

Switch-disconnectors 16...3150 Amperes

Manual operation



IEC	OT16F	OT63F	OT100F	OT160E	OT160EV	OT315E
	OT25F	OT80F	OT125F		OT200E	OT400E
	OT40F				OT250E	
UL	OT16F	OT63F	OT30F	OT160E		OT200U
	OT25F	OT80F	OT60F			
	OT40F		OT100F			

Switch size	16 25 40	63 80	30 60 100 125	160	160 200 250	200	315 400
IEC I_{th} [A]	25 32 40	63 80	115 125	200	200 200 250		315 400
I_n /AC22A ≤ 415V [A]	16 25 40	63 80	100 125	160	200 200 250		315 400
I_n /AC23A ≤ 415V [A]	16 20 23	45 75	80 90	135	200 200 250		315 400
UL Ampere rating [A]	20 30 40	60 80	30 60 100	100		200	

Motor operation



IEC	OTM160E	OTM315E
	OTM200E	OTM400E
	OTM250E	

Switch size [A]	160 200 250	315 400
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Accessories

- Optional handles
- Extended shafts
- Legend plates
- Auxiliary contacts
- Fourth poles

- N & PE terminals
- Terminal shrouds
- Connecting accessories
- Conversion kits
- Locking accessories
- Motor operators



	OT630E		OT1000E	OT2000E	OETL3150K
	OT800E		OT1250E	OT2500E	
			OT1600E		
OT400U	OT600U		OT800U		OETL-NF1600
			OT1200U		OETL-NF2000

400	600 630 800	800 1000 1200 1250 1600	2000 2500	1600 2000 3150
	630 800	1000 1250 1600	2000 2500	3150
	630 800	1000 1250 1600	2000 2500	
	630 800	1000 1250 1600		
400	600	800 1200		1600 2000



OTM630E		OTM1000E	OTM1600E	OTM2000E
OTM800E		OTM1250E		OTM2500E

630 800	1000 1250	1600	2000 2500
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Switch-disconnectors OT 16...160

Technical data

Technical data according to IEC 60947-3		Size	A	16
		Switch type		OT16
Rated insulation voltage and rated operational voltage AC20/DC20 Pollution degree 3			V	750
Dielectric strength		50 Hz 1min.	kV	6
Rated impulse withstand voltage			kV	8
Rated thermal current and rated operational current AC20/DC20		ambient 40°C ⁹⁾	In open air	25
		ambient 40°C ⁹⁾	In enclosure	25
		ambient 60°C	In enclosure	20
..with minimum conductor cross section		Cu	mm ²	4
Rated operational current, AC-21A		up to 415 V	A	16
		440 - 690 V	A	16
Rated operational current, AC-22A		up to 415 V	A	16
		440 - 500 V	A	16
		690 V	A	16
Rated operational current, AC-23A		up to 415 V	A	16
		440 V	A	16
		500 V	A	16
		690 V	A	10
Rated operational current / poles in series, DC-21A		24 - 48 V ⁹⁾	A	16/1
		110 V	A	16/2
		220 V	A	16/3
		440 V	A	16/4
		500 V	A	16/4
		750 V	A	16/8
Rated operational current / poles in series, DC-22A		24 - 48 V ⁹⁾	A	16/1
		110 V	A	16/2
		220 V	A	16/3
		440 V	A	10/4
		750 V	A	16/8
Rated operational current / poles in series, DC-23A		24 - 48 V ⁹⁾	A	16/1
		110 V	A	16/2
		220 V	A	16/4
		440 V	A	10/4
		750 V	A	16/8
Rated operational power, AC-23A (These values are given for guidance and may vary acc. to the motor manufacturer)		220-240 V	kW	3
		400-415 V	kW	7.5
		440 V	kW	7.5
		500 V	kW	7.5
		690 V	kW	7.5
Rated breaking capacity, AC-23A		up to 415 V	A	128
		440 V	A	128
		500 V	A	128
		690 V	A	80
Rated breaking capacity/poles in series, DC-23A		24 - 48 V	A	64/1
		110 V	A	64/2
		220 V	A	64/3
		440 V	A	40/4
		750 V	A	64/8
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{I}_c		I_p (r.m.s.)	kA	6.5
		Max. OFA_ fuse size gG/aM	A	40/32
		I_p (r.m.s.)	kA	
		Max. OFA_ fuse size gG/aM	A	
The cut-off current \hat{I}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)		I_p (r.m.s.)	kA	
		Max. OFA_ fuse size gG/aM	A	
		I_p (r.m.s.)	kA	4
		Max. OFA_ fuse size gG/aM	A	25/16
Rated short-time withstand current		r.m.s. -value I_{ow}	kA	
		690V, 0.25 s	kA	
		r.m.s. -value I_{ow}	kA	0.5
		690V, 1s	kA	
Rated short circuit making capacity		Peak value I_{om}	kA	0.705
Rated capacitor power (The capacitor ratings are limited by the fuse link.)		400 - 415 V	kVA _r	6.5
Power loss / pole		At rated operational current	W	0.3
Mechanical endurance		Divide by two for operation cycles	Oper.	20 000
Weight without accessories		3-pole	kg	0.11
		4-pole	kg	0.15
Cable size		Cu-wire size suitable for terminal clamps	mm ²	0.75-10
			AWG	18-8
Terminal tightening torque		Counter torque required	Nm	0.8
Operating torque		3-pole switch-disconnector	Nm	1

