VOLTAGE DETECTING INDICATING SYSTEM
Type VDIS/LRM

ELECTRONSYSTEM MD TECHNICAL SHEET

Revision B of 24 April 2024



APPLICATIONS

- **Medium Voltage Switchboards**

MAIN CHARACTERISTICS

- **VDIS/LRM is an integrated voltage detecting indicating system conform to IEC62271-213/2021**
- **The device supplies continuously an electrical signal for phase comparison and optical blinking led for voltage indication**
- **Very wide and bright leds allow simple and safe visibility for personnel encharged in verification**
- **Suitable for indoor applications / outdoor with waterproof socket**
- **Fully encapsulated electronics for harsh environment**
- **LED life time guaranteed - min. 30 years**
- **Suitable for panel mounting**

DESCRIPTION

This capacitive voltage module is used in medium voltage switchgears. The voltage detector indicator and the coupling system is tested and manufactured according to the requirements of IEC 62271-213
The indication of the voltage is displayed with one flashing LED for each phase with a separable indicator. The test sockets for phase comparing are nickel plated. The capacitive module has to be simply adapted to the capacitive bushing or the insulator , in which the module is used.

Electrical characteristics VDIS/LRM		
Coupling capacity range	pF	From 10 to 200 (other values on request)
Medium Voltage range	kV	From 3.6 to 36
Power supply		No auxiliary power requested
Indication		Red led on the indicator
Led Consumption	mW	< 1
Led Intensity	Mcd	3000@20mA
Interface		Ø4 mm measuring
Temperature range	°C	-25 to +65
IP degree protection	IP	>2X coupling system, 65 the indicator
Connection input		4x faston 4.8x0.5mm or 6.3x0.8mm
Box		Polyammide PA66

