Protection and safety

OVR Type 2 pluggable QuickSafe® surge protective devices Single pole 230 V networks

Technical features

Types			**OVR T2 40-275 P QS**	**OVR T2 40-275s P QS**
with auxiliary contact (TS)			**OVR T2 40-275 P TS QS**	**OVR T2 40-275s P TS QS**
Technology			Varistor	Varistor
Electrical features				
Standard			IEC 61643-11/EN 61643-11:2012/A11:2018	IEC 61643-11/EN 61643-11:2012/A11:2018
Type/test class			T2/II	T2/II
Protected lines			1	1
System network			TT(L-N)-TNS-TNC	TT(L-N)-TNS-TNC
Type of current			AC 47-63 Hz	AC 47-63 Hz
Voltage regulation of the system network			± 20%	± 20%
Nominal system voltage Un		[V]	230	230
Max. cont. operating voltage Uc		[V]	275	275
Nominal dc voltage Un dc L-PE		[V dc]	320	-
Max. dc. cont. operating voltage Ucdc L-PE		[V dc]	355	-
Maximum discharge current Imax (8/20)		[kA]	40	40
Maximum impulse current Iimp (10/350)		[kA]	2	2
Nominal discharge current In (8/20)		[kA]	20	20
Voltage protection level Up at In (L-N/N-PE/L-PE)		[kV]	1.25/-/1.25	1.4/-/1.4
Voltage protection level Ures at 3kA (L-N)		[kV]	0.8	0.5
Voltage protection level Ures at 5kA (L-N)		[kV]	0.85	0.7
Voltage protection level Ures at 10kA (L-N)		[kV]	1	0.9
TOV (Temporary overvoltage) withstand Ut (L-N: 5s./N-PE: 200ms)		[V]	337/-	337/-
Response time		[ns]	≤ 25	≤ 25
Short-circuit withstand capability Isccr		[kA]	100	100
Backup protection maximum rating	fuse (gG)	[A]	≤ 125	≤ 160
	circuit breaker (B or C curve)	[A]	≤ 125	≤ 125
Pluggable cartridge			Yes	Yes
Integrated QuickSafe® technology			Yes	Yes
State indicator			Yes	Yes
Safety reserve			No	Yes
Auxiliary contact			Yes (TS option)	Yes (TS option)
Installation				
Wire range (L, N, PE)	solid wire	[mm²]	2.5 ... 35	2.5 ... 35
	stranded wire	[mm²]	2.5 ... 25	2.5 ... 25
Stripping length (L, N, PE)		[mm]	12.5	12.5
Tightening torque (L, N, PE)		[Nm]	2.8	2.8
Auxiliary contact (TS)				
Contacts information			1 NO - 1 NC	1 NO - 1 NC
Min. load			12 V DC - 10 mA	12 V DC - 10 mA
Max. load			250 V AC - 1 A	250 V AC - 1 A
Connection cross-section		[mm²]	1.5	1.5
Miscellanous characteristics				
Stocking and operating temperature		[°C]	-40 to +80	-40 to +80
Maximal Altitude		[m]	5000	5000
Degree of protection			IP 20	IP 20
Fire resistance according to UL 94			V0	V0
Dimensions				
height x width x depth		[mm]	88 x 17.8 x 65.3	88 x 17.8 x 76.7
		[inches]	3.46 x 0.7 x 2.57	3.46 x 0.7 x 3.02
With Auxiliary Contact (TS)				
height x width x depth		[mm]	95.8 x 17.8 x 65.3	95.8 x 17.8 x 76.7
		[inches]	3.77 x 0.7 x 2.57	3.77 x 0.7 x 3.02
Replacement Cartridges				
Phase Product ID			OVR T2 40-275 C QS 2CTB803876R1000	OVR T2 40-275s C QS 2CTB815704R2600
Neutral Product ID			-	-

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OVR T2 40-275 P QS

Type 2 surge protective devices are designed to protect electric installations and sensitive equipment against indirect surges with ensuring a low protection level (Up). They are characterized by their capacity to safely discharge current with 8/20 µs wave form.

Type 2 pluggable

Poles	Max discharge current Imax 8/20	Nominal discharge current In	Voltage protection level Up	Nominal voltage Un	Max. cont. operating voltage Uc	Bbn 3660308	Order details		Weight 1 piece
	kA	kA	kV	V	V	EAN	Type code	Order code	kg
1	40	20	1.25	230	275	519580	OVR T2 40-275 P QS	2CTB803871R2300	0.12
1	40	20	1.25	230	275	519597	OVR T2 40-275 P TS QS	2CTB803871R1700	0.12
1	40	20	1.4	230	275	525291	OVR T2 40-275s P QS	2CTB815704R1200	0.15
1	40	20	1.4	230	275	525222	OVR T2 40-275s P TS QS	2CTB815704R0000	0.15
1	40	20	1.5	230	350	520609	OVR T2 40-350 P QS	2CTB803881R2300	0.12
1	40	20	1.5	230	350	520562	OVR T2 40-350 P TS QS	2CTB803881R1700	0.12
1	80	20	1.4	230	275	525475	OVR T2 80-275s P QS	2CTB815708R1200	0.15
1	80	20	1.4	230	275	525406	OVR T2 80-275s P TS QS	2CTB815708R0000	0.15
1	80	30	1.4	230	275	519658	OVR T2 N 80-350 P QS	2CTB803983R1900	0.12
1	80	30	1.4	230	275	519641	OVR T2-T3 N 80-275 P QS	2CTB803973R1900	0.12
1	80	30	1.4	230	275	525536	OVR T2 N 80-275s P QS	2CTB815708R2500	0.12