¹⁾ Below 48 V, two poles in parallel up to OT 80 are recommended particularly in polluted atmosphere

²⁾ 200A/min, 95 mm², use busbar connections OEZXX6/13 or OZXT2

³⁾ Acc. to IEC 60947-1, § 6.1.1.

25	40	63	80	100	125	160
OT25	OT40	OT63	OT80	OT100	OT125	OT160E
750	750	750	750	750	750	750
6	6	6	6	6	6	10
8	8	8	8	8	8	12
32	40	63	80	115	125	200
32	40	63	80	115	125	160
25	32	50	63	80	100	125
6	10	16	25	35	50	70
25	40	63	80	100	125	200 ^a
25	40	63	80	100	125	160
25	40	63	80	100	125	200 ^a
25	40	63	80	100	125	160
25	40	63	80	100	125	160
20	23	63	75	80	90	135
20	23	63	65	65	78	125
20	23	45	58	60	70	125
11	12	20	20	40	50	80
25/1	32/1	63/1	80/1	100/1	125/1	160/1
25/2	32/2	63/2	80/2	100/2	125/2	160/1
25/3	32/3	63/4	80/4	100/4	125/4	160/2
16/4	16/4	16/4	16/4			160/3
16/4	16/4	16/4	16/4			125/3
25/8	32/8					160/4
25/1	32/1	63/1	80/1	100/1	125/1	160/1
25/2	32/2	63/2	80/2	100/2	125/2	160/1
25/3	32/4	45/4	45/4	63/4	80/4	160/2
10/4	10/4	10/4	10/4			160/3
25/8	25/8					
25/1	32/1	63/1	80/1	100/1	125/1	160/1
25/2	32/2	63/2	80/2	100/2	125/2	160/1
25/4	32/4	45/4	45/4	63/4	63/4	160/2
10/4	10/4	10/4	10/4			160/3
16/8	16/8					
4	5.5	11	22	22	22	45
9	11	22	37	37	45	75
9	11	22	37	37	45	75
9	11	22	37	37	45	75
9	11	15	18.5	37	45	75
160	184	360	640	640	720	1 080
160	184	360	448	520	624	1 000
160	184	360	464	480	560	1 000
88	96	160	160	320	400	640
100/1	128/1	180/1	252/1	400/1	500/1	640/1
100/2	128/2	180/2	252/2	400/2	500/2	640/1
100/4	128/4	180/4	180/4	252/4	252/4	640/2
40/4	40/4	40/4	40/4			640/3
64/8	64/8					
6.5	6.5	13	13	16.5	16.5	
40/32	40/32	100/80	100/80	125/125	125/125	
		17	17			30
		100/80	100/80			200/250
				8.2	8.2	
				125/100	125/100	
4	4	11	11	10	10	24
25/16	25/16	80/63	80/63	63/63	63/63	200/250
						7
0.5	0.5	1	1.5	2.5	2.5	4
0.705	0.705	1.4	2.1	3.6	3.6	12
10	15	25	30	40	50	65
0.6	1.6	2.8	4.5	4.0	6.3	6.5
20 000	20 000	20 000	20 000	20 000	20 000	20 000
0.11	0.11	0.27	0.27	0.36	0.36	1.1
0.15	0.15	0.35	0.35	0.50	0.50	1.3
0.75-10	0.75-10	1.5-35	1.5-35	10-70	10-70	10-70
18-8	18-8	14-4	14-4	8-00	8-00	8-00
0.8	0.8	2	2	6	6	6
1	1	1.2	1.2	2	2	6

