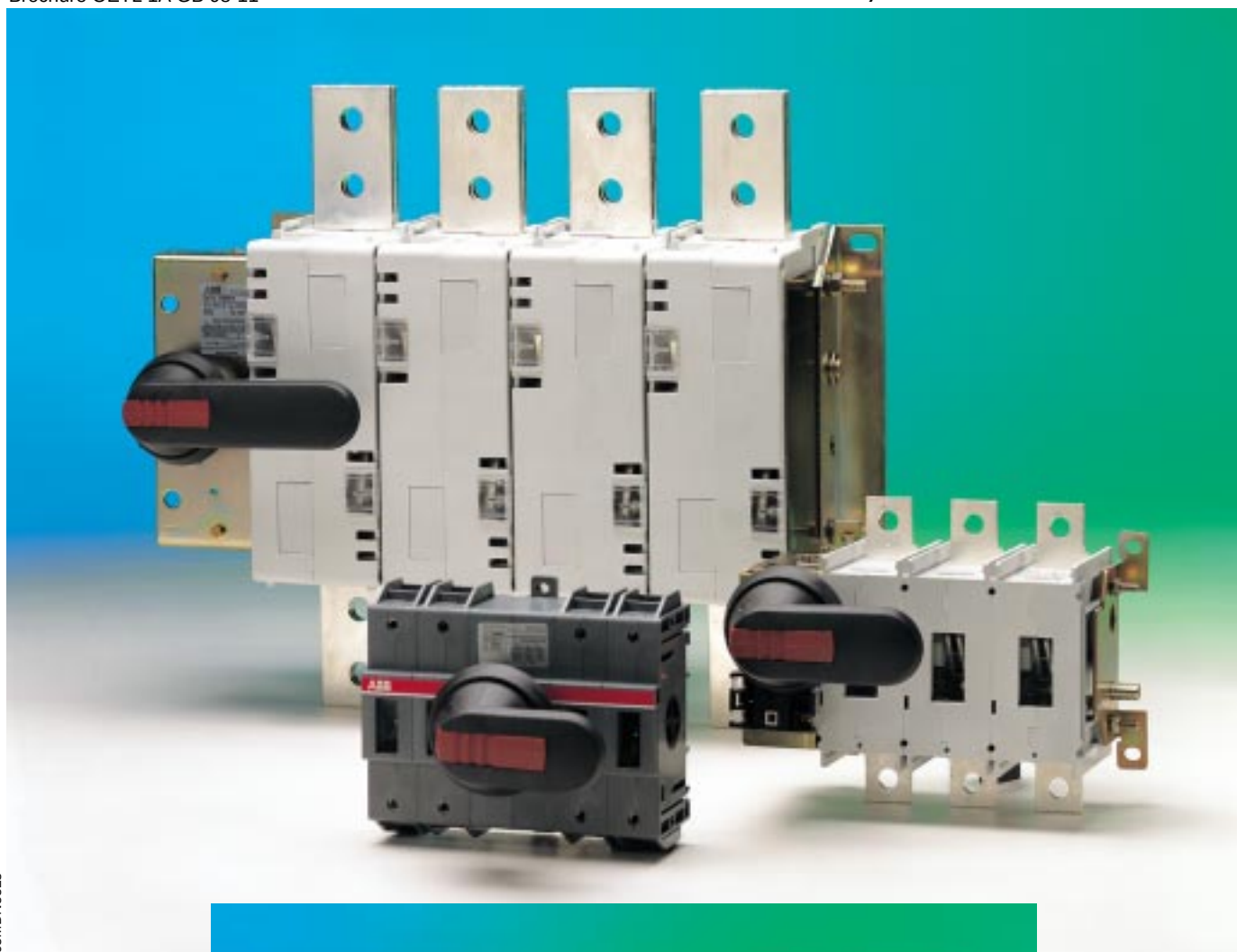


SwitchLine
**Load Break Switches/
Switch-Disconnectors**

16...160 A, 690 V

200...3150 A, 1000 V

Brochure OETL 1A GB 98-11



95MDN5523



95MDN5573

SwitchLine - Switch-Disconnectors/ Load Break Switches

Versatile International Range

The load break switch series comply with the major international standards and have a comprehensive range of approvals.

Tested According to IEC 947-1 and 3

Other related standards: IEC 664, 269 and 204

Designed to Perform as:

- Switch-Disconnectors (IEC 947 and VDE 0660)
- Motor Circuit Switches (AC23 ratings upto 1000V)
- Main Switches (VDE 0113)
- Local Safety Switches (VDE 0660, SS4280605, KY 119-95)
- Special Switches
- Busbar Couplers

Compliance with the European Machine Directives IEC 204 (EN 60204)

The rated impulse withstand voltage (U_{imp}) exceeds 8 kV allowing practically free installation for all physical environments, system voltages and installation categories.