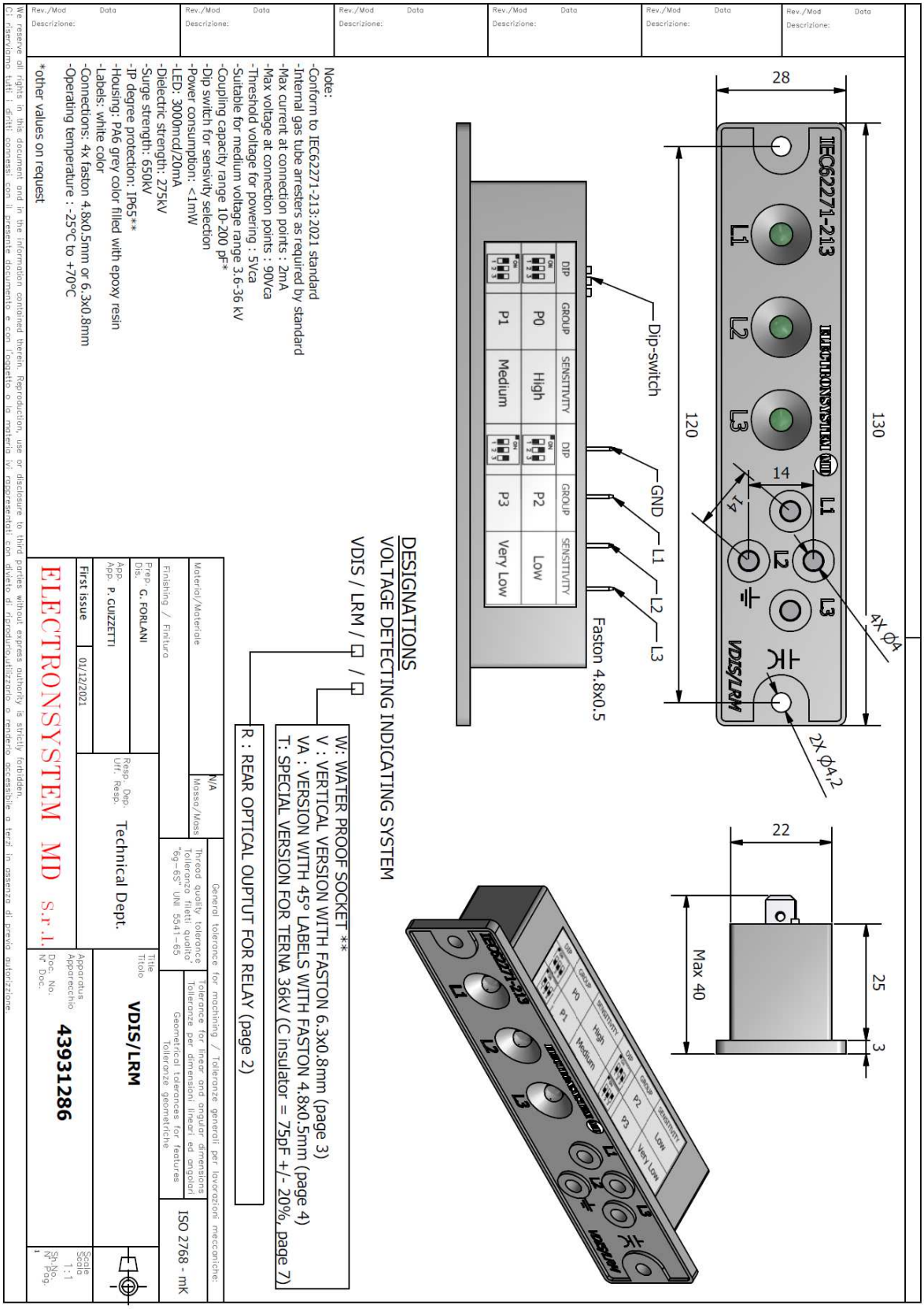
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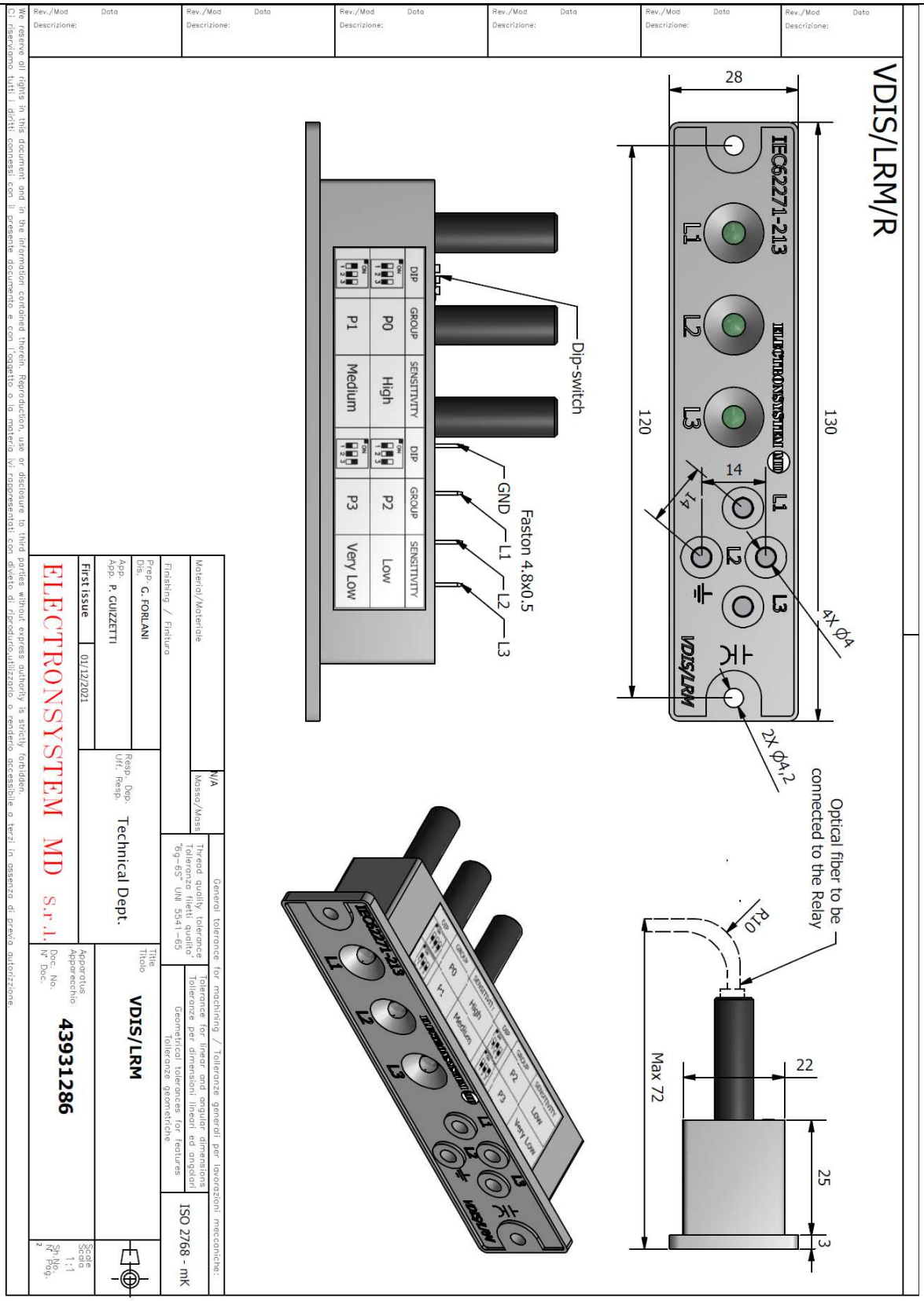
Dimension VDIS