Switch-disconnectors OT 160..800

Technical data

Technical data according to IEC 60947-3		Size	A
		Switch type	
Rated insulation voltage and rated operational voltage AC-20, DC-20	Pollution degree 3	50 Hz 1min.	V
Dielectric strength			kV
Rated impulse withstand voltage			kV
Rated thermal current and rated operational current AC-20, DC-20 in ambient 40 °C ⁴⁾	In open air		A
	In enclosure		A
...with minimum cable cross section		Cu	mm ²
Rated operational current, AC-21A		≤ 500 V	A
		690 V	A
		1000 V	A
Rated operational current, AC-22A		≤ 500 V	A
		690 V	A
		1000 V	A
Rated operational current, AC-23A		≤ 500 V	A
		690 V	A
		1000 V	A
Rated operational current / poles in series, DC-21A...23A ¹⁾		24 - 110 V	A
		220 V	A
		440 V	A
		660 V	A
Rated operational current / poles in series, DC-21B		800 V	A
		1000 V	A
Rated operational power, AC-23 ³⁾		230 V	kW
		400 V	kW
		415 V	kW
		500 V	kW
		690 V	kW
Rated breaking capacity in category AC-23		≤ 500 V	A
		690 V	A
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current I_c	I_p (r.m.s.)	100 kA, 500 V	kA
	Max. OFA_ fuse size	gG/aM	A
The cut-off current \hat{I}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I_p (r.m.s.)	80 kA, 690 V	kA
	Max. OFA_ fuse size	gG/aM	A
Rated short-time withstand current	r.m.s. value I_{cw}	≤ 1000 V 0,15s	kA
		≤ 1000 V 0,25s	kA
		≤ 1000 V 1s	kA
Rated short-time making capacity	Peak value I_{cm}	≤ 1000 V	kA
Rated capacitor power	The capacitor ratings are limited by the fuse links	415 V	kVAr
When no initial charge on the capacitor		500 V	kVAr
		690 V	kVAr
Power loss / pole	With rated current		W
Mechanical endurance	Divide by two for oper. cycles		Oper.
Weight without accessories	3-pole switch		kg
Terminal bolt size	Metric thread diameter x length		mm
Terminal tightening torque	Counter torque required		Nm
Operating torque	3-pole switch disconnector		Nm

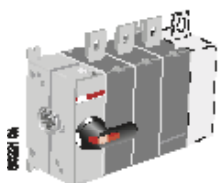
¹⁾ Further ratings on request

²⁾ Category B

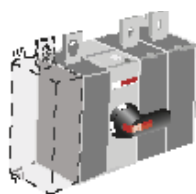
³⁾ These values are given for guidance and may vary acc. to the motor manufacturer.

⁴⁾ Acc. to IEC 60947-1, § 6.1.1.

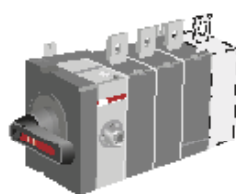
Placing options of the operating mechanism



