 2003 modified	ACC509	7.3.34
Contactor relay	Auxiliary contactor	contactor used as a control switch	IEC 60050-441:1984, 441-14-35	ACC510	7.3.35
Position switch	Limit switch	pilot switch, the actuating system of which is operated by a moving part of a machine, when this part reaches a predetermined position	IEC 60050-441:1984, 441-14-49	ACC511	7.3.36
Rotary limit switch	Screw limit switch	a positive opening pilot switch, the actuating member of which is a shaft or a spindle which has to be rotated to one or more indexed positions in order to achieve a change in contact state		ACC512	7.3.37
Safety position switch with separate actuator	Key-operated safety switch	a positive opening pilot switch, the actuating system of which is operated by a separate actuator, when this actuator reaches a predetermined position		ACC513	7.3.38
Safety position switch with interlocking		a positive opening pilot switch, the actuating system of which is operated by a separate actuator with interlocking, when this actuator reaches a predetermined position		ACC514	7.3.39
Trip wire switch	Emergency stop rope pull switch	control switch in which the actuator is a rope, a wire or similar means		ACC515	7.3.40
Hinge switch		a positive opening pilot switch, the actuating system of which is operated by the pivoting of a guard, when this guard reaches a predetermined angle		ACC516	7.3.41

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Push-button		control switch having an actuator intended to be operated by force exerted by a part of the human body, usually the finger or palm of the hand, and having stored energy (spring) return	IEC 60050-441:1984, 441-14-53	ACC517	7.3.42
Rotary button	Selector switch	combination of push-button type switching elements having an actuator operated by a manual rotation	2.2.2.4 of IEC 60947-5-1:2003 modified	ACC518	7.3.43
Front element for rotary button	Actuator of selector switch	actuator of a control switch intended to be operated by rotation		ACC519	7.3.44
Joy stick	Joystick controller	control switch having an actuator consisting of a pin or stick projecting essentially at a right angle from the panel or enclosure when in one of its positions and intended to be operated by angular displacement NOTE 1 A joy stick may have more than two positions associated with different directions of the displacement of the stick and operating the contact elements differently: such a joy stick is referred to as a joy stick selector. NOTE 2 The pin or stick may or may not have a spring return.	2.2.2.19 of IEC 60947-5-1:2003	ACC520	7.3.45
Foot switch	Pedal	control switch having an actuator intended to be operated by force exerted by a foot	2.2.2.21 of IEC 60947-5-1:2003	ACC521	7.3.46
Emergency stop push-button	E-stop, Emergenc y stop device	manually operated control device used to initiate an emergency stop function	3.2 of ISO 13850:20 06	ACC522	7.3.47
Indicator light	Signal light, Pilot light	light signal giving information either by lighting or extinguishing	J.2.1 of IEC 60947-5-1:2003	ACC523	7.3.48
Indicating tower	Signal column, Signal tower, Control tower stack lights	assembly including one or more signalling units giving information by visible or audible signals NOTE Other elements, e.g. network interface elements, may be added.	J.2.5 of IEC 60947-5-1:2003	ACC524	7.3.49
Front element for push-button		actuator of the switching device intended to be operated by force exerted by a part of the human body, usually the finger or palm of the hand, and having stored energy (spring) return		ACC525	7.3.50
Contact block for control circuit	Contact unit	a contact element or contact element combination which can be combined with similar units operated by a common actuating system	2.3.3.10 of IEC 60947-5-1: 2003 modified	ACC526	7.3.51

Class name	Synony-mous	Definition	Source	Class ID	Sub-clause
Front element for emergency stop push-button		actuator of the switching device intended to be operated by force exerted by a part of the human body in emergency situations, usually the finger or palm of the hand, and having stored energy (spring) return		ACC527	7.3.52
Module for indicating tower		assembly composed of a bezel and a lens for providing information either by lighting or sound signalling		ACC528	7.3.53
Multiple function equipment classes		set of switching devices performing multiple functions		ACC600	
Transfer switching equipment	Manual transfer switch, Remote transfer switch, Automatic transfer switch	equipment containing one or more switching devices for disconnecting load circuits from one supply and connecting to another supply	3.1.1 of IEC 60947-6-1:2005	ACC601	7.3.54
Terminal block classes		set of insulating part carrying one or more mutually insulated terminal assemblies and intended to be fixed to a support	2.2.20 of IEC 60947-1:2007 modified	ACC700	
Feed-through terminal block	Terminal strip	insulating part carrying one or more mutually insulated terminal assemblies and intended to be fixed to a support		ACC701	7.3.55
Disconnect terminal block		feed-through terminal block for which each circuit can be disconnected		ACC703	7.3.56
Protective conductor terminal block		device with one or more clamping units for connecting and/or joining protective conductors (PE and PEN conductors) with conducting connection to their supports, which may be designed with screw-type or screwless-type fixing means	2.1 of IEC 60947-7-2:2009	ACC704	7.3.57
Fuse terminal block		terminal block base with a fuse carrier	2.1 of IEC 60947-7-3:2009	ACC705	7.3.58

7.3 Properties of device classes

7.3.1 General

Table 3 to Table 45 give the lists of properties for each device class.

7.3.2 Circuit-breaker

Table 3 – Circuit-breaker

Properties of each class	Class ID	Property ID
Circuit-breaker	ACC201	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of actuator		ACE214
degree of protection of front face		ACE247
degree of protection of terminals		ACE248
isolating function		ACE204
provision for locking		ACE243
motor-operator		ACE239
Main circuit (of a switching device)	ACC014	
number of poles		ACE401
rated current		ACE424
rated operational voltage, a.c.		ACE457
rated impulse withstand voltage		ACE460
ambient air temperature		ACE440
Short-circuit	ACC040	
rated ultimate short-circuit breaking capacity, a.c., 230 V		ACE716
rated ultimate short-circuit breaking capacity, a.c., 400 V		ACE702
rated ultimate short-circuit breaking capacity, a.c., 690 V		ACE717
rated service short-circuit breaking capacity, a.c., 230 V		ACE715
rated service short-circuit breaking capacity, a.c., 400 V		ACE701
rated service short-circuit breaking capacity, a.c., 690 V		ACE718
interrupting rating, a.c., 120 V		ACE700
interrupting rating, a.c., 480 V		ACE703
interrupting rating, a.c., 600 V		ACE704
rated short-time withstand current, a.c., 1 s		ACE712
rated operational voltage for IT systems		ACE721
Over-current release	ACC041	
reference temperature of compensated release		ACE743
reference temperature of non-compensated release		ACE744
overcurrent release technology		ACE740
overload release capability		ACE742

Properties of each class	Class ID	Property ID
overload release current setting		ACE741
overload current setting of the neutral pole		ACE745
short-time delay release		ACE746
instantaneous short-circuit current setting		ACE747
ground fault current release		ACE760
ground fault current setting		ACE761
residual current release		ACE750
residual current protection type		ACE751
rated operational voltage of the residual current release, limits		ACE752
residual operating current setting		ACE753
residual current time-delay setting		ACE755
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally open, additional		ACE512
number of auxiliary contacts, normally closed		ACE508
number of auxiliary contacts, normally closed, additional		ACE509
number of auxiliary contacts, changeover		ACE514
number of auxiliary contacts, changeover, additional		ACE515
Data communication	ACC050	
communication protocol		ACE361
Installation, mounting and dimensions	ACC066	
height of the device		ACE801
width of the device		ACE802
length of the device		ACE803
mounting onto standard rails		ACE804
product mass		ACE808
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
position of the connection of the main circuit		ACE870
disconnecting method		ACE855
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.3 Release for circuit-breaker

Table 4 – Release for circuit-breaker

Properties of each class	Class ID	Property ID
Release for circuit-breaker	ACC202	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of associated circuit-breaker		ACE219
rated current		ACE424
Over-current release	ACC041	
reference temperature of compensated release		ACE743
reference temperature of non-compensated release		ACE744
overcurrent release technology		ACE740
overload release capability		ACE742
overload release current setting		ACE741
overload current setting of the neutral pole		ACE745
short-time delay release		ACE746
instantaneous short-circuit current setting		ACE747
ground fault current release		ACE760
ground fault current setting		ACE761
residual current release		ACE750
residual current protection type		ACE751
rated operational voltage of the residual current release, limits		ACE752
residual operating current setting		ACE753
residual current time-delay setting		ACE755
Data communication	ACC050	
communication protocol		ACE361
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.4 Residual current release for circuit-breaker

Table 5 – Residual current release for circuit-breaker

Properties of each class	Class ID	Property ID
Residual current release for circuit-breaker	ACC203	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
suitable for use in single phase		ACE206
type of associated circuit-breaker		ACE219
Main circuit (of a switching device)	ACC014	
number of poles		ACE401
rated current		ACE424
rated operational voltage		ACE455
Over-current release	ACC041	
functionally dependant on line voltage		ACE756
residual current protection type		ACE751
residual operating current setting		ACE753
residual current time-delay setting		ACE755
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.5 Shunt release for circuit-breaker

Table 6 – Shunt release for circuit-breaker

Properties of each class	Class ID	Property ID
Shunt release for circuit-breaker	ACC204	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of associated circuit-breaker		ACE219
Control and auxiliary circuits	ACC016	
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.6 Under-voltage release for circuit-breaker

Table 7 – Under-voltage release for circuit-breaker

Properties of each class	Class ID	Property ID
Under-voltage release for circuit-breaker	ACC205	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of associated circuit-breaker		ACE219
Control and auxiliary circuits	ACC016	
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.7 Motor-operator for circuit-breaker

Table 8 – Motor-operator for circuit-breaker

Properties of each class	Class ID	Property ID
Motor-operator for circuit-breaker	ACC206	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of associated circuit-breaker		ACE219
Control and auxiliary circuits	ACC016	
motor-operator closing time		ACE521
motor-operator opening time		ACE522
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.8 Switch-disconnector

Table 9 – Switch-disconnector

Properties of each class	Class ID	Property ID
Switch-disconnector	ACC301	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
main contact fully visible in open position		ACE234
type of actuator		ACE214
isolating function		ACE204
provision for locking		ACE243
Main circuit (of a switching device)	ACC014	
number of poles		ACE401
rated current		ACE424
rated operational current, AC-21, 230 V		ACE476
rated operational current, AC-21, 400 V		ACE471
rated operational current, AC-21, 690 V		ACE472
rated operational current, AC-22, 230 V		ACE477
rated operational current, AC-22, 400 V		ACE432
rated operational current, AC-22, 690 V		ACE473
rated operational voltage, AC-22		ACE475
rated operational current, AC-23, 230 V		ACE478
rated operational current, AC-23, 400 V		ACE435
rated operational current, AC-23, 690 V		ACE474
rated operational current, DC-21		ACE479
rated operational voltage, DC-21		ACE480
rated operational current, DC-22		ACE426
rated operational voltage, DC-22		ACE459
rated operational current, DC-23		ACE481
rated operational voltage, DC-23		ACE482
category of operating cycles		ACE463
rated operational power, AC-3, 400 V		ACE413
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
1ph Horsepower rating, 120 V, 60 Hz		ACE443

Properties of each class	Class ID	Property ID
conventional enclosed thermal current		ACE439
ambient air temperature		ACE440
rated impulse withstand voltage		ACE460
Short-circuit	ACC040	
rated short-time withstand current, a.c., 1 s		ACE712
rated conditional short-circuit current, a.c., 230 V		ACE722
rated conditional short-circuit current, a.c., 400 V		ACE708
rated conditional short-circuit current, a.c., 690 V		ACE723
rated short-circuit making capacity, a.c., 230 V		ACE724
rated short-circuit making capacity, a.c., 400 V		ACE725
rated short-circuit making capacity, a.c., 690 V		ACE726
Installation, mounting and dimensions	ACC066	
height of the device		ACE801
width of the device		ACE802
length of the device		ACE803
mounting onto standard rails		ACE804
panel mounting		ACE805
door mounting		ACE806
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
position of the connection of the main circuit		ACE870
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.9 Switch-disconnector-fuse

Table 10 – Switch-disconnector-fuse

Properties of each class	Class ID	Property ID
Switch-disconnector-fuse	ACC302	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
type of actuator		ACE214
isolating function		ACE204
provision for locking		ACE243
double opening of the circuit		ACE236
Main circuit (of a switching device)	ACC014	
number of poles		ACE401
number of protected poles		ACE410
rated current		ACE424
fuse system		ACE453
characteristic of the fuse-link		ACE452
size of the fuse-link		ACE454
rated operational current, AC-21, 230 V		ACE476
rated operational current, AC-21, 400 V		ACE471
rated operational current, AC-21, 690 V		ACE472
rated operational current, AC-22, 230 V		ACE477
rated operational current, AC-22, 400 V		ACE432
rated operational current, AC-22, 690 V		ACE473
rated operational voltage, AC-22		ACE475
rated operational current, AC-23, 230 V		ACE478
rated operational current, AC-23, 400 V		ACE435
rated operational current, AC-23, 690 V		ACE474
rated operational current, DC-21		ACE479
rated operational voltage, DC-21		ACE480
rated operational current, DC-22		ACE426
rated operational voltage, DC-22		ACE459
rated operational current, DC-23		ACE481
rated operational voltage, DC-23		ACE482
category of operating cycles		ACE463