Drawing: 43931286



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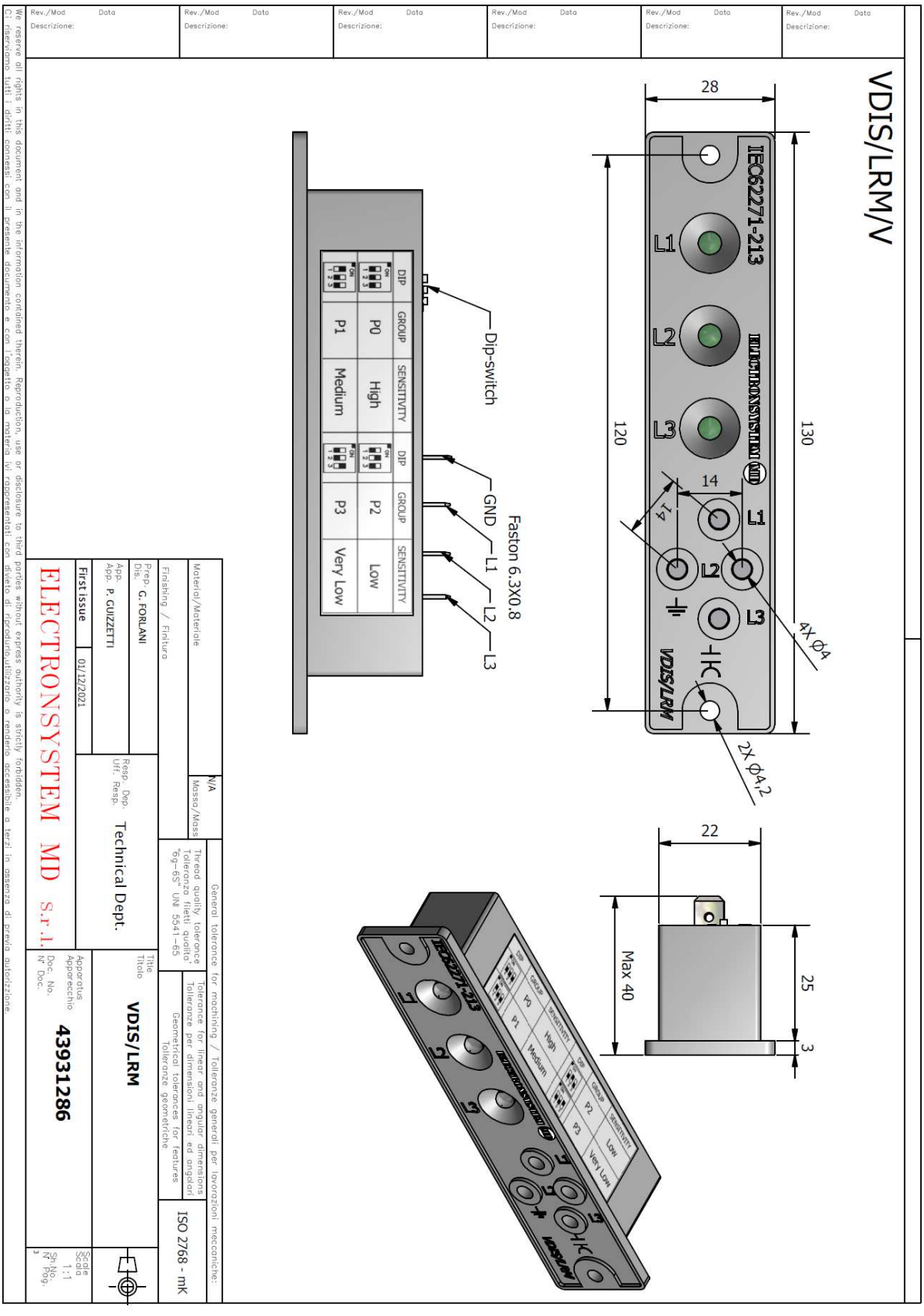
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