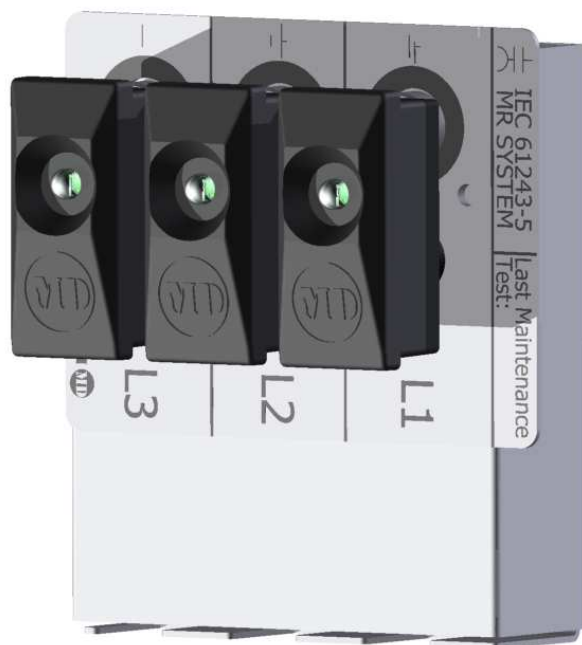


**ELECTRONSISTEM MD TECHNICAL SHEET**

Revision A of 30 September 2022

**APPLICATIONS**

- Medium Voltage Switchboards

**MAIN CHARACTERISTICS**

- VDS/MR is a voltage detecting system conform to IEC61243-5 standard type MR, ENEL global standard GSCM004 ed.0 10/2019, GSM001 & DY803
- The device supplies continuously an electrical signal for phase comparison (without indicator) 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
- Fully encapsulated electronics for indicators
- 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 61243-5

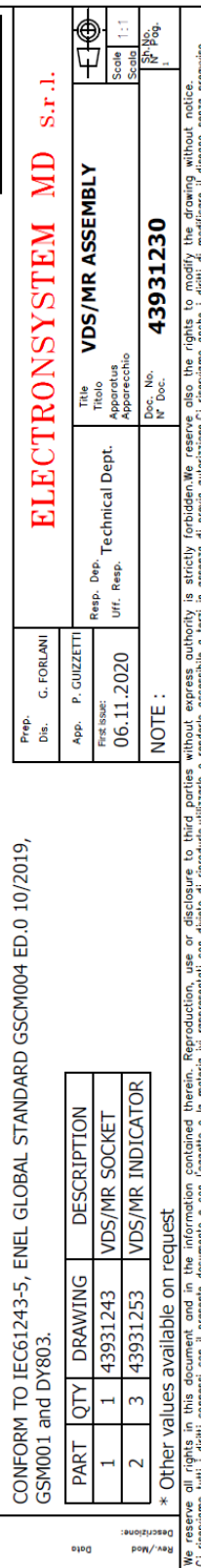
The indication of the voltage is displayed with one flashing LED for each phase with a separable indicator. The test sockets for phase comparing are nickel plated. The capacitive module has to be simply adapted to the capacitive bushing or the insulator , in which the module is used.

**Electrical characteristics VDS/MR**

<b>Coupling capacity range</b>	pF	From 10 to 200
<b>Medium Voltage range</b>	kV	From 10 to 36
<b>Power supply</b>		No auxiliary power requested
<b>Indication</b>		Red led on the indicator
<b>Led Consumption</b>	mW	< 1
<b>Led Intensity</b>	Mcd	3000@20mA
<b>Interface</b>		3 MR measuring socket
<b>Temperature range</b>	°C	-25 to +65
<b>IP degree protection</b>	IP	>2X coupling system, 65 the indicator
<b>Connection input</b>		Faston 6.3x0.8mm
<b>Box</b>		Coupling system: Metal frame zinc plated Indicator: Metal housing filled by epoxy resin (2 – components)