Properties of each class	Class ID	Property ID
rated operational power, AC-3, 400 V		ACE413
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
1ph Horsepower rating, 120 V, 60 Hz		ACE443
conventional free air thermal current		ACE438
conventional enclosed thermal current		ACE439
ambient air temperature		ACE440
rated impulse withstand voltage		ACE460
Short-circuit	ACC040	
rated conditional short-circuit current, a.c., 230 V		ACE722
rated conditional short-circuit current, a.c., 400 V		ACE708
rated conditional short-circuit current, a.c., 690 V		ACE723
Installation, mounting and dimensions	ACC066	
height of the device		ACE801
width of the device		ACE802
length of the device		ACE803
mounting onto standard rails		ACE804
panel mounting		ACE805
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
position of the connection of the main circuit		ACE870
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.10 Fuse-switch-disconnector

Table 11 – Fuse-switch-disconnector

Properties of each class	Class ID	Property ID
Fuse-switch-disconnector	ACC303	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
type of actuator		ACE214
double opening of the circuit		ACE236
isolating function		ACE204
provision for locking		ACE243
Main circuit (of a switching device)	ACC014	
number of poles		ACE401
number of protected poles		ACE410
rated current		ACE424
fuse system		ACE453
characteristic of the fuse-link		ACE452
size of the fuse-link		ACE454
rated operational current, AC-21, 230 V		ACE476
rated operational current, AC-21, 400 V		ACE471
rated operational current, AC-21, 690 V		ACE472
rated operational current, AC-22, 230 V		ACE477
rated operational current, AC-22, 400 V		ACE432
rated operational current, AC-22, 690 V		ACE473
rated operational current, AC-23, 230 V		ACE478
rated operational current, AC-23, 400 V		ACE435
rated operational current, AC-23, 690 V		ACE474
rated operational current, DC-21		ACE479
rated operational voltage, DC-21		ACE480
rated operational current, DC-22		ACE426
rated operational voltage, DC-22		ACE459
category of operating cycles		ACE463
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
1ph Horsepower rating, 120 V, 60 Hz		ACE443

Properties of each class	Class ID	Property ID
conventional free air thermal current		ACE438
conventional enclosed thermal current		ACE439
ambient air temperature		ACE440
rated impulse withstand voltage		ACE460
Short-circuit	ACC040	
rated conditional short-circuit current, a.c., 230 V		ACE722
rated conditional short-circuit current, a.c., 400 V		ACE708
rated conditional short-circuit current, a.c., 690 V		ACE723
Installation, mounting and dimensions	ACC066	
height of the device		ACE801
width of the device		ACE802
length of the device		ACE803
mounting onto standard rails		ACE804
panel mounting		ACE805
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
position of the connection of the main circuit		ACE870
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.11 Motor protection circuit-breaker

Table 12 – Motor protection circuit-breaker

Properties of each class	Class ID	Property ID
Motor protection circuit-breaker	ACC401	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
type of actuator		ACE214
degree of protection of the device		ACE218
type of overcurrent release		ACE215
trip class		ACE213
Main circuit (of a switching device)	ACC014	
rated operational power, AC-3, 400 V		ACE413
rated operational power, AC-3, 230 V		ACE412
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
rated operational current, 400 V		ACE429
ambient air temperature		ACE440
Over-current release	ACC041	
overload release current setting		ACE741
temperature compensated overload protection		ACE748
sensitive to phase loss		ACE749
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
Short-circuit	ACC040	
rated ultimate short-circuit breaking capacity, a.c., 400 V		ACE702
rated ultimate short-circuit breaking capacity, a.c., 230 V		ACE716
rated service short-circuit breaking capacity, a.c., 400 V		ACE701
rated service short-circuit breaking capacity, a.c., 230 V		ACE715
short-circuit current rating, 480 Y/277 V		ACE713
short-circuit current rating, 600 Y/347 V		ACE714
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.12 Motor management device

Table 13 – Motor management device

Properties of each class	Class ID	Property ID
Motor management device	ACC402	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
suitable for use in single phase		ACE206
self-powered		ACE207
nature of the reset of the overload release		ACE208
degree of protection of the device		ACE218
trip class		ACE213
built-in current sensor		ACE216
load shedding		ACE205
ground/earth fault detection		ACE220
jam detection		ACE222
stall detection		ACE221
over and/or under current detection		ACE223
over and/or under voltage detection		ACE224
current imbalance detection		ACE225
phase reversal detection		ACE227
Diagnostic functions	ACC013	
cos(phi) variation detection		ACE302
voltage monitoring		ACE301
under power detection		ACE303
Over-current release	ACC041	
overload release current setting		ACE741
sensitive to phase loss		ACE749
Input / Output circuit	ACC015	
number of PTC thermistor inputs		ACE334
number of analogue inputs		ACE331
number of digital outputs		ACE333
number of digital inputs (current sinking)		ACE332
Control and auxiliary circuits	ACC016	
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602

Properties of each class	Class ID	Property ID
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Data communication	ACC050	
communication protocol		ACE361
HMI port		ACE362
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.13 Motor management device, extension module

Table 14 – Motor management device, extension module

Properties of each class	Class ID	Property ID
Motor management device, extension module	ACC403	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
load shedding		ACE205
ground/earth fault detection		ACE220
over and/or under voltage detection		ACE224
over and/or under current detection		ACE223
jam detection		ACE222
stall detection		ACE221
current imbalance detection		ACE225
voltage asymmetry detection		ACE226
phase reversal detection		ACE227
Diagnostic functions	ACC013	

Properties of each class	Class ID	Property ID
cos(phi) variation detection		ACE302
under power detection		ACE303
Input / Output circuit	ACC015	
number of analogue inputs		ACE331
number of PTC thermistor inputs		ACE334
number of digital outputs		ACE333
number of digital inputs (current sinking)		ACE332
Control and auxiliary circuits	ACC016	
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Data communication	ACC050	
communication protocol		ACE361
HMI port		ACE362
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.14 Motor management device, operator panel

Table 15 – Motor management device, operator panel

Properties of each class	Class ID	Property ID
Motor management device, operator panel	ACC404	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.15 Motor-starter combination

Table 16 – Motor-starter combination

Properties of each class	Class ID	Property ID
Motor-starter combination	ACC405	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
kind of motor-starter		ACE201
degree of protection of the device		ACE218
isolating function		ACE204
trip class		ACE213
Main circuit (of a switching device)	ACC014	
rated operational power, AC-3, 400 V		ACE413
rated operational power, AC-3, 230 V		ACE412
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
rated operational current, AC-3, 400 V		ACE434
ambient air temperature		ACE440
Over-current release	ACC041	
overload release current setting		ACE741
temperature compensated overload protection		ACE748
Short-circuit	ACC040	
rated conditional short-circuit current, type 2, a.c., 400 V		ACE705
rated conditional short-circuit current, type 2, a.c., 230 V		ACE709
rated conditional short-circuit current, type 1, 480 Y/277 V		ACE706
rated conditional short-circuit current, type 1, 600 Y/347 V		ACE707
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Data communication	ACC050	
communication protocol		ACE361
Installation, mounting and dimensions	ACC066	

Properties of each class	Class ID	Property ID
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
environmental declaration		ACE903
product standard		ACE901

7.3.16 Motor-starter

Table 17 – Motor-starter

Properties of each class	Class ID	Property ID
Motor-starter	ACC415	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
kind of motor-starter		ACE201
degree of protection of the device		ACE218
trip class		ACE213
Main circuit (of a switching device)	ACC014	
rated operational power, AC-3, 400 V		ACE413
rated operational power, AC-3, 230 V		ACE412
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
rated operational current, AC-3, 400 V		ACE434
ambient air temperature		ACE440
Over-current release	ACC041	
overload release current setting		ACE741
temperature compensated overload protection		ACE748
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601

Properties of each class	Class ID	Property ID
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
environmental declaration		ACE903
product standard		ACE901

7.3.17 AC semiconductor motor controller

Table 18 – AC semiconductor motor controller

Properties of each class	Class ID	Property ID
AC semiconductor motor controller	ACC406	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
motor overload protection integrated		ACE211
bypass circuit integrated		ACE212
Main circuit (of a switching device)	ACC014	
rated operational current, 40 °C		ACE430
rated operational power, delta connected motor, 230 V, 40 °C		ACE416
rated operational power, delta connected motor, 400 V, 40 °C		ACE417
3ph Horsepower rating, 460 V, 60 Hz, delta connected motors		ACE420
3ph Horsepower rating, 575 V, 60 Hz, delta connected motors		ACE421
rated operational power, line connected motor, 230 V, 40 °C		ACE414
rated operational power, line connected motor, 400 V, 40 °C		ACE415
3ph Horsepower rating, 460 V, 60 Hz, line connected motors		ACE422
3ph Horsepower rating, 575 V, 60 Hz, line connected motors		ACE423

Properties of each class	Class ID	Property ID
rated operational voltage		ACE455
Control and auxiliary circuits	ACC016	
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Data communication	ACC050	
communication protocol		ACE361
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.18 Power contactor, a.c. switching

Table 19 – Power contactor, a.c. switching

Properties of each class	Class ID	Property ID
Power contactor, a.c. switching	ACC407	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
Main circuit (of a switching device)	ACC014	
number of main contacts, normally closed		ACE403
number of main contacts, normally open		ACE404
rated operational power, AC-3, 400 V		ACE413
rated operational power, AC-3, 230 V		ACE412
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
1ph Horsepower rating, 120 V, 60 Hz		ACE443
rated operational current, AC-3, 400 V		ACE434
rated operational current, AC-3, 230 V		ACE442
rated operational current, AC-1, 400 V		ACE431
rated operational current, AC-1, 230 V		ACE433
ambient air temperature		ACE440
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
compatible with PLC outputs		ACE608
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.19 Capacitor contactor

Table 20 – Capacitor contactor

Properties of each class	Class ID	Property ID
Capacitor contactor	ACC408	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
Main circuit (of a switching device)	ACC014	
number of main contacts, normally closed		ACE403
number of main contacts, normally open		ACE404
rated operational power, AC-6b, 400 V		ACE405
rated operational power, AC-6b, 230 V		ACE464
rated operational power, capacitive switching, 460 V, 60 Hz		ACE406
rated operational power, capacitive switching, 575 V, 60 Hz		ACE402
ambient air temperature		ACE440
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.20 Combination of contactors

Table 21 – Combination of contactors

Properties of each class	Class ID	Property ID
Combination of contactors	ACC409	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
kind of motor-starter		ACE201
degree of protection of the device		ACE218
Main circuit (of a switching device)	ACC014	
rated operational power, AC-3, 400 V		ACE413
rated operational power, AC-3, 230 V		ACE412
rated operational current, AC-3, 400 V		ACE434
rated operational current, AC-3, 230 V		ACE442
3ph Horsepower rating, 460 V, 60 Hz		ACE418
3ph Horsepower rating, 575 V, 60 Hz		ACE419
ambient air temperature		ACE440
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.21 Power contactor, d.c. switching

Table 22 – Power contactor, d.c. switching

Properties of each class	Class ID	Property ID
Power contactor, d.c. switching	ACC410	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
Main circuit (of a switching device)	ACC014	
number of main contacts, normally closed		ACE403
number of main contacts, normally open		ACE404
rated operational power, DC-1, 440 V		ACE407
rated operational power, DC-1, 220 V		ACE465
rated operational power, DC-3, 440 V		ACE408
rated operational power, DC-3, 220 V		ACE470
rated operational power, DC-5, 440 V		ACE409
rated operational power, DC-5, 220 V		ACE466
rated operational current, DC-1, 440 V		ACE425
rated operational current, DC-1, 220 V		ACE467
rated operational current, DC-3, 440 V		ACE427
rated operational current, DC-3, 220 V		ACE468
rated operational current, DC-5, 440 V		ACE428
rated operational current, DC-5, 220 V		ACE469
ambient air temperature		ACE440
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.22 Thermal overload relay

Table 23 – Thermal overload relay

Properties of each class	Class ID	Property ID
Thermal overload relay	ACC411	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
nature of the reset of the overload release		ACE208
test trip button		ACE210
trip class		ACE213
degree of protection of the device		ACE218
Over-current release	ACC041	
temperature compensated overload protection		ACE748
sensitive to phase loss		ACE749
overload release current setting		ACE741
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.23 Electronic overload relay

Table 24 – Electronic overload relay

Properties of each class	Class ID	Property ID
Electronic overload relay	ACC412	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
suitable for use in single phase		ACE206
self-powered		ACE207
nature of the reset of the overload release		ACE208
test trip button		ACE210
trip class		ACE213
additional current transformer required		ACE203
degree of protection of the device		ACE218
jam detection		ACE222
stall detection		ACE221
ground/earth fault detection		ACE220
Over-current release	ACC041	
thermal memory		ACE739
sensitive to phase loss		ACE749
overload release current setting		ACE741
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.24 Relay for thermistor protection (PTC)

Table 25 – Relay for thermistor protection (PTC)

Properties of each class	Class ID	Property ID
Relay for thermistor protection (PTC)	ACC413	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
nature of the reset of the overload release		ACE208
fault recording memory		ACE209
degree of protection of the device		ACE218
Input / Output circuit	ACC015	
number of PTC thermistor inputs		ACE334
short-circuit and/or open-circuit detection		ACE335
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
Connection facilities	ACC068	
clamping unit		ACE850
plug-in terminal for auxiliary and/or control circuits		ACE853
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.25 Electromechanical contactor for household and similar purposes