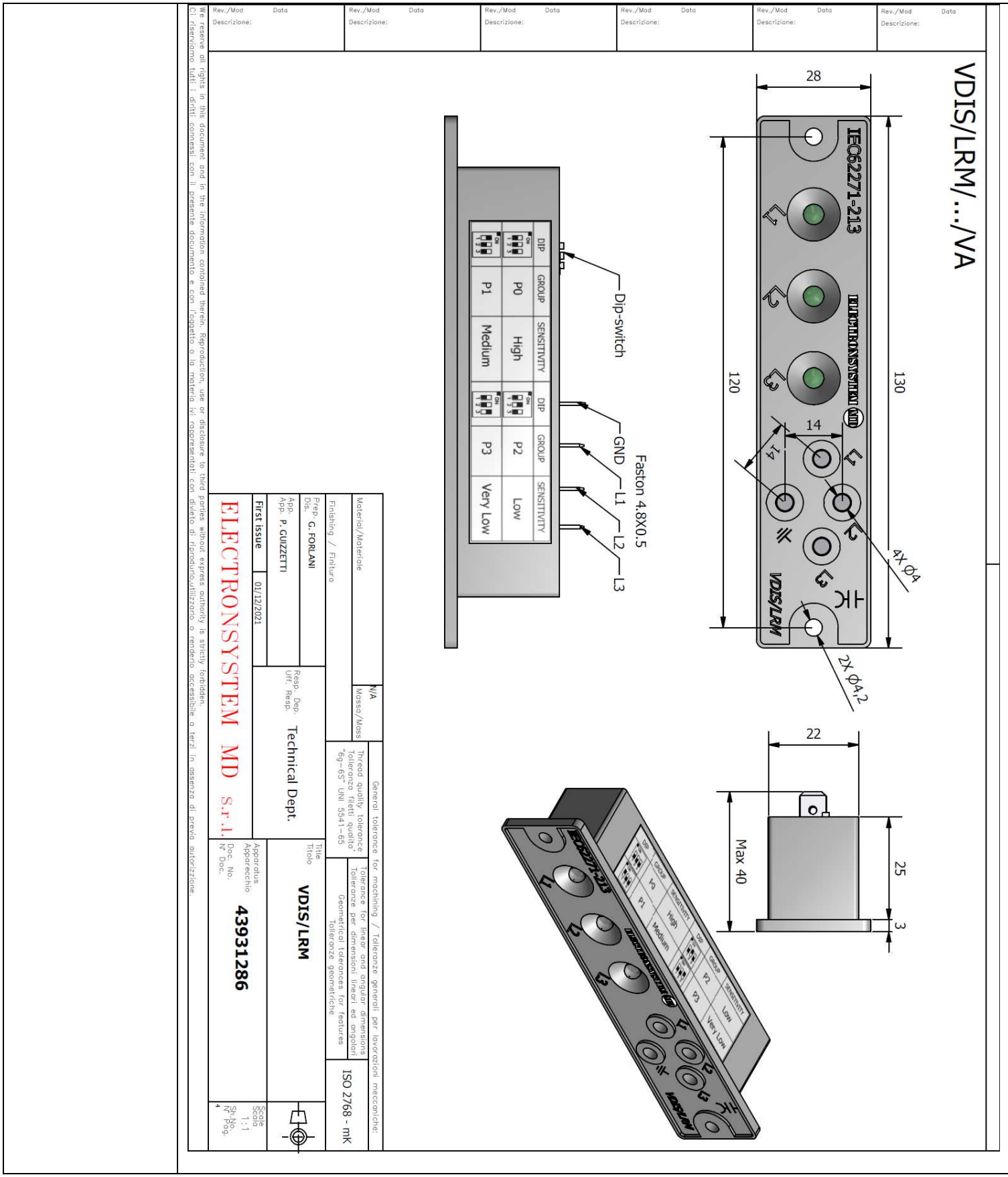
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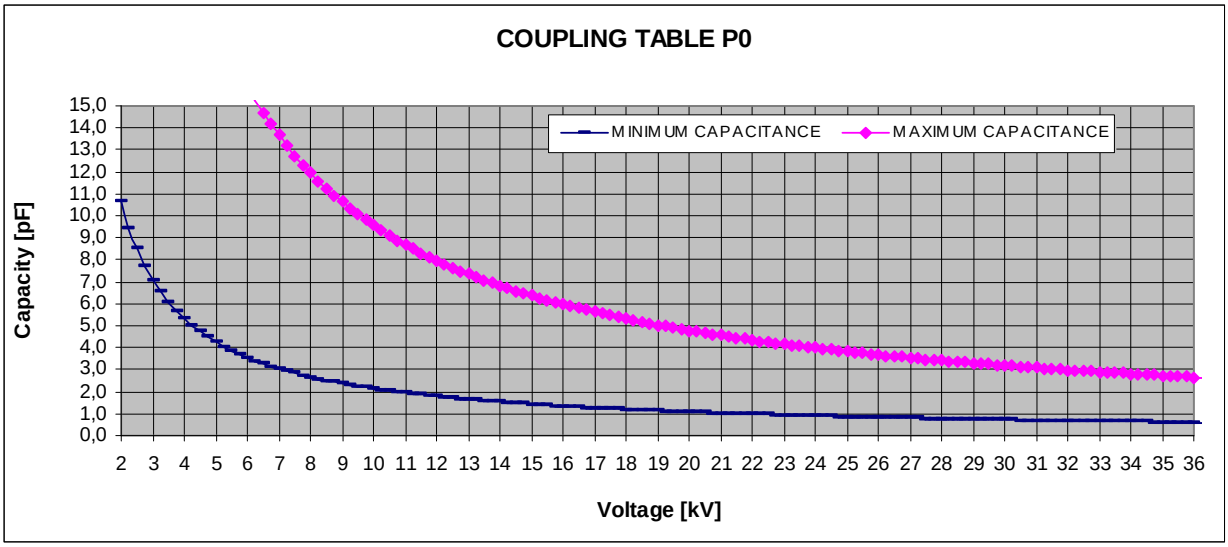


