

SwitchLine

Switch Disconnectors OT

Technical Data

Technical data according to IEC 60947

All rights for alterations are held without prior notice.

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				Switch type		OT16_	OT25_	OT32_	OT45_	OT63_	OT80_	OT100_								
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	50 Hz 1min.	V	750	750	750	750	750	750	750	750									
Dielectric strength			kV	6	6	6	6	6	6	6										
Rated impulse withstand voltage			kV	8	8	8	8	8	8	8	8									
Rated thermal current and rated operational current AC20/DC20 / ambient 40°C		In open air	A	25	32	40	63	80	80	115										
/ambient 40°C		In enclosure	A	25	32	40	63	80	80	115										
/ambient 60°C		In enclosure	A	20	25	32	50	63	80	80										
..with minimum conductor cross section		Cu	mm ²	4	6	10	16	25	25	35										
Rated operational current, AC-21A		up to 415 V	A	16	25	40	63	80	80	100										
		440 - 690 V	A	16	25	40	63	80	80	100										
Rated operational current, AC-22A		up to 415 V	A	16	25	40	63	80	80	100										
		440 - 500 V	A	16	25	40	63	80	80	100										
		690 V	A	16	25	40	63	80	63	100										
Rated operational current, AC-23A		up to 415 V	A	16	20	23	45	75	55	80										
		440 V	A	16	20	23	45	65	51	65										
		500 V	A	16	20	23	45	58	32	60										
		690 V	A	10	11	12	20	20	20	40										
Rated operational current / poles in series, DC-21A		up to 48 V	A	16/1	25/1	32/1	63/1	80/1	80/1	100/1										
		110 V	A	16/2	25/2	32/2	63/2	80/2	80/2	100/2										
		220 V	A	16/3	25/3	32/3	63/4	80/4	80/4	100/4										
		440V/ 500 V	A	16/4	16/4	16/4	16/4	16/4	20/4											
		750 V	A		16/8	25/8	32/8													
Rated operational current / poles in series, DC-22A		up to 48 V ¹⁾	A	16/1	25/1	32/1	63/1	80/1	80/1	100/1										
		110 V	A	16/2	25/2	32/2	63/2	80/2	80/2	100/2										
		220 V	A	16/3	25/3	32/4	45/4	45/4	45/4	63/4										
		440V	A	10/4	10/4	10/4	10/4	10/4	10/4											
		750 V	A	16/8	25/8	25/8														
Rated operational current / poles in series, DC-23A		up to 48 V ¹⁾	A	16/1	25/1	32/1	63/1	80/1	80/1	100/1										
		110 V	A	16/2	25/2	32/2	63/2	80/2	80/2	100/2										
		220 V	A	16/4	25/4	32/4	45/4	45/4	45/4	63/4										
		440 V	A	10/4	10/4	10/4	10/4	10/4	10/4											
		750 V	A	16/8	16/8	16/8														
Rated operational power, AC-23A	The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors.	220-240 V	kW	3	4	5,5	11	22	18,5	22										
		400-415 V	kW	7,5	9	11	22	37	30	37										
		440 V	kW	7,5	9	11	22	37	30	37										
		500 V	kW	7,5	9	11	22	37	18,5	37										
		690 V	kW	7,5	9	11	15	18,5	15	37										
Rated breaking capacity, AC-23A		up to 415 V	A	128	160	184	360	640	440	640										
		440 V	A	128	160	184	360	448	408	520										
		500 V	A	128	160	184	360	464	256	480										
		690 V	A	80	88	96	160	160	160	320										
Rated breaking capacity/poles in series, DC-23		up to 48 V	A	64/1	100/1	128/1	180/1	252/1	320/1	400/1										
		110 V	A	64/2	100/2	128/2	180/2	252/2	320/2	400/2										
		220 V	A	64/3	100/4	128/4	180/4	252/4	320/4	252/4										
		440V	A	40/4	40/4	40/4	40/4	40/4	40/4											
		750V	A	64/8	64/8	64/8														
Rated conditional short-circuit current r.m.s. and corresponding cut-off current of the fuse	IEC269 OFAA/OFAM-fuse size	50 kA, ≤ 415V	kA	6,5 40/32	6,5 40/32	6,5 40/32	13 100/80	13 100/80	11 80/63	16,5 125/125										
in single-phase test according IEC269.	Breakers, other fuse type selection on request.																			
		</																		

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

SwitchLine

Switch Disconnectors OT

Technical Data (continued)

Technical data according to IEC 60947

125		
OT125E_	OT30_	OT60_
750	750	750
6	6	6
8	8	8
125	40	63
125	40	63
100	32	50
50	10	25
125	40	63
125	40	63
125	40	63
125	40	63
90	40	63
78	40	63
70	40	63
50	40	40
125/1	40/1	63/1
125/2	40/2	63/2
125/4	40/4	63/4
125/1	40/1	63/1
125/2	40/2	63/2
80/4	40/4	63/4
125/1	40/1	63/1
125/2	40/2	63/2
63/4	40/4	63/4
22	11	18,5
45	18,5	30
45	22	30
45	22	30
45	22	30
720	320	504
624	320	504
560	320	504
400	320	320
500/1	160/1	252/1
500/2	160/2	252/2
252/4	160/4	252/4
16,5	16,5	16,5
125/125	125/125	125/125
8,2	8,2	8,2
125/100	125/100	125/100
10	10	10
63/63	63/63	63/63
2,5	2,5	2,5
3,6	3,6	3,6
50	10	25
6,3		
20 000	20 000	20 000
0,36	0,36	0,36
0,5	0,50	0,50
10-70	2,5-25	2,5-25
8-00	14-4	14-4
6	6	6
2	2	2

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Size		A	125	160
Switch type			OT125A_	OT160E_
Rated insulation voltage and rated operational voltage AC20/DC20		Pollution degree 3	750	750
Dielectric strength		50 Hz 1min.	10	10
Rated impulse withstand voltage			12	12
Rated thermal current and rated operational current AC20/DC20 / ambient 40°C		In open air	135	200
/ambient 40°C		In enclosure	135	160
/ambient 60°C		In enclosure	110	125
..with minimum conductor cross section		Cu mm ²	50	70
Rated operational current, AC-21A		up to 415 V	125	200 ¹⁾
		440 - 690 V	125	160
Rated operational current, AC-22A		up to 415 V	125	200 ¹⁾
		440 - 690 V	125	160
Rated operational current, AC-23A		up to 415 V	105	135
		440 V	90	125
		500 V	70	125
		690 V	50	80
Rated operational current / poles in series, DC-21A		up to 48 V	125/1	160/1
		110 V	125/1	160/1
		220 V	125/2	160/2
		440 V	125/3	160/3
		500 V	125/3	125/3
		750 V	125/4	160/4
Rated operational current / poles in series, DC-22A		up to 48 V	125/1	160/1
		110 V	125/1	160/1
		220 V	125/2	160/2
		440 V	125/3	160/3
Rated operational current / poles in series, DC-23A		up to 48 V	125/1	160/1
		110 V	125/1	160/1
		220 V	125/2	160/2
		440 V	125/3	160/3
Rated operational power, AC-23A		The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors.	30	45
		220-240 V	55	75
		400-690 V		
Rated breaking capacity, AC-23A		up to 415 V	840	1080
		440 V	720	1000
		500 V	560	1000
		690 V	400	640
Rated breaking capacity/poles in series, DC-23		up to 48 V	500/1	640/1
		110 V	500/1	640/1
		220 V	500/2	640/2
		440 V	500/3	640/3
Rated conditional short-circuit current r.m.s. and corresponding cut-off current of the fuse		50 kA,	24	24
IEC269 OFAA/OFAM-fuse size		≤ 690 V	200/250	200/250
in single-phase test according IEC269		100 kA,	30	30
IEC269 OFAA/OFAM-fuse size		500 V	200/250	200/250
Rated short-time withstand current		R.M.S. -value I _{cw} 690V 0,25s	7	7
		690V 1s	4	4
Rated short circuit making capacity		Peak value I _{cm} 690V/500V	12	12
Power loss / pole		At rated operational current	4,7	6,5
Mechanical endurance		Divide by two for operation cycles	20 000	20 000
Weight without accessories		3-pole	1,1	1,1
		4-pole	1,3	1,3
Cable size		Cu-wire size suitable for terminal clamps	10-70	10-70
			8-00	8-00
Terminal tightening torque		Counter torque required	6	6
Operating torque		3-pole switch-disconnector	6	6

