

Technical data

OTDC16...250, OT315...630 and OTDCP16...32

Technical data according to IEC 60947 for switch-disconnectors OTDC and OT

Switch size		A
Rated insulation voltage U_i	Pollution degree 2	V
	Pollution degree 3	V
Dielectric strength	50 Hz 1 min	kV
Rated impulse withstand voltage		kV
Rated thermal current I_{th}	In open air, normal conditions ²⁾	A
	In enclosure 40°C	A
	In enclosure 60°C	A
... with minimum cable or bar cross section	Cu	mm ²
Rated operational current / poles in series DC-21B	500 V	A
	550 V	
	660 V	A
	800 V	
	1000 V	A
Rated short-time withstand current, 1000 V, 1 s	1000 V / 2x660 V ³⁾	A
	R.M.S. -value I_{sw}	kA
Rated short circuit making capacity, 1000 V	Peak value I_{cm}	kA
	Max. distance from switch frame to nearest busbar / cable support	mm
Power loss / pole	At rated current	W
Cable size	Cu	mm ²
Terminal bolt size	Metric thread diameter × length	mm
Terminal tightening torque	Counter torque required	Nm

¹⁾ When used with external handle. For use with direct mounted handle, see installation instructions for restrictions

²⁾ Normal conditions defined in IEC 60947-1-6.1

³⁾ 1000 V with all the poles connected in series, 600 V with 2 poles in series

Technical data in accordance to UL98B for switch-disconnectors OTDC100 and OTDC200

Suitable For Use in Photovoltaic Systems in Accordance With Article 690 of the NEC.

Switch size		OTDC100	OTDC200
Voltage rating	VDC	1000	1000
Current rating	A	100	200
Rated ambient temperature	°C	-20...+50	-20...+50
Short circuit rating at 1000 VDC	kA	5	5
	Class of fuse	Circuit breaker	Circuit breaker
Mechanical endurance	Divide by two for operation cycles	Oper. 4000	4000
Wire range	MCM	#4-300	#4-300

OTDC16	OTDC25	OTDC32	OTDC100	OTDC160	OTDC200	OTDC250	OT315	OT400	OT630
1250 ¹⁾	1250 ¹⁾	1250 ¹⁾	1500	1500	1500	1500	1 000	1 000	1 000
1000 ¹⁾	1000 ¹⁾	1000 ¹⁾	1500	1500	1500	1500	1 000	1 000	1 000
6	6	6					10	10	10
8	8	8	12	12	12	12	12	12	12
25	32	45	100	160	200	250	315	400	630
25	32	45	100	160	200	250	315	400	630
25	32	32	80	125	160	200	280	320	500
4	6	10	35	70	95	120	185	240	2x185
			100/1	160/1	200/1	250/1			
							315/4	400/4	600/4
16/2	25/2	32/2							
							315/5	400/5	600/5
16/3	25/3	32/3	100/2	160/2	200/2	250/2	315/6	400/6	600/6
16/4	25/4	32/4							
0.4	0.6	0.8	5	5	5	5	15	15	20
			5	5	5	5			
			150	150	150	150			
0.15	0.3	0.5	2	4	6	9.5	6.5	10	25
2.5...16	2.5...16	2.5...16							
			M8x25	M8x25	M8x25	M8x25	M10x30	M10x30	M12x40
			15-22	15-22	15-22	15-22	30-44	30-44	50-75

Technical data according to IEC 60947 for enclosed switch-disconnectors OTDCP

Switch size		A	OTDCP16	OTDCP25	OTDCP32
Rated insulation voltage	Pollution degree 2	V	1250	1250	1250
	Pollution degree 3	V	1000	1000	1000
Dielectric strength	50 Hz 1 min	kV	6	6	6
Rated impulse withstand voltage		kV	8	8	8
Rated thermal current I _{th}	DC-20				
	In enclosure 40°C	A	25	32	45
	In enclosure 60°C	A	25	32	32
Rated operational current / poles in series	660 V	A	16/2	25/2	32/2
	1000 V	A	16/3	25/3	32/3
	1000 V / 2x660 V ⁴⁾	A	16/4	25/4	32/4
Rated short-time withstand current, 1000 V, 1 s	R.M.S. -value I _{sw}	kA	0.4	0.6	0.8
Power loss / pole	At rated current	W	0.15	0.3	0.5

⁴⁾ 1000 V with all the poles connected in series, 600 V with 2 poles in series