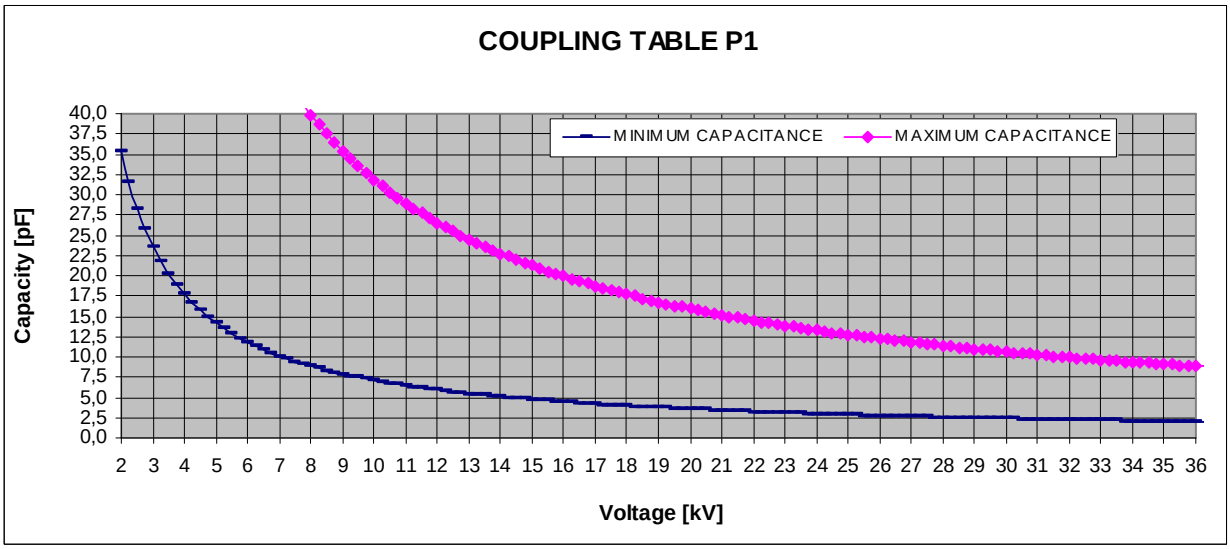
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Coupling table