All specs are subject to change without notice

**Drawing: 43931230**



## Dimension VDS/MR coupling system

## ELECTRONSYSTEM MD TECHNICAL SHEET

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Drawing: 43931243

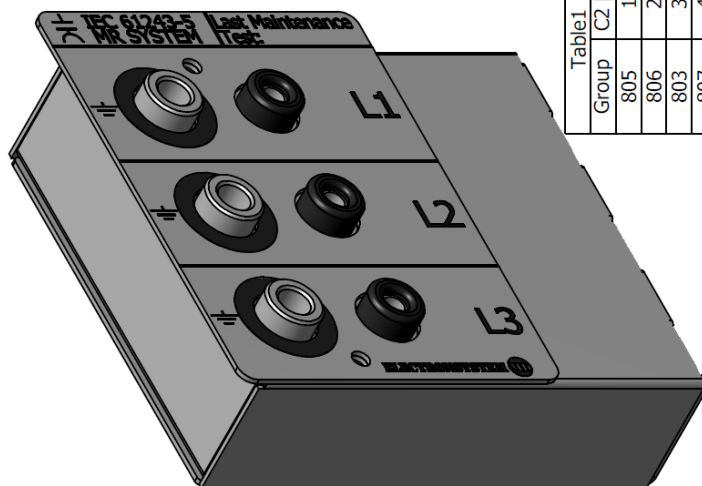
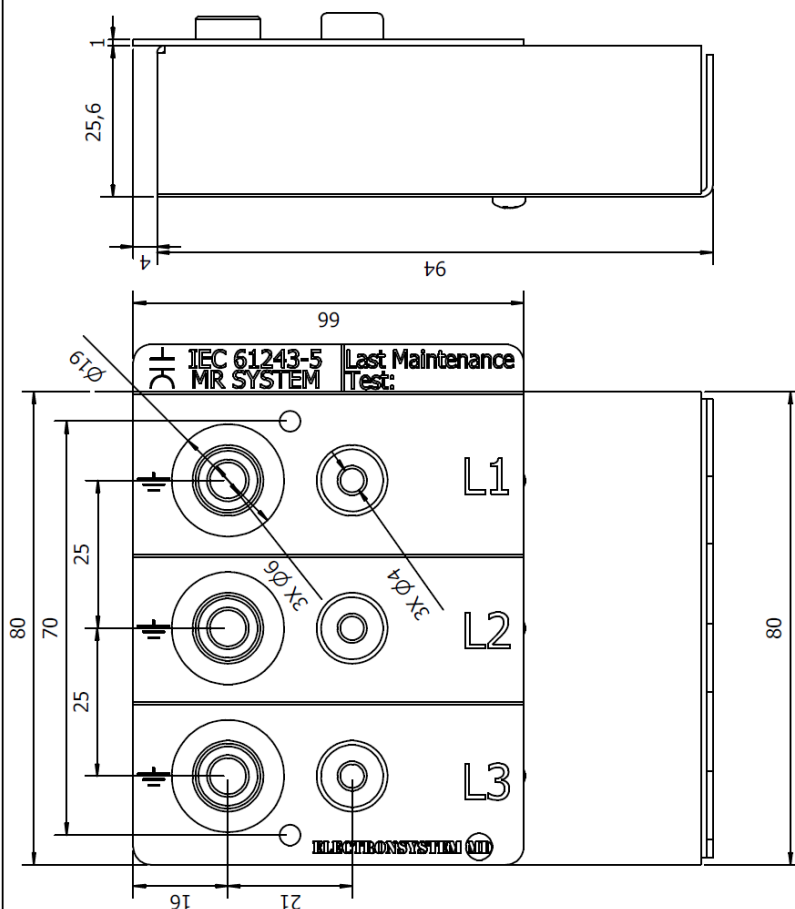


Table1	
Group	C2 [pF]*
805	110
806	220
803	330
807	470
802	560
808	680
809	820
810	1000
811	2200
804	3300
801	4700