At the end of
the switch fuse
OT_03 or 04



Between the poles
OT_12 or 22



Side operated types
OT_30 or 40
OT_03 or 04

160	200	250	315	400	630	800
OT160EV	OT200E	OT250	OT315	OT400	OT630	OT800
1000	1 000	1 000	1 000	1 000	1 000	1 000
10	10	10	10	10	10	10
12	12	12	12	12	12	12
200	200	250	315	400	630	800
160	200	250	315	400	630	800
70	95	120	185	240	2x185	2x240
200	200	250	315	400	630	800
160	200	250	315	400	630	800
160	200	250	315	400	630	800
200	200	250	315	400	630	800
160	200	250	315	400	630	800
160	200	250	315	400	630	800
160	200	250	315	400	630	800
160	200	250	315	400	630	800
135	135	135	200	200	400	400
160/2	200/2	250/2	315/1 ²⁾	400/1 ²⁾	630/1	800/1
160/2	200/2	250/2	315/2 ²⁾	400/2 ²⁾	630/1	800/1
160/3	200/3	250/3	315/3	360/3	630/2	800/2
160/4	200/4	230/4 ²⁾	315/4	360/4	630/4 ²⁾	650/4 ²⁾
	200/5	250/5	315/5	400/5	600/5	600/5
	200/6	250/6	315/6	400/6	600/6	600/6
48	60	75	100	132	200	250
80	110	140	160	220	355	450
88	110	145	180	230	355	450
112	132	170	220	280	400	560
144	200	250	315	400	630	800
1280	1 600	2 000	2 520	3 200	5 040	6 400
1280	1 600	2 000	2 520	3 200	5 040	6 400
40.5	40.5	40.5	61.5	61.5	90	90
315/315	315/315	315/315	500/450	500/450	800/1 000	800/1 000
40.5	40.5	40.5	59	59	83.5	83.5
355/315	355/315	355/315	500/500	500/500	800/1 000	800/1 000
15	15	15	31	31	38	38
15	15	15	24	24	36	36
8	8	8	15	15	20	20
30	30	30	65	65	80	80
80	100	115	145	180	250	310
96	120	135	175	215	300	375
128	160	190	250	325	450	550
3.2	4	6.5	6.5	10	25	40
20 000	20 000	20 000	16 000	16 000	10 000	10 000
1.2	1.2	1.2	2.2	2.2	5.2	5.2
M8x25	M8x25	M8x25	M10x30	M10x30	M12x40	M12x40
15-22	15-22	15-22	30-44	30-44	50-75	50-75
7	7	7	16	16	27	27

Switch-disconnectors OT 1000...2500 and OETL 3150

Technical data

Technical data according to IEC 60947-3		Size	A
		Switch type	
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V
Dielectric strength		50 Hz 1min.	kV
Rated impulse withstand voltage			kV
Rated thermal current and rated operational current AC20/DC20	ambient 40°C ¹⁾	In open air	A
	ambient 40°C ²⁾	In enclosure	A
	ambient 60°C	In enclosure	A
..with minimum conductor cross section	Cu		mm ²
Rated operational current, AC-21A		up to 690 V	A
		1000 V	A
Rated operational current, AC-22A		up to 500 V	A
		690 V	A
Rated operational current, AC-23A		up to 500 V	A
		690 V	A
Rated operational current / poles in series, DC-21A		24 - 48 V	A
		110 V	A
		220 V	A
Rated operational power, AC-23A		400-415 V	kW
(These values are given for guidance and may vary acc. to the motor manufacturer)		440 V	kW
		500 V	kW
		690 V	kW
Rated breaking capacity, AC-23A		up to 500 V	A
		690 V	A
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{i}_c	I_p (r.m.s.)	80 kA	kA
The cut-off current \hat{i}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)	Max. OFA_ fuse size gG/aM	≤ 415 V	A
	I_p (r.m.s.)	100 kA	kA
	Max. OFA_ fuse size gG/aM	≤ 500 V	A
	I_p (r.m.s.)	50 kA	kA
	Max. OFA_ fuse size gG/aM	≤ 690 V	A
Rated short-time withstand current	r.m.s. -value I_{cw}	690 V 0.25s	kA
		690 V 1s	kA
Rated short circuit making capacity	Peak value I_{cm}	415 V	kA
		500 V	kA
		690 V	kA
	Max. distance from switch frame to nearest busbar/cable support		mm
Rated capacitor power	The capacitor ratings	415 V	kVAr
When no initial charge on the capacitor	are limited by the fuse links	500 V	kVAr
		690 V	kVAr
Power loss / pole	At rated operational current		W
Mechanical endurance	Divide by two for operation cycles		Oper.
Weight without accessories	3-pole		kg
	4-pole		kg
Terminal bolt size	Metric thread diameter x length		mm
Terminal tightening torque	Counter torque required		Nm
Operating torque	3-pole switch-disconnector		Nm

¹⁾ Extended phase distance (185 mm)

²⁾ IEC 947-3, utilization category B, infrequent operation

³⁾ Phase barriers or terminal shrouds must be used on both sides of the switch at voltages ≥ 500 V.