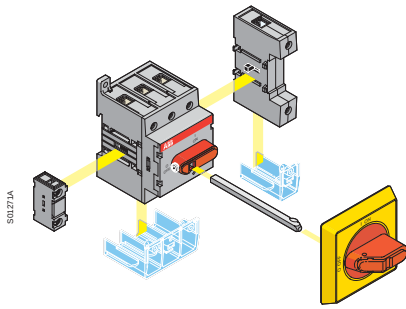
1) 200A/min. 95 mm², use busbar connections OEZXX6/13 or OZXT2

SwitchLine

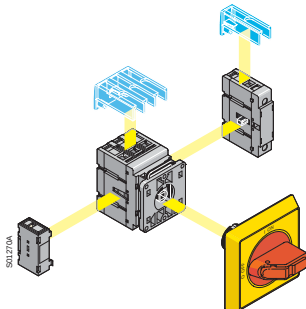
Switch Disconnectors OT

Selection Tables

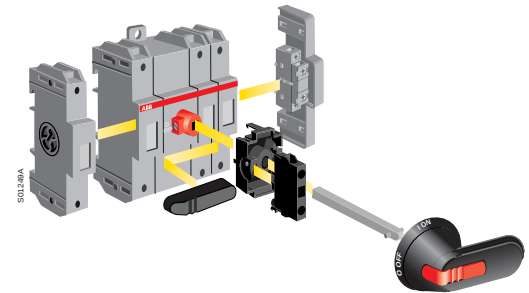
OT 16... 125
(Base or DIN rail mounted)



OT 16... 125
(Door mounted)



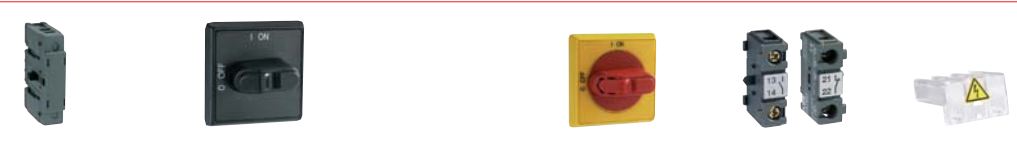
OT 125... 160



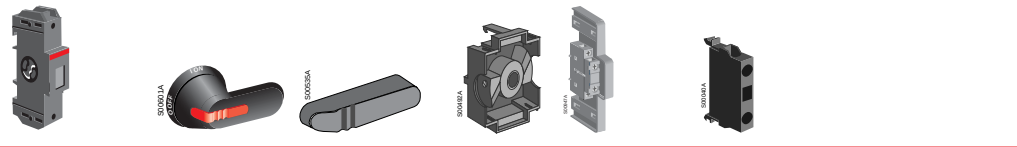
OT 16... 125 (Base or DIN rail mounted)

							
Size	SwitchLine type	4 th pole	Handles IP54 ¹⁾	Handles IP 65	Extended shafts	Auxiliary contacts	Terminal shrouds
16	OT 16E...	OTP_32_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_32_
25	OT 25E...	OTP_32_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_32_
40	OT 32E...	OTP_32_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_32_
63	OT 45E...	OTP_63_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_63_
80	OT 63E...	OTP_63_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_63_
80	OT 80E...	OTP_80_ (right or left)	OH_1_ / OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_80_
100	OT 100E...	OTP_125_ (right or left)	OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_125_
125	OT 125E...	OTP_125_ (right or left)	OH_3_	OH_2_1) / OH_45J5 ²⁾	OX_ (85... 400mm)	OA1G_ ³⁾ / OA2_ ⁴⁾	OTS_125_

OT 16... 125 (Door mounted)

						
Size	SwitchLine type	4 th pole	Handles IP54 ¹⁾	Handles IP 65	Auxiliary contacts	Terminal shrouds
16	OT 16ET...	OTP_32_ (right or left)	OH_1P_ / OH_3P_ / OH_1R_ / OH_3R_	OH_2P_ / OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_32_
25	OT 25ET...	OTP_32_ (right or left)	OH_1P_ / OH_3P_ / OH_1R_ / OH_3R_	OH_2P_ / OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_32_
40	OT 32ET...	OTP_32_ (right or left)	OH_1P_ / OH_3P_ / OH_1R_ / OH_3R_	OH_2P_ / OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_32_
63	OT 45ET...	OTP_63_ (right or left)	OH_1R_ / OH_3R_	OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_63_
80	OT 63ET...	OTP_63_ (right or left)	OH_1R_ / OH_3R_	OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_63_
100	OT 100ET...	OTP_125_ (right or left)	-	OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_125_
125	OT 125ET...	OTP_125_ (right or left)	-	OH_2R_	OA1G_3) / OA2_ ⁴⁾	OTS_125_

OT 16... 125 (Door mounted)

					
Size	SwitchLine type	4 th pole	Handles IP54 ¹⁾	Extended shafts	Auxiliary contacts
125	OT 125A...	OTP_160 EP	OH_65J6 ⁵⁾ / OH_80J6 ⁵⁾ / YAST1 ⁶⁾	OXp6X_ (130... 430mm)	OBEA_ ³⁾ + OEXP1_ / OA2G11_ ⁴⁾ + OAZX1_
160	OT 160E...	OTP_160 EP	OH_65J6 ⁵⁾ / OH_80J6 ⁵⁾ / YAST1 ⁶⁾	OXp6X_ (130... 430mm)	OBEA_ ³⁾ + OEXP1_ / OA2G11_ ⁴⁾ + OAZX1_
160	OT 160ET...	OTP_160 EP	OH_65J6 ⁵⁾ / OH_80J6 ⁵⁾ / YAST1 ⁶⁾	OXp6X_ (130... 430mm)	OBEA_ ³⁾ + OEXP1_ / OA2G11_ ⁴⁾ + OAZX1_

1) Black, yellow-red, silver, grey: I-O, ON-OFF

2) Black, yellow-red, grey: I-O, ON-OFF

3) 1NC, 1NO

4) 1NC + 1NO

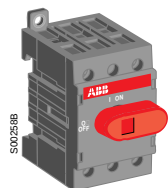
5) Black, yellow/red: I-O, ON-OFF grey: I-O

6) Black

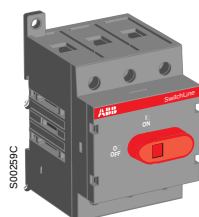
SwitchLine

Switch Disconnectors OT 16... 125

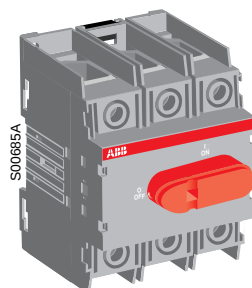
Ordering Details



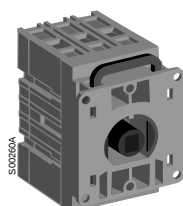
OT16...32E3



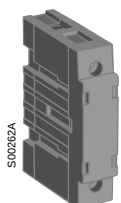
OT 45...63E3



OT 100...125E3



OT 16...32ET3



OTP_32_



OTP_63_

Base and DIN-rail mounting switch-disconnectors

OT 32E, OT 45E and OT 63E switch-disconnectors with improved ratings

Including protected terminal clamps, IP 20. Handle and shaft have to be ordered separately.

No. of poles	I _{th} (open) [A]	Cable cross section [mm ²]	Op. currents AC 22A/AC23 415V [A/A]	Type Code	Ordering Details Type No.	Recomm. order quantity (pcs)	Weight 1pc/kg
3	25	0.75...10	16 / 16	OT 16E3	1SCA022283R8470	10	0.11
3	32	0.75...10	25 / 20	OT 25E3	1SCA022283R8630	10	0.11
3	40	0.75...10	40 / 23	OT 32E3	1SCA022283R9010	10	0.11
3	63	1.5...35	63 / 45	OT 45E3	1SCA022352R6950	10	0.27
3	80	1.5...35	80 / 75	OT 63E3	1SCA022352R7090	10	0.27
3	125	10...70	125 / 90	OT 125E3	1SCA022353R7480	10	0.36

Door mounting switch-disconnectors

Including protected terminal clamps, IP 20. The handle has to be ordered separately.

