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PRODUCT STANDARD SWITCHGEAR ENGINEERING DIVISION

SG 24312 Rev 00

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Integrated Voltage Indication system for 36kV GIS

1.0 Application:

Integrated Voltage indication system is used for indicating the continuous voltage indication of power cable and bushing used in the switchgear application This voltage detecting system is maintenance-free, reliable and cost effective.

2.0 Scope of Supply

Item No	Item
001	VOLTAGE DETECTION SYSTEM WITH RELAYS
002	VOLTAGE DETECTION SYSTEM WITHOUT RELAYS
003	CABLE SET 1 m + 1.5 m + 2.25 m + 0.3 m GREEN-YELLOW EARTHING CABLE

3.0 Specification and vendor compliance

Sl.	Description Data		Supplier			
No			compliance			
1	Voltage detection system with Relay					
1.1	System voltage(phase to phase)	33kV				
1.2	Frequency	50Hz				
1.3	Threshold Voltage	4 to 5V				
1.4	Type of Protection	IP54				
1.5	Operating temperature	-5 to 60°C				
1.6	power supply:	48V DC				
	External or No external power supply					
	required					
1.7	Relay Contact	C/O				
	Two change over Contact C-NC-NO	Potential free				
	As per connection diagram fig a.					
1.8	Red LCD display					
1.9	Test sockets available for phase comparison					
1.10	Additional third socket for testing the					
	integrated LCD display					
1.11	Secure cover for sockets					
1.12	Sensible test process using three feeler pins					
1.13	Integrated breaking point for voltage-					
	limiting					
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		Sl. No	Descrip	tion		Data			plier ipliance
		1.14	No in-se	rvice test re	quired				
	tricals st of Co.	1.15	voltage RG58 c	tap via sui oaxial cabl or 4.8x0.8 n	ze 2 connex bushing with table matching cable 3 x e with 3 x flat sleevenm to connect with size 2				
,	property of Bharat Heavy Electricals ed any way detrimental to interest of C	1.16	Confirm		ection arrangement as				
IA	at He ntal	2			system without Relay				
Z	3hara imer	2.1			se to phase)	33kV			
UE	of I	2.2		Frequency					
Z	erty way	2.3	Thresho	ld voltage		4 to 5	V		
3	prop ted	2.4	Type of	Protection		IP66			
	is the pro Limited ctly in any	2.5	Operatir	Operating temperature					
T A	ent is I lirect	2.6	Red LCD	Red LCD display					
H ₅	The information on this document is the property of Bharat Heavy Electrica Limited It must not be used directly or indirectly in any way detrimental to interest of	2.7	Test soc	kets availab	le for phase comparison				
COPYRIGHT AND CONFIDENTIAL		2.8		Additional third socket for testing the integrated LCD display					
<u>ی</u>	ion c	2.9	Secure c	Secure cover for sockets					
	rmati be u	2.10	Sensible	Sensible test process using three feeler pins					
	The infor must not	2.11	Integrat	Integrated breaking point for voltage-limiting					
		2.12	No in-se	rvice test re	quired				
	П	2.13	2.13 Connected with Size 2 connex bushing with voltage tap via suitable matching cable 3 x RG58 coaxial cable with 3 x flat sleeve-connector 4.8x0.8 mm to connect with size 2 bushing						
		2.14	Confirm shown i		ection arrangement as				
		3.0		Dimensions			m(Max) X n(Max) X m(Max)	ζ	
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Fig a - Voltage detection system with Relay

VDS connecting diagram for GIS

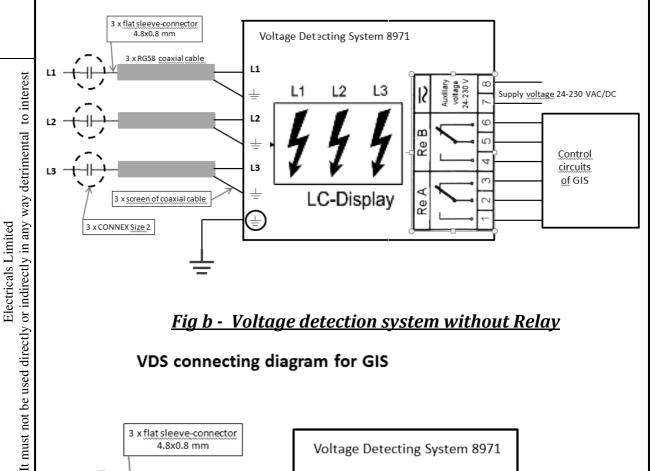
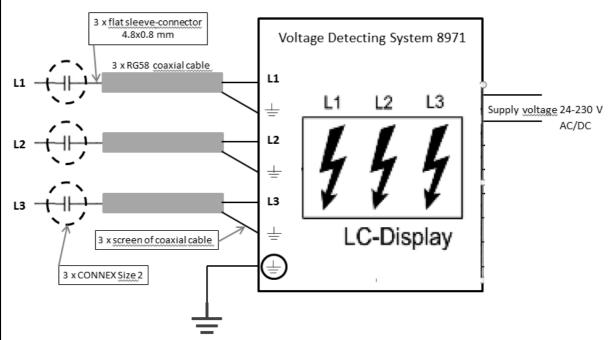


Fig b - Voltage detection system without Relay

VDS connecting diagram for GIS



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