OVR T1-T2 3L 12.5-440s P TS QS 2CTB815710R3500

EAN: 3660308525086 FR : B752508

Type

T1-T2

Imax: 80 kA

limp: 12,5 kA

Type 1 + 2 SPD's have characteristics of type 1 but also type 2, they are capable of discharging a very high lightning current (T1 10/350µs) and they have as well a low residual voltage (Up).

They are installed in the main distribution switchboard but also in subdistribution board.

Because of their power, Type 1 + 2 SPD's can let pass through a too high residual voltage, if the announced Up is not compatible with the withstand voltage of the equipment to protect or if the cable length to the equipment is longer than 10m, another level of coordination with OVR T2-T3, OVR T3 will be needed.

Thanks to the patented Safety Reserve system, you can extend the lifespan of the installation plan maintenance to reduce downtime risk.

Up: 2 kV System

TN-C: 400/690 V IT: 230/400 V



IEC 61643-11 EN 61643-11

- Patented QuickSafe ® technology
- Safety Reserve system
- Din rail mounting
- Pluggable
- Improved safety
- Back up protection up to 160 A Fuse or 125 A Mcb

Protection mode	Key characteristics			
Test class 1-II Integrated thermal disconnector Yes End of life indicator Yes Electrical characteristics Yes Electrical characteristics In (8/20) kA 20 Maximal discharge current In (8/20) kA 80 Impulse current Inmax (8/20) kA 12,5 Inmax (8/20) kA 80 Impulse current Inmax (8/20) kA 12,5 Impul	Protection mode			L-PEN
Integrated thermal disconnector Yes	Number of protected lines			3
End of life indicator Yes Safety reserve Yes Electrical characteristics Nominal discharge current In (8/20) kA 20 Maximal discharge current In (8/20) kA 80 Impulse current In (8/20) kA 12,5 Maximal discharge current In (8/20) kA 80 Impulse current In (8/20) kA 12,5 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage U.C V 560 Type of current / frequency Hz a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (L-PE) kV - Voltage protection level at In Up (N-PE) kV - Short circuit withstand In (N-PE) kV - Total current Interrupted In (N-PE) kV - Follow current interrupted In kA 37,5 Follow current interrupted In kA - /- Ground residual current Interrupted In kA - /- Voltage Combination Wave Uoc kV - Voltage Combination Wave Uoc kV - Required thermal/back up protection Curve B or C Circuit breaker A ≤ 125 gG - gL fuse A ≤ 125 Dimensions H x w x D mm 95x106.8x69.4 Wire range : Stranded wire mm² 2.535 Wire range : Stranded wire mm² 2.535 Wire range : Stranded wire mm² 2.535 Maximal altitude mm 2000 Maximal altitude mm 2000 Response time ns < 225 Phase / Product ID OVR T1-T2 12.5-440 s C OS 2CTB815710R5500	Test class			I - II
Safety reserve Yes	Integrated thermal disconnector			Yes
Section Sec	End of life indicator			Yes
Nominal discharge current In (8/20) kA 20 Maximal discharge current In (8/20) kA 80 Impulse current In (8/20) kA 80 Impulse current In (8/20) kA 12,5 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage d.c Uc dc V 560 Type of current / frequency Hz a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (L-PE) kV -	Safety reserve			Yes
Maximal discharge current Imax (8/20) kA 80 Impulse current I Imp (10/350) kA 12,5 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage Uc V 560 Type of current / frequency Hz a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (N-PE) kV - Voltage protection level at In Up (N-PE) kV - Short circuit withstand Isccn kA 100 Total current Isccn kA 100 Total current interrupted In kA -/- Ground residual current IpE µA <1000	Electrical characteristics			
Impulse current Imp (10/350) kA 12,5 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage d.c Uc dc V 550 Type of current / frequency Hz a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (L-N) kV -	Nominal discharge current	In (8/20)	kA	20
Maximal continuous operating voltage Uc V 440 Maximal continuous operating voltage d.c Uc dc V 560 Type of current / frequency Hz a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (L-N) kV - Voltage protection level at In Up (N-PE) kV - Voltage protection level at In Up (N-PE) kV - Voltage protection level at In Up (N-PE) kV - Voltage protection level at In Up (N-PE) kV - Short circuit withstand Is core kA 100 Total current In kA -/ - Ground residual current In kA -/ - Ground residual current In kA -/- - Voltage Combination Wave Uoc kV - Required thermal/back up protection Type of Circuit breaker A ≤ 125 gG - gL fuse A ≤ 160 <t< td=""><td>Maximal discharge current</td><td>I_{max} (8/20)</td><td>kA</td><td>80</td></t<>	Maximal discharge current	I _{max} (8/20)	kA	80
Maximal continuous operating voltage d.c Uc dc V 560 Type of current / frequency HZ a.c. 47-63 Voltage protection level at In Up (L-PE) kV 2 Voltage protection level at In Up (L-N) kV - Voltage protection level at In Up (N-PE) kV - Voltage protection level at In Up (N-PE) kV - Short circuit withstand Iscore kA 100 Total current Iscore kA 100 Total current interrupted In kA -/- Ground residual current IpE µA <1000	Impulse current	/ _{imp} (10/350)	kA	12,5
