VDS/FD VOLTAGE DETECTING SYSTEM

VDS/FD 07.01.2016



This capacitive voltage module is used in medium voltage switchgears. The voltage detector module is tested and manufactured according to the requirements of IEC 61243-5

The indication of the voltage is displayed permanently by its specific display with dedicated symbols for each phase. The cover lid protects the device from mechanical impacts and hide the test sockets for phase comparison.

The capacitive module can to be simply adapted to the capacitive value of bushing or the insulator by front dipswitch; the selection is very easy and can be done just before shipment or on customer site simplifying a lot logistic cost and stock management.

APPLICATIONS

Medium Voltage Switchboards

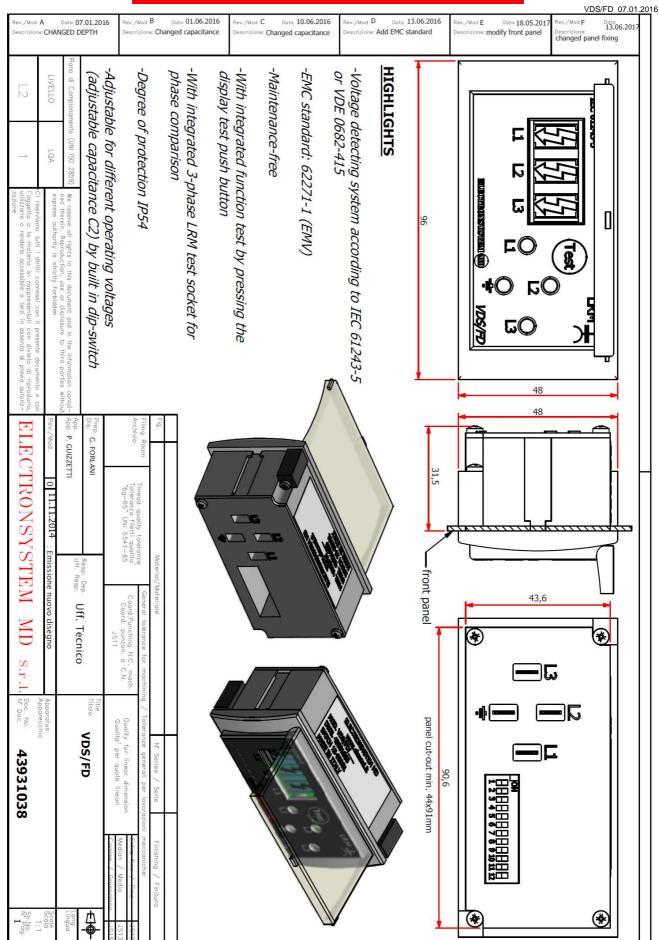
STANDARDS

- VDS is a voltage presence indicating system conform to IEC 61243-5 standard, type LRM
- Conform to VDE 0682-415 german standard

MAIN CHARACTERISTICS

- VDS is a voltage presence indicating system conform to IEC 61243-5 standard, type LRM
- The device supplies continuously an electrical signal for phase comparison combined with LCD display for easy look
- Built in self-test button for functionality checking
- Integrated dip-switch for fast and simple sensitivity adjustment allow to manage a lot of different applications with only one device reducing a lot the stock cost: 4 different settings available on rear side
- Suitable for plug and play panel mounting by external flexible retainers
- Transparent front lid IK07 proof allows safe protection against accidental mechanical impacts and avoid dust contamination
- Indication of overvoltage across the terminal leads: a special symbol indicates that the capacitive coupling between C1 and C2 is not the correct one and must be modified

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VDS/FD 07.01.2016 Rev./Mod C lev./Mod D 13.06.2016 v./Mod A Data 07.01.2016 Rev./Mod B Data **01.06.2016** Data 10.06.2016 ev./Mod E Data 18.05.201 Data 13.06.2017 CHANGED DEPTH ne: Changed capacitance Changed capacitance rizione: Add EMC standard modify front panel C1 primary capacitance: 5pF ÷ 110pF
C2 secondary capacitance: 3,3nF · 39nF *
Sensitivity selection: built-in dipswitch for easy adjustment, 4 levels selectable Housing: Front panel mount HXWxD =48x96x31,5mm , panel cut out 45x92mm Primary voltage: 3.3kV ÷ 36kV Box: nylon housing fiber glass reinforced Operating temperature: -30°C ÷ 70°C Product standard: IEC61243-5 LRM type EMC standard: 62271-1 (EMV) Degree protection: IP 54 epoxy resin filled Other C2 values available on customer request Ordering code: Connection input: -male 4,8X0,8 mm faston receptacles SPECIFICATIONS C2 capacitance values * VDS/FD/ Group Voltage LIVELLO di Campior 801 10-24kV 4-12kV C2 Ω (UNI ISO 2859 LQA Range Medium Low reserve all rights in this document d therein. Reproduction, use or disc 먂 LRM socket 6.8 ηF ηF 15 ent and in the information contai disclosure to third parties withou 굮 39 App. P. GUIZZETTI G. FORLANI LECTRONSYSTEM LCD indication No Indication hread quality tolerance olleranza filetti qualita' "6g-6S" UNI 5541-65 Nominal voltage operation with Voltage present during normal nominal voltage Overvoltage No voltage Indication present Uff. ρ. Dep. . Resp. Coord.Punching N.C. mach. Coord. punzon. a C.N. JS11 Uff. Tecnico primary part of divider Signal O.K. Isolation secondary part of Isolation problem at 0,1Un<U<0,45XUn Solation problem at connecting leads Short-circuit at or U>>1,2xUn Un>0,45Un Explanation U<0,1xUn divider S.r.lTitolo bringing into service Quality for linear dimensi Qualita' per quote lineari with nominal voltage Indication during VDS/FD C2 >>Max C2 > Max. C2 correct C2 < Min. 43931038 Indication with pressed Internal error Internal error Internal error VDS/FD O.K. test button <u>ф</u>