VOLTAGE DETECTING SYSTEMS

This VDS is based on the sharing of voltage between capacitor C1 (high voltage) and capacitor C2 (low voltage) ; the signal at C2 terminals is transformed in an optical signal, which separately points out voltage and phase of the line involved.
Thanks to this new system the signals of voltage get to the operator through a galvanic (optical) insulation, which never transfers voltage, even in case of failure of capacitor C1.
The IEC Standard 61243-5 1997-06 is applicable to our Voltage indicator. At page 11 point 1.2, the standard concerns VDS “based on fundamentally different principles (for examples optical systems, ” ...) ; they “should meet the requirements of this standard where applicable.”

HVD3/RC/DI/ _ _ _

- Optical Integrated VDS - Voltage detecting system in accordance with IEC 61243-5
- The VDS supplies continuously :
  - an impulsive optical signal for local voltage indication
  - a synchronous optical signal to be analysed by phase comparator (HVFD) or to be connected for remote voltage indication by special relay (RHV or 3RHV)
- LED life time guaranteed - min. 30 years
- Surge arresters does not applied because only optical signals are available on the front of panel

Technical features

High voltage :..... 3 - 170 KV
Primary Capacitance* :.....0.5 - 300 pF
Power supply :.....no auxiliary power reqested
Power consumption :.....< 1mW
Led :.....3000mcd/20mA
Dielectric strength :.....275KV
Surge Strength :.....650KV

Suitable for K152SR ELASTIMOLD BUSHING
Conform to ENEL: GLI, R EMC 01 and R CLI 01

IP degree protection :.....IP64

*Versions with customized features can be provided.

Material

Box :..... Polyurethan resin (2-component)

Connection input : .AMP waterproof connectors(*)
Cable with AMP connector (*)
.....faston 6.3X0.8 (IP30)
output :.....optical fiber

Cable : .....Reiter Lappkabel 0015703 approved
VDE(NYSLYCYö-J)
SEV(CH-NO5VC4V5-F)
UL(AWM Style 2587)
CSA(AWM I A/B II A/B) (*)