⁴⁾ Pf. 0.65

⁵⁾ Maximum distance between busbar support and switch terminal 70 mm.

⁶⁾ 690 V: 2500 A

⁷⁾ The value is 92 kA for 4-pole switch-disconnectors.

⁸⁾ Acc. to IEC60947-1, § 6.1.1.

1000	1250	1600	2000	2500	3150
OT1000	OT1250	OT1600	OT2000	OT2500	OETL3150
1 000	1 000	1 000	1 000	1 000	1 000
10	10	10	10	10	8
12	12	12	12	12	8
1 000	1 250	1 600	2 000	2 500	3 150
1 000	1 250	1 600			2 600
					2 300
2x300	2x400	2x500	3x500	4x500	3x(100x10)
1 000	1 250	1 600	2 000 ²⁾	2 500 ²⁾	3 150 ^{2) 6)}
1 000	1 250	1 600			1 000 ²⁾
1 000	1 250	1 600	2 000 ^{2) 3)}	2 500 ^{2) 3)}	1 600 ²⁾
1 000	1 250	1 600	2 000 ^{2) 3)}	2 500 ^{2) 3)}	
1 000	1 250	1 250			
1 000	1 250	1 250			
560	710	710			
630	800	800			
710	900	900			
1 000	1 200	1 200			
10 000	10 000	10 000			6 400
10 000	10 000	10 000			4 800 ⁴⁾
100	100	100			140
1 250/1 250	1 250/1 250	1 250/1 250			
106	106	106			140
1 250/1 250	1 250/1 250	1 250/1 250			
					105
50	50	50	80	80	
50	50	50	55	55	80 ⁵⁾
					176 ¹⁾
					140
110 ⁷⁾	110 ⁷⁾	110 ⁷⁾	176	176	105
150	150	150	150	150	
460	575	575			
550	690	690			
750	950	950			
19	29	48	55	85	140
6 000	6 000	6 000	6 000	6 000	1 200
14.1	14.1	15.2	22	22	37
18	18	19.5	28	28	47
M12x50	M12x50	M12x60	M12x60	M12x60	M12x60
50...75	50...75	50...75	50-75	50-75	50...75
65	65	65	65	65	50