Type of current / frequency Voltage protection level at In	Maximal continuous operating voltage	Uc	V	440
Voltage protection level at In U_P (L-PE) kV 2 Voltage protection level at In U_P (L-N) kV - Voltage protection level at In U_P (N-PE) kV - Short circuit withstand I_{SCCR} kA 100 Total current I_{TOTAL} kA 37,5 Follow current interrupted I_R kA -/- Ground residual current I_{PE} I_PA <1000 TOV withstand (L-N:55 / N-PE:200 ms) I_PE I_PA <1000 TOV withstand (L-N:55 / N-PE:200 ms) I_PE I_PA <1000 TOV withstand I_PA I_PA I_PA <1000 TOV mithstand I_PA	Maximal continuous operating voltage d.c	U C d.c	V	560
Voltage protection level at In U_p (N-PE) V_p (N-PE)	Type of current / frequency		Hz	a.c. 47-63
Voltage protection level at In U_P (N-PE) kV Short circuit withstand I_{SCCR} kA 100 Total current I_{TOTAL} kA 37,5 Follow current interrupted I_B kA -/- Ground residual current I_{PE} I_B kA -/- Ground residual current I_{PE} I_B kA -/- Woltage Combination Wave I_{PE}	Voltage protection level at In	U _P (L-PE)	***	2
Short circuit withstand Iscore KA 100	Voltage protection level at In	U _P (L-N)	kV	-
Total current Total curr	Voltage protection level at In	<i>U</i> _P (N-PE)	kV	-
Follow current interrupted In KA -7- Ground residual current IPE	Short circuit withstand	/sccr	kA	100
Ground residual current IPE	Total current	/TOTAL		1 11
TOV withstand (L-N : 5s / N-PE : 200 ms) TOV withstand (L-N : 5s / N-PE : 200 ms) Voltage Combination Wave Voc kV - Required thermal/back up protection Curve B or C Circuit breaker GG - gL fuse A ≤ 125 GG - gL fuse A ≤ 160 Comments Mechanical characteristics Dimensions H x W x D mm 95x106.8x69.4 Wire range : Solid wire mm² 2.535 Wire range : Stranded wire Stripping length mm 12.5 Packing quantities maximal altitude Meighaleneous characteristics Maximal altitude m 2000 Weight g 900 Response time Ins <25 Fire resistance according to UL 94 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Follow current interrupted	/ fi	kA	,
Voltage Combination Wave Uoc kV -	Ground residual current	/PE	Part 1	
Required thermal/back up protection Curve B or C Circuit breaker A ≤ 125 gG - gL fuse A ≤ 160 Comments Both state of the color	TOV withstand (L-N: 5s / N-PE: 200 ms)	Uτ		581 / -
Curve B or C Circuit breaker A ≤ 125 gG - gL fuse A ≤ 160 Comments Mechanical characteristics Dimensions H x W x D mm 95x106.8x69.4 Wire range: Solid wire mm² 2.5 35 Wire range: Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics Maximal altitude m 2 000 Weight g 900 Response time ns < 25 Fire resistance according to UL 94 V-0 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Voltage Combination Wave	<i>U</i> oc	kV	-
gG - gL fuse A ≤ 160 Comments Mechanical characteristics Dimensions Hx Wx D mm 95x106.8x69.4 Wire range : Solid wire mm² 2.5 35 Wire range : Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics Maximal altitude m 2 000 Weight g 900 Response time ns <25 Fire resistance according to UL 94 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Required thermal/back up protection			
Mechanical characteristics	Curve B or C Circuit breaker			
Mechanical characteristics H x W x D mm 95x106.8x69.4 Wire range : Solid wire mm² 2.5 35 Wire range : Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics m 2 000 Weight g 900 Response time ns <25	gG - gL fuse		Α	≤ 160
Dimensions H x W x D mm 95x106.8x69.4 Wire range : Solid wire mm² 2.5 35 Wire range : Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics m 2 000 Weight g 900 Response time ns <25	Comments			
Wire range : Solid wire mm² 2.5 35 Wire range : Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics m 2 000 Weight g 900 Response time ns <25	Mechanical characteristics			
Wire range : Stranded wire mm² 2.5 25 Stripping length mm 12.5 Packing quantities piece Per 1 Miscellaneous characteristics Maximal altitude m 2 000 Weight g 900 Response time ns <25	Dimensions	HxWxD	mm	
Stripping length	Wire range : Solid wire		mm²	
Packing quantities piece Per 1 Miscellaneous characteristics Maximal altitude m 2 000 Weight g 900 Response time ns <25 Fire resistance according to UL 94 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Wire range : Stranded wire		mm²	
Miscellaneous characteristics	Stripping length			
Maximal altitude m 2 000 Weight g 900 Response time ns <25	Packing quantities		piece	Per 1
Weight 9 900 Response time ns <25 Fire resistance according to UL 94 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Miscellaneous characteristics			
Response time	Maximal altitude		m	
Fire resistance according to UL 94 Replacement cartridges Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Weight			
Replacement cartridges Phase / Product ID	Response time		ns	
Phase / Product ID OVR T1-T2 12.5-440s C QS 2CTB815710R5500	Fire resistance according to UL 94			V-0
	Replacement cartridges			
Moutral / Draduat ID	Phase / Product ID	OVR T1-T2 12.5-440s C QS		2CTB815710R5500
Neutral / Product ID	Neutral / Product ID	-		-

