Table 26 – Electromechanical contactor for household and similar purposes

Properties of each class	Class ID	Property ID
Electromechanical contactor for household and similar purposes	ACC414	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
manual control		ACE202
Main circuit (of a switching device)	ACC014	
rated operational current, AC-7a, 230 V		ACE436
rated operational current, AC-7b, 230 V		ACE437
1ph horsepower rating, 120 V, 60 Hz		ACE443
number of main contacts, normally closed		ACE403
number of main contacts, normally open		ACE404
Control and auxiliary circuits	ACC016	
kind of current		ACE601
rated control voltage, a.c., 50 Hz		ACE602
rated control voltage, a.c., 60 Hz		ACE604
rated control voltage, d.c.		ACE606
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
panel mounting		ACE805
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.26 Inductive proximity switch

Table 27 – Inductive proximity switch

Properties of each class	Class ID	Property ID
Inductive proximity switch	ACC501	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
diameter of the device		ACE810
mounting position of the sensor		ACE811
housing construction		ACE813
General technical data	ACC012	
rated operating distance		ACE251
effective operating distance		ACE250
switching element function		ACE253
kind of current		ACE601
type of output		ACE254
number of wiring terminals		ACE877
degree of protection of the device		ACE218
ambient air temperature		ACE440
electric shock protection class		ACE249
housing or body material		ACE260
sensing face material		ACE261
additional functions		ACE256
Control and auxiliary circuits	ACC016	
rated operational voltage		ACE455
supply voltage limit		ACE531
rated supply frequency		ACE532
rated operational current, a.c.		ACE533
rated operational current, d.c.		ACE534
OFF-state current		ACE537
ON-state current, minimum		ACE538
voltage drop		ACE539
overload and short circuit protected output		ACE540

Properties of each class	Class ID	Property ID
Connection facilities	ACC068	
electrical connection of the sensor		ACE856
cable length		ACE857
rated cross-section		ACE862
cable sheath material		ACE859
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.27 Capacitive proximity switch

Table 28 – Capacitive proximity switch

Properties of each class	Class ID	Property ID
Capacitive proximity switch	ACC502	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
diameter of the device		ACE810
mounting position of the sensor		ACE811
housing construction		ACE813
General technical data	ACC012	
rated operating distance		ACE251
effective operating distance		ACE250
switching element function		ACE253
kind of current		ACE601
type of output		ACE254
number of wiring terminals		ACE877
degree of protection of the device		ACE218
ambient air temperature		ACE440
electric shock protection class		ACE249

Properties of each class	Class ID	Property ID
housing or body material		ACE260
sensing face material		ACE261
additional functions		ACE256
Control and auxiliary circuits	ACC016	
rated operational voltage		ACE455
supply voltage limit		ACE531
rated supply frequency		ACE532
rated operational current, a.c.		ACE533
rated operational current, d.c.		ACE534
OFF-state current		ACE537
ON-state current, minimum		ACE538
voltage drop		ACE539
overload and short circuit protected output		ACE540
Connection facilities	ACC068	
electrical connection of the sensor		ACE856
cable length		ACE857
rated cross-section		ACE862
cable sheath material		ACE859
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.28 Non-mechanical magnetic proximity switch

Under consideration.

7.3.29 Ultrasonic proximity switch

Under consideration.

7.3.30 Through beam photoelectric proximity switch

Under consideration.

7.3.31 Retroreflective photoelectric proximity switch

Under consideration.

7.3.32 Diffuse reflective photoelectric proximity switch

Under consideration.

7.3.33 Diffuse reflective photoelectric proximity switch with background suppression

Under consideration.

7.3.34 Auxiliary contact block

Table 29 – Auxiliary contact block

Properties of each class	Class ID	Property ID
Auxiliary contact block	ACC509	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of terminals		ACE248
type of associated switching device		ACE241
Control and auxiliary circuits	ACC016	
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
contact element action type		ACE516
number of contacts, normally closed		ACE518
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
rated operational current, AC-15, 230 V		ACE502
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
rated operational current of low energy contact, d.c., minimum		ACE506
rated operational voltage of low energy contact, d.c.		ACE507
number of electrical operating cycles		ACE517
Installation, mounting and dimensions	ACC066	
mounting of the auxiliary block		ACE807
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.35 Contactor relay

Table 30 – Contactor relay

Properties of each class	Class ID	Property ID
Contactor relay	ACC510	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
Control and auxiliary circuits	ACC016	
number of auxiliary contacts, normally open		ACE511
number of auxiliary contacts, normally closed		ACE508
number of contacts, normally open, early make		ACE513
number of contacts, normally closed, late break		ACE510
rated operational current, AC-15, 230 V		ACE502
rated operational current, AC-12		ACE501
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
rated operational current of low energy contact, d.c., minimum		ACE506
rated operational voltage of low energy contact, d.c.		ACE507
Installation, mounting and dimensions	ACC066	
mounting onto standard rails		ACE804
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit of main circuit		ACE852
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.36 Position switch

Table 31 – Position switch

Properties of each class	Class ID	Property ID
Position switch	ACC511	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of the device		ACE218
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
electric shock protection class		ACE249
housing or body material		ACE260
mechanical durability		ACE255
Head of the control circuit device	ACC017	
actuating motion		ACE641
position switch actuator		ACE642
direct opening action		ACE655
front element material type		ACE643
actuator end material		ACE644
diameter of the roller		ACE654
Control and auxiliary circuits	ACC016	
rated operational current, AC-15, 230 V		ACE502
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
contact element action type		ACE516
number of contacts, normally closed		ACE518
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
number of contacts, normally closed, late break		ACE510
number of contacts, normally open, early make		ACE513
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
housing standard		ACE812

Properties of each class	Class ID	Property ID
Connection facilities	ACC068	
electrical connection of the sensor		ACE856
number of cable entries		ACE875
size of cable entries		ACE876
plug-in unit		ACE858
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.37 Rotary limit switch

Under consideration.

7.3.38 Safety position switch with separate actuator

Under consideration.

7.3.39 Safety position switch with interlocking

Under consideration.

7.3.40 Trip wire switch

Under consideration.

7.3.41 Hinge switch

Under consideration.

7.3.42 Push-button

Table 32 – Push-button

Properties of each class	Class ID	Property ID
Push-button	ACC517	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection of terminals		ACE248
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
number of actuators		ACE635
colour of the actuator		ACE625
actuator return type		ACE621
mounting of the button		ACE622
front shape of the actuator		ACE623
width of the actuator		ACE645
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
unlatching method		ACE629
actuator marking		ACE636
can be illuminated		ACE632
Light block of the control circuit device	ACC018	
type of lamp		ACE633
type of lamp socket		ACE650
with lamp		ACE651
with integral LED		ACE653
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
indicator light with a built-in voltage-reducing device		ACE536
Control and auxiliary circuits	ACC016	
contact element action type		ACE516

Properties of each class	Class ID	Property ID
number of contacts, normally closed		ACE518
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
rated operational current, AC-15, 230 V		ACE502
rated operational current, AC-14, 230 V		ACE541
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
rated operational current of low energy contact, d.c., minimum		ACE506
rated operational voltage of low energy contact, d.c.		ACE507
number of electrical operating cycles		ACE517
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.43 Rotary button

Table 33 – Rotary button

Properties of each class	Class ID	Property ID
Rotary button	ACC518	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection of terminals		ACE248
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
type of actuator		ACE214
number of selectable positions		ACE624
actuator return type		ACE621
key withdrawal position		ACE634
front shape of the actuator		ACE623
colour of the actuator		ACE625
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
actuator marking		ACE636
can be illuminated		ACE632
Light block of the control circuit device	ACC018	
type of lamp		ACE633
type of lamp socket		ACE650
with lamp		ACE651
with integral LED		ACE653
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
indicator light with a built-in voltage-reducing device		ACE536
Control and auxiliary circuits	ACC016	
contact element action type		ACE516
number of contacts, normally closed		ACE518

Properties of each class	Class ID	Property ID
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
rated operational current, AC-15, 230 V		ACE502
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
rated operational current of low energy contact, d.c., minimum		ACE506
rated operational voltage of low energy contact, d.c.		ACE507
number of electrical operating cycles		ACE517
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.44 Front element for rotary button

Table 34 – Front element for rotary button

Properties of each class	Class ID	Property ID
Front element for rotary button	ACC519	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
type of actuator		ACE214
number of selectable positions		ACE624
actuator return type		ACE621
key withdrawal position		ACE634
front shape of the actuator		ACE623
colour of the actuator		ACE625
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
actuator marking		ACE636
can be illuminated		ACE632
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.45 Joy stick

Under consideration.

7.3.46 Foot switch

Under consideration.

7.3.47 Emergency stop push-button

Table 35 – Emergency stop push-button

Properties of each class	Class ID	Property ID
Emergency stop push-button	ACC522	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection of terminals		ACE248
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
front shape of the actuator		ACE623
colour of the actuator		ACE625
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
unlatching method		ACE629
actuator marking		ACE636
can be illuminated		ACE632
Light block of the control circuit device	ACC018	
type of lamp		ACE633
type of lamp socket		ACE650
with lamp		ACE651
with integral LED		ACE653
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
indicator light with a built-in voltage-reducing device		ACE536
Control and auxiliary circuits	ACC016	
contact element action type		ACE516
number of contacts, normally closed		ACE518

Properties of each class	Class ID	Property ID
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
rated operational current, AC-15, 230 V		ACE502
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
number of electrical operating cycles		ACE517
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.48 Indicator light

Table 36 – Indicator light

Properties of each class	Class ID	Property ID
Indicator light	ACC523	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection of terminals		ACE248
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
colour of the lens		ACE630
lens front shape		ACE652
mounting of the lens		ACE631
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
actuator marking		ACE636
Light block of the control circuit device	ACC018	
type of lamp		ACE633
type of lamp socket		ACE650
with lamp		ACE651
with integral LED		ACE653
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
indicator light with a built-in voltage-reducing device		ACE536
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.49 Indicating tower

Table 37 – Indicating tower

Properties of each class	Class ID	Property ID
Indicating tower	ACC524	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
number of signal lights		ACE649
sound signalling device		ACE639
sound pressure level		ACE640
diameter of the device		ACE810
indicating tower colours combination		ACE646
housing or body material		ACE260
colour of the device body		ACE637
degree of protection of the device		ACE218
ambient air temperature		ACE440
Light block of the control circuit device	ACC018	
type of lamp		ACE633
with lamp		ACE651
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.50 Front element for push-button

Table 38 – Front element for push-button

Properties of each class	Class ID	Property ID
Front element for push-button	ACC525	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
number of actuators		ACE635
colour of the actuator		ACE625
actuator return type		ACE621
mounting of the button		ACE622
front shape of the actuator		ACE623
width of the actuator		ACE645
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
unlatching method		ACE629
actuator marking		ACE636
can be illuminated		ACE632
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.51 Contact block for control circuit

Table 39 – Contact block for control circuit

Properties of each class	Class ID	Property ID
Contact block for control circuit	ACC526	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of terminals		ACE248
Control and auxiliary circuits	ACC016	
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
contact element action type		ACE516
number of contacts, normally closed		ACE518
number of contacts, normally open		ACE519
number of contacts, changeover		ACE520
rated operational current, AC-15, 230 V		ACE502
rated operational current, DC-13, 24 V		ACE503
contact rating designation a.c.		ACE504
contact rating designation d.c.		ACE505
rated operational current of low energy contact, d.c., minimum		ACE506
rated operational voltage of low energy contact, d.c.		ACE507
number of electrical operating cycles		ACE517
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.52 Front element for emergency stop push-button

Table 40 – Front element for emergency stop push-button

Properties of each class	Class ID	Property ID
Front element for emergency stop push-button	ACC527	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
degree of protection of front face		ACE247
degree of protection against mechanical impacts		ACE238
ambient air temperature		ACE440
Head of the control circuit device	ACC017	
front shape of the actuator		ACE623
colour of the actuator		ACE625
mounting hole size		ACE626
bezel material		ACE627
colour of the bezel		ACE628
unlatching method		ACE629
actuator marking		ACE636
can be illuminated		ACE632
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.53 Module for indicating tower

Table 41 – Module for indicating tower

Properties of each class	Class ID	Property ID
Module for indicating tower	ACC528	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
sound signalling device		ACE639
sound pressure level		ACE640
diameter of the device		ACE810
colour of the lens		ACE630
housing or body material		ACE260
colour of the device body		ACE637
degree of protection of the device		ACE218
ambient air temperature		ACE440
Light block of the control circuit device	ACC018	
type of lamp		ACE633
with lamp		ACE651
blinking light		ACE638
supply voltage limit		ACE531
rated supply frequency		ACE532
kind of current		ACE601
Installation, mounting and dimensions	ACC066	
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
Connection facilities	ACC068	
clamping unit		ACE850
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.54 Transfer switching equipment

Under consideration.