Non fusible disconnect switches

OT 16...600

Technical data

	Size	A	20	30	
	Switch type		OT16_	OT25_	
	Approvals ¹⁾	2 pole 3 pole 4 pole	UL508 & IEC UL508 & IEC	UL508 & IEC UL508 & IEC	
Technical data according to UL/CSA, AC ratings					
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	20	30
Max. operating voltage			V	600	600
Max. horsepower rating /motor FLA current	pf= 0.4...0.5	240 V	HP/A	5/15.2	7.5/22.0
	Three phase	480 V	HP/A	10/14.0	15/21.0
		600 V	HP/A	15/17	20/22.0
	Single phase	120 V	HP/A	1/16.0	1.5/20.0
		240 V	HP/A	2/13.2	3/18.7
Short circuit rating with fuse	Maximum fuse size		A	30 :60 ²⁾	30 :60 ²⁾
	Fuse type	CC	kA	10	10
	Fuse type	J	kA	10	10
	Fuse type	T	kA	10	10
	Fuse type	RK1	kA	10	10
	Fuse type	RK5	kA	5	5
	Fuse type	L	kA		
	Fuse type	H	kA		
Maximum General Use, DC ratings					
Current rating		at 250VDC	A		
		at 600VDC	A		
DC horsepower rating for 4-pole switch		at 600VDC	HP		
DC horsepower rating for 2-pole switch		at 125VDC	HP		
		at 250VDC	HP		
DC short circuit rating for 4-pole switch		with circuit breaker	kA		
DC short circuit rating for 2-pole switch		with circuit breaker at 250VDC	kA		
		with circuit breaker at 600VDC	kA		
		with class J fuse at 250VDC	kA		
		... with fuse size	A		
Endurances					
Min. electrical endurance, pf. 0,75 - 0,8			oper. cycles	6 000	6 000
Mechanical endurance			operations	20 000	20 000
Terminal lug kits			integral	integral	integral
Wire range			AWG	18-8	18-8
Torque		Wire tightening	lb.in	7	7
		Lug mounting			
Technical data according to IEC 60947-3					
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V	750	750
Dielectric strength		50 Hz 1min.	kV	6	6
Rated impulse withstand voltage			kV	8	8
Rated operational current, AC-22A		up to 415 V	A	16	25
		440 - 500 V	A	16	25
		690 V	A	16	25
Rated operational current, AC-23A		up to 415 V	A	16	20
		440 V	A	16	20
		500 V	A	16	20
		690 V	A	10	11
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{I}_c	I_p (r.m.s.)	50 kA	kA	6.5	6.5
The cut-off current \hat{I}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)	Max. OFA_ fuse size gG/aM	415 V	A	40/32	40/32
	I_p (r.m.s.)	10 kA	kA		
	Max. OFA_ fuse size gG/aM	690 V	A		
	I_p (r.m.s.)	50 kA	kA	4	4
	Max. OFA_ fuse size gG/aM	690 V	A	25/16	25/16
	at prospective SC-current	80 kA	kA		
	Max. OFA_ fuse size gG/aM	690 V	A		
Rated short-time withstand current	r.m.s. -value I_{cw}	690V, 1s	kA	0.5	0.5
Rated short circuit making capacity	Peak value I_{cm}	690V/500V	kA	0.705	0.705
Power loss / pole		At rated operational current	W	0.3	0.6
Mechanical endurance		Divide by two for operation cycles	Oper.	20 000	20 000
Weight without accessories		3-pole	kg	0.11	0.11
		4-pole	kg	0.15	0.15

¹⁾ UL Listed switches are also CSA Approved

²⁾ Fuse size 70A for RK5

³⁾ 200A/min. 95 mm², use busbar connections OEZX16/13 or OZXT2

40		60		80		30		60		100		100		200		400		600	
OT40_		OT63_		OT80_		OT30_		OT60_		OT100_		OT160_		OT200_U		OT400_U		OT600_U	
UL508 & IEC UL508 & IEC		UL508 & IEC UL508 & IEC		UL508 & IEC UL508 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC		UL 98 & IEC UL 98 & IEC	
40 600		60 600		80 600		30 600		60 600		100 600		100 600		200 600		400 600		600 600	
10/28.0		15/42.0		20/54.0		10/28.0		20/54.0		30/80.0		40/104.0		75/192.0		125/312.0		200/480.0	
20/27.0		30/40.0		40/52.0		20/27.0		40/52.0		50/65.0		75/96.0		150/180.0		250/302.0		450/515.0	
25/27.0		30/32.0		40/41.0		30/32.0		40/41.0		50/52.0		100/99.0		200/192.0		350/336.0		500/472.0	
2/24.0		2/24.0		2/24.0		2/24.0		3/34.0		5/56.0		7.5/80.0							
5/30.8		7.5/40.0		10/57.5		5/28.0		7.5/40.0		15/68.0		20/88.0							
30 60 ⁹⁾		100 150		100 150		60		150		150		200		200 400		600		600 800	
10		100		100		50		50		50		100		200 65		100		100	
10		100		100		50		50		50								100	
10		10		10															
5		10		5														100	
		5		5														100	
														200		400		600	
														100		200		200	
														50		50		-	
														20		40		-	
														-		50		50	
														10		10		10	
														14		14		18	
														10		10		10	
														100		100		100	
														200		400		600	
6 000		6 000		6 000		6 000		6 000		6 000		6 000		6 000		1 000		1 000	
20 000		20 000		20 000		20 000		20 000		20 000		20 000		20 000		16 000		10 000	
integral		integral		integral		integral		integral		integral		integral		OZXA-200		OZXA-400		OZXA-800	
18-8		14-4		14-4		14-4		14-4		8-1/0		8-1/0		4-300MCM		2-600MCM		2x2-600MCM	
7		18		18		55		55		55		70		275		375		500	
														72		240		480	
750		750		750		750		750		750		750		1 000		1 000		1 000	
6		6		6		6		6		6		10		10		10		10	
8		8		8		8		8		8		12		12		12		12	
40		63		80		40		63		100		200 ⁹⁾		250		400		800	
40		63		80		40		63		100		160		250		400		800	
40		63		80		40		63		100		160		250		400		800	
23		45		75		40		63		80		135		250		400		800	
23		45		65		40		63		65		125		250		400		800	
23		45		58		40		63		60		125		250		400		800	
12		20		20		40		40		40		80		250		400		800	
6.5		13		13		16.5		16.5		16.5									
40/32		100/80		100/80		125/125		125/125		125/125									
						8.2		8.2		8.2									
						125/100		125/100		125/100									
4		11		11		10		10		10		24		35		50.5		71.5	
25/16		80/63		80/63		63/63		63/63		63/63		200/250		355/315		500/500		800/1 000	
														40.5		59		83.5	
														355/315		500/500		800/1 000	
0.5		1		1.5		2.5		2.5		2.5		4		8		15		20	
0.705		1.4		2.1		3.6		3.6		3.6		12		30		65		80	
1.6		2.8		4.5		0.7		1.6		4.0		6.5		6.5		10		40	
20 000		20 000		20 000		20 000		20 000		20 000		20 000		20 000		16 000		10 000	
0.11		0.27		0.27		0.36		0.36		0.36		1.1		1.2		2.2		5.2	
0.15		0.35		0.35		0.50		0.50		0.50		1.3		1.5		2.8		6.4	

