SCG-250-500-R01

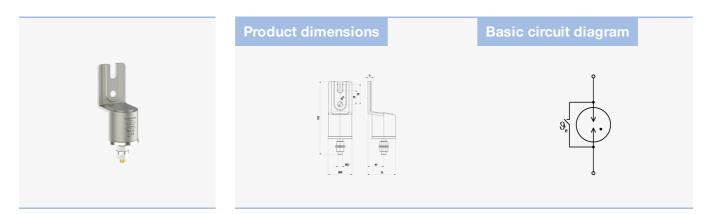
VLD - for DC traction / VLD class 1 (SCG)

Voltage limiting device VLD class 1, type VLD-F

- the VLD is used to restrict excessive high contact voltages arising on exposed conductive parts of a railway equipment in case of a disturbance (short-circuit) in AC and DC railway electric traction systems, thus ensuring protection to persons that may come into contact with the parts mentioned
- in case of an overload caused by caused by shortcircuit or long-term withstand current the internal patented (PV CZ2017248) short-circuiting device intervenes by establishing a permanent short circuit across the protective element
- in the event of a failure connection between a live power supply part of the traction system and an exposed conductive part (e.g. due to the overhead power line fall) the VLD protects the parts affected by causing conductive itself, which results in turning off of the power supply
- the integrated protective element effectively eliminates high impulse overvoltage induced into the traction mains or railway equipment by a lightning strike

the SCG is connected between the protected part and the return circuit

easy mounting, installation right away on the protected equipment



Parameter name		Parameter value
Class VLD according to EN 50526-2		1
Type VLD according to EN 50122-1		F
Short-circuit current (@ 300 ms)	I _{SCC}	5.0 kA
Leakage current at Uw	١L	< 1 µA
Non-triggering voltage	Uw	260.00 V

High charge impulse (10/350)Imp-hc50.00 kALightning current impulse (8/20)Imp-hg100.00 kAHigh current impulse (8/20)Imp-high100.00 kANominal triggering DC voltage*UTn480 VMaximal residual voltage at IrURES35.00 VMaximal residual voltage at IwURES100.00 VInstantaneous triggering voltage*UTi480.00 VShort time withstand current (@ 60 ms)Iw1.0 kAResponse timeta10000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number8595090561552EANOxder numberOrder number0.06155			
High current impulse (8/20)Imp-high imp-high100.00 kANominal triggering DC voltage*UTn480 VMaximal residual voltage at IrURES35.00 VMaximal residual voltage at IwURES100.00 VInstantaneous triggering voltage*UTi480.00 VShort time withstand current (@ 60 ms)Iw1.0 kAResponse timeta10000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552Veriant of the common state of the common st	High charge impulse (10/350)	I _{imp-hc}	50.00 kA
Nominal triggering DC voltage*U Tn480 VMaximal residual voltage at IrU RES35.00 VMaximal residual voltage at IwU RES100.00 VInstantaneous triggering voltage*U Ti480.00 VShort time withstand current (@ 60 ms)I w1.0 kAResponse timeta10 000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552*in ionized mode	Lightning current impulse (8/20)	l _{imp-n}	100.00 kA
Maximal residual voltage at IrURES35.00 VMaximal residual voltage at IwURES100.00 VInstantaneous triggering voltage*UTi480.00 VShort time withstand current (@ 60 ms)Iw1.0 kAResponse timeta10 000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552win ionized mode*in ionized mode	High current impulse (8/20)	l _{imp-high}	100.00 kA
Maximal residual voltage at IwURES100.00 VInstantaneous triggering voltage*UTi480.00 VShort time withstand current (@ 60 ms)Iw1.0 kAResponse timeta10 000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552*in ionized mode	Nominal triggering DC voltage*	U _{Tn}	480 V
Instantaneous triggering voltage*U480.00 VShort time withstand current (@ 60 ms)Iw1.0 kAResponse timeta10 000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552Weight*in ionized mode	Maximal residual voltage at Ir	U _{RES}	35.00 V
Short time withstand current (@ 60 ms) Iw 1.0 kA Response time ta 10 000 ns Degree of protection IP 67 Range of ambient temperatures (min/max) -40 / 70 °C According to standard EN 50122-1, EN 50526-2 Weight 0.84 kg ETIM Class EC002496 Customs tariff number 85363030 EAN 8595090561552 *in ionized mode	Maximal residual voltage at Iw	U _{RES}	100.00 V
Response timeta10 000 nsDegree of protectionIP 67Range of ambient temperatures (min/max)-40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552Image of and the second se	Instantaneous triggering voltage*	U _{Ti}	480.00 V
Degree of protection IP 67 Range of ambient temperatures (min/max) -40 / 70 °C According to standard EN 50122-1, EN 50526-2 Weight 0.84 kg ETIM Class EC002496 Customs tariff number 85363030 EAN 8595090561552 *in ionized mode	Short time withstand current (@ 60 ms)	۱ _w	1.0 kA
Range of ambient temperatures (min/max)40 / 70 °CAccording to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552in in onized mode*in in onized mode	Response time	t _a	10 000 ns
According to standardEN 50122-1, EN 50526-2Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552*in ionized mode	Degree of protection		IP 67
Weight0.84 kgETIM ClassEC002496Customs tariff number85363030EAN8595090561552Image: Comparison of the target of t	Range of ambient temperatures (min/max)		-40 / 70 °C
ETIM Class EC002496 Customs tariff number 85363030 EAN 8595090561552 *in ionized mode	According to standard		EN 50122-1, EN 50526-2
Customs tariff number 85363030 EAN 8595090561552 *in ionized mode	Weight		0.84 kg
EAN 8595090561552 *in ionized mode	ETIM Class		EC002496
*in ionized mode	Customs tariff number		85363030
	EAN		8595090561552
Order number A06155			*in ionized mode
	Order number		A06155

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