Environmentally Friendly

The products are designed according to the latest knowledge of environmentally friendly materials, e.g. heavy metals are avoided, cadmium is not used in contacts. Plastic used in switches is recyclable. Also product packages are made of recyclable materials. Electroplating is located in one place where unpurities can be easily restored.

Track Resistant Material

Excellent track resistance of isolation material in switch frame prevents flashover between phases in the most severe circumstances.

Safety for Personnel

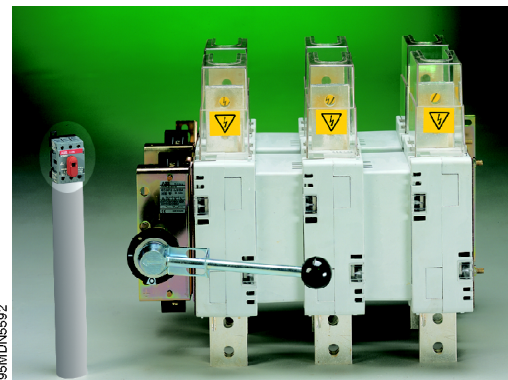
The load break switches can practically handle any situation in electrical circuits e.g. making fault level up to 100 kA and breaking the stalled motor current up to rated voltage 690 V, AC 23 without any risk for the operator.

The handle allows opening of compartment door only in OFF-position. This interlock can however be by-passed by the authorized persons. The handle can be padlocked with three padlocks in OFF-position. Also the switch mechanism can be padlocked in OFF-position, when the door is open.

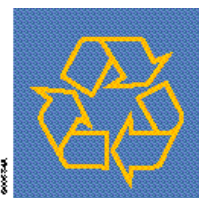
Auxiliary contacts, electrical and mechanical interlocks and attachments for different interlock systems e.g. Castell contribute to safe use of the switches in any circumstances.

Reliable Position Indication

The handle indicates with complete reliability the exact position of the contacts. If the contacts are welded together the handle does not reach OFF-position but remains between ON- and OFF-positions maintaining interlock of the door.



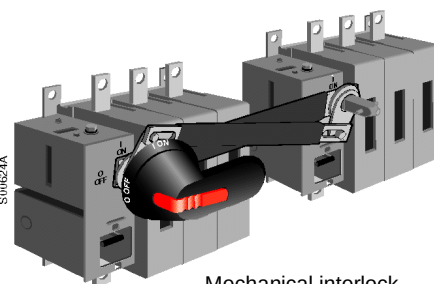
From 16 Amps up to 3150 Amps.



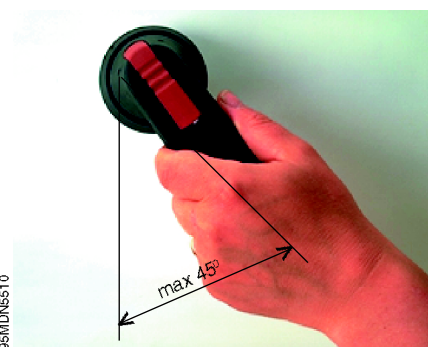
Recyclable materials are used and in production process environmental aspects are considered.



SFS has granted ABB Control Oy a certificate as proof that the environmental management system complies with the requirements of SFS-EN ISO 14001

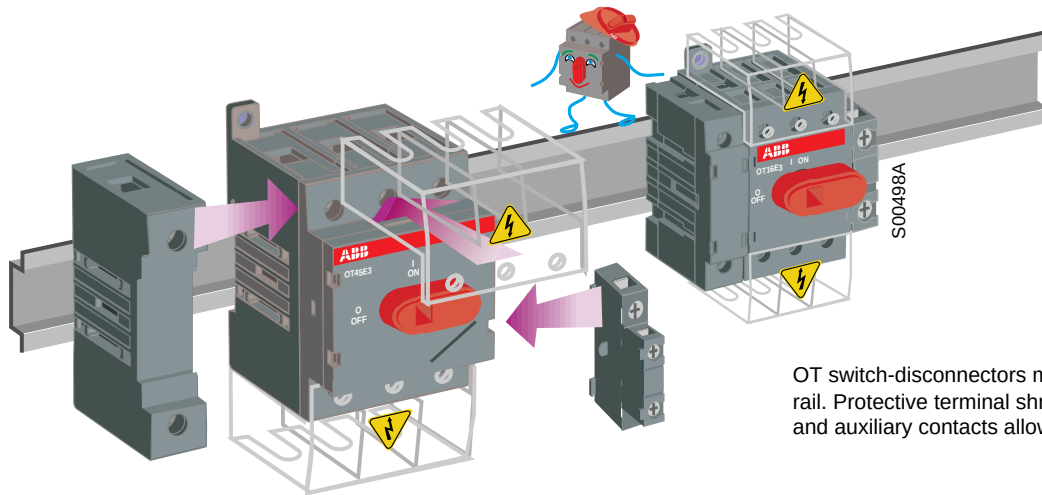


Mechanical interlock



If the contacts are welded together, the handle deviates clearly from OFF-position.