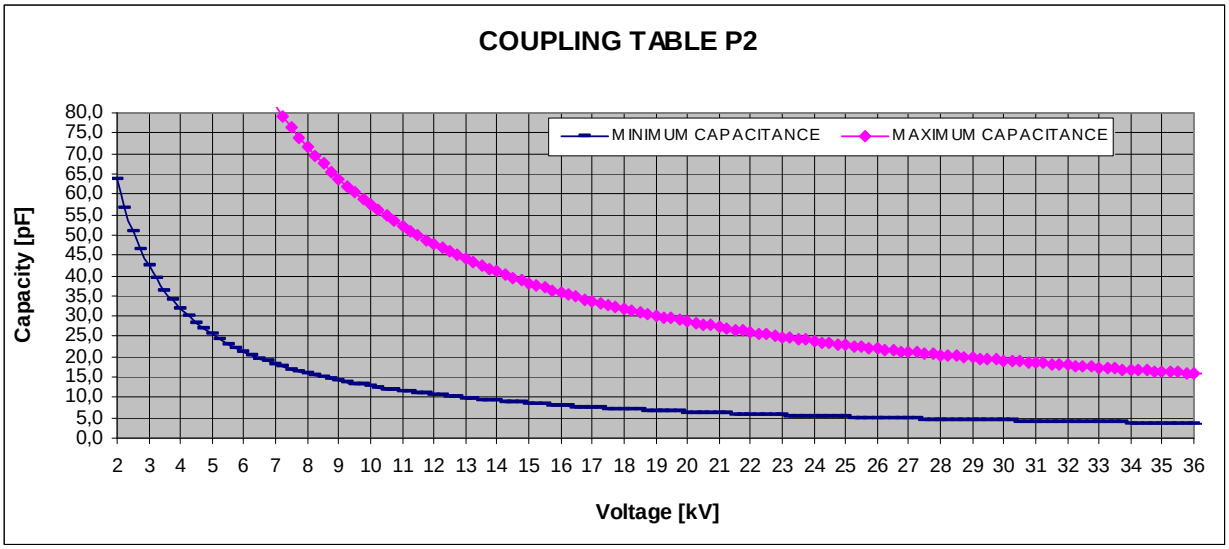


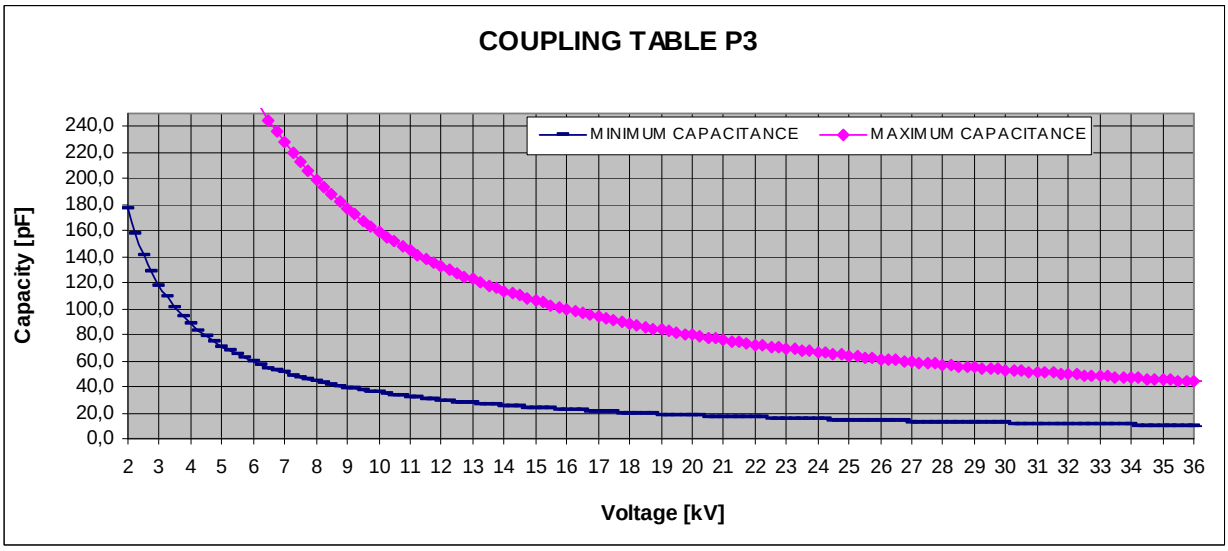


The correct coupling is obtained when the operating conditions (Voltage and Capacity) are between the two lines