No. of poles	I _{th} (open) [A]	Cable cross section [mm ²]	Op. currents AC 22A/AC23 415V [A/A]	Type Code	Ordering Details Type No.	Recomm. order quantity (pcs)	Weight 1pc/kg
3	25	0.75...10	16 / 16	OT 16ET3	1SCA022352R6610	10	0.13
3	32	0.75...10	25 / 20	OT 25ET3	1SCA022352R6790	10	0.13
3	40	0.75...10	40 / 23	OT 32ET3	1SCA022352R6870	10	0.13
3	63	1.5...35	63 / 45	OT 45ET3	1SCA022353R7050	10	0.28
3	80	1.5...35	80 / 75	OT 63ET3	1SCA022353R7130	10	0.28
3	125	10...70	125 / 90	OT 125ET3	1SCA022353R7560	10	0.40

Fourth Pole

For OT 16...32: dovetail mounting.

For OT 45E, 63E, 80E, 100E, 125E: snap-on mounting.

Simultaneous function with the main contacts

SUTABLE FOR Switches	Type Code	Ordering Details Type No.	Recomm. order qty (pcs)	Weight 1pc/kg
OT 16...32E3	OTPS 32EP	1SCA022348R2480	10	0.03
OT 45...63E3	OTPS 63EP	1SCA022353R5350	10	0.06
OT 100...125E3	OTPS 125EP	1SCA022379R8010	10	0.1
OT 16...32ET3	OTPS 32ED	1SCA022353R5270	10	0.03
OT 45...63ET3	OTPS 63ED	1SCA022347R4110	10	0.06
OT 100...125ET3	OTPS 125ED	1SCA022379R7980	10	0.14

Neutral terminals

For OT 16...32: dovetail mounting.

Detachable neutral

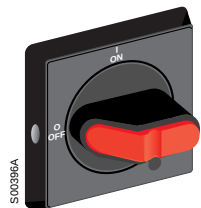
SUTABLE FOR Switches	Type Code	Ordering Details Type No.	Recomm. order qty (pcs)	Weight 1pc/kg
OT 16...32E3	OTPD 32EP	1SCA022353R6080	10	0.03
OT 45...63E3	OTPD 63EP	1SCA022353R6240	10	0.06
OT 100...125E3	OTPD 125EP	1SCA022379R9170	10	0.14
OT 45...63ET3	OTPD 63ED	1SCA022371R5840	10	0.06

SwitchLine

Switch Disconnectors OT 16... 125, Accessories Ordering Details



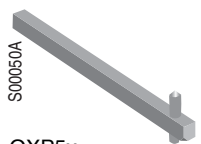
OH_1_



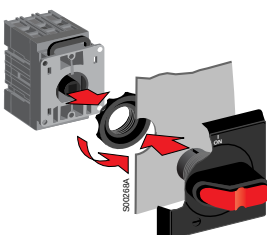
OH_2_



OXS5x_



OMP5x_



Handles for base and DIN-rail mounted switches

Indication I-O and ON-OFF, shaft (diameter 5 mm) has to be ordered separately, door drilling 22,5 mm.

Selector type handles

Description	Type Code	Order number Type No.	Recomm. order qty
IP 54 handles, suitable for OT16...80E			
Black	OHB 1AH	1SCA022347R3810	150
Yellow-red	OHY 1AH	1SCA022347R3900	150
IP 54 handles, door interlock in ON-position, suitable for OT16...80E			
Black	OHB 1AH1	1SCA022364R6340	150
Yellow-red	OHY 1AH1	1SCA022364R6420	150
IP 54 handles, padlockable with one padlock with bail diameter 5...6.3 mm, suitable for OT16...125E			
Black	OHB 3AH	1SCA022428R8960	150
Yellow-red	OHY 3AH	1SCA022428R9180	150
IP 65 handles, padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, defeatable, suitable for OT16...125E			
Black	OHB 2AJ	1SCA022347R4030	120
Yellow-red	OHY 2AJ	1SCA022353R2840	120

Pistol type handles, IP 65, shaft diameter 5 mm, NEMA 1, 3R, 12

Padlockable with max. 3 padlocks with bail diameter 5...10 mm in OFF-position, door interlock in ON-position, defeatable²⁾. Indication in types OHB_ and OHY_: I-O/ON-OFF, suitable for OT16...125E.

Description	Type Code	Order number Type No.	Recomm. order qty
Handle length 45 mm			
Black	OHB 45J5	1SCA022380R8180	100
Yellow-red	OHY 45J5	1SCA022380R8340	100

Extended shafts¹⁾

For selector type handles

Shaft length [mm]	Diameter [mm]	Type Code	Order number Type No.	Recomm. order qty
85	5	OXS5x85	1SCA022347R3570	10
180	5	OXS5x180	1SCA022353R4620	10
330	5	OXS5x330	1SCA022353R4710	10

For pistol type handles

Shaft length [mm]	Diameter [mm]	Type Code	Order number Type No.	Recomm. order qty
150	5	OMP5x150	1SCA022376R7300	10
265	5	OMP5x265	1SCA022376R7560	10
400	5	OMP5x400	1SCA022376R7640	10

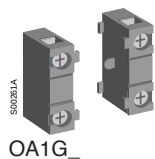
Handles for door mounted switches

Indication I-O and ON-OFF. No separate shaft needed.

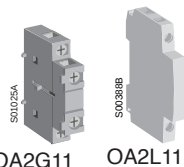
Description	Type Code	Order number Type No.	Recomm. order qty
Snap-on mounting, door drilling 22,5 mm			
No padlocking, suitable for OT16...32ET, IP 54			
Black	OHB 1PH	1SCA022353R1610	150
Yellow-red	OHY 1PH	1SCA022353R1870	150
Padlockable with one padlock, suitable for OT16...32ET, IP 54			
Black	OHB 3PH	1SCA022428R9260	150
Yellow-red	OHY 3PH	1SCA022400R3120	150
Padlockable with max. 3 padlocks, suitable for OT16...32ET, IP 65			
Black	OHB 2PJ	1SCA022353R2680	120
Yellow-red	OHY 2PJ	1SCA022353R2920	120

SwitchLine

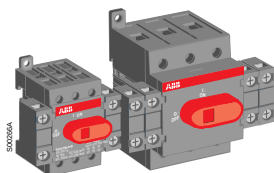
Switch Disconnectors OT 16... 125, Accessories Ordering Details (continued)



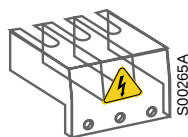
OA1G_



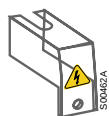
OA2G11 OA2L11



Auxiliary contacts
mounted on both
sides of the switch.



OTS32T3



OTS63T1

Auxiliary contacts

Snap-on mounting to the switch, IP 20. $I_{th} = 16A$, cable cross section max. $2 \times 2.5 \text{ mm}^2$.

Performance data U_e / I_e (AC15): 230V/6A, 400V/4A, 415V/4A, 690V/2A. Early-break types (OA1G10)

Description	SUTABLE FOR Switches	Type Code	Ordering Details Type No.	Recomm. order qty (pcs)	Weight 1pc [kg]
1NC $\begin{matrix} \text{└─ 21(31)} \\ \text{└─ 22(32)} \end{matrix}$	OT	OA1G01 ¹⁾	1SCA022353R4890	10	0.03
1NO $\begin{matrix} \text{└─ 13(43)} \\ \text{└─ 14(44)} \end{matrix}$	OT _	OA1G10 ²⁾	1SCA022353R4970	10	0.03
1NO $\begin{matrix} \text{└─ 13 ┘ 21} \\ \text{└─ 14 ┘ 22} \end{matrix}$ +1NC	OT_E	OA2G11 ³⁾⁴⁾	1SCA022379R8100	10	0.03

Terminal shrouds

Snap-on mounting to the switch, transparent.

For 3-pole switches

Description	Type Code	Ordering Details Type No.	Recomm. order qty (pcs)	Weight 1pc [kg]
OT 16...32E3, -ET3	OTS 32T3	1SCA022353R6670	10	0.01
OT45...63E3, -ET3	OTS 63T3	1SCA022353R6750	10	0.01
OT 100...125E3, ET3	OTS 125T3	1SCA022379R9680	10	0.01

For fourth and additional pole

Description	Type Code	Ordering Details Type No.	Recomm. order qty (pcs)	Weight 1pc/kg (pcs)
OTP_32E_	OTS 32T1	1SCA022353R6830	10	0.01
OTP_63E_	OTS 63T1	1SCA022353R6910	10	0.01
OTP_125E	OTS 125T1	1SCA022379R9760	10	0.01

¹⁾ Mountable on the left side of the switch, max. 2 pcs

²⁾ Mountable on the right side of the switch, max. 2 pcs

³⁾ For base-mounted switches only. Max. 4NO + 4NC.