SwitchLine - OT 16 ... 125



OT switch-disconnectors mounted on a DIN-rail. Protective terminal shrouds, fourth pole and auxiliary contacts allow flexibility of use.

New Modular Switch-Disconnectors: Uniform Family of Four Frame Sizes and up to Eight Current Ranges.

The OT family comprises the following sizes: 16 A, 25 A, 32 A, 45 A, 63 A, 80 A, 100 A and 125 A. Switches comply with the latest specifications of modern low voltage installations. One of the excellent features of OT switches is operator independent **quick-make / quick-break mechanism** available in OT 45...125.



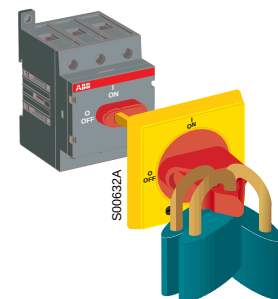
Small compact structure.

Easy and Quick Installation

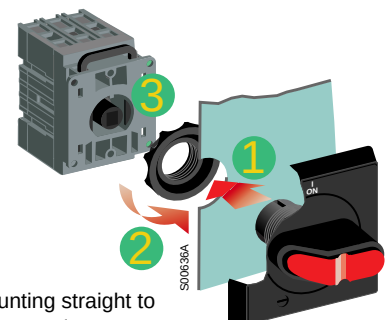
Switch-disconnectors can be mounted either on base plate on the DIN-rail or by screws and on the door both by snap-on and screw-fitting. Electric or pneumatic screw drivers may be used to speed up the wiring process. OT switches are suitable for a 45 mm frame size. Accessories are easily snapped on to the switches. In OT 45...125 the fourth pole can also be snapped on to the switch without rewiring. The entire family shares the same auxiliary contacts.

Safe and Reliable

The mechanism of base mounted switch-disconnectors OT45...125 is padlockable by means of locking adapter. The handle can be padlocked in OFF-position with max. three padlocks. Transparent terminal shrouds are available for three-pole switches and for the fourth pole. Shrouds can be easily snapped on a switch.

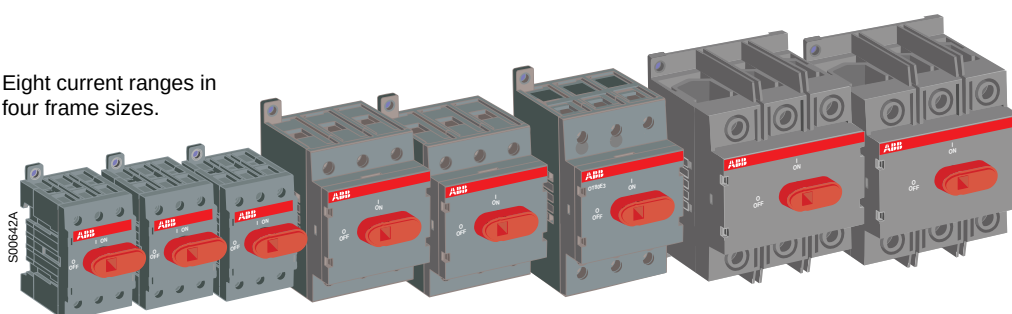


Handle can be padlocked in OFF-position.



Mounting straight to door panel.

Eight current ranges in four frame sizes.



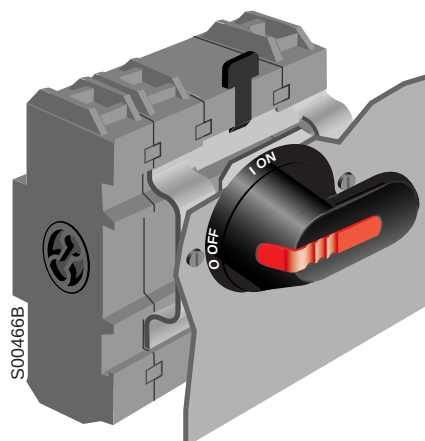
SwitchLine - OT 125A and 160

Safety for variety of Applications

The basic construction of the switches is compact and safe. The rated impulse withstand voltage ensures a reliable isolation. Visible, self-cleaning, double-breaking contacts, reliable position indication, door interlocking, protected clamp terminals and operator-independent quick-make/quick-break mechanism - all this contribute to reliability and safety.