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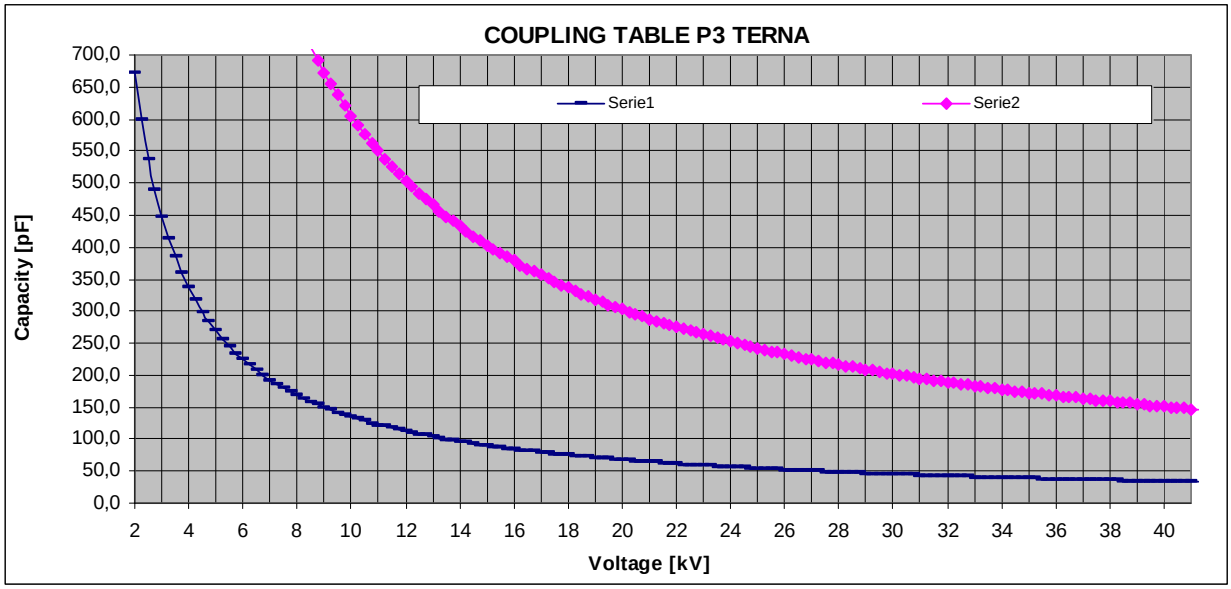
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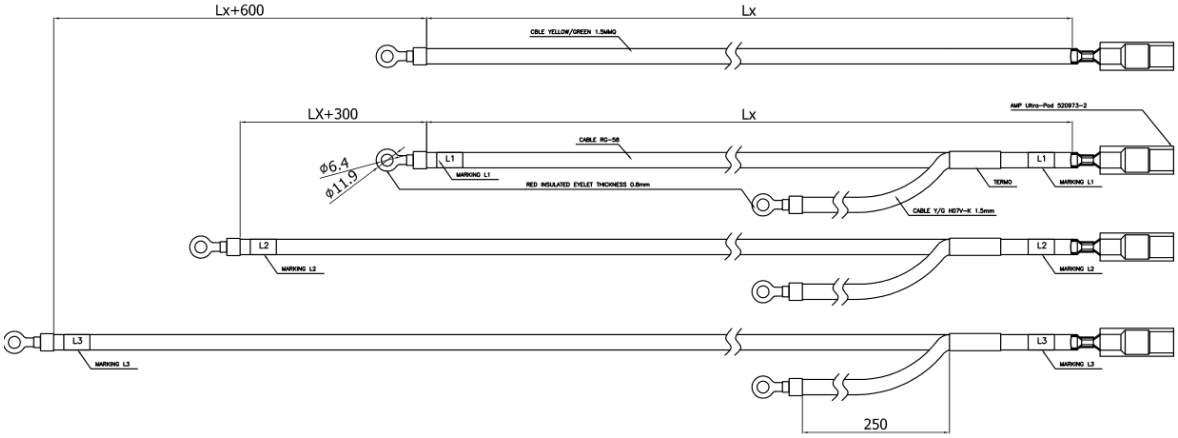
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Accessories VDIS