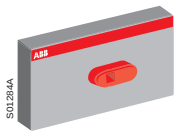
(83) (43) (53) 13 $\begin{matrix} \text{└─ 21 (61) (31) (71)} \\ \text{└─ 22 (62) (32) (72)} \end{matrix}$

(84) (44) (54) 14 $\begin{matrix} \text{└─ 21 (61) (31) (71)} \\ \text{└─ 22 (62) (32) (72)} \end{matrix}$

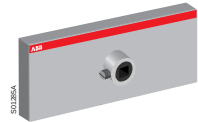
⁴⁾ Not mountable on the same side as the fourth pole.

SwitchLine

Switch Disconnectors OT 16... 125, Accessories Ordering Details (continued)



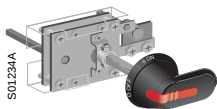
OWP5D1



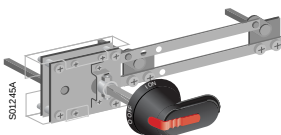
OWP6D1



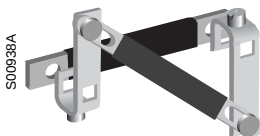
OTZW 8



OTZW 6



OTZW 17



OTZW24

Conversion kits for the combination switches

Parallel attachment kits

For 6 and 8 pole switches

Mounting directly on the top of two switch-disconnectors, snap-on mounting.

Suitable for Switches	For shafts	Type Code	Ordering Details Type No.	Package (pcs)	Weight [kg]
OT16...32E	OXS5_, OXP5_	OWP5D1	1SCA022551R1160	1	0.03 ¹⁾
OT16E	OXS5_, OXP5_	OWP5D2	1SCA022573R9340	1	
OT25E	OXS5_, OXP5_	OWP5D3	1SCA022573R9420	1	
OT32E	OXS5_, OXP5_	OWP5D4	1SCA022574R5660	1	
OT45...80E	OMP6_	OWP6D1	1SCA022551R1830	1	0.07 ²⁾
OT100...125E	OMP6_	OWP6D2	1SCA022551R1910	1	0.09

The attachment levers

The attachment levers are provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically.

The attachment levers for 6 and 8-pole switches

Parallel attachment for building 6 and 8-pole switches. Both switches operate simultaneously. Handle OH_65J5 or OH_45J5 and shafts have to be ordered separately.

Suitable for Switches	For shafts	Type Code	Ordering Details Type No.	Package (pcs)	Weight [kg]
OT16...32	45+(0...12)x15	OTZW 8	1SCA022421R7600	1	0.17
OT45...80	60+(0...11)x15				
OT100...125E	75+(0...10)x15				

The attachment levers for change-over switch

Handle OHB 80J6E011 (IP 65, indication I-O-II) and shafts included.

Suitable for Switches	For shafts	Type Code	Ordering Details Type No.	Package (pcs)	Weight [kg]
OT 16...125E	90+(0...10)x15	OTZW 6	1SCA022387R1890	1	0.85

The attachment levers for by-pass switch

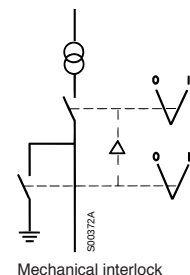
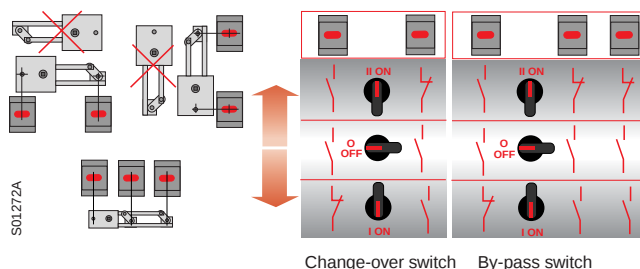
A combination of two switches in parallel with one change-over switch for maintenance by-passing for ex. a breaker for maintenance. In the kit handle OHB80J6E011 with I-O-II -indication the shafts are included.

Suitable for Switches	For shafts	Type Code	Ordering Details Type No.	Package (pcs)	Weight [kg]
OT 16...125E betw. A and B	90+(0...6)x15	OTZW 17	1SCA022387R1620	1	0.88
	betw. A and C				
	90+(0...10)x15				

The attachment levers for mechanical interlock

Prevents one switch from closing to ON-position, if the other is not in OFF-position. When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in ON-position.

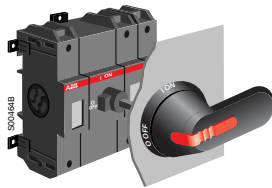
Shaft distance mm	Type Code	Ordering Details Type No.	Package (pcs)	Weight [kg]
100	OTZW24	1SCA022639R5610	1	0.08



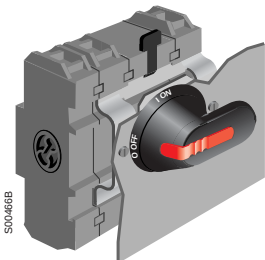
SwitchLine

Switch Disconnectors OT 125, 160

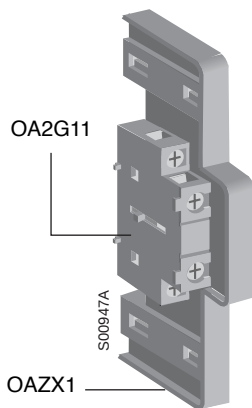
Ordering Details (continued)



OT 125A3
OT 160E3



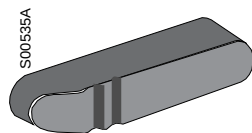
OT 160ET3



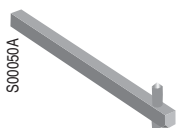
OAZX1



OH_ 65J6



YAST 1



OXP6x

Front operated switch-disconnectors

Including the handle OHB65J6, IP 65, and shaft OXP6x210, length 210 mm.

No. of poles	I _{th} (open) [A]	Op. currents AC 22A/AC23 [A/kW] = 400V [A/A]	Type Code	Ordering Details Type No.	Package (pcs)	Weight 1pc/kg
3	135	125/105	OT 125A3	1SCA022275R2750	1	1.0
4	135		OT 125A4	1SCA022275R2910	1	1.3
3	200	200 ¹⁾ /135	OT 160E3	1SCA022257R5950	1	1.0
4	200		OT 160E4	1SCA022259R8060	1	1.3

Door mounted switch-disconnectors

For mounting into the door or side wall. Includes handle OHB65J6, IP 65, and shaft OXP6x130, length 130 mm. Twisted shafts are shown on page 32.

No. of poles	I _{th} (open) [A]	Op. currents AC 22A/AC23 [A/kW] = 400V [A/A]	Type Code	Ordering Details Type No.	Recomm. (pcs)	Weight 1pc/kg
3	200	200 ¹⁾ /135	OT 160ET3	1SCA022350R1960	1	1.0
4	200	200 ¹⁾ /135	OT 160ET4	1SCA022460R6920	1	1.3

Auxiliary contact blocks and accessories

Adapter for auxiliary contact blocks OA2G11

Aux. contact blocks, OA2G11 have to be ordered separately, see auxiliary contacts for OT16...125 switches. Mountable on the either side of the switch, max. two blocks/ side.

Suitable for Switches	Type Code	Ordering Details Type No.	Package (pcs)	Weight 1pc/kg
OT 160E_, OT 125A_	OAZX1	1SCA022467R5140	1	

Optional plastic handles

OH_ handles: IP 65, NEMA 1, 3R, 12. padlockable with three padlocks in OFF-position, door interlock in ON-position defeatable to allow authorized personnel access for inspection).

The shaft has to be ordered separately. Screw fixing from back side of handle. No screws on front ensures double insulation.

