SCG-250-500-S-R02

VLD - for DC traction / VLD class 1 (SCG)

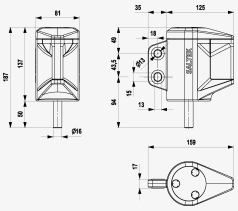
Class 1 Type F VLD with non-contact operational status signalling

VLD class 1, Type F with non-contact operational status signalling

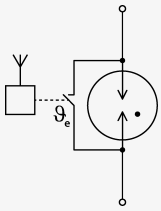
- intended for DC traction power systems
- protects against hazardous touch voltages and limits the effects of stray currents
- installation between exposed conductive parts (masts, railings, etc.) and the traction return circuit (rails)
- in the event of a traction line fault and its contact with the protected structure, ensures rapid tripping of the section circuit breaker
- integrated control and signalling module enables operational status diagnostics without interruption of operation and dismantling
- rapid verification of operational status using a non- contact reader from a distance of up to 2 m



Product dimensions



Basic circuit diagram



Parameter name		Parameter value
Class VLD according to EN 50526-2		1
Type VLD according to EN 50122-1		F
Short-time withstand current (non-repeatable) @ 100 ms	I_w	15,00 kA DC
Leakage current at Uw	I_L	< 1,00 µA DC
Rated current (@ 60 min)	I_r	250,00 A DC
Nominal triggering voltage	U_{Tn}	0,00 V DC
Instantaneous triggering voltage	U_{Ti}	0,00 V DC
Non-triggering voltage	U_w	500,00 V DC
Maximal residual voltage at Iw	U_{RES}	50,00 V DC
Maximal residual voltage at Ir - before short circuit	U_{RES}	30,00 V DC

Maximal residual voltage at Ir - after short circuit	U_{RES}	0,25 V DC
High charge impulse (10/350)	I_{imp-hc}	15.00 kA
Lightning current impulse (8/20)	I_{imp-n}	20.00 kA
High current impulse (8/20)	$I_{imp-high}$	40.00 kA
Response time	T_R	10,00 µs
Mounting		surface / angle bracket / stainless steel banding
Degree of protection		IP 68
Remote indication		RFID
Remote fault indication frequency range		UHF 865-868 MHz
Weight		2.20 kg
Operating temperature range, outdoor installation (min/max)		–40 / 70 °C
Range of ambient temperatures, outdoor installation (min/max)		–40 / 50 °C
According to standard		EN 50526-2:2014, IEC 62848-2 Ed.1:2019, EN 50121-4:2016+A1:2019, eq. IEC 61000-4 and IEC 61000-6 series, ETSI EN 302 208, EN 50122-1:2022+A1:2025
ETIM Class		EC002496
Customs tariff number		85354000
EAN		8595090574927
Order number		A07492