Non fusible disconnect switches

OT 800...1200 and OETL-NF 1600...2000

Technical data

		Size	A	800	1200	1600	2000
	Switch type			OT800U_	OT1200U_	OETL -NF1600P	OETL -NF2000P
Approvals ¹⁾	2 pole					UL 98 & IEC	UL 98 & IEC
	3 pole	UL 98 & IEC		UL 98 & IEC	UL 98 & IEC	UL 98 & IEC	UL 98 & IEC
	4 pole	UL 98 & IEC		UL 98 & IEC		IEC	IEC
Technical data according to UL/CSA AC Ratings							
General purpose amp rating	pf= 0.7...0.8	-40° to 40 °C	A	800	1200	1600	2000
Max. operating voltage			V	600	600	600	480
Max. horsepower rating	pf= 0.4...0.5	240 V	HP/A	200/602			
/max. motor FLA current	Three phase	480 V	HP/A	500/590			
		600 V	HP/A	500/472			
Short circuit rating with fuse	Fuse type	L	kA	100	100	100	100
Maximum fuse size			A	800	1200	2000	2000
Endurances							
Min. electrical endurance, pf. 0,75 - 0,8		oper. cycles		500	500	500	500
Mechanical endurance		operations		6 000	6 000	4 000	4 000
Terminal lug kits				OZXA-800	OZXA-1200	OZXA28	OZXA28/2
Wire range		AWG		2x2-600MCM	4x2-600MCM	4x2-600MCM	8x2-600MCM
Torque	Wire tightening	lb.in		500	500	375	375
	Lug mounting	lb.in		480	450-670	230	230
Technical data according to IEC 60947							
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3		V	1000	1000	1000	1000
Dielectric strength	50 Hz 1min.		kV	10	10	8	8
Rated impulse withstand voltage			kV	12	12	8	8
Rated operational current, AC-22A		up to 415 V	A	1600	1600	1600	1600 ³⁾
		440 - 500 V	A	1600	1600	1600	1600 ³⁾
		690 V	A	1600	1600		
Rated operational current, AC-23A		up to 415 V	A	1250	1250	800	
		440 V	A	1250	1250	800	
		500 V	A	1250	1250	800	
		690 V	A	1250	1250		
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max. allowed cut-off current \hat{i}_c	I_p (r.m.s.)	50 kA	kA			105	140
	Max. OFA_ fuse size gG/aM	415 V	A				
	I_p (r.m.s.)	50 kA	kA			105	140
	Max. OFA_ fuse size gG/aM	500 V	A				
The cut-off current \hat{i}_c refers to values listed by fuse manufacturers	I_p (r.m.s.)	50 kA	kA			105	105
(single phase test acc. to IEC60269)	Max. OFA_ fuse size gG/aM	690 V	A				
Rated short-time withstand current	R.M.S. -value I_{cw}	690V 1s	kA	50	50	50 ²⁾	80 ²⁾
Rated short circuit making capacity	Peak value I_{cm}	500/690 V	kA	110 ⁴⁾	110 ⁴⁾	105	140/105
Power loss / pole	At rated operational current		W	29	48	67	90
Weight without accessories		3-pole	kg	15.2	15.2	17.5	37
		4-pole	kg	19.5	19.5	22.5	47
Terminal bolt size	Metric thread diameter x length	mm		M12x50	M12x60	M12x60	M12x60