7.3.55 Feed-through terminal block

Table 42 – Feed-through terminal block

Properties of each class	Class ID	Property ID
Feed-through terminal block	ACC701	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
colour of the terminal assembly		ACE240
Installation, mounting and dimensions	ACC066	
mounting of the device		ACE814
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
closing plate required		ACE815
Main circuit (of a switching device)	ACC014	
rated current		ACE424
rated voltage		ACE444
rated impulse withstand voltage		ACE460
ambient air temperature		ACE440
Connection facilities	ACC068	
rated cross-section		ACE862
cross-section of flexible conductor		ACE865
cross-section of rigid conductor		ACE867
clamping unit		ACE850
clamping unit, second type		ACE851
connection orientation		ACE869
number of clamping units		ACE872
number of separate circuits		ACE874
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.56 Disconnect terminal block

Table 43 – Disconnect terminal block

Properties of each class	Class ID	Property ID
Disconnect terminal block	ACC703	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
colour of the terminal assembly		ACE240
disconnect means		ACE228
integrated test socket		ACE233
Installation, mounting and dimensions	ACC066	
mounting of the device		ACE814
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
closing plate required		ACE815
Main circuit (of a switching device)	ACC014	
rated current		ACE424
rated voltage		ACE444
rated impulse withstand voltage		ACE460
number of mechanical operating cycles		ACE447
ambient air temperature		ACE440
Connection facilities	ACC068	
rated cross-section		ACE862
cross-section of flexible conductor		ACE865
cross-section of rigid conductor		ACE867
clamping unit		ACE850
clamping unit, second type		ACE851
connection orientation		ACE869
number of clamping units		ACE872
number of separate circuits		ACE874
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.57 Protective conductor terminal block

Table 44 – Protective conductor terminal block

Properties of each class	Class ID	Property ID
Protective conductor terminal block	ACC704	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
colour of the terminal assembly		ACE240
Installation, mounting and dimensions	ACC066	
mounting of the device		ACE814
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
closing plate required		ACE815
Main circuit (of a switching device)	ACC014	
rated impulse withstand voltage		ACE460
ambient air temperature		ACE440
Connection facilities	ACC068	
rated cross-section		ACE862
cross-section of flexible conductor		ACE865
cross-section of rigid conductor		ACE867
clamping unit		ACE850
clamping unit, second type		ACE851
connection orientation		ACE869
number of clamping units		ACE872
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

7.3.58 Fuse terminal block

Table 45 – Fuse terminal block

Properties of each class	Class ID	Property ID
Fuse terminal block	ACC705	
Identification	ACC011	
Global Trade Item Number (GTIN)		ACE101
manufacturer name		ACE102
manufacturer product number		ACE103
product family		ACE104
product name		ACE105
supplier name		ACE106
supplier product number		ACE107
product online information URL		ACE108
customs tariff number		ACE109
General technical data	ACC012	
colour of the terminal assembly		ACE240
Installation, mounting and dimensions	ACC066	
mounting of the device		ACE814
width of the device		ACE802
height of the device		ACE801
length of the device		ACE803
closing plate required		ACE815
Main circuit (of a switching device)	ACC014	
rated current		ACE424
rated voltage		ACE444
rated impulse withstand voltage		ACE460
ambient air temperature		ACE440
size of the fuse-link		ACE454
rated power dissipation of a fuse terminal block		ACE450
signal indicator		ACE451
Connection facilities	ACC068	
rated cross-section		ACE862
cross-section of flexible conductor		ACE865
cross-section of rigid conductor		ACE867
clamping unit		ACE850
clamping unit, second type		ACE851
connection orientation		ACE869
number of clamping units		ACE872
Product certificates and standards	ACC070	
certificates and approvals		ACE902
product standard		ACE901
environmental declaration		ACE903

8 Device properties

The properties listed in the Table 46 are depicted with only eight attributes. More attributes are given in the IEC CDD. The lists of values for each value list code are given in Table 47.

Table 46 – Library of properties used in the device classes

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE101	Global Trade Item Number (GTIN)	international unique and universal item number for products and services used by trade and industry (formerly EAN)				STRING_TYPE	X..32
ACE102	manufacturer name	name of a person, company or organisation with ultimate responsibility to verify the product compliance with the appropriate standard or standards and to provide the product information				STRING_TYPE	X..32
ACE103	manufacturer product number	unique product identifier given by the manufacturer				STRING_TYPE	X..64
ACE104	product family	manufacturer family name of the product				STRING_TYPE	X..64
ACE105	product name	name of a product given by the manufacturer				STRING_TYPE	X..64
ACE106	supplier name	name of the organisation responsible for the market distribution of the product				STRING_TYPE	X..32
ACE107	supplier product number	unique product identifier given by the supplier				STRING_TYPE	X..64
ACE108	product online information URL	address on the world wide web (Uniform Resource Locator) of the product documents				STRING_TYPE	X..1024
ACE109	customs tariff number	number assigned to each type of product sold internationally				INT_TYPE	NR1..14
ACE201	kind of motor-starter	type of equipment or subassembly intended to start and accelerate motors, to ensure continuous operation of motors, to switch off the supply from the motor and to provide means for the protection of motors and associated circuits against operating overloads. NOTE See 1.1 of IEC 60947-4-1:2009.				ENUM_STRING_TYPE(ACI010(DOL,SDS,RVS,TSS,OTYP))	X..32
ACE202	manual control	control of an operation done by human intervention	IEC 60050-441: 1984, 441-16-04			ENUM_BOOLEAN_TYPE(ACI008(YES, NO))	
ACE203	additional current transformer required	additional current transformer necessary for the device to operate				ENUM_BOOLEAN_TYPE(ACI008)	
ACE204	isolating function	function intended to cut off the supply from all or a discrete section of the installation by separating the installation or section from every source of electrical energy for reasons of safety	2.1.19 of IEC 60947-1: 2007 modified			ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE205	load shedding	availability of the process of deliberately disconnecting preselected loads from a power system in response to an abnormal condition in order to maintain the integrity of the remainder of the system	IEC 60050-603: 1986, 603-04-32 modified			ENUM_BOOLEAN_TYPE(ACI008)	
ACE206	suitable for use in single phase	ability to use the three phase device on single-phase power circuit				ENUM_BOOLEAN_TYPE(ACI008)	
ACE207	self-powered device	device supplied without an auxiliary power supply				ENUM_BOOLEAN_TYPE(ACI008)	
ACE208	nature of the reset of the overload release	method of re-initialisation of the overload release NOTE See 5.7.3 b) of IEC 60947-4-1:2009.				ENUM_STRING_TYPE(ACI093)	X..32
ACE209	fault recording memory	ability to maintain the fault in memory in case of power supply interruption				ENUM_BOOLEAN_TYPE(ACI008)	
ACE210	test trip button	button available for manually tripping the release mechanism				ENUM_BOOLEAN_TYPE(ACI008)	
ACE211	motor overload protection integrated	motor protection included, intended to operate in the event of overload on the protected circuit				ENUM_BOOLEAN_TYPE(ACI008)	
ACE212	bypass circuit integrated	main circuit of a mechanical switching device connected in parallel with the main circuit of a semiconductor switching device, and wherein the operating means of the two switching devices are co-ordinated NOTE See IEC 60947-4-2.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE213	trip class	classification for thermal protective devices regarding the value of the maximum tripping time in seconds NOTE See Table 2 of IEC 60947-4-1:2009.				ENUM_STRING_TYPE(ACI094(CLASS_2E,CLASS_3E,CLASS_5,CLASS_5E,CLASS_10,CLASS_10A,CLASS_10E,CLASS_20,CLASS_20E,CLASS_30,CLASS_30E,CLASS_40E))	M..4
ACE214	type of actuator	part of the actuating system to which an external actuating force is applied	IEC 60050-441: 1984, 441-15-22			ENUM_STRING_TYPE(ACI011)	X..32

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE215	type of overcurrent release	device, mechanically connected to a circuit-breaker, which releases the holding means when current exceeds the rated current and permits the opening of the circuit-breaker NOTE Typically, this release follows a thermal curve for overload and magnetic curve for short-circuit.				ENUM_STRING_TYPE(ACI090)	X..32
ACE216	built-in current sensor	current sensor integrated in the device				ENUM_BOOLEAN_TYPE(ACI008)	
ACE218	degree of protection of the device	numerical classification in accordance with IEC 60529 preceded by the symbol IP applied to the enclosure of electrical apparatus to provide: – protection of persons against contact with, or approach to, live parts and against contact with moving parts (other than smooth rotating shafts and the like) inside the enclosure; – protection of the electrical apparatus against ingress of solid foreign objects, and; – where indicated by the classification, protection of the electrical apparatus against harmful ingress of water. NOTE For non-enclosed switchgear and controlgear, the IP code is given for the device itself.	IEC 60050-426: 2008, 426-04-02 modified	IP		ENUM_CODE_TYPE(ACI001)	M..8
ACE219	type of associated circuit-breaker	type of circuit-breaker with which the release can be associated				STRING_TYPE	X..32
ACE220	ground/earth fault detection	ability to detect a current leakage from equipment to the earth in order to provide additional protection against fire and other hazards.	derived from T.1.2 of IEC 60947-1:2007/AMD1:2010			ENUM_BOOLEAN_TYPE(ACI008)	
ACE221	stall detection	ability to detect when the current has not decreased below a predetermined value for a specific period of time during start-up or when no rotation of the motor is indicated after a predetermined time in accordance with specified requirements	derived from 3.4.28 of IEC 60947-4-1:2009			ENUM_BOOLEAN_TYPE(ACI008)	
ACE222	jam detection	ability to detect the case of overload and also when the current has increased above a predetermined value for a specific period of time during operation, in accordance with specified requirements	derived from 3.4.29 of IEC 60947-4-1:2009			ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE223	over and/or under current detection	ability to detect when the current is increased above and/or reduced below a predetermined value	derived from 3.4.18 of IEC 60947-4-1:2009			ENUM_BOOLEAN_TYPE(ACI008)	
ACE224	over and/or under voltage detection	ability to detect when the voltage is increased above and/or reduced below a predetermined value NOTE See Annex T of IEC 60947-1:2007/AMD1:2010.	derived from 2.4.34 of IEC 60947-1:2007			ENUM_BOOLEAN_TYPE(ACI008)	
ACE225	current imbalance detection	ability to detect a current magnitude imbalance in accordance with specified requirements NOTE See T.5.5 of IEC 60947-1:2007/AMD1:2010.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE226	voltage asymmetry detection	ability to detect a voltage magnitude asymmetry in accordance with specified requirements	derived from T.2.2 of IEC 60947-1:2007/AMD1:2010			ENUM_BOOLEAN_TYPE(ACI008)	
ACE227	phase reversal detection	detection of improper phase sequence at the line side of the equipment in accordance with specified requirements	derived from T.2.3 of IEC 60947-1:2007/AMD1:2010			ENUM_BOOLEAN_TYPE(ACI008)	
ACE228	disconnect means	actuating method provided by the device for disconnecting the circuit				ENUM_STRING_TYPE(ACI018)	
ACE233	integrated test socket	socket connecting a test plug integrated in the device				ENUM_BOOLEAN_TYPE(ACI008)	
ACE234	main contact fully visible in open position	ability associated to the device construction in which the position and the intended separation of all main contact parts of all poles is unambiguously visible when the device is in the open position				ENUM_BOOLEAN_TYPE(ACI008)	
ACE236	double opening of the circuit	opening of the main circuit on both sides of the fuse system when operated				ENUM_BOOLEAN_TYPE(ACI008)	
ACE238	degree of protection against mechanical impacts	the extent (level) of protection of the equipment provided by an enclosure against harmful mechanical impacts and verified by standardised test methods	3.2 of IEC 62262: 2002	IK		ENUM_CODE_TYPE(ACI005)	M..4
ACE239	motor-operator	dependent power operator capable of closing and opening the circuit-breaker				ENUM_STRING_TYPE(ACI007)	X..32
ACE240	colour of the terminal assembly	colour of the set of two or more clamping units fixed to the same conductive part	derived from 2.4 of IEC 60947-7-1: 2009			ENUM_STRING_TYPE(ACI024)	X..32
ACE241	type of associated switching device	type of switching device with which the auxiliary block can be associated				STRING_TYPE	X..32

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE243	provision for locking	Actuator that can be locked at least in off position				ENUM_BOOLEAN_TYPE(ACI008)	
ACE247	degree of protection of front face	numerical classification in accordance with IEC 60529 preceded by the symbol IP, corresponding to the degree of protection provided by the part of the device protruding through the front panel of the enclosure or switchboard.		IP		ENUM_CODE_TYPE(ACI001)	M..8
ACE248	degree of protection of terminals	numerical classification in accordance with IEC 60529 preceded by the symbol IP, corresponding to the degree of protection provided by the device on main and auxiliary terminals, independently of the enclosure or switchboard.		IP		ENUM_CODE_TYPE(ACI003)	M..8
ACE249	electric shock protection class	classification of protection against electrical shock provided by the combination of the constructional arrangements of the equipment and devices, together with the method of installation NOTE See Clause 7 of IEC 61140:2001.				ENUM_STRING_TYPE(ACI006)	X..32
ACE250	effective operating distance	the operating distance of an individual proximity switch, measured at stated temperature, voltage and mounting conditions	2.3.1.5 of IEC 60947-5-2: 2007	s_r	mm	REAL_MEASURE_TYPE	NR1..3.1
ACE251	rated operating distance	conventional quantity used to designate the operating distances NOTE It does not take into account either manufacturing tolerances or variations due to external conditions such as voltage and temperature	2.3.1.1 of IEC 60947-5-2: 2007 modified	s_n	mm	REAL_MEASURE_TYPE	NR1..3.1
ACE253	switching element function	output function of a device realised with a switching semiconductor element or a contact element NOTE See 3.4 of IEC 60947-5-2: 2007.				ENUM_STRING_TYPE(ACI050)	X..32
ACE254	type of output	type of technology of the output interface of the device				ENUM_STRING_TYPE(ACI053)	X..32
ACE255	mechanical durability	number of mechanical operation able to be achieved under given conditions of test, until a limiting state is reached				INT_TYPE	NR1..9
ACE256	additional functions	additional functionality of the device				STRING_TYPE	X..256
ACE260	housing or body material	basic material of the housing or the body of the device				ENUM_STRING_TYPE(ACI042)	X..32