The modular design makes OT 125A and OT 160 universal to fit into various switchboards from motor control centres to consumer units. Door-mounted switches are also available.

Switch-disconnectors OT 125A and OT 160 are equipped with removable snap-on base mounting feet and incorporated DIN-rail fastening clips on both sides of the switch for mounting on either 35 or 75 mm DIN-rails. They are also mountable between two DIN-rails (distance min. 150 mm) in consumer units.



Mounting to the door plate.

SwitchLine - OETL 200 ... 3150

The range of OETL switch -disconnectors consists of eleven different sizes from 200 A upto 3150 A, both three- and four-pole switches. One- and two-pole switches are available on request.

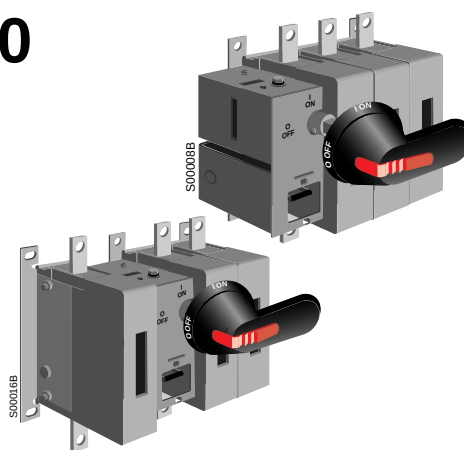
Flexibility of the Range

The high performance allows mounting in all positions. Also the placing possibilities of the mechanism increase adaptability to different switchgears. Both front- and side-operated switches are available. The front-operated mechanism can be placed between the poles or to the side of the switch. The modular construction enables a variety of different applications from motor control to DC-safety switches and busbar couplers with different pole sizes and phase distances.

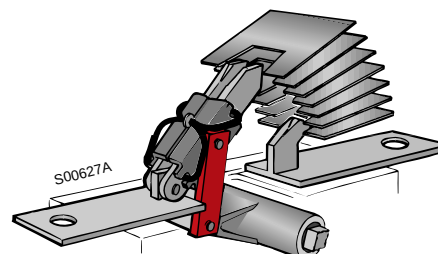
Electrical and mechanical interlocks as well as kit systems for change-over switches and parallel switches from 3 to 8 pole enable use of standard switches for special applications.

Reliable Contact Construction

Patented self-cleaning contact construction, effective arc chute plates and positive opening operation guarantee reliable performance. Rated voltage up to 1000 VAC.



Flexibility of construction gives many possibilities.



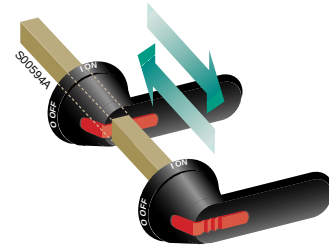
Reliable contact construction.

Easy Installation

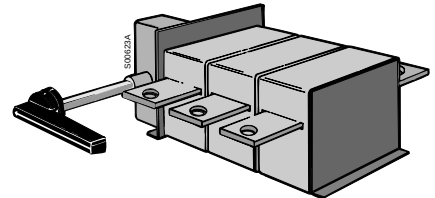
Thanks to the adjustable shaft switches can be easily installed in panels of different depths.

The large switches are provided with key hole fixing brackets for easy and quick installation.

Comprehensive selection of optional accessories enables variety of switch combinations as well as safe and versatile installations. Outstanding electrical characteristics in extremely compact switch design contribute to space saving installation and operational convenience even in the most arduous circumstances.



Adjustable shaft-length.



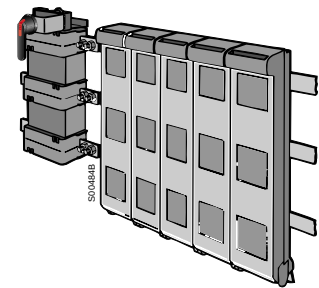
Earthing switch OETL 1250 M, mounted to a horizontal position.

Easy to Adapt for Different Applications

Time consuming mounting of copper busbars can be simplified with the phase distance of the switch, which matches the busbar distance, especially required in the range of 1000...3150A.

The short time withstand current of 50 kA/1 sec and electrical interlock allow the use as an earthing switch. This application needs panel space not more than 210 mm x 400 mm.