¹⁾ UL Listed switches are also CSA Approved

²⁾ Max. distance between busbar support and switch terminal 70 mm.

³⁾ IEC60947-3 category B

⁴⁾ The value is 92 kA for 4-pole switch disconnectors

Technical data, motor operators

OTM160...2500

Technical data

Data for motor operator of switch-disconnectors		Size	A	160...250	315...400	600...800	1000...2500
OTM according to IEC 60947		Switch type					
Rated operational voltage U_e	Pollution degree 3 50/60 Hz		V AC	220 - 240	220 - 240	220 - 240	220 - 240
Operating voltage range				$0.85 - 1.1 \times U_e$	$0.85 - 1.1 \times U_e$	$0.85 - 1.1 \times U_e$	$0.85 - 1.1 \times U_e$
Operating time ¹⁾	90° I - 0, 0 - I	220-240VAC	s	0.5 - 1.0	0.5 - 1.0	0.5 - 1.5	1.0 - 2.0
Nominal current I_n ¹⁾		220-240VAC	A	0.3	0.5	0.9	1.4
Current inrush ¹⁾		220-240VAC	A	1.5	2.5	4.0	10
Overload fuse	Type / I_n / Capacity	220-240VAC	mA	T / 315 / H	T / 500 / H	T / 1000 / H	T / 2000 / H
	Size		mm	5x20	5x20	5x20	5x20
Operating rate	Cycle 0 - I - 0						
	Max. continuous	220-240VAC	cycles / min	1	1	1	0.5
	Max. short-time ≤ 10 cycles	220-240VAC	cycles / min	10	10	10	5
Overvoltage category				III	III	III	III
Rated impulse withstand voltage U_{imp}			kV	4	4	4	4
Dielectric strength	50 Hz 1 min.		kV	1.5	1.5	1.5	1.5
Impulse command	Min. impulse duration		ms	100	100	100	100
Terminals	Voltage supply wiring for U_e			PE - N - L	PE - N - L	PE - N - L	PE - N - L
	Cross section	solid/stranded	mm ²	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5
	Short-circuit protection device	max.fuse size	A	16	16	16	16
	Push-button control	C - I - O		no SELV	no SELV	no SELV	no SELV
	Cross section	solid/stranded	mm ²	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5	1.5 - 2.5
	Maximum cable length		m	100	100	100	100
State information of locking				no SELV	no SELV	no SELV	no SELV
	Handle attached or motor operator locked	11-12-14 (C/O)	$\cos\varphi=1$	5A/250V	5A/250V	5A/250V	5A/250V
	Locking motor operator	23-24 (NO)	$\cos\varphi=1$	5A/250V	5A/250V	5A/250V	5A/250V
	Short-circuit protection device	MCB type and size		C/2A	C/2A	C/2A	C/2A
Protection degree				IP20	IP20	IP20	IP20
Operating temperature			°C	-25...+55	-25...+55	-25...+55	-25...+55
Transportation and storage temperature			°C	-40...+70	-40...+70	-40...+70	-40...+70
Max. altitude			m	2000	2000	2000	2000

¹⁾ Under nominal conditions