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE261	sensing face material	basic material of the front face of the sensor				ENUM_STRING_TYPE(ACI041)	X..32
ACE301	voltage monitoring	ability of continuous or periodic measurement of voltage for determination of the status of the supply voltage				ENUM_BOOLEAN_TYPE(ACI008)	
ACE302	cos(phi) variation detection	ability to detect displacement power factor variation in accordance with specified requirements				ENUM_BOOLEAN_TYPE(ACI008)	
ACE303	under power detection	ability to detect the power magnitude below a predetermined value in accordance with specified requirements				ENUM_BOOLEAN_TYPE(ACI008)	
ACE331	number of analogue inputs	number of analogue sensors able to be connected				INT_TYPE	NR1..2
ACE332	number of digital inputs (current sinking)	number of inputs sensing signals from mechanical contact or from solid-state devices such as two-wire proximity switches				INT_TYPE	NR1..2
ACE333	number of digital outputs	number of 2-state signal outputs which are either mechanical contact or solid-state switch (for example: relay contact, triac, transistor or equivalent)				INT_TYPE	NR1..2
ACE334	number of PTC thermistor inputs	number of analogue inputs intended for positive temperature coefficient sensor				INT_TYPE	NR1..2
ACE335	short-circuit and/or open-circuit detection	ability to detect short-circuited and/or open-circuited measuring circuits				ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE361	communication protocol	set of rules for data transmission in a system interlinking several participants NOTE 1 A protocol may define the conditions for establishing a connection to a transmission medium, the rules governing access to the medium, the procedures for error protection, the functional and procedural means of data exchange, the transport mechanisms, the communication control, the representation of data and the exchange of application data. Protocols define, for example: – data units transferred between participants, – the meaning of data units (semantics), – the format of data units (syntax) and – the logic time sequence of data exchange. NOTE 2 The protocols used in a system may be organized in accordance with the OSI/ISO seven-layer reference model, for example.	IEC 60050-351:2013, 351-56-14 modified			STRING_TYPE	X..32
ACE362	HMI port	availability of communication port dedicated for the connection of a human machine interface for the user				ENUM_BOOLEAN_TYPE(ACI008)	
ACE401	number of poles	number of electrically separated conducting paths of the main circuit of a switching device				INT_TYPE	NR1..1
ACE402	rated operational power, capacitive switching, 575 V, 60 Hz	value of power of the capacitive load that the switching device is intended to control under the specified conditions at a rated operational voltage of 575 V, 60 Hz			kvar	REAL_MEASURE_TYPE	NR2..3.2
ACE403	number of main contacts, normally closed	number of contacts included in the main circuit of a mechanical switching device, intended to carry, in the closed position, the current of the main circuit, for which the force for opening the contacts is provided by an electromagnet				INT_TYPE	NR1..1
ACE404	number of main contacts, normally open	number of contacts included in the main circuit of a mechanical switching device, intended to carry, in the closed position, the current of the main circuit, for which the force for closing the contacts is provided by an electromagnet				INT_TYPE	NR1..1

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE405	rated operational power, AC-6b, 400 V	value of power of the load that the switching device is intended to control under the conditions of utilization category AC-6b at a rated operational voltage of 400 V a.c. NOTE AC-6b, a.c. switching of capacitor banks, is described in IEC 60947-4-1.			kvar	REAL_MEASURE_TYPE	NR2..3.2
ACE406	rated operational power, capacitive switching, 460 V, 60 Hz	value of power of the capacitive load that the switching device is intended to control under the specified conditions at a rated operational voltage of 460 V, 60 Hz			kvar	REAL_MEASURE_TYPE	NR2..3.2
ACE407	rated operational power, DC-1, 440 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-1 at a rated operational voltage of 440 V d.c. NOTE DC-1, d.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE408	rated operational power, DC-3, 440 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-3 at a rated operational voltage of 440 V d.c. NOTE DC-3, d.c. switching of shunt-motor load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE409	rated operational power, DC-5, 440 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-5 at a rated operational voltage of 440 V d.c. NOTE DC-5, d.c. switching of series-motor load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE410	number of protected poles	number of poles protected under overcurrent condition				INT_TYPE	NR1..1
ACE412	rated operational power, AC-3, 230 V	value of power of the load that the switching device is intended to control under the conditions of utilization category AC-3 at a rated operational voltage of 230 V a.c. NOTE 1 AC-3, a.c. squirrel-cage motor starting, switching off motor during running, is described in IEC 60947-4-1. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009. NOTE 3 230 V three phases is used mainly in Japan.			kW	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE413	rated operational power, AC-3, 400 V	value of power of the load that the switching device is intended to control under the conditions of utilization category AC-3 at a rated operational voltage of 400 V a.c. NOTE 1 AC-3, a.c. squirrel-cage motor starting, switching off motor during running, is described in IEC 60947-4-1. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE414	rated operational power, line connected motor, 230 V, 40 °C	value of power of the three-phase motor load connected in star that the switching device is intended to control under the specified conditions at a rated operational voltage of 230 V a.c. and at 40 °C NOTE 1 The conditions are given in IEC 60947-4-2. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009. NOTE 3 230 V three phases is used mainly in Japan.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE415	rated operational power, line connected motor, 400 V, 40 °C	value of power of the three-phase motor load connected in star that the switching device is intended to control under the specified conditions at a rated operational voltage of 400 V a.c. and at 40 °C NOTE 1 The conditions are given in IEC 60947-4-2. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE416	rated operational power, delta connected motor, 230 V, 40 °C	value of power of the three-phase motor load connected in delta that the switching device is intended to control under the specified conditions at a rated operational voltage of 230 V a.c. and at 40 °C NOTE 1 The conditions are given in IEC 60947-4-2. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009. NOTE 3 230 V three phases is used mainly in Japan.			kW	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE417	rated operational power, delta connected motor, 400 V, 40 °C	value of power of the three-phase motor load connected in delta that the switching device is intended to control under the specified conditions at a rated operational voltage of 400 V a.c. and at 40 °C NOTE 1 The conditions are given in IEC 60947-4-2. NOTE 2 Relationship between rated operational powers and rated operational currents of motors are given in Table G.1 of IEC 60947-4-1:2009.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE418	3ph Horsepower rating, 460 V, 60 Hz	value of power of the three-phase motor load that the switching device is intended to control under the specified conditions at a rated operational voltage of 460 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1: 2009.			hp	REAL_MEASURE_TYPE	NR2..3.2
ACE419	3ph Horsepower rating, 575 V, 60 Hz	value of power of the three-phase motor load that the switching device is intended to control under the specified conditions at a rated operational voltage of 575 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1: 2009.			hp	REAL_MEASURE_TYPE	NR2..3.2
ACE420	3ph Horsepower rating, 460 V, 60 Hz, delta connected motor	value of power of the three-phase motor load connected in delta that the switching device is intended to control under the specified conditions at a rated operational voltage of 460 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1: 2009.			hp	REAL_MEASURE_TYPE	NR2..3.2
ACE421	3ph Horsepower rating, 575 V, 60 Hz, delta connected motor	value of power of the three-phase motor load connected in delta that the switching device is intended to control under the specified conditions at a rated operational voltage of 575 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1:2009.			hp	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE422	3ph Horsepower rating, 460 V, 60 Hz, line connected motor	value of power of the three-phase motor load connected in star that the switching device is intended to control under the specified conditions at a rated operational voltage of 460 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1:2009.			hp	REAL_MEASURE_TYPE	NR2..3.2
ACE423	3ph Horsepower rating, 575 V, 60 Hz, line connected motor	value of power of the three-phase motor load connected in star that the switching device is intended to control under the specified conditions at a rated operational voltage of 575 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1:2009.			hp	REAL_MEASURE_TYPE	NR2..3.2
ACE424	rated current	maximum uninterrupted current equal to the conventional free-air thermal current (I_{th})		I_n	A	REAL_MEASURE_TYPE	NR2..5.2
ACE425	rated operational current, DC-1, 440 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-1, at a rated operational voltage of 440 V d.c. NOTE DC-1, d.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE426	rated operational current, DC-22	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-22 NOTE DC-22, d.c. switching of mixed resistive and inductive loads, including moderate overloads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE427	rated operational current, DC-3, 440 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-3, at a rated operational voltage of 440 V d.c. NOTE DC-3, d.c. switching of shunt-motor load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE428	rated operational current, DC-5, 440 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-5, at a rated operational voltage of 440 V d.c. NOTE DC-5, d.c. switching of series-motor load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE429	rated operational current, 400 V	value of current at which the switching device is intended to operate, at a rated operational voltage of 400 V a.c.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE430	rated operational current, 40 °C	value of current at which the switching device is intended to operate, under the specified conditions, at the ambient temperature of 40 °C NOTE Conditions are defined by IEC 60947-4-2 or IEC 60947-4-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE431	rated operational current, AC-1, 400 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-1, at a rated operational voltage of 400 V a.c. NOTE AC-1, a.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE432	rated operational current, AC-22, 400 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-22, at a rated operational voltage of 400 V a.c. NOTE AC-22, a.c. switching of mixed resistive and inductive loads, including moderate overloads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE433	rated operational current, AC-1, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-1, at a rated operational voltage of 230 V a.c. NOTE 1 AC-1, a.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE434	rated operational current, AC-3, 400 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-3, at a rated operational voltage of 400 V a.c. NOTE AC-3, a.c. squirrel-cage motor starting, switching off motor during running, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE435	rated operational current, AC-23, 400 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-23, at a rated operational voltage of 400 V a.c. NOTE AC-23, a.c. switching of motor loads or other highly inductive loads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE436	rated operational current, AC-7a, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-7a, at a rated operational voltage of 230 V a.c. NOTE 1 AC-7a, a.c. switching of slightly inductive load, is described in IEC 61095. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE437	rated operational current, AC-7b, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-7b, at a rated operational voltage of 230 V a.c. NOTE 1 AC-7b, a.c. switching of motor load, is described in IEC 61095. NOTE 2 230 V three phases is used mainly in Japan.			A	REAL_MEASURE_TYPE	NR2..5.2
ACE438	conventional free air thermal current	maximum current carried continuously by unenclosed equipment in free air without the temperature rise of the various parts exceeding the limits specified		I_{th}	A	REAL_MEASURE_TYPE	NR2..5.2
ACE439	conventional enclosed thermal current	current stated by the manufacturer used for the temperature-rise tests of the equipment when mounted in a specified enclosure		I_{the}	A	REAL_MEASURE_TYPE	NR2..5.2
ACE440	ambient air temperature	operating temperature limits, determined under prescribed conditions, of the air surrounding the complete switching device			°C	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..2.1
ACE442	rated operational current, AC-3, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-3, at a rated operational voltage of 230 V a.c. NOTE 1 AC-3, a.c. squirrel-cage motor starting, switching off motor during running, is described in IEC 60947-4-1. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE443	1ph Horsepower rating, 120 V, 60 Hz	value of power of the single-phase motor load that the switching device is intended to control under the specified conditions at a rated operational voltage of 120 V 60 Hz NOTE Relationship between a rated operational power and a rated operational current of a motor is given in Table G.1 of IEC 60947-4-1: 2009.			hp	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE444	rated voltage	voltage assigned by the manufacturer for a specified operating condition of an accessory	IEC 60050-442: 1998, 442-01-03 modified		V	LEVEL(MAX) OF INT_MEASURE_TYPE	NR1..4
ACE447	number of mechanical operating cycles	number of no-load operating cycles without impairing the specified performance of the device				INT_TYPE	NR1..9
ACE450	rated power dissipation of a fuse terminal block	maximum permissible value with which the fuse terminal block can be continuously loaded by the cartridge fuse-link under specified conditions NOTE 1 This value is given for the worst case condition: for the overload and short-circuit protections and in compound arrangement of fuse terminal blocks. NOTE 2 The “Maximum sustained power dissipation” of a fuse-link is given in IEC 60127-1.	2.7 of IEC 60947-7-3: 2009 modified		W	REAL_MEASURE_TYPE	NR1..2.1
ACE451	signal indicator	device associated with a switch to indicate the circuit state visually NOTE The device may or may not be controlled by the switch.	3.1.17 of IEC 61058-1: 2000			ENUM_BOOLEAN_TYPE(ACI008)	
ACE452	characteristic of the fuse-link	code composed of one or more letters: the breaking range followed by the utilization category, and if needed, the time delay class EXAMPLE gG, aM, gN class J ,gN class CC				STRING_TYPE	X..32
ACE453	fuse system	family of fuses following the same physical design principles with respect to the shape of the fuse-links, type of contact, etc. EXAMPLE NH, BS, NF, H				STRING_TYPE	X..32
ACE454	size of the fuse-link	specified set of dimensions of fuses within a fuse system, each individual size covering a given range of rated currents for which the specified dimensions of the fuses remain unchanged EXAMPLE 00, 10 × 38 mm, 0,405 × 1,5 in				STRING_TYPE	X..32
ACE455	rated operational voltage	range of voltage combined with a rated operational current intended to be switched by the device under specified conditions		U_e	V	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR2..4.2
ACE457	rated operational voltage, a.c.	maximum value of the a.c. voltage at which the switching device is intended to operate		U_e	V	LEVEL(MAX) OF INT_MEASURE_TYPE	NR2..4.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE459	rated operational voltage, DC-22	maximum value of the d.c. voltage at which the switching device is intended to operate under the condition of the utilisation category DC-22 NOTE DC-22, d.c. switching of mixed resistive and inductive loads, including moderate overloads (e.g. shunt motors), is described in IEC 60947-3.		U_e	V	LEVEL(MAX) OF INT_MEASURE_TYPE	NR2..4.2
ACE460	rated impulse withstand voltage	value stated for the transient overvoltage occurring in the circuit in which the equipment is fitted		U_{imp}	kV	REAL_MEASURE_TYPE	NR2..2.1
ACE463	category of operating cycles	additional letter to the utilisation category code giving the distinction between frequent (A) and infrequent operation (B) NOTE See IEC 60947-3.				ENUM_STRING_TYPE(ACI062)	X..2
ACE464	rated operational power, AC-6b, 230 V	value of power of the load that the switching device is intended to control under the conditions of utilization category AC-6b at a rated operational voltage of 230 V a.c. NOTE 1 AC-6b, a.c. switching of capacitor banks, is described in IEC 60947-4-1. NOTE 2 230 V three phases is used mainly in Japan.			kvar	REAL_MEASURE_TYPE	NR2..3.2
ACE465	rated operational power, DC-1, 220 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-1 at a rated operational voltage of 220 V d.c. NOTE DC-1, d.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE466	rated operational power, DC-5, 220 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-5 at a rated operational voltage of 220 V d.c. NOTE DC-5, d.c. switching of series-motor load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE467	rated operational current, DC-1, 220 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-1, at a rated operational voltage of 220 V d.c. NOTE DC-1, d.c. switching of non-inductive or slightly inductive load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE468	rated operational current, DC-3, 220 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-3, at a rated operational voltage of 220 V d.c. NOTE DC-3, d.c. switching of shunt-motor load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE469	rated operational current, DC-5, 220 V	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-5, at a rated operational voltage of 220 V d.c. NOTE DC-5, d.c. switching of series-motor load, is described in IEC 60947-4-1.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE470	rated operational power, DC-3, 220 V	value of power of the load that the switching device is intended to control under the conditions of utilization category DC-3 at a rated operational voltage of 220 V d.c. NOTE DC-3, d.c. switching of shunt-motor load, is described in IEC 60947-4-1.			kW	REAL_MEASURE_TYPE	NR2..3.2
ACE471	rated operational current, AC-21, 400 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-21, at a rated operational voltage of 400 V a.c. NOTE AC-21, a.c. switching of resistive load, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE472	rated operational current, AC-21, 690 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-21, at a rated operational voltage of 690 V a.c. NOTE AC-21, a.c. switching of resistive load, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE473	rated operational current, AC-22, 690 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-22, at a rated operational voltage of 690 V a.c. NOTE AC-22, a.c. switching of mixed resistive and inductive loads, including moderate overloads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE474	rated operational current, AC-23, 690 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-23, at a rated operational voltage of 690 V a.c. NOTE AC-23, a.c. switching of motor loads or other highly inductive loads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE475	rated operational voltage, AC-22	maximum value of the a.c. voltage at which the switching device is intended to operate under the condition of the utilisation category AC-22 NOTE AC-22, a.c. switching of mixed resistive and inductive loads, including moderate overloads, is described in IEC 60947-3.		U_e	V	LEVEL(MAX) OF INT_MEASURE_TYPE	NR1..4
ACE476	rated operational current, AC-21, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-21, at a rated operational voltage of 230 V a.c. NOTE 1 AC-21, a.c. switching of resistive load, is described in IEC 60947-3. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE477	rated operational current, AC-22, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-22, at a rated operational voltage of 230 V a.c. NOTE 1 AC-22, a.c. switching of mixed resistive and inductive loads, including moderate overloads, is described in IEC 60947-3. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE478	rated operational current, AC-23, 230 V	value of current at which the switching device is intended to operate, under the conditions of utilization category AC-23, at a rated operational voltage of 230 V a.c. NOTE 1 AC-23, a.c. switching of motor loads or other highly inductive loads, is described in IEC 60947-3. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE479	rated operational current, DC-21	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-21 NOTE DC-21, d.c. switching of resistive loads including moderate overloads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE480	rated operational voltage, DC-21	maximum value of the d.c. voltage at which the switching device is intended to operate under the condition of the utilisation category DC-21 NOTE DC-21, d.c. switching of resistive loads including moderate overloads, is described in IEC 60947-3.		I_e	A	LEVEL(MAX) OF REAL_MEASURE_TYPE	NR2..5.2
ACE481	rated operational current, DC-23	value of current at which the switching device is intended to operate, under the conditions of utilization category DC-23 NOTE DC-23, d.c. switching of highly inductive loads, is described in IEC 60947-3.		I_e	A	REAL_MEASURE_TYPE	NR2..5.2
ACE482	rated operational voltage, DC-23	maximum value of the d.c. voltage at which the switching device is intended to operate under the condition of the utilisation category DC-23 NOTE DC-23, d.c. switching of highly inductive loads, is described in IEC 60947-3.		I_e	A	LEVEL(MAX) OF REAL_MEASURE_TYPE	NR2..5.2
ACE501	rated operational current, AC-12	value of current at which the contact is intended to operate, under the conditions of utilization category AC-12 NOTE AC-12, a.c. control of resistive loads and solid state loads with isolation by optocouplers, is described in IEC 60947-5-1.		I_e	A	REAL_MEASURE_TYPE	NR2..2.2
ACE502	rated operational current, AC-15, 230 V	value of current at which the contact is intended to operate, under the conditions of utilization category AC-15, at a rated operational voltage of 230 V a.c. NOTE 1 AC-15, a.c. control of small electromagnetic loads, are described in IEC 60947-5-1. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..2.2
ACE503	rated operational current, DC-13, 24 V	value of current at which the contact is intended to operate, under the conditions of utilization category DC-13, at a rated operational voltage of 24 V d.c. NOTE DC-13, d.c. control of electromagnets, is described in IEC 60947-5-1.		I_e	A	REAL_MEASURE_TYPE	NR2..2.2
ACE504	contact rating designation, a.c.	electrical ratings based on a rated conventional enclosed thermal current, a maximum operational voltage and a.c. utilization categories NOTE See Annex A of IEC 60947-5-1: 2003.				STRING_TYPE	M..4