Colour	Handle length [mm]	Shaft dimaet. [mm]	Suitable for Switches	Type Code	Ordering Details Type No.	Recomm. order qt. (pcs)	Packeg (pcs)
Handles for front operated switches							
Indication: in types OHB_ and OHY_: I-O/ON-OFF, in types OHG_: I-O.							
Black	65	6	OT 125A_	OHB 65J6	1SCA022380R9660	100	1
Yel.-red	65	6	160E_	OHY 65J6	1SCA022380R9820	100	1
Handles, mounting directly to the switch, no shaft needed.							
Black	72	-	OT 125A_	YAST 1	1SCA02230R5350	100	1
			OT 160E_				

Also other handles for shaft diameter 6 mm can be used with 160_ OH_ handles padlockable in all positions available on request.

Extended shafts

Shaft diameter 6 mm. Suitable for handles OH_ J6_.

Handle length [mm]	H [mm]	Type Code	Ordering Details Type No.	Packeg (pcs)	Weight 1 pc/kg
130	105 ... 135	OXP6x130	1SCA022057R0570	1	
430	405 ... 435	OXP6x430	1SCA022056R6030	1	

¹⁾ Busbar connections OEZXX6/13 or OZXT2. 200 A/

SwitchLine

Switch Disconnectors / Load Break Switchs OETL Technical Data

Technical data according to IEC 60947

All rights for alterations are held without prior notice.

		Size	A	200	250	315	400	630
		Switch type		OETL200_	OETL250_	OETL315_	OETL400_	OETL630_
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	50 Hz 1min.	V	1000	1000	1000	1000	1000
Dielectric strength			kV	10	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12	12
Rated thermal current and rated operational current AC20/DC20 / ambient 40°C		In open air	A	250	315	350	500	630
/ambient 40°C		In enclosure	A	200	270	315	500	630
/ambient 60°C		In enclosure	A	175	220	260	410	500
..with minimum conductor cross section		Cu	mm ²	95	120	185	2x150	2x185
Rated operational current, AC-21A		up to 415 V	A	200	250	315	500	630
		440 - 690 V	A	200	250	315	500	630
		1000 V	A	200	250	315	400	630
Rated operational current, AC-22A		up to 415 V	A	200	250	315	500	630
		440 - 500 V	A	200	250	315	500	630
		690 V	A	200	250	315	500	630
		1000 V	A	200	250	315	400	630
Rated operational current, AC-23A		up to 415 V	A	200	250	315	500	630
		440 V	A	200	250	315	500	590
		500 V	A	200	250	315	500	580
		690 V	A	200	250	315	350	350
		1000 V	A	125	125	125	125 ²⁾	150 ²⁾
Rated operational current / poles in series, DC-21A		up to 48 V	A	200/2	250/2	315/2	400/1	630/1
		110 V	A	200/2	250/2	315/2	400/2	630/2
		220 V	A	200/2	250/2	315/2	400/2	630/2
		440 V	A	200/3	250/3	315/3	400/3	630/3
		750 V	A	200/4	250/4	315/4		
Rated operational current / poles in series, DC-22A		up to 48 V	A	200/2	250/2	315/2	400/1	630/1
		110 V	A	200/2	250/2	315/2	400/2	630/2
		220 V	A	200/2	250/2	315/2	400/2	630/2
		440 V	A	200/3	250/3	315/3	400/3	630/3
		750 V	A	200/4	250/4	315/4		
Rated operational current / poles in series, DC-23A		up to 48 V	A	200/2	250/2	315/2	400/1	630/1
		110 V	A	200/2	250/2	315/2	400/2	630/2
		220 V	A	200/2	250/2	315/2	400/2	630/2
		440 V	A	200/3	250/3	315/3	400/3	400/3
		750 V	A	200/4	250/4	315/4		
Rated operational power, AC-23A	The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors.	220-240 V	kW	55	75	90	132	180
		400-415 V	kW	110	132	160	200	315
		440 V	kW	110	132	160	315	355
		500 V	kW	132	160	200	315	355
		690 V	kW	170	200	250	315	355
Rated breaking capacity, AC-23A		up to 415 V	A	1600	2000	2520	4000	5040
		440 V	A	1600	2000	2520	4000	4720
		500 V	A	1600	2000	2520	4000	4640
		690 V	A	1600	2000	2520	2800	2800
Rated breaking capacity/poles in series, DC-23		up to 48 V	A	800/2	1000/2	1260/2		
		110 V	A	800/2	1000/2	1260/2		
		220 V	A	800/2	1000/2	1260/2		
		440 V	A	800/3	1000/3	1260/3		
		750 V	A	800/4	1000/4	1260/4		
Rated conditional short-circuit current r.m.s.		690V/500V	kA					
Rated conditional short-circuit current r.m.s. and corresponding cut-off current of the fuse in single-phase test according IEC269		50 kA	kA	36	36	36	42	63
		415 V		400/400	400/400	400/400	500/500	630/800
		50 kA		36	36	36	42	63
		500V		400/400	400/400	400/400	500/500	630/800
		50 kA	kA	36	36	36	42	63
		690 V		400/400	400/400	400/400	500/500	500/630
	IEC269 OFAA/OFAM-fuse size	100 kA	kA	48	48	48	54	70
		500 V		400/400	400/400	400/400	500/500	630/800
Rated short-time withstand current	R.M.S. -value I _{cw}	690V 0,2s	kA	17,5	17,5	17,5		38
		690V 0,25s	kA				31	
		690V 1s	kA	8	8	8	17	17
Rated short circuit making capacity	Peak value I _{cm}	690V/500 V	kA	35	35	35	65	80
Rated capacitor power	The capacitor ratings are limited by the fuse link.	400 V	kVAr	90	110	140	250	300
		415 V	kVAr	90	110	140	250	300
Power loss / pole	At rated operational current		W	3,5	5,5	8,5	13	22
Mechanical endurance	Divide by two for operation cycles		Oper.	16 000	16 000	16 000	10 000	10 000
Weight without accessories	3-pole		kg	3	3	3	5,2	6,2
	4-pole		kg	3,7	3,7	3,7	6,4	7,6
Terminal bolt size	Metric thread diameter x length		mm	8x25	10x30	10x30	10x40	12x40
Terminal tightening torque	Counter torque required		Nm	30..44	30..44	30..44	30..44	50..75
Operating torque	3-pole switch-disconnector		Nm	8,2	8,2	8,2	17	21

SwitchLine

Switch Disconnectors / Load Break Switchs OETL Technical Data (continued)

800 OETL800_	1000 OETL1000_	1250 OETL1250_	1600 OETL1600_	2500 OETL2500_	3150 OETL3150_
1000 10 12	1000 8 8	1000 8 8	1000 8 8	1000 8 8	1000 8 8
800 720 600 2x240	1000 1000 900 2x(60x5)	1250 1250 1000 2x(80x5)	1600 1600 1250 2x(100x5)	2500 2300 1950 4x(100x5)	3150 2600 2300 3x(100x10)
800 800 630	1000 1000 1000	1250 1250 1000	1600 1600 1000	2500 ²⁾ 2500 ²⁾ 1000 ²⁾	3150 ²⁾ 3150 ²⁾ 1000 ²⁾
800 800 800 630	1000 1000 1000	1250 1250 1250	1600 1600 1600	1600 ²⁾ 1600 ²⁾ 1600 ²⁾	1600 ²⁾ 1600 ²⁾ 1600 ²⁾
720 670 600 350 150 ²⁾					
800/1 800/2 800/2 800/3	1000/1 1000/2 1000/3	1250/1 1250/2 1250/3	1600/1 1600/2 1600/3		
800/1 800/2 800/2 800/3					
800/1 800/2 630/2 400/3					
200 355 355 400 355	250 400 400 450	250 400 400 450	250 400 400 450	250 400 400 450	250 400 400 450
5760 5360 4800 2800				6400 6400 6400 4800 ⁴⁾	6400 6400 6400 4800 ⁴⁾
	50	50	50	50/63	50/63
63 630/800	105	105	105	140	140
63 630/800	105	105	105	140	140
63 500/630	105	105	105	105	105
70 630/800					
38					
17 80	56 ⁵⁾ 50 ⁵⁾ 105	56 ⁵⁾ 50 ⁵⁾ 105	56 ⁵⁾ 50 ⁵⁾ 105	80 ⁵⁾ 105/140	80 ⁵⁾ 105/140
330 330					
40 10 000	27 6 000	40 6 000	67 6 000	90 1 200	140 1 200
6,2 7,6	16,3 20,5	16,3 20,5	17,5 22,5	37 47	37 47
12x40	12x60	12x60	12x60	12x60	12x60
50..75 21	50..75 21	50..75 21	50..75 21	50..75 50	50..75 50

