

Surge Protection Specification

DEHN Services – Engineering Service Datasheet



Service	Surge Protection Specification Incl. BOM & Drawings acc. Local & International Standards*
Part No.	E17304
Description	A Surge Protection Specification shows placements of surge protection devices which make up the internal lightning protection system for a project. The system is designed according to the requirements of the applicable standards. Once the protection targets have been determined and the relevant information on the electrical system is available, the concept can be drawn up. The selected surge protection devices are shown in a drawing based on a distribution structure plan and a product list is created. In addition to the service for internal lightning protection, DEHN also offers services for the planning of external lightning and earthing protection in the field of Engineering Services. Note: The surge protection specification covers only the low-voltage level. The medium- and high-voltage levels are not included in the surge protection specification.
Normative framework*	IEC 62305 Edition 3.0:2024 – Protection against Lightning (Intl) IEC 60364 Part 4, 5, 7 – Low voltage electrical installations (Intl) VDE 0100 Part 443, 534, 712 – Installation of low-voltage systems (DE) SANS 60364 Part 4, 5, 7 – Low voltage electrical installations (ZA) NFPA 780 2023 – Installation of Lightning protection systems (US) LPI-175 – Standard of Practice for the Design Installation Inspection of Lightning Protection Systems (US) Note: Unless otherwise specified by the customer, the service will be performed in accordance with internationally applicable standards (e.g. IEC) in the version valid at the time of service provision. The national standards listed in the data sheet represent a selection of regulations that are generally supported or applicable on a project-specific basis and are provided for guidance only. The application of other standards not listed requires prior consultation and technical review. Any deviating requirements must be specified before the order is placed. Country-specific or regional adaptations of IEC 62305 can be found in the appendix
Scope	○ Report/guidelines with the description of the surge protection concept ○ Drawing and written elaboration of individual surge protection measures ○ Bill of material (BOM) ○ Product data sheets and installation instructions for all components can also be provided Report, drawings and other documents are supplied as .pdf documents in electronic form. Other formats on request.
Prerequisites	○ Overview plans ○ Basic information about the electrical system ○ Distribution structure diagrams/single-line diagrams/energy flow diagrams of the electrical system All required details asked for in questionnaire form.
Optional Additional Services	Site Inspection Services and Meeting (Part No. E17101).

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Country-specific or regional adaptations of IEC 62305 Edition 3.0:2024 – Protection against Lightning (Intl)

DACH

DE (Germany): **DIN EN IEC 62305 (VDE 0185-305):2026-02**

AT (Austria): **OVE EN IEC 62305:2026**

CH (Switzerland): **SN EN IEC 62305:2024** (national guideline: SN 414022:2024)

EMEA

UK: **BS EN IEC 62305:2024**

FR (France): **NF EN IEC 62305:2024** (additional national guideline for Part 2: INERIS / Alain ROUSSEAU)

IT (Italy): **CEI EN IEC 62305:2025-03** (additional national guideline: for Part 3 – Guida CEI 81-29, Ed.3)

ES (Spain): **UNE EN IEC 62305:2024** (additional national guideline: CTE DB DUA 8:2026)

NL (Netherlands): **NEN EN IEC 62305:2024** (national guideline: for Part 3 – NPR1014:2009, Part 4 – NPR8110:2024)

BE (Belgium): **NBN EN IEC 62305:2024** (national guideline: ANPI T023, T032, T027, T026, T024, T025)

SE (Sweden): **SS EN IEC 62305:2024**

NO (Norway): **NEK EN IEC 62305:2024** (national guideline: NEK 320:2025)

FI (Finland): **SFS EN IEC 62305:2024**

DK (Denmark): **DS/EN IEC 62305:2024**

PL (Poland): **PN-EN IEC 62305:2025-09**

CZ (Czech Republic): **ČSN EN IEC 62305:2025**

SK (Slovakia): **STN EN IEC 62305:2025**

HU (Hungary): **MSZ EN IEC 62305:2025**

RO (Romania): **SR EN IEC 62305**

BG (Bulgaria): **BDS EN IEC 62305**

GR (Greece): **EVOT EN IEC 62305:2024**

HR (Croatia): **HRN EN IEC 62305:2024**

AE (United Arab Emirates): **BS EN 62305:2024**

SA (Saudi Arabia): **SASO IEC 62305**

ZA (South Africa): **SANS EN IEC 62305:2025**

APAC

SG (Singapore): **SS 555:2018**

MY (Malaysia): **MS IEC 62305**

IN (India): **IS/IEC 62305:2024**

CN (China): **GB/T 21714-2026**

JP (Japan): **JIS Z 9290**

KR (South Korea): **KS C IEC 62305:2022**

TH (Thailand): **TISI 1586-2555 for Part 2**

VN: **TCVN IEC 62305:2013**

AU&NZ (Australia & New Zealand): **AS/NZS 1768:2007**

ID (Indonesia): **SNI IEC 62305**

PH (Philippines): **PNS IEC 62305**

AMERICAS

US: **NFPA 780: 2023 / UL 96A:2023**

CA (Canada): **CSA B72:2020**

BR (Brazil): **ABNT NBR 5419:2025**

MX (Mexico): **NMX-J-549-ANVE:2005**

CO (Colombia): **NTC 4552**