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE505	contact rating designation, d.c.	electrical ratings based on a rated conventional enclosed thermal current, a maximum operational voltage and d.c. utilization categories NOTE See Annex A of IEC 60947-5-1: 2003.				STRING_TYPE	M..4
ACE506	rated operational current of low energy contact, d.c., minimum	value of the minimum d.c. current associated with declared reliability data at which the contact is intended to operate at the specified rated operational voltage NOTE See IEC 60947-5-4.			mA	ENUM_INT_TYPE(ACI105)	NR1..3
ACE507	rated operational voltage of low energy contact, d.c.	value of the d.c. voltage associated with declared reliability data at which the contact is intended to operate at the specified rated operational current NOTE See IEC 60947-5-4.			V	ENUM_INT_TYPE(ACI102)	NR1..2
ACE508	number of auxiliary contacts, normally closed	number of contact elements, included in a control circuit or in an auxiliary circuit and mechanically operated by the switching device, which open when actuated				INT_TYPE	NR1..2
ACE509	number of auxiliary contacts, normally closed, additional	maximum number of contact elements, included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, available as options				INT_TYPE	NR1..2
ACE510	number of contacts, normally closed, late break	number of contact elements, included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, which open with a delay when actuated				INT_TYPE	NR1..2
ACE511	number of auxiliary contacts, normally open	number of contact elements, included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, which close when actuated				INT_TYPE	NR1..2
ACE512	number of auxiliary contacts, normally open, additional	maximum number of contact elements, included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, which close when actuated, available as options				INT_TYPE	NR1..2
ACE513	number of contacts, normally open, early make	number of contact elements, included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, which close before any normally open contact				INT_TYPE	NR1..2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE514	number of auxiliary contacts, changeover	number of contact element combinations included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, each combination including one make contact element and one break contact element				INT_TYPE	NR1..2
ACE515	number of auxiliary contacts, changeover, additional	maximum number of contacts element combinations included in a control circuit or an auxiliary circuit and mechanically operated by the switching device or the actuator, available as options, each combination including one make contact element and one break contact element				INT_TYPE	NR1..2
ACE516	contact element action type	type of driving a contact element of a control device in which the velocity of contact motion is dependent or not of the velocity of motion of the actuator NOTE See 2.3.3.8 and 2.3.3.9 of IEC 60947-5-1: 2003.				ENUM_STRING_TYPE(ACI051)	X..64
ACE517	number of electrical operating cycles	number of on-load operating cycles which will be attained or exceeded by 90 % of all devices tested, without repair or replacement of any part				INT_TYPE	NR1..8
ACE518	number of contacts, normally closed	number of contact elements which open when actuated				INT_TYPE	NR1..2
ACE519	number of contacts, normally open	number of contact elements which close when actuated				INT_TYPE	NR1..2
ACE520	number of contacts, changeover	number of contact element combinations, each combination including one make-contact element and one break contact element				INT_TYPE	NR1..2
ACE521	motor-operator closing time	time elapsed between the energisation of the motor operator and the closing of the main contacts of the device			s	REAL_MEASURE_TYPE	NR2..2.2
ACE522	motor-operator opening time	time elapsed between the energisation of the motor operator and the opening of the main contacts of the device			s	REAL_MEASURE_TYPE	NR2..2.2
ACE531	supply voltage limit	range of supply voltage of a device including supply tolerances, from the lower limit to the upper limit NOTE See 4.3.1.1 of IEC 60947-5-2: 2007.		U_B	V	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR1..3.1
ACE532	rated supply frequency	frequency of the supply assigned to a device by the manufacturer for a specified operating condition		f		ENUM_STRING_TYPE(ACI104)	X..32

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE533	rated operational current, a.c.	range of current combined with an a.c. rated operational voltage intended to be switched by the device under specified conditions NOTE See IEC 60947-5-2: 2007.		I_e	mA	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..5
ACE534	rated operational current, d.c.	range of current combined with an d.c. rated operational voltage intended to be switched by the device under specified conditions NOTE See IEC 60947-5-2: 2007.		I_e	mA	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..5
ACE536	indicator light with a built-in voltage-reducing device	indicator light, the body of which contains a device (transformer, resistor, etc.) intended to supply, at the terminals of a lamp, a voltage different from the rated operational voltage of the light	J.2.4 of IEC 60947-5-1:2003			ENUM_BOOLEAN_TYPE(ACI008)	
ACE537	OFF-state current	current which flows through the load circuit of the proximity switch in the OFF-state	2.4.5.1 of IEC 60947-5-2:2007	I_r	mA	REAL_MEASURE_TYPE	NR1..2.2
ACE538	ON-state current, minimum	minimum current necessary to maintain the ON-state conduction of the switching element	2.4.5.2 of IEC 60947-5-2:2007 modified	I_m	mA	LEVEL(MIN) OF REAL_MEASURE_TYPE	NR1..3.1
ACE539	voltage drop	voltage measured across the switching element when carrying the operational current under specified conditions	4.3.1.4 of IEC 60947-5-2:2007 modified	U_d	V	REAL_MEASURE_TYPE	NR1..2.1
ACE540	overload and short circuit protected output	whether the device output is protected against overload and short-circuits of the connected load				ENUM_BOOLEAN_TYPE(ACI008)	
ACE541	rated operational current, AC-14, 230 V	value of current at which the contact is intended to operate, under the conditions of utilization category AC-14, at a rated operational voltage of 230 V a.c. NOTE 1 AC-14, small electromagnetic loads, are described in IEC 60947-5-1. NOTE 2 230 V three phases is used mainly in Japan.		I_e	A	REAL_MEASURE_TYPE	NR2..2.2
ACE601	kind of current	kind of electric current supply				ENUM_STRING_TYPE(ACI103)	X..16
ACE602	rated control voltage, a.c., 50 Hz	range of r.m.s. rated voltage at the frequency of 50 Hz applied to the control circuit or its supply		U_c	V	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..4
ACE604	rated control voltage, a.c., 60 Hz	range of r.m.s. rated voltage at the frequency of 60 Hz applied to the control circuit or its supply		U_c	V	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..4