¹⁾ Fuse size 4

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

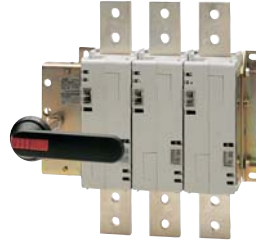
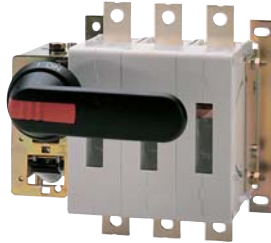
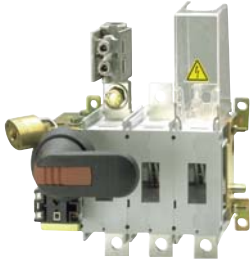
³⁾ Pf. 0,95

⁴⁾ Pf. 0,65

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

SwitchLine

Switch Disconnectors / Load Break Switchs OETL Selection Tables



OETL 200...3150

Size	SwitchLine type				
		Handles ¹⁾	shafts	Auxiliary contacts ²⁾	Terminal shrouds
200	OETL 200...	OH_65J8 / OH_80J8	EXP8X (140... 500mm)	OZXX_	OETLZX 128
250	OETL 250...	OH_65J8 / OH_80J8	EXP8X (140... 500mm)	OZXX_	OETLZX 128
315	OETL 315...	OH_65J8 / OH_80J8	EXP8X (140... 500mm)	OZXX_	OETLZX 128

OETL 400...1600

Size	SwitchLine type				
		Handles ¹⁾	shafts	Auxiliary contacts ⁵⁾	Terminal shrouds
400	OETL 400...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X166 ³⁾ / EXP12X_ ⁴⁾	OZXX_	OETLZX 31 (3 pole)
630	OETL 630...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X166 ³⁾ / EXP12X_ ⁴⁾	OZXX_	OETLZX 93 (3 pole)
800	OETL 800...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X166 ³⁾ / EXP12X_ ⁴⁾	OZXX_	OETLZX 111 (3 pole)
1000	OETL 1000...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X_ ⁴⁾	OZXX_	OESAZX 102 (1 pole)
1250	OETL 1250...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X_ ⁴⁾	OZXX_	OESAZX 102 (1 pole)
1600	OETL 1600...	OH_125J12 / OH_145J12 / OH_175J12 / OH_275J12	EXP12X_ ⁴⁾	OZXX_	OESAZX 102 (1 pole)

OETL 2500...3150

Size	SwitchLine type			
		Handles ¹⁾	shafts	Auxiliary contacts ⁵⁾
2500	OETL 2500...	OH_275J12	EXP12X_ ⁶⁾	OZXX_
3150	OETL 3150...	OH_275J12	EXP12X_ ⁶⁾	OZXX_

1) Black, yellow/red: I-O, ON-OFF grey: I-O

2) 1NO + 1NC, 2NO + 2NC, 4NO + 4NC, 2NO, 4NO, 8NO

3) Shaft length 166 mm

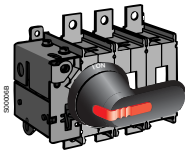
4) Shaft length from 185 mm up to 535 mm

5) 1NO + 1NC, 2NO + 2NC, 4NO + 4NC, 8NO + 8NC, 4NO, 8NO, 16NO

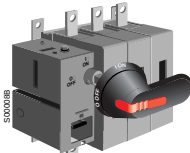
6) Shaft length from 325 mm up to 535 mm

SwitchLine

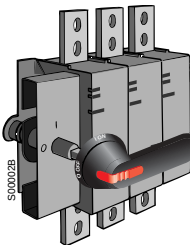
Switch Disconnectors / Load Break Switches OETL Ordering Details



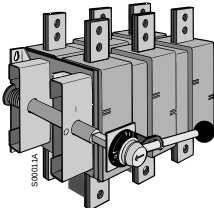
OETL 200K3 /
250K3 / 315K3



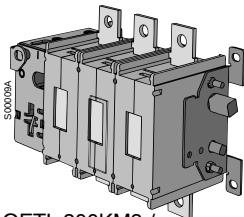
OETL 400D1
/630K3 / 800K3



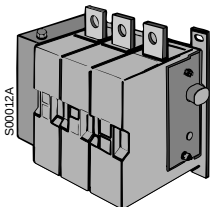
OETL 1000K3 /
1250K3 / 1600K3



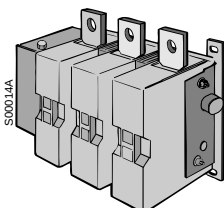
OETL 2500 K3_



OETL 200KM3 /
250KM3 / 315KM3



OETL 400DM1



OETL 630KM3 / 800KM3

Rotary type switches, 200 ... 1600 A, 3 and 4 -pole

Rated insulation voltage 1000 V, including a handle, a shaft and terminal bolt kit*).

OETL 200...315

Black IP65 handle OHB80J8 with I-O, ON-OFF -indication and shaft OXP8x140, length 140 mm.

No. of poles	I _{th} (open) [A]	Rated op. currents AC 21A/AC23 [A/A] 400V	Type Code	Ordering Details Type No.	Weight 1pc/kg
3	200/	200/	OETL 200K3	1SCA022125R1920	3.0
4	250	200	OETL 200K4	1SCA022144R5610	3.7
3	250/	250/	OETL 250K3	1SCA022126R6280	3.0
4	315	250	OETL 250K4	1SCA022144R5880	3.7
3	315/	315/	OETL 315K3	1SCA022144R7740	3.0
4	350	315	OETL 315K4	1SCA022144R7910	3.7

OETL 400...800

Phase barriers OETLZN 17 included. Black IP65 handle OHB125J12 with I-O, ON-OFF -indication and Shaft OXP12x166, length 166 mm.

No. of poles	I _{th} (open) [A]	Rated op. currents AC 21A/AC23 [A/A] 400V	Type Code	Ordering Details Type No.	Weight 1pc/kg
3	500/	500/	OETL 400D1	1SCA022058R0020	5.2
4	500	500	OETL 400D4	1SCA022058R0110	6.4
3	630/	630/	OETL 630K3	1SCA022078R8950	6.2
4	630	630	OETL 630K4	1SCA022078R9170	7.6
3	800/	800/	OETL 800K3	1SCA022098R0980	6.2
4	800	720	OETL 800K4	1SCA022098R1100	7.6

OETL 1000...1600

Black IP65 handle OHB145J12 with I-O, ON-OFF -indication and shaft OXP12x250, length 250 mm.

No. of poles	I _{th} (open) [A]	Rated op. currents AC 21A/AC23 [A/A] 400V	Type Code	Ordering Details Type No.	Weight 1pc/kg
3	1000/	1000/	OETL 1000K3	1SCA022117R8660	16.3
4	800	800	OETL 1000K4	1SCA022117R8820	20.5
3	1250/	1250/	OETL 1250K3	1SCA022097R3510	16.3
4	800	800	OETL 1250K4	1SCA022097R3770	20.5
3	1600/	1600/	OETL 1600K3	1SCA022097R3930	17.5
4	800	800	OETL 1600K4	1SCA022097R4150	22.5

Rotary type switches, 2500 ... 3150 A, 3 and 4-pole

Rated insulation voltage 1000 V. Including a handle, a shaft and terminal bolt kit*).

OETL 2500...3150

Black IP54 metallic handle YASDA 7 with 1-0 -indication and shaft OXP12x325, length 325 mm included.

No. of poles	I _{th} (open) [A]	Rated op. currents AC 21A/AC23 [A/A] 400V	Type Code	Ordering Details Type No.	Weight 1pc/kg
3	2500/	2500/	OETL 2500K3 ³⁾	1SCA022108R7780	37
4	1600	1600	OETL 2500K4 ³⁾	1SCA022115R6180	47
3	3150/	3150/	OETL 3150K3 ³⁾	1SCA022115R6340	37
4	1600	1600	OETL 3150K4 ³⁾	1SCA022115R6510	47

Side operated switches, 200 ... 800 A, 3 and 4-pole

Rated insulation voltage 1000 V. Including terminal bolt kit*). 400...800 A include phase barriers

OETLZN 17. The handle and shaft have to be ordered separately, see accessories.