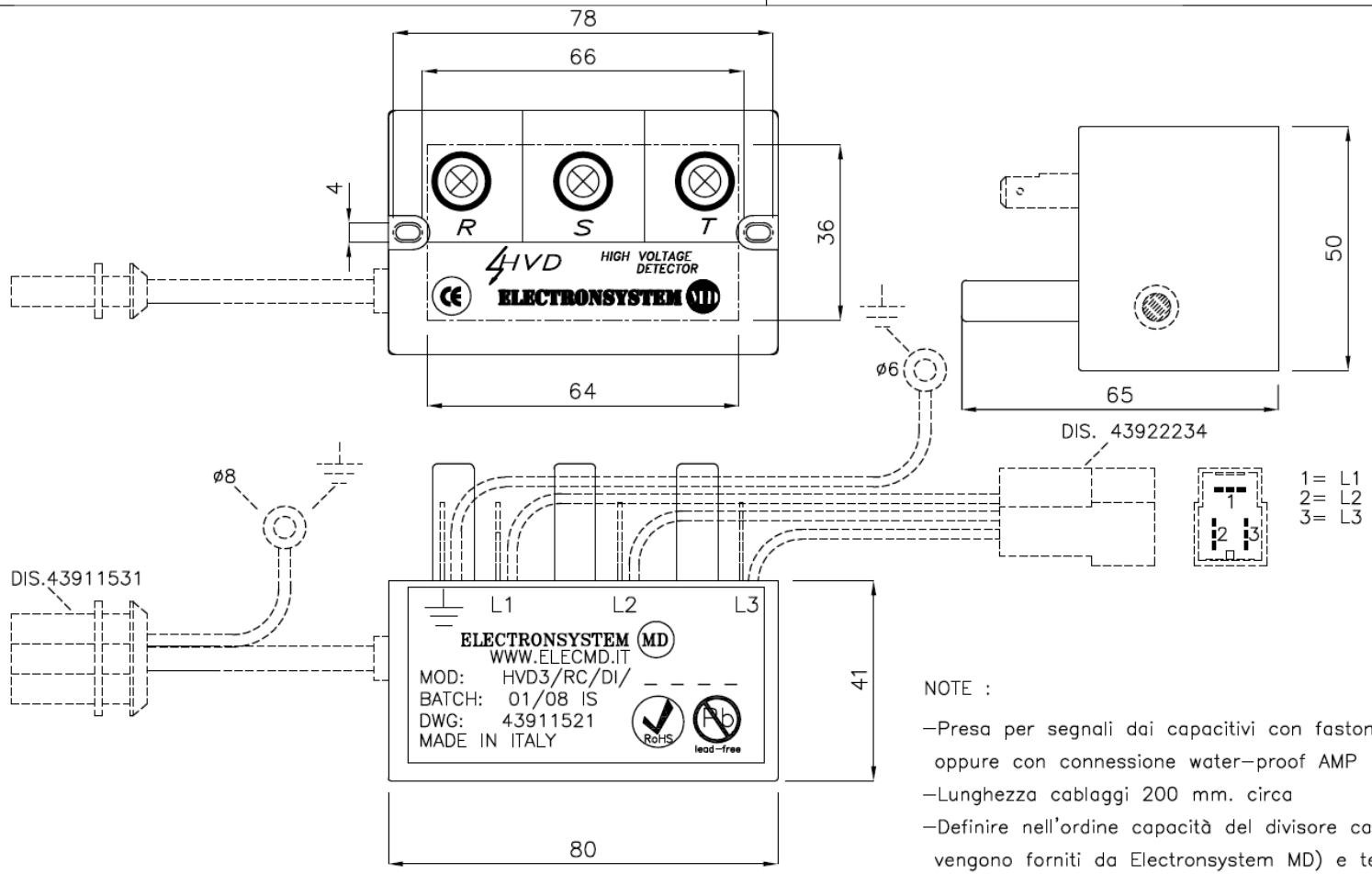
(*) on request

HVD3-RC-DI

VOLTAGE DETECTING SYSTEMS

ELECTRONSYSTEM MD

Rev./Mod	Data	Descrizione:
A	01.10.2001	MODIFICATO INGOMBRO
B	20.09.2002	AGGIUNTA CODIFICA ABB ADDA
C	10.01.2005	MODIFICA TABELLA



NOTE :

—Presa per segnali dai capacitivi con faston tipo AMP 6.3x0.8 oppure con connessione water-proof AMP

—Lunghezza cablaggi 200 mm. circa

—Definire nell'ordine capacità del divisore capacitivo (tranne quando vengono forniti da Electronsystem MD) e tensione di servizio.

—La dima di foratura per le lamiere è evidenziata in tratto-punto.

CODICE PER L'ORDINE:

Descrizione :Segnalatore presenza tensione e concordanza fasi

Codice : HVD3/RC/DI/ _ _ _ _

Codice di identificazione tensione di servizio/capacità vedi tabella dis. 43911548 Fig. 2

F: per presa segnale capacitivo con faston sul dispositivo
W: per presa segnale capacitivo con connettore water-proof
A: per presa segnale capacitivo con connettore faston AMP a 3 vie

Piano di Campionamento (UNI 4842-75)	
LIVELLO	LQA
L2	1

Fig.	Material/Materiale	N° Series / Serie	Finishing / Finitura
Filing Room Archivio	Thread quality tolerance Tolleranza filetti qualita' "6g-6S" UNI 5541-65	General tolerance for machining / Tolleranze generali per lavorazioni meccaniche: Coord.Punching N.C. mach. Coord. punzon. a C.N. JS11	Quality for linear dimension Qualita' per quote lineari: Extra fine / Fine JS12; Median / Media JS13; Coarse / Grossolana JS15

Prep. Dis. P. GUIZZETTI	Resp. Dep. Uff. Resp. Uff. Tecnico	Title Titolo SEGNALATORE PRESENZA TENSIONE HVD3/RC/DI/ _ _ _ _ —ASPETTO E INGOMBRO—	Lang. Lingua
App. App. P. CIBOLDI			
Rev./Mod. 0 01.10.2001 : Emissione nuovo disegno		Apparatus Apparecchio	Scale Scala 1:1
ELECTRONSYSTEM MD S.r.l.		Doc. No. N° Doc. 43911521	Sh.No. N° Pag.