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE606	rated control voltage, d.c.	range of d.c. rated voltage applied to the control circuit or its supply		U_c	V	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..4
ACE608	compatible with PLC outputs	rated control supply voltage and current of the device compatible with the digital output characteristics of a PLC				ENUM_BOOLEAN_TYPE(ACI008)	
ACE621	actuator return type	behaviour of the actuator when the external actuating force is released				ENUM_STRING_TYPE(ACI014)	X..32
ACE622	mounting of the button	type of mounting depending on the levels of a button in its initial and operated positions compared with the adjacent fixed surrounding surface NOTE See 2.3.4.1 of IEC 60947-5-1: 2003.				ENUM_STRING_TYPE(ACI015)	X..32
ACE623	front shape of the actuator	geometry from the front face view of the part of the actuating system to which an external actuating force is applied	derived from IEC 60050-441:1984, 441-15-22			ENUM_STRING_TYPE(ACI070)	X..32
ACE624	number of selectable positions	number of steps in which the handle can be positioned				INT_TYPE	NR1..1
ACE625	colour of the actuator	colour of the part of the actuating system to which an external actuating force is applied	derived from IEC 60050-441:1984, 441-15-22			ENUM_STRING_TYPE(ACI020)	X..32
ACE626	mounting hole size	diameter of the mounting hole supporting the device			mm	ENUM_INT_TYPE(ACI085)	NR1..2
ACE627	bezel material	material of the holder of a lens	derived from J.2.3 of IEC 60947-5-1:2003			ENUM_STRING_TYPE(ACI042)	X..32
ACE628	colour of the bezel	colour of the holder of a lens	derived from J.2.3 of IEC 60947-5-1:2003			ENUM_STRING_TYPE(ACI021)	X..32
ACE629	unlatching method	method to release the actuator from the latched position				ENUM_STRING_TYPE(ACI016)	X..32
ACE630	colour of the lens	colour of the optical device able to transform ideal plane waves into spherical waves, based on the refraction	2.6.80 of IEC 61931: 1998 modified			ENUM_STRING_TYPE(ACI023)	X..32
ACE631	mounting of the lens	type of mounting depending on the level of a lens compared with the adjacent surrounding surface				ENUM_STRING_TYPE(ACI082)	X..32
ACE632	possibility to be illuminated	capability of the actuator to be equipped with a light				ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE633	type of lamp	nature of the light technology				ENUM_STRING_TYPE(ACI068)	X..32
ACE634	key withdrawal position	position of the selector where the key is free to be removed				ENUM_STRING_TYPE(ACI017)	X..32
ACE635	number of actuators	number of parts of the actuating system to which an external actuating force can be applied	derived from IEC 60050-441:1984, 441-15-22			INT_TYPE	NR1..1
ACE636	actuator marking	logo, inscription, graphical symbol, pictogram, tactile indicator, warning sign on the product to identify its type or to give directive NOTE Marking may also include short textual messages.	3.24 of IEC 82079-1:2012			ENUM_STRING_TYPE(ACI028)	X..32
ACE637	colour of the device body	colour of the housing of the device				ENUM_STRING_TYPE(ACI021)	X..32
ACE638	blinking light	intensity of the light intentionally and periodically changed				ENUM_BOOLEAN_TYPE(ACI008)	
ACE639	sound signalling device	device which emits an audible sound when activated				ENUM_STRING_TYPE(ACI069)	X..32
ACE640	sound pressure level	ten times the logarithm to the base 10 of the ratio of the time-mean-square of a sound pressure signal to the square of the reference value NOTE 1 Sound pressure level is expressed in decibels (dB). NOTE 2 The reference value is 20 μPa.	3.2 of IEC 61672-1:2013	L_p	dB	INT_MEASURE_TYPE	NR1..3
ACE641	actuating motion	direction of displacement of the actuating system				ENUM_STRING_TYPE(ACI013)	X..32
ACE642	position switch actuator	form of the part of the actuating system to which an external actuating force is applied	derived from IEC 60050-441:1984, 441-15-22			ENUM_STRING_TYPE(ACI012)	X..32
ACE643	front element material type	basic material of the front part of the device				ENUM_STRING_TYPE(ACI042)	X..32
ACE644	actuator end material	material of the part of the actuator in contact with the object to detect	derived from IEC 60050-441:1984, 441-15-22			ENUM_STRING_TYPE(ACI043)	X..32

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE645	width of the actuator	the largest front dimension of the part of the actuating system to which an external actuating force is applied NOTE Value given when it exceeds the mounting hole size.	derived from IEC 60050-441:1984, 441-15-22		mm	INT_MEASURE_TYPE	NR1..3
ACE646	indicating tower colours combination	set of colours for multi-module indicating device				ENUM_STRING_TYPE(ACI022)	X..32
ACE649	number of signal lights	number of indicator lights integrated within the device				INT_TYPE	NR1..1
ACE650	type of lamp socket	standardized base which mechanically supports a lamp for the purposes of making electrical contact with the lamp				ENUM_STRING_TYPE(ACI038)	X..32
ACE651	with lamp	lamp provided with the device				ENUM_BOOLEAN_TYPE(ACI008)	
ACE652	lens front shape	external shape of the front view of the lens				ENUM_STRING_TYPE(ACI071)	
ACE653	with integral LED	LED integrated within the device and irremovable				ENUM_BOOLEAN_TYPE(ACI008)	
ACE654	diameter of the roller	geometric diameter of circular cross section of a roller at the actuator end			mm	INT_MEASURE_TYPE	NR1..3
ACE655	direct opening action	ability to achieve a contact separation as the direct result of a specified movement of the switch actuator through non-resilient members (for example not dependent upon springs)	K.2.2 of IEC 60947-5-1:2003 modified			ENUM_BOOLEAN_TYPE(ACI008)	
ACE700	interrupting rating, a.c., 120 V	the highest RMS symmetrical current at a rated voltage of 120 V a.c. that a device is intended to interrupt under standard test conditions			kA	REAL_MEASURE_TYPE	NR2..3.2
ACE701	rated service short-circuit breaking capacity, a.c., 400 V	value of the breaking capacity at a rated operational voltage of 400 V a.c., for which a specified test sequence includes the capability of the circuit-breaker to carry its rated current continuously, corresponding to one of the specified percentages of the rated ultimate short-circuit breaking capacity		I_{cs}	%	INT_MEASURE_TYPE	NR1..3
ACE702	rated ultimate short-circuit breaking capacity, a.c., 400 V	value of the prospective breaking current at a rated operational voltage of 400 V a.c., for which a specified test sequence do not include the capability of the circuit-breaker to carry its rated current continuously		I_{cu}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE703	interrupting rating, a.c., 480 V	the highest RMS symmetrical current at a rated voltage of 480 V a.c. that a device is intended to interrupt under standard test conditions			kA	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE704	interrupting rating, a.c., 600 V	the highest RMS symmetrical current at a rated voltage of 600 V a.c. that a device is intended to interrupt under standard test conditions			kA	REAL_MEASURE_TYPE	NR2..3.2
ACE705	rated conditional short-circuit current, type 2, a.c., 400 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device; type 2: under short-circuit conditions, the contactor or starter shall be suitable for further use; at the given rated operational voltage of 400 V a.c.		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE706	rated conditional short-circuit current, type 1, 480 Y/277 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device; type 1: under short-circuit conditions, the contactor or starter shall cause no danger to persons or installation and may not be suitable for further service without repair and replacement of parts at the given rated operational voltage of 480 Y/277 V		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE707	rated conditional short-circuit current, type 1, 600 Y/347 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device; type 1: under short-circuit conditions, the contactor or starter shall cause no danger to persons or installation and may not be suitable for further service without repair and replacement of parts at the given rated operational voltage of 600 Y/347 V		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE708	rated conditional short-circuit current, a.c., 400 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device at the given rated operational voltage of 400 V a.c.		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE709	rated conditional short-circuit current, type 2, a.c., 230 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device; type 2: under short-circuit conditions, the contactor or starter shall be suitable for further use at the given rated operational voltage of 230 V a.c.		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE712	rated short-time withstand current, a.c., 1 s	value of short-time withstand current a.c., assigned to the equipment, that the equipment can carry without damage, under the test conditions		I_{cw}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE713	short-circuit current rating, 480 Y/277 V	maximum r.m.s. prospective (available) current of a circuit to which a device can be connected at a rated voltage of 480 Y/277 V			kA	REAL_MEASURE_TYPE	NR2..3.2
ACE714	short-circuit current rating, 600 Y/347 V	maximum r.m.s. prospective (available) current of a circuit to which a device can be connected at a rated voltage of 600 Y/347 V			kA	REAL_MEASURE_TYPE	NR2..3.2
ACE715	rated service short-circuit breaking capacity, a.c., 230 V	value of the breaking capacity for the rated operational voltage of 230 V a.c., for which a specified test sequence includes the capability of the circuit-breaker to carry its rated current continuously, corresponding to one of the specified percentages of the rated ultimate short-circuit breaking capacity		I_{cs}	%	INT_MEASURE_TYPE	NR1..3
ACE716	rated ultimate short-circuit breaking capacity, a.c., 230 V	value of the prospective breaking current for the rated operational voltage of 230 V a.c., for which a specified test sequence do not include the capability of the circuit-breaker to carry its rated current continuously		I_{cu}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE717	rated ultimate short-circuit breaking capacity, a.c., 690 V	value of the prospective breaking current for the rated operational voltage of 690 V a.c., for which a specified test sequence do not include the capability of the circuit-breaker to carry its rated current continuously		I_{cu}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE718	rated service short-circuit breaking capacity, a.c., 690 V	value of the breaking capacity for the rated operational voltage of 690 V a.c., for which a specified test sequence includes the capability of the circuit-breaker to carry its rated current continuously, corresponding to one of the specified percentages of the rated ultimate short-circuit breaking capacity		I_{cu}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE721	rated operational voltage for IT systems	maximum value of the rated operational voltage for which the device is suitable for use on IT systems			V	ENUM_INT_TYPE(ACI101)	NR1..4
ACE722	rated conditional short-circuit current, a.c., 230 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device at the given rated operational voltage of 230 V		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE723	rated conditional short-circuit current, a.c., 690 V	value of prospective current that a circuit or a switching device, protected by a short-circuit protective device, can satisfactorily withstand for the operating time of this device at the given rated operational voltage of 690 V		I_q	kA	REAL_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE724	rated short-circuit making capacity, a.c., 230 V	short-circuit making capacity assigned to an equipment for the rated operational voltage of 230 V, at rated frequency and at a specified power-factor, expressed as the maximum prospective peak current, under prescribed conditions		I_{cm}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE725	rated short-circuit making capacity, a.c., 400 V	short-circuit making capacity assigned to an equipment for the rated operational voltage of 400 V, at rated frequency and at a specified power-factor, expressed as the maximum prospective peak current, under prescribed conditions		I_{cm}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE726	rated short-circuit making capacity, a.c., 690 V	short-circuit making capacity assigned to an equipment for the rated operational voltage of 690 V, at rated frequency and at a specified power-facto, expressed as the maximum prospective peak current, under prescribed conditions		I_{cm}	kA	REAL_MEASURE_TYPE	NR2..3.2
ACE739	thermal memory	ability of an overload protection for which the thermal time/current characteristic is not reset after the interruption of the current NOTE See IEC 60947-4-1.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE740	overcurrent release technology	technology, either magnetic, thermal-magnetic or electronic, used to provide the overcurrent release function				ENUM_STRING_TYPE(ACI091)	X..32
ACE741	overload release current setting	limits of the setting range of the over-current release			A	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..5.2
ACE742	overload release capability	overload release present or not and adjustable or fixed				ENUM_STRING_TYPE(ACI092)	X..32
ACE743	reference ambient temperature of compensated release	ambient temperature on which the time-current characteristic is based for a compensated release			°C	ENUM_STRING_TYPE(ACI100)	X..32
ACE744	reference temperature of non-compensated release	ambient temperature on which the time-current characteristic is based for a non-compensated release			°C	ENUM_STRING_TYPE(ACI100)	X..32
ACE745	overload current setting of the neutral pole	ratio of the overload current setting of the neutral pole to the overload current setting of the phase poles				ENUM_STRING_TYPE(ACI095)	X..32
ACE746	short-time delay release	over-current release intended to operate at the end of a short-time delay NOTE See 2.5.26 of IEC 60947-1:2007.	2.12 of IEC 60947-2:2006 modified			ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE747	instantaneous short-circuit current setting	limit of the setting range of the current causing the operation of a release without any intentional time-delay		I_i	A	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..5.2
ACE748	temperature compensated overload protection	availability of an overload protection for which the time/current characteristic deviation due to temperature variations is limited NOTE See IEC 60947-4-1.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE749	sensitive to phase loss	availability of multipole overload protection which operates in case of loss of phase NOTE See IEC 60947-4-1.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE750	residual current release	protection against the effects of electric shock hazards				ENUM_STRING_TYPE(ACI007)	
ACE751	residual current protection type	operating characteristics in case of an earth fault current in the presence or absence of a d.c. component				ENUM_STRING_TYPE(ACI096)	X..2
ACE752	rated operational voltage of the residual current release, limits	limit of the rated operational voltage for circuit-breakers providing residual current protection functionally dependent on line voltage			V	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR1..4
ACE753	residual operating current setting	limit of the setting range of the r.m.s. value of a sinusoidal residual operating current at which the release operates		$I_{\Delta n}$	A	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..3.3
ACE755	residual current time-delay setting	limit of the setting range of the limiting non-actuating time corresponding to the residual current value of $2 \times I_{\Delta n}$		Δt	s	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..2.2
ACE756	functionally dependant on line voltage	device for which the functions of detection and/or evaluation, and/or the actuating means of interruption depend on the line voltage NOTE It is understood that the line voltage for detection, evaluation or interruption is applied to the device.	B.2.3.3 of IEC 60947-2:2006 modified			ENUM_BOOLEAN_TYPE(ACI008)	
ACE760	ground fault current release	release intended to operate in case of a current due to an insulation fault, above a predetermined threshold, flowing to ground or earth	derived from B.2.1.1 of IEC 60947-2:2006			ENUM_BOOLEAN_TYPE(ACI008)	
ACE761	ground fault current setting	limits of the setting range of the ground fault current release		I_g	A	LEVEL(MIN,MAX) OF REAL_MEASURE_TYPE	NR2..5.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE801	height of the device	conventional value of the height including connectors and terminals, without accessory and cable NOTE See Figure 1			mm	INT_MEASURE_TYPE	NR1..4
ACE802	width of the device	conventional value of the width including connectors and terminals, without accessory and cable NOTE See Figure 2			mm	INT_MEASURE_TYPE	NR1..4
ACE803	length of the device	conventional value of the length or depth including connectors and terminals, without accessory and cable NOTE See Figure 3			mm	INT_MEASURE_TYPE	NR1..4
ACE804	mounting onto standard rails	capability of the device to be mounted onto standard rails NOTE See IEC 60715.				ENUM_BOOLEAN_TYPE(ACI008)	
ACE805	panel mounting	capability of the device to be mounted on a panel				ENUM_BOOLEAN_TYPE(ACI008)	
ACE806	door mounting	capability of the device to be mounted on a door				ENUM_BOOLEAN_TYPE(ACI008)	
ACE807	mounting of the auxiliary block	how to attach or integrate the block to the device				ENUM_STRING_TYPE(ACI080)	
ACE808	product mass	value of the mass of the product with all fixed parts NOTE Without packaging and accessories.			g	REAL_MEASURE_TYPE	NR2..3.2
ACE810	diameter of the device	diameter of circular cross section of the device			mm	INT_MEASURE_TYPE	NR1..4
ACE811	mounting position of the sensor	condition of mounting position of the sensor related to its sensing side				ENUM_STRING_TYPE(ACI081)	X..32
ACE812	housing standard	standardized dimensions, fixing points and characteristics				ENUM_STRING_TYPE(ACI073)	X..32
ACE813	housing construction	basic exterior form of the device				ENUM_STRING_TYPE(ACI072)	X..32
ACE814	mounting of the device	type of mounting of the device on a support				ENUM_STRING_TYPE(ACI087)	X..32
ACE815	closing plate required	mounting of an additional side cover necessary for completing the assembly				ENUM_BOOLEAN_TYPE(ACI008)	

