

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

SIEMENS SIMATIC S7

6DL1135-6TF00-0EH1

AQ 8XI HART OUTPUT MODULE

Applicable product family: SIMATIC ET 200SP HA distributed I/O

OFFICIAL SOURCE

6DL1135-6TF00-0EH1.pdf

The following pages are selected from the supplied manufacturer document and retain their original page content.

SIMATIC

ET 200SP HA ET 200SP HA Distributed I/O system

System Manual

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Table 9-7 Asymmetrical conducted interference

Inspection according to IEC 61000-4-16 and IEC 61000-4-18	Corresponds to degree of severity
10 V - 1 V (15 Hz - 150 Hz) 1 V (150 Hz - 1.5 kHz) 1 V - 10 V (1.5 kHz - 15 kHz) 10 V (15kHz - 150 kHz)	3

See the table "Conditions for the design of field wiring".

Table 9-8 Damped oscillatory waves

Inspection according to IEC 61000-4-16 and IEC 61000-4-18	Corresponds to degree of severity
Signals: 1.0 kV (common mode, 1 MHz) 0.5 kV (differential mode, 1 MHz)	2
DC supply: 1.0 kV (common mode, 1 MHz) 0.5 kV (differential mode, 1 MHz) 0.5 kV (common mode, 10 MHz)	2

See the table "Conditions for the design of field wiring".

Conditions for the design of field wiring

To fulfill these requirements, the field wiring for the modules should be performed as stipulated in the following table.

Module	Article number	Design of the field wiring
AI 16xI 2-wire HART HA	6DL1134-6TH00-0PH1	Shielded
AI16xTC/8xRTD 2-/3-/4-wire HA	6DL1134-6JH00-0PH1	Shielded
AI-DI16/DQ16x24VDC HART HA	6DL1133-6EW00-0PH1	Shielded
AQ 8xI HART HA	6DL1135-6TF00-0PH1	Shielded
DI 16x24VDC HA	6DL1131-6BH00-0PH1	Unshielded
DI 8x230VAC HA	6DL1131-6GF00-0PK0	Unshielded
DI 8x24..125VDC HA	6DL1131-6DF00-0PK0	Unshielded
DI 16xNAMUR HA	6DL1131-6TH00-0PH1	Shielded
DI 32x24VDC HA	6DL1131-6BL00-0PH1	Unshielded
DQ 16x24VDC/0,5A HA	6DL1132-6BH00-0PH1	Unshielded
DQ 32x24VDC/0.5A HA	6DL1132-6BL00-0PH1	Unshielded
AI16xTC/8xRTD 2-/3-/4-wire HA	6DL1134-6JH00-0EH1	Shielded
AI-DI16/DQ16x24VDC HART HA	6DL1133-6EW00-0EH1	Shielded

Module	Article number	Design of the field wiring
AQ 8xI HART HA	6DL1135-6TF00-0EH1	Shielded
DI 8x230VAC HA	6DL1131-6GF00-0EK0	Unshielded
DI 8x24...125VDC HA	6DL1131-6DF00-0EK0	Unshielded
RQ 4x120VDC-230VAC/5A CO HA	6DL1132-6HD50-0PK0	Unshielded

Emission of radio frequency interference

- Emission of electromagnetic interference according to EN 61000-6-4.
- Interference emission via the mains AC power supply according to EN 61000-6-4.

9.3 Shipping and storage conditions

Introduction

The ET 200SP HA distributed I/O system surpasses requirements for transport and storage conditions according to IEC 61131-2. The following information applies to modules that are shipped and/or stored in their original packaging.

Table 9-9 Shipping and storage conditions for modules

Type of condition	Permissible range
Free fall (in shipping package)	≤1 m
Temperature	From -40 °C to +70 °C
Air pressure ¹⁾	From 1080 hPa (corresponds to a depth of approx. -1000 m) Up to 606 hPa (corresponds to an elevation of approx. 4000 m)
Relative humidity	5% to 95%, without condensation
Sinusoidal oscillations according to IEC 60068-2-6	5 - 8.4 Hz: 3.5 mm 8.4 - 500 Hz: 9.8 m/s ²
Impact according to IEC 60068-2-27	250 m/s ² , 6 ms, 1000 shocks

¹⁾ Note that I/O modules with relay contacts are only suitable for an elevation up to 3000 m (corresponds to air pressure of around 690 hPa).