The motor operator OEMO_ for remote control of the switches is available for switches from 200 A.



Load break switch OETL 1600 K 185 can be directly mounted onto a distribution board with fuse switches or fuse bases.

Switch-Disconnecter for Flexible, Reliable, Easy and Safe Installation

Terminal shrouds and protected basic construction eliminate the risk of touching live parts improving the safety and reliability of the installation.

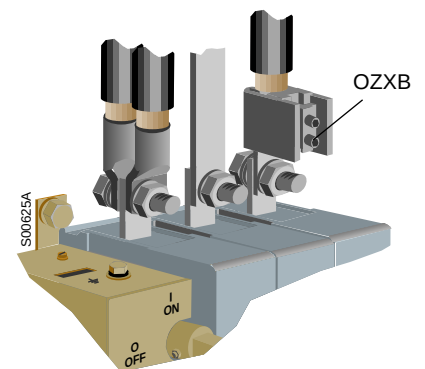
Switch-disconnectors OETL 200...315 are equipped with fixing facilities for user's own terminal shrouds (switch frames incorporate 4 x M4 threads).

Al -cable can also be directly connected into the switch terminal with the OZXB Al/Cu clamps.

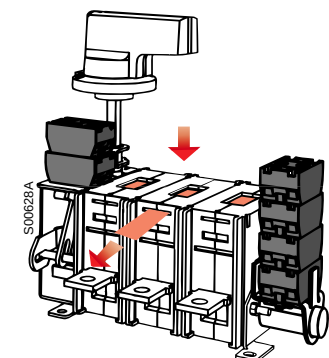
Auxiliary contacts can be fitted on the top or on the side of the load break switch (OETL 200...315) for easy and quick installation.

Visible contacts of the switches give an additional safety feature for mounting (OT125A...OETL800). Removable plastic window plates can also be cleaned or replaced when necessary (OETL 200...315).

The range of side-operated switches 200...800 A increases the versatility of installations.



Versatile connecting possibilities: Al/Cu clamp used for direct connection of Al cable.



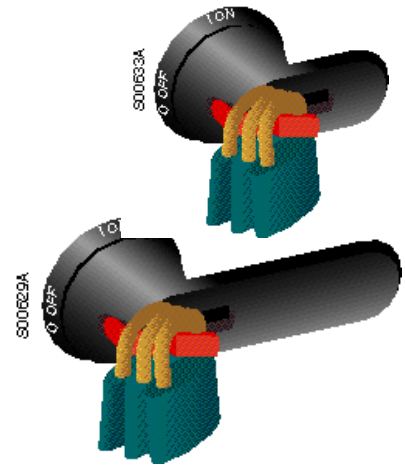
Auxiliary contacts of OETL 200...315 and removable windows.

New Handle Range OH_

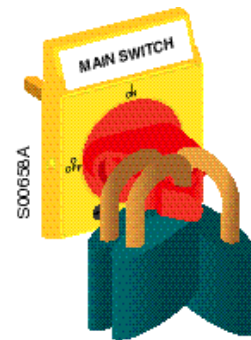
Pistol and selector type handles

Number of Improved Features

- New modern design, uniform range.
- All pistol handle models with IP 65 protection class as standard. This reduces stock costs and product codes.
- Defeatable door interlocking even with IP 65 protection class.
- The door cannot be opened, if the switch is padlocked in OFF-position.
- The handle cannot be padlocked in OFF-position, if any of the contacts is not totally open.
- Double insulation.
- Pistol-type handles are available with I-O and ON-OFF indication in black and yellow/red and with I-O indication in grey .
- Selector type handles are available with I-O and ON-OFF indication in black, yellow/red, silver and grey.
- Legend plates available for selector type handles.



Pistol type handles padlocked with max. number of padlocks.



Padlocked selector type handle with legend plate.



The handle range was awarded by the Industrie Forum Design Hannover and by Pro Finnish Design in 1997.



SwitchLine

**Switch-Disconnectors /
Load Break Switches
OT and OETL**

Contents:

• Technical data according to IEC 947	8 - 10
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• Ordering information OT 125A and 160	19 - 22
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• Dimension drawings	35 - 53
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SwitchLine

Technical Data

Switch-Disconnectors / Load Break Switches OT

TECHNICAL DATA ACCORDING TO IEC 947 FOR OT AND OETL SWITCH-DISCONNECTORS

All rights for alterations are held without prior notice.