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE850	clamping unit	the part(s) of the terminal necessary for the mechanical clamping and the electrical connection of the conductor(s), including the parts which are necessary to ensure the correct contact pressure	3.1 of IEC 60999-1:1999			ENUM_STRING_TYPE(ACI033)	X..32
ACE851	clamping unit, second type	the part(s) of the terminal necessary for the mechanical clamping and the electrical connection of the conductor(s), including the parts which are necessary to ensure the correct contact pressure, second type integrated in the device	derived from 3.1 of IEC 60999-1:1999			ENUM_STRING_TYPE(ACI033)	X..32
ACE852	clamping unit of main circuit	type of electrical connection of the main circuit of a device to the conductor suitable for the intended use	derived from 3.1 of IEC 60999-1:1999			ENUM_STRING_TYPE(ACI032)	X..64
ACE853	plug-in terminal for auxiliary and/or control circuits	electrical connection and disconnection of a terminal that can be performed without displacing the conductors of the corresponding circuit				ENUM_BOOLEAN_TYPE(ACI008)	
ACE855	disconnecting method	construction type enabling the device to be disconnected from the main circuit or to be removed				ENUM_STRING_TYPE(ACI039)	X..32
ACE856	electrical connection of the sensor	physical design of the electrical connection from the body of the sensor to the conductor suitable for the intended use				ENUM_STRING_TYPE(ACI030)	X..32
ACE857	cable length	value of the length of the electrical connecting cable			m	REAL_MEASURE_TYPE	NR1..2.1
ACE858	plug-in unit	unit which plugs into a rack and supported by guides NOTE Plug-in units can be of various types, ranging from a printed board with components inserted, to a frame or box-type unit designed with a plug-in connection.	IEC 60050-581:2008, 581-25-04			ENUM_BOOLEAN_TYPE(ACI008)	
ACE859	cable sheath material	material of the tubular covering of the cable				ENUM_STRING_TYPE(ACI040)	X..32
ACE862	rated cross-section	value of the maximum cross-section of all connectable types of conductors, rigid (solid and stranded) and flexible, stated by the manufacturer, and to which certain thermal, mechanical and electrical requirements are referred	2.2 of IEC 60947-7-1:2009		mm²	REAL_MEASURE_TYPE	NR2..3.2
ACE865	cross-section of flexible conductor	range of the cross-sections of connectable flexible conductors, stated by the manufacturer, and to which some mechanical and electrical requirements are referred by the performed tests	derived from 2.2 of IEC 60947-7-1:2009		mm²	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR2..3.2

Property ID	Preferred name	Definition	Source	Symbol	Unit	Data type	Value format
ACE867	cross-section of rigid conductor	range of the cross-sections of connectable rigid conductors, stated by the manufacturer, and to which some mechanical and electrical requirements are referred by the performed tests	derived from 2.2 of IEC 60947-7-1:2009		mm²	LEVEL(MIN,MAX) OF INT_MEASURE_TYPE	NR2..3.2
ACE869	connection orientation	orientation of the wire connection compared to the mounting surface of the device				ENUM_STRING_TYPE(ACI036)	X..32
ACE870	position of the connection of the main circuit	orientation of the main circuit connections when the device is in preferred position of use				ENUM_STRING_TYPE(ACI035)	X..32
ACE872	number of clamping units	total number of clamping units supported by the terminal assembly				INT_TYPE	NR1..1
ACE874	number of separate circuits	number of independent conductive paths of the device				INT_TYPE	NR1..1
ACE875	number of cable entries	number of openings in the housing necessary for the electrical connection				INT_TYPE	NR1..1
ACE876	size of cable entries	mechanical characteristic of the opening in the housing necessary for the electrical connection				ENUM_STRING_TYPE(ACI084)	X..32
ACE877	number of wiring terminals	number of conductive parts of a device provided for electrical connection to external circuits				ENUM_STRING_TYPE(ACI037)	X..32
ACE901	product standard	reference to one or more standards to which the product complies				STRING_TYPE	X..32
ACE902	certificates and approvals	certificate for which it is confirmed that the product corresponds to the significant technical specifications and is subjected to a factory-internal production control				STRING_TYPE	X..64
ACE903	environmental declaration	availability of data providing quantified environmental data using predetermined parameters and, where relevant, additional environmental information NOTE See ISO 14025.				ENUM_BOOLEAN_TYPE(ACI008)	

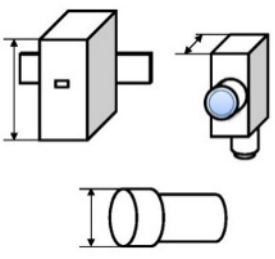

Figure 1 – Height of the device

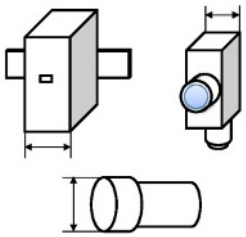

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Figure 2 – Width of the device

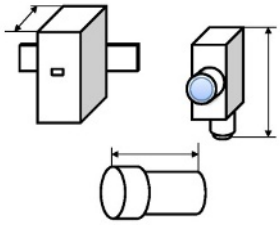

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Figure 3 – Length of the device

Table 47 – Value lists of properties

Enum. ID	Preferred name	Value list	Source
ACI001	IP code of the device	IP00, IP01, IP02, IP10, IP11, IP12, IP20, IP21, IP22, IP30, IP31, IP32, IP33, IP40, IP41, IP42, IP43, IP44, IP45, IP50, IP51, IP52, IP53, IP54, IP55, IP56, IP57, IP58, IP60, IP61, IP62, IP63, IP64, IP65, IP66, IP67, IP68, IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X	IEC 60529:1989
ACI003	IP code of terminals	IP00, IP01, IP02, IP10, IP11, IP12, IP20, IP21, IP22, IP30, IP31, IP32, IPX1, IPX2, IP1X, IP2X, IP3X	IEC 60529:1989
ACI005	IK code	IK00, IK01, IK02, IK03, IK04, IK05, IK06, IK07, IK08, IK09, IK10	IEC 62262:2002
ACI006	electric shock protection class	protection Class I, protection Class II, protection Class III	
ACI007	integrated feature	integrated, optional, not possible	
ACI008	alternative yes or no	yes, no	
ACI010	starter type	direct-on-line starter, star-delta starter, reversing starter, two-step starter, other type	
ACI011	type of switch actuator	direct (front) rotary handle, door coupling rotary handle, left or right side rotary handle, push button, toggle, key, short thumb-grip, long turning handle, turn button (knob)	
ACI012	position switch actuator	roller lever, rounded plunger, roller plunger, rollers fork lever, spring rod, rod lever, other actuator, without actuator	
ACI013	actuating motion	rotary, linear, multi-directional	
ACI014	actuator return type	spring return, latching, stay put, spring return to centre, spring return from right to left, spring return from left to right, spring return from left to centre, spring return from right to centre	
ACI015	type of button mounting	flush push, extended push, recessed push, flush boot, projecting boot, high bezel, mushroom	

Enum. ID	Preferred name	Value list	Source
ACI016	unlatching method	turn to release, push-pull, push-push, pull-release, key release, other unlatching	
ACI017	key withdrawal position	left, centre, right, all position	
ACI018	disconnect means	sliding, swivelling, pluggable, other means	
ACI020	colour of actuator	red, black and white, red green, transparent, without button plate, blue, white, yellow, silver, black, gold, green, grey, kit with several colours, orange, purple, other colour	
ACI021	colour of the device body	chromium, silver, black, white, other colour	
ACI022	lens colours combination	green, red, orange, blue, transparent, yellow, red orange, red green, orange green, red orange green, red orange green blue, red orange green blue transparent, other colour	
ACI023	lens colour	red, transparent, blue, white, yellow, orange, green, kit with several colours, purple, other colour	
ACI024	colour of the terminal assembly	grey, orange, yellow, green, blue, brown, black, red, white, beige, green yellow, other colour	
ACI028	symbol marking	symbol "0", symbol "I", symbol "I – 0", symbol "I – 0 – II", symbol "II", symbol "III", symbol "-", symbol "+", symbol "unlock", symbol "up arrow", symbol "down arrow", symbol "left arrow", symbol " right arrow", CLOSE, DOWN, EMERGENCY STOP, FAST, FAULT, FORWARD, LEFT, LOWER, OFF, ON, RAISE, RESET, REVERSE, RIGHT, BACKWARDS, RUNNING, SLOW, START, STOP, TEST, UP, other imprint, without imprint	
ACI030	type of sensor electrical connection	spring clamp connection, cable, cable with connector, screw connection, connector 1/2 inch, connector 3/4 inch, connector 7/8 inch, connector M5, connector M8, connector M12, plug-in connector, other connection	
ACI032	clamping unit of main circuit	screw-type, screwless-type, lug	
ACI033	clamping unit	screw-type, screwless-type, lug, plug-in, insulation piercing, other clamping	
ACI035	position of the connection of the main circuit	rear, front, other connection	
ACI036	connection orientation	top, angular, lateral	
ACI037	number of wiring terminals	two wires, three wires, four wires, other wiring	
ACI038	type of lamp socket	BA15d, BA15s, E10, BA9s, LED, W2 × 4.6, Wedge-Base, other lamp socket	
ACI039	method of construction	draw-out, plug-in, fixed	
ACI040	cable sheath material	PVC, silicone, PUR vulcanized, PUR (polyurethane), other material	
ACI041	sensing face material	teflon, plastic, metal, ceramics, other material	
ACI042	material type	plastic, metal, other material	
ACI043	actuator end material	steel, high grade steel, thermoplastic, elastomer, glass fibre, ceramics, other material	
ACI050	output function	make-contact element (NO), break-contact element (NC), changeover contact element, programmable, other function	
ACI051	contact element type	dependent action, snap action, direct opening dependent action, direct opening snap action	

Enum. ID	Preferred name	Value list	Source
ACI053	output type	NPN, PNP, NPN or PNP, PNP/PNP, NPN/NPN, PNP/NPN, other technology	
ACI062	category of operating cycles	A, B	
ACI068	type of lamp	incandescent, neon, LED, other lamp	
ACI069	sound signalling device	buzzer, siren	
ACI070	front shape of the actuator	round, square, rectangular, handle, other geometry	
ACI071	lens front shape	round, square, rectangular, oval, other geometry	
ACI072	housing construction	rectangular, cylinder smooth, cylinder threaded, other construction	
ACI073	housing standard for sensor	EN 50041, EN 50047, other standard, no standard	
ACI080	mounting of the auxiliary block	front attachment, base attachment, side attachment, other mounting	
ACI081	sensor mounting position	flush mounting, not flush mounting	
ACI082	type of lens mounting	flush, extended	
ACI084	size of cable entries	M5, M16, M20, M25, 1/2 NPT, PF 1/2, PG11, PG13, without entry, other size	
ACI085	mounting hole size	8, 12, 16, 18, 22, 30	
ACI087	mounting type	C-profile, top-hat/G-rail, top-hat rail 15 mm, top-hat rail 35 mm, top-hat rail 75 mm, special profiles, screwed, other mounting	
ACI090	type of overcurrent release	overload and short-circuit, short-circuit only	
ACI091	overcurrent release technology	thermal-magnetic, electronic, other technology	
ACI092	overload release	non adjustable, adjustable, without release	
ACI093	manual or automatic	manual, automatic, manual and automatic	
ACI094	thermal protection class	class 2E, class 3E, class 5, class 5E, class 10, class 10A, class 10E, class 20, class 20E, class 30, class 30E, class 40E	
ACI095	overload current setting of the neutral pole	without protection, 1, 0,5, other setting	
ACI096	residual current protection type	AC, A, B	
ACI100	reference ambient temperature	25, 30, 35, 40, 45, 50, no reference	
ACI101	rated operational voltage	0, 230, 400, 690	
ACI102	rated voltage of low energy contact	5, 24	
ACI103	kind of current	a.c., d.c., a.c./d.c.	
ACI104	rated supply frequency	50 Hz, 60 Hz, 50/60 Hz, no frequency	
ACI105	rated current of low energy contact	1, 5, 10, 100	

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