Coaxial cable
Drawing: 43922316



ORDERING CODE:
Description : CABLE KIT VDIS 43922316
Code : CAB22316 /[ ][ ][ ][ ] /[S]*

- S = special version with RG 58 cable low smoke zero halogens (flame retardant)
- 1000 = lenght of cable (Lx) is 1000mm
- 4000 = lenght of cable (Lx) is 4000mm
- 5000 = lenght of cable (Lx) is 5000mm
- 8000 = lenght of cable (Lx) is 8000mm

* other lengths available on request

STORAGE

If the complex must be storage before use, please keep dry and packed.
Do not leave outdoor.

STORAGE TEMPERATURE: -30°C ÷ +70°C
RELATIVE HUMIDITY: max 90% @ +40°C

PROPER USAGE

The system is intended to be used in the medium voltage installations such as switchgears, switchboard and the scope is to indicate by visual indication the absence or presence of live parts through connections to capacitive divider or bushing.
Our type is without any internal power source supply.
Working voltage range is between 3,6 to 36kV.
Direct voltage cannot be applied because can damage the device.

MAINTENANCE

Maintenance of VDIS/LRM assembly is subjected to periodic verification with at least 24 months interval, the last year of maintenance must be indicated on front label by the customer.

WARRANTY

Device is covered by 24 months after installation or max 36 months after delivery.
In case of service the VDIS/LRM must be sent back to factory for inspection.

WARNINGS

CAUTION
Do not drop or hit the VDIS/LRM. The piece is fragile and may break from sudden shock.
When transporting the piece, use the original shipping box from Electronsystem MD.

DISCLAIMER NOTE:

While we provide application assistance it is up to the customer to determine the suitability for its use.

Specification may change without notice.The information we supply is believed to be accurate and reliable as of this printing.
However we assume no responsibility for its use.

The quality of Electronsystem MD products is guaranteed by a Quality, Safety and Environmental management system certified by DNV according to ISO 9001, ISO 18001 and ISO 14001. Electronsystem MD works in partnership with its customers in designing customized executions in order to meet specific requirements, please contact us.

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