Switch size		A	OT_E	16	25	32	45	63	80	100	125
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution degree 3	V		750	750	750	750	750	750	750	750
Dielectric strength	50 Hz 1min.	kV		6	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	50	63	100	115	125
/ambient 40°C	In enclosure	A		25	32	40	50	63	80	115	125
/ambient 60°C	In enclosure	A		25	32	40	50	63	80	115	125
...with minimum conductor cross section	Cu mm ²			4	6	10	16	16	25	35	50
Rated operational current, AC-21A	up to 415 V	A		16	25	32	45	63	80	100	125
	440 V	A		16	25	32	45	63	80	100	125
	500 V	A		16	25	32	45	63	80	100	125
	690 V	A		16	25	32	45	63	80	100	125
	1000 V	A		-	-	-	-	-	-	-	-
Rated operational current, AC-22A	up to 415 V	A		16	25	32	45	63	80	100	125
	440 V	A		16	25	32	45	63	80	100	125
	500 V	A		16	25	32	45	63	80	100	125
	690 V	A		16	25	32	45	63	63	100	125
	1000 V	A		-	-	-	-	-	-	-	-
Rated operational current, AC-23A	up to 415 V	A		16	20	23	30	38	55	80	90
	440 V	A		16	20	23	30	32	51	65	78
	500 V	A		16	20	23	30	32	32	60	70
	690 V	A		10	11	12	20	20	20	40	50
	1000 V	A		-	-	-	-	-	-	-	-
Rated operational current / poles in series, DC-21A	up to 48 V	A		16/1	25/1	32/1	45/1	63/1	80/1	100/1	125/1
	110 V	A		16/2	25/2	32/2	45/2	63/2	80/2	100/2	125/2
	220 V	A		16/3	25/3	32/3	45/4	63/4	80/4	100/4	125/4
	440 V	A									
	750 V	A									
Rated operational current / poles in series, DC-22A	up to 48 V	A		16/1	25/1	32/1	45/1	63/1	80/1	100/1	125/1
	110 V	A		16/2	25/2	32/2	45/2	63/2	80/2	100/2	125/2
	220 V	A		16/3	25/3	32/4	45/4	63/4	80/4	100/4	125/4
	440 V	A									
	750 V	A									
Rated operational current / poles in series, DC-23A	up to 48 V	A		16/1	25/1	32/1	45/1	63/1	80/1	100/1	125/1
	110 V	A		16/2	25/2	32/2	45/2	63/2	80/2	100/2	125/2
	220 V	A		16/4	25/4	32/4	45/4	63/4	80/4	100/4	125/4
	440 V	A									
	750 V	A									
Rated operational power, AC-23A	The kW-ratings are accurate for 3-phase 1500 R.P.M. standard asynchronous motors.	kW		3	4	5,5	7,5	11	18,5	22	22
	220-240 V	kW		3	4	5,5	7,5	11	18,5	22	22
	400-415 V	kW		7,5	9	11	15	18,5	30	37	45
	440 V	kW		7,5	9	11	15	18,5	30	37	45
	500 V	kW		7,5	9	11	15	18,5	18,5	37	45
	690 V	kW		7,5	9	11	15	15	15	37	45
Rated breaking capacity, AC-23A	up to 415 V	A		128	160	184	240	304	440	640	720
	440 V	A		128	160	184	240	256	408	520	624
	500 V	A		128	160	184	240	256	256	480	560
	690 V	A		80	88	96	160	160	160	320	400
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	500/1
	110 V	A		64/2	100/2	128/2	180/2	252/2	320/2	400/2	500/2
	220 V	A		64/3	100/4	128/4	180/4	252/4	320/4	400/4	500/4
	440 V	A									
	750 V	A									
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	10 kA, 400V	kA									
Breaker and fuse selection information on request.	10 kA, 690V	kA									
	50 kA, 415 V	kA		6,5	6,5	6,5	8,3	8,5	11	18	18
	50 kA, 690 V	kA		4	4	4	6,7	6,7	10	10	10
	100 kA, 500 V	kA									
IEC269 OFAA-fuse size		A		25	32	40	50	63	80	100	125
Rated short-time withstand current	R.M.S. -value I _{cw}	kA									
	690V 0,2s	kA									
	690V 0,25s	kA									
Rated short circuit making capacity	Peak value I _{cm}	kA		0,5	0,5	0,5	1	1	1,5	2,5	2,5
	690V/500V	kA		0,705	0,705	0,705	1,4	1,4	2,1	3,6	3,6
Rated capacitor power	The capacitor ratings are limited by the fuse link.	kVAr									
	400 V	kVAr									
	415 V	kVAr									
	690 V	kVAr									
Power loss / pole	At rated operational current	W		0,3	0,6	1,0	1,4	2,8	6,4	4,0	6,3
Mechanical endurance	Divide by two for operation cycles	Oper.		20 000	20 000	20 000	20 000	20 000	20 000	20 000	20 000
Weight without accessories	3-pole	kg		0,11	0,11	0,11	0,27	0,27	0,32	0,36	0,36
	4-pole	kg		0,15	0,15	0,15	0,35	0,35	0,40	0,5	0,5
Cable size	Cu-wire size suitable for terminal clamps	mm ²		0,75-10	0,75-10	0,75-10	1,5-25	1,5-25	1,5-50 ²⁾	10-70	10-70
		AWG		18-8	18-8	18-8	14-4	14-4	14-0	8-00	8-00
Terminal bolt size	Metric thread diameter x length	mm									
Terminal tightening torque	Counter torque required	Nm		0,8	0,8	0,8	2	2	2,5	6	6
Operating torque	3-pole switch-disconnector	Nm		1	1	1	1,2	1,2	1,2	2	2