No. of poles	I _{th} (open) [A]	Rated op. currents AC 21A/AC23 [A/A] 400V	Type Code	Ordering Details Type No.	Weight 1pc/kg
3	250	200/	OETL 200KM3-2	1SCA022144R9100	3.0
4		200	OETL 200KM4-2	1SCA022144R9360	3.7
3	315	250/	OETL 250KM3-2	1SCA022160R0790	3.0
4		250	OETL 250KM4-2	1SCA022160R0950	3.7
3	350	315/	OETL 315KM3-2	1SCA022144R8120	3.0
4		315	OETL 315KM4-2	1SCA022144R8390	3.7
3	500	500/	OETL 400DM1-2	1SCA022066R5950	5.2
4		500	OETL 400DM4-2	1SCA022071R7420	6.3
3	630	630/	OETL 630KM3-2	1SCA022082R5150	6.2
4		630	OETL 630KM4-2	1SCA022082R5310	7.6
3	800	800/	OETL 800KM3-2	1SCA022102R7290	7.3
4		720	OETL 800KM4-2	1SCA022102R7450	9.2

¹⁾ The busbar connections for different busbar arrangements have to be ordered separately.

³⁾ OETL 200 ... 3150 include terminal bolt kit:

OETL 200: OZXE 1, M8 x 25 mm, 6 pcs/pack.

OETL 250, 315: OZXE 2, M10 x 30 mm, 6 pcs/pack.

OETL 400: OZXE 6, M10 x 40 mm, 6 pcs/pack.

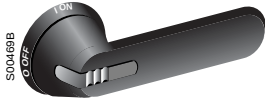
OETL 630, 800: OZXE 3, M12 x 40 mm, 6 pcs/pack.

OETL 1000...1600: OZXE 14, M12 x 60 mm, 6 pcs/pack.

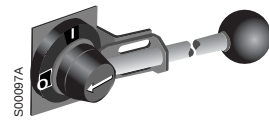
OETL 2500...3150: OZXE 14, M12 x 60 mm, 12 pcs/pack.

SwitchLine

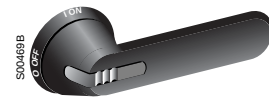
Switch Disconnectors / Load Break Switchs OETL Accessories, Ordering Details



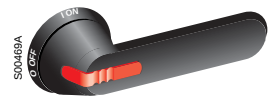
OH_



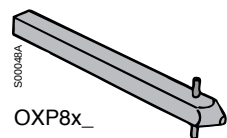
YASDA_



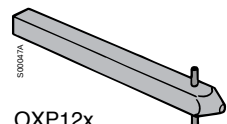
OH_



OH_



EXP8x_



EXP12x_

Optional handles, front operated

Plastic handles, IP 65, NEMA 1, 3R, 12

Indication in types OHB_ and OHY_: I-O/ON-OFF, in types OHG_: I-O, padlockable with 3 padlocks in OFF- position, door interlock in ON- position defeatable ²⁾, door drilling, see dimension drawings. The shaft has to be ordered separately.

Color	Handel length [mm]	Shaft diamt. [mm]	Suitable for Switches	Type Code	Ordering details Type No.	Recomm. order qty. (pcs)	Package (pcs)
Black	80	8	OETL 200...315	OHB 80J8	1SCA022381R0590	100	1
Yel.-red	80	8		OHY 80J8	1SCA022381R0750	100	1
Black	125	12	OETL 400...800	OHB 125J12	1SCA022381R1560	90	1
Yel.-red	125	12		OHY 125J12	1SCA022381R1720	90	1
Black	145	12	OETL 400...1600	OHY 145J12	1SCA022381R2370	90	1
Yel.-red	145	12		OHB 145J12	1SCA022381R2110	90	1

Metallic handles, IP65, NEMA 1, 3R, 4, 4x, 12

padlockable with 3 padlocks in OFF- position, door interlock in ON- position, door drilling is shown in handles« dimension drawings. For shaft diameter 12 mm.

Color	Handel length [mm]	Suitable for Switches	Type Code	Ordering details Type No.	Package (pcs)
1-0 Black	220	OETL 400...3150	YASDA 7	1SCA022071R3010	1

Optional handles, side operated

Plastic handles, IP 65.

Indication in types OHB_ and OHY_: I-O/ON-OFF, padlockable with 3 padlocks in OFF- position, door interlock in ON- position defeatable ²⁾, door drilling is shown in handles« dimension drawings. The shaft has to be ordered separately.

Color	Handel length [mm]	Shaft diamt. [mm]	Suitable for Switches	Type Code	Ordering details Type No.	Recomm. order qty. (pcs)	Package (pcs)
Black	80	8	OETL 200...315	OHB 80J8E00S	1SCA022381R9710	90	1
Yel.-red			¹⁾	OHY 80J8E00S	1SCA022382R9510	90	1
Black	145	12	OETL 400...800	OHB 145J12E002S	1SCA022383R5400	90	1
Yel.-red				OHY 145J12E002S	1SCA022383R5310	90	1

Optional handles with I-O-II -indication

Plastic handles, IP65NEMA 1, 3R, 12 indication I-O-II, padlockable with 3 padlocks in OFF-position, door interlock in ON-position defeatable. Door drilling, see dimension drawings. The shaft has to be ordered separately.

Color	Handel length [mm]	Shaft diamt. [mm]	Suitable for Switches	Type Code	Ordering details Type No.	Package (pcs)
Black	145	12	OETL 200...1600	OHB145J12E011	1SCA022399R8530	1

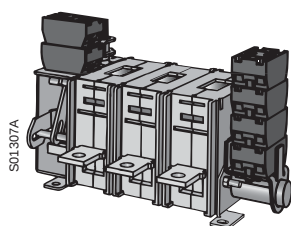
Extended shafts

Color	Handel length [mm]	Shaft diamt. [mm]	Suitable for switches	Type Code	Ordering details Type No.	Package (pcs)
140	120... 220	8	EXP8x140		1SCA022295R5860	1
240	220... 320	8	OETL 200... 315	EXP8x240	1SCA022137R5730	
500	480... 580	8	EXP8x500		1SCA022160R9230	
185	165... 275	12	OETL 400... 800	EXP12x185	1SCA022325R6710	1
	190... 260	12	OETL 1000... 1600			1
280	260... 370	12	OETL 400... 800	EXP12x280	1SCA022137R5140	
	285... 355	12	OETL 1000... 1600			
465	445... 555	12	OETL 400... 800	EXP12x465	1SCA022042R6020	1
	470... 540	12	OETL 1000... 1600			1
	480... 675	12	OETL 2500, 3150			

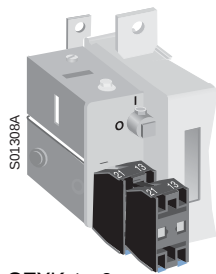
¹⁾ If the handle is mounted on the front of the door, a standard handle can be used as well.

SwitchLine

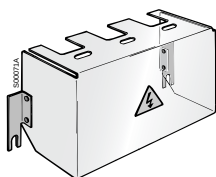
Switch Disconnectors / Load Break Switchs OETL Accessories, Ordering Details (continued)



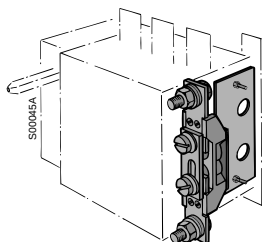
(Switches 200...315A)



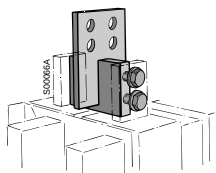
OZKX 1...6
(switches 400...800A)



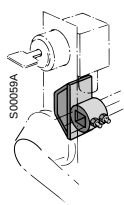
OETLZX 31, 32, 93, 94,
111, 112



OETLZX 129 / OESAZX 85



OETLZX 115, Vertical mounting



OETLZW 5, 16

Auxiliary contact sets

Wire cross section 0.5 mm²...2 x 2.5 mm². Insulation voltage U_i 690 V. Thermal current I_{th} = 10 A. Protection degree IP 20.

Performance data ²⁾ U_e / I_e (AC12): 120V/8A, 240V/6A, 400V/4A, 415V/4A, 480V/3A, 500V/3A, 690V/2A, U_e / I_e (DC12): 125V/1.1A, 250V/0.55A, 440V/0.31A, 500V/0.27A, 600V/0.2A.