ORDERING CODE  
VDS1243/

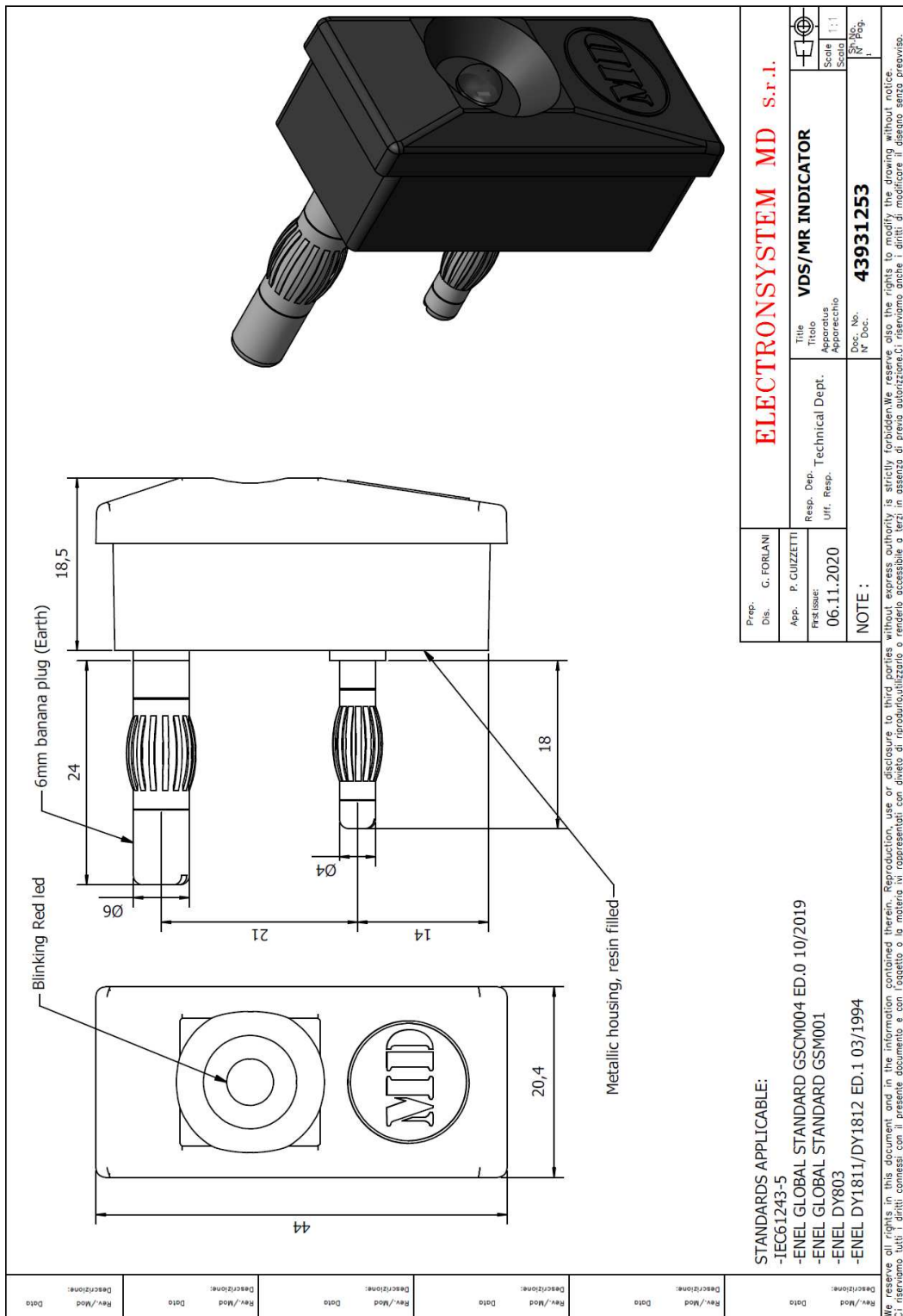
80X : Group - see table 1

Prep. Dis.	G. FORLANI	ELECTRONSYSTEM MD S.r.l.	
App.	P. GUZZETTI	Resp. Dep.	Technical Dept.
First Issue:	06.11.2020	Uff. Resp.	
NOTE :		Doc. No.	43931243
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		Sh. No.	
		Scale	1:1
		Scale	
		Sh. No.	
		N° Doc.	
		Doc. No.	
		Uff. Resp.	
		Resp. Dep.	
		Apparatus	VDS/MR SOCKET
		Titolo	

\* Other values available on request  
CONFORM TO IEC61243-5, ENEL GLOBAL STANDARD GSCM004 ED.0 10/2019,  
GSM001 and DY803.

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**Drawing: 43931253**



## **STORAGE**

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

STORAGE TEMPERATURE:  $-30^{\circ}\text{C} \div +70^{\circ}\text{C}$

RELATIVE HUMIDITY: max 90% @  $+40^{\circ}\text{C}$

## **MAINTENANCE**

Maintenance of VDS/MR 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 VDS must be sent back to factory for inspection.

## **WARNINGS**

### **CAUTION**

Do not drop or hit the VDS. The piece is fragile and may break from sudden shock.  
When transporting the piece, use the original shipping box from Electronsystm 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 Electronsystm MD products is guaranteed by a Quality, Safety and Environmental management system certified by DNV according to ISO 9001, ISO 18001 and ISO 14001. Electronsystm MD works in partnership with its customers in designing customized executions in order to meet specific requirements, please contact us.

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