1) Fuse size 4

2) Minimum stranded 2,5mm²

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

4) Pf. 0,95

5) Pf. 0,65

6) At 380...415V when provided with busbar connections OEZXX6 or 13

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

SwitchLine

Technical Data

Switch-Disconnectors / Load Break Switches OETL

OETL 125	OT 125 A	160 E	OETL 200	250	315	400	630	800	1000	1250	1600	2500	3150
750	750	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
-	10	10	10	10	10	10	10	10	8	8	8	8	8
8	12	12	12	12	12	12	12	12	8	8	8	8	8
125	135	200 ⁶⁾	250	315	350	500	630	800	1000	1250	1600	2500	3150
125	135	160	200	270	315	500	630	720	1000	1250	1600	2300	2600
100	125	160	175	220	260	410	500	600	900	1000	1250	1950	2300
50	50	70	95	120	185	2x150	2x185	2x240	2x(60x5)	2x(80x5)	2x(100x5)	4x(100x5)	3x(100x10)
125	125	200 ⁶⁾	200	250	315	500	630	800	1000	1250	1600	2500 ³⁾	3150 ³⁾
125	125	160	200	250	315	500	630	800	1000	1250	1600	2500 ³⁾	3150 ³⁾
125	125	160	200	250	315	500	630	800	1000	1250	1600	2500 ³⁾	3150 ³⁾
125	125	160	200	250	315	500	630	800	1000	1250	1600	2500 ³⁾	3150 ³⁾
-	-	-	200	250	315	400	630	630					
125	125	200 ⁶⁾	200	250	315	500	630	800	1000	1250	1600	1600 ³⁾	1600 ³⁾
125	125	160	200	250	315	500	630	800	1000	1250	1600	1600 ³⁾	1600 ³⁾
125	125	160	200	250	315	500	630	800	1000	1250	1600	1600 ³⁾	1600 ³⁾
80	125	160	200	250	315	500	630	800					
			200	250	250	400	400	400					
75	105	135	200	250	315	500	630	720	800	800	800	800 ³⁾	800 ³⁾
60	90	125	200	250	315	500	590	670	800	800	800	800 ³⁾	800 ³⁾
56	70	125	200	250	315	500	580	600	800	800	800	800 ³⁾	800 ³⁾
35	50	80	200	250	315	350	350	350					
			125	125	125	200	200	200					
-	125/1	160/1	200/2	250/2	315/2								
-	125/1	160/1	200/2	250/2	315/2								
-	125/2	160/2	200/2	250/2	315/2								
-	125/3	160/3	200/3	250/3	315/3								
-	125/4	160/4	200/4	250/4	315/4								
-	125/1	160/1	200/2	250/2	315/2								
-	125/1	160/1	200/2	250/2	315/2								
-	125/2	160/2	200/2	250/2	315/2								
-	125/3	160/3	200/3	250/3	315/3								
-			200/4	250/4	315/4								
-	125/1	160/1	200/2	250/2	315/2								
-	125/1	160/1	200/2	250/2	315/2								
-	125/2	160/2	200/2	250/2	315/2								
-	125/3	160/3	200/3	250/3	315/3								
-			200/4	250/4	315/4								
22	30	45	55	75	90	132	180	200	250	250	250	250	250
37	55	75	110	132	160	200	315	355	400	400	400	400	400
37	55	75	110	132	160	315	355	355	400	400	400	400	400
37	55	75	132	160	200	315	355	400	450	450	450	450	450
30	55	75	170	200	250	315	355	355					
600	840	1080	1600	2000	2520	4000	5040	5760	6400	6400	6400	6400	6400
480	720	1000	1600	2000	2520	4000	4720	5360	6400	6400	6400	6400	6400
448	560	1000	1600	2000	2520	4000	4640	4800	6400	6400	6400	6400	6400
280	400	640	1600	2000	2520	2800	2800	2800	2500 ³⁾	2500 ³⁾	2500 ³⁾	4800 ³⁾	4800 ³⁾
-	500/1	640/1	800/2	1000/2	1260/2								
-	500/1	640/1	800/2	1000/2	1260/2								
-	500/2	640/2	800/2	1000/2	1260/2								
-	500/3	640/3	800/3	1000/3	1260/3								
-			800/4	1000/4	1260/4								
									50	50	50	50/63	50/63
6													
4,2													
	25	25	35	35	35	43	63	63					
	30	30	45	45	45	53	70	70					
80	200	200	400	400	400	500	800 ¹⁾	800 ¹⁾					
			17,5	17,5	17,5		38	38					
	7	7				31							
2,5	4	4	8	8	8	17	17	17	50 ⁷⁾	50 ⁷⁾	50 ⁷⁾	80 ⁷⁾	80 ⁷⁾
3,6	12	12	35	35	35	65	80	80	105	105	105	105/140	105/140
50			90	110	140	250	300	330					
50			90	110	140	250	300	330					
-													
7	4,7	6,5	3,5	5,5	8,5	13	22	40	27	40	67	90	140
20 000	20 000	20 000	16 000	16 000	16 000	10 000	10 000	10 000	6 000	6 000	6 000	1 200	1 200
0,45	1,1	1,1	3	3	3	5,2	6,2	6,2	16,3	16,3	17,5	37	37
0,63	1,3	1,3	3,7	3,7	3,7	6,4	7,6	7,6	20,5	20,5	22,5	47	47
10-70	10-70	10-70											
8-00	8-00	8-00											
			8x25	10x30	10x30	10x40	12x40	12x40	12x60	12x60	12x60	12x60	12x60
6	6	6	30..44	30..44	30..44	30..44	50..75	50..75	50..75	50..75	50..75	50..75	50..75
1,6	6	6	8,2	8,2	8,2	17	21	21	21	21	21	50	50