Auxiliary contacts ¹⁾	Suitable for Switches	Type Code	Ordering details Type No.	Package (pcs)
1NO + 1NC	OETL 200...315 OETL 400...3150	OZKX 12 OZKX 1	1SCA022144R7400 1SCA022131R8690	1 1
2NO + 2NC	OETL 200...315 OETL 400...3150	OZKX 13 OZKX 2	1SCA022144R7230 1SCA022131R8850	1 1

Terminal shrouds

No. of Poles	Suitable for Switches	Quantity for full protection	TypeCode	Ordering details Type No.	Package (pcs)
3	OETL 200...315	6	OETLZX 128	1SCA022139R7200	1
4		8			
3	OETL 400	2	OETLZX 31	1SCA022061R1350	1
4		2	OETLZX 32	1SCA022061R1510	1
3	OETL 630	2	OETLZX 93	1SCA022083R6430	1
4		2	OETLZX 94	1SCA022083R6600	1
3	OETL 800	2	OETLZX 111	1SCA022106R7080	1
4		2	OETLZX 112	1SCA022106R7240	1
3	OETL 1000...1600	6	OESAZX 102	1SCA022090R6740	1
4		8			

Neutral links

Detachable, mounted to the switch

Suitable for switches	I _{th} [A]	Max. cable cross section/Cu or bolt [mm ²]	Type Code	Ordering details Type No.	Package (pcs)
OETL200... 315	400	240	OETLZX 129	1SCA022144R8210	1
OETL400... 800	400	240	OESAZX 85	1SCA022082R3110	1
OETL630...800	1000	M12	OESAZX 158	1SCA022186R3530	1
OETL1000...1600	1000	M12	OESAZX 159	1SCA022186R3700	1

Busbar connections

Busbar connections for OETL 2500 and OETL 3150

Busbar termination from different directions can be carried out by means of terminal connection kits providing ease and speed of installation.

Vertical mounting

Suitable for switches	No. of Connectors	Type Code	Ordering details Type No.	Package (pcs)
3 pole	6	OETLZX 115	1SCA022117R7770	1
4 pole	8	OETLZX 115/1	1SCA022126R2110	1

Locking accessories

Cam attachment for Castell, Lowe & Fletcher and Ronis interlock

Cam attachment for adopting the switches to the interlock system. The interlock is not included.

Suitable for Switches	Type Code	Ordering details Type No.	Package (pcs)
OETL 200...315	OETLZW 16	1SCA022093R2070	1
OETL 400...3150	OETLZW 5	1SCA022052R3900	1

¹⁾ Contact numbering according to EN 50 013

²⁾ According to IEC 947-5-1

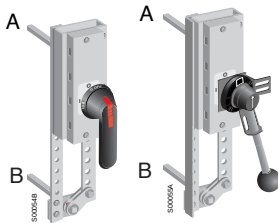
* Auxiliary contacts are of early break type which means that in the switches, the NO aux.contacts break before the main contacts open.

SwitchLine

Switch Disconnectors / Load Break Switches OETL Accessories, Ordering Details (continued)

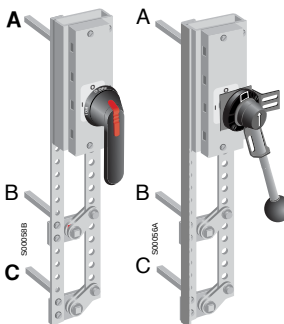


OETLZW 18



OETLZW
11, 20

OETLZW
12



OETLZW 21

OETLZW 13



OETLZW 3, 14, 15, 19

Conversion kits for the combination switches

The attachment levers are provided with holes, enabling different shaft distances. The combination switches can be mounted either horizontally or vertically. See dimension drawings, pages 68...69.

6 and 8-pole switches

Parallel attachment of 3 and 4-pole switches for building 6 and 8-pole switches respectively. Both switches work simultaneously.

Suitable for Switches	Shaft distance [mm]	Inci. Shafs & handels ⁴⁾	Type Code	Ordering etails Type No.	Package (pcs)
OETL 200...315	80 + (0... 10) x 20	x	OETLZW 18	1SCA022143R4410	1
OETL 400...1600	80 + (0...19) x 20	— ^{1) 2)}	OETLZW 9	1SCA022061R3300	1

Change over switches

Two switches connected with a mechanism.

Suitable for Switches	Shaft distance [mm]	Inci. Shafs & handels ⁴⁾	Type Code	Ordering etails Type No.	Package (pcs)
OETL 200...315	210 + (0...11) x 20	x	OETLZW 20	1SCA022142R1270	1
OETL 400	210 + (0... 11) x 20	x	OETLZW 11	1SCA022078R0030	1
OETL 630...1600	210 + (0... 20) x 20	x	OETLZW 12	1SCA022078R0200	1

By-pass switches

A combination of two switches in parallel with one change-over switch to pass-by, e.g. a breaker for maintenance. The by-pass attachment can be used together with another combination attachment.

Suitable for Switches	Shaft distance [mm]	Inci. Shafs & handels ⁴⁾	Type Code	Ordering etails Type No.	Package (pcs)
OETL 200...315	between A and B: 210 + (0...9) x 20 between A and C: 250 + (0...9) x 20	x	OETLZW 21	SCA022158R1800	1
OETL 400...1600	between A and B: 210 + (0...18) x 20 between A and C: 250 + (0...18) x 20	x	OETLZW 13	1SCA022078R0460	1

Mechanical interlock

Prevents one switch from closing to ON-position if the other is not in OFF-position. When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in ON-position.

Suitable for Switches	Shaft distance [mm]	Inci. Shafs & handels ⁴⁾	Type Code	Ordering etails Type No.	Package (pcs)
OETL 200...315	240/280	— ^{1) 3)}	OETLZW 19	1SCA022142R1010	1
OETL 400...800	300	— ^{1) 2)}	OETLZW 3	1SCA022049R0380	1
OETL 400...800	250	— ^{1) 2)}	OETLZW 14	1SCA022077R3410	1
OETL 400...3150	500	— ^{1) 2)}	OETLZW 15	1SCA022081R9340	1

¹⁾ Handles delivered with the switches can also be used with the conversion kits.

²⁾ Suitable shaft diameter 12 mm. Handles: OH_ or YASDA 7 / -8. (for OETL 1000...1600 YASDA_)

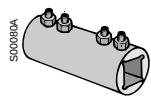
³⁾ Suitable shaft diameter 8 mm. Handles: OH_.

Conversion kit:	Incl. the handle type:	Description:
OETL ZW 18	OHB145J12	(plastic: I-O, ON-OFF)
OETL ZW 11, 20, 21,	OHB145J12E011	(plastic: I - O - II)
OETL ZW 12	YASDA21	(metallic: I - O - II)
OETL ZW 13	YASDA6	(metallic: I - O - II)

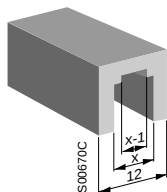
SwitchLine

Switch Disconnectors / Load Break Switches OETL

Accessories, Ordering Details (continued)



OETLZX 95



OETL ZK 19 (x = 6 mm)
OETL ZT 123 (x = 8 mm)

Shaft extension socket

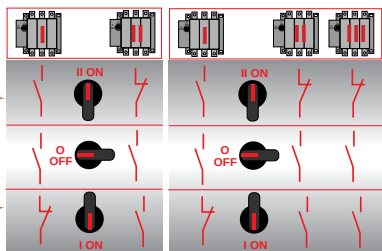
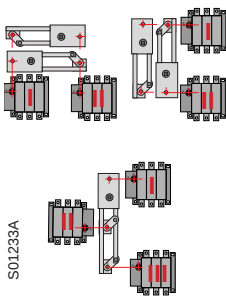
For extending the shaft of combination attachment.

Suitable for Shaft with diameter [mm]	Type Code	Ordering etails Type No.	Package (pcs)
2	OETL ZX 95	1SCA022083R5620	1

Adapters for extention socket

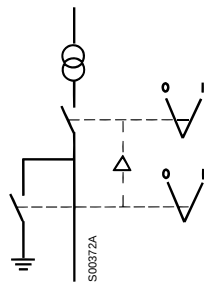
Adapters to place inside of OETLZX 95 to connect shafts of different sizes.

Suitable for Shaft with diameter [mm]	Type Code	Ordering etails Type No.	Package (pcs)
5...6	OETL ZK 19	1SCA022093R1850	1
8	OETL ZT 123	1SCA022164R8300	1



Change-over switches

By-pass switches



Mechanical Interlock