SwitchLine

Technical Data, Approvals, Certificates and Standards Switch-Disconnectors / Load Break Switches

Approvals, Certificates

FIMKO
ASTA
SEMKO
NEMKO
DEMKO
KEMA
BBJ (BIURO BADAN JAKOSCI)
Det Norske Veritas
Bureau Veritas
Underwriters Laboratories (UL)
Polish Register of Shipping
Lloyd's Register of Shipping
Germanischer Lloyd
Maritime Register of Shipping
Canadian Standards Association (CSA)
GOST-R CE declaration of Conformity

Detailed approval list on products available
on request.

Standards

IEC 947/1, 3 (EN60947/1,3), IEC 204 (EN 60204), BS 5419,
VDE 0660, VDE 0113, UL 508, UL 98, SS 4280605
CSA C22.2 No. 4 and 14
KY 119-95.





SwitchLine

Switch-Disconnectors / Load Break Switches OT 16...125, OETL 125

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SwitchLine

Ordering Information

OT 16...125

Base and DIN-rail mounting switch-disconnectors

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

Type	Number of poles	I_{th} (open) [A]	Cable cross section [mm²]	Operational currents AC22/AC23 400 V [A/A]	Weight/one pc [kg]	Recommended order quantity [pcs]	Ordering number
OT 16E3 OT 16E4	3 4	25 25	0.75...10 0.75...10	16 / 16 16 / 16	0.11 0.14	10 10	1SCA022283R8470 1SCA022352R7170
OT 25E3 OT 25E4	3 4	32 32	0.75...10 0.75...10	25 / 20 25 / 20	0.11 0.14	10 10	1SCA022283R8630 1SCA022352R7330
OT 32E3 OT 32E4	3 4	40 40	0.75...10 0.75...10	32 / 23 32 / 23	0.11 0.14	10 10	1SCA022283R9010 1SCA022352R7500
OT 45E3 OT 45E4	3 4	50 50	1.5...25 1.5...25	45 / 30 45 / 30	0.27 0.30	10 10	1SCA022352R6950 1SCA022352R7680
OT 63E3 OT 63E4	3 4	63 63	1.5...25 1.5...25	63 / 38 63 / 38	0.27 0.30	10 10	1SCA022352R7090 1SCA022352R7760
OT 80E3 OT 80E4	3 4	100 100	1.5...50 ⁵⁾ 1.5...50 ⁵⁾	80 / 55 80 / 55	0.32 0.40	10 10	1SCA022353R7210 1SCA022369R2960
OT 100E3 OT 100E4	3 4	115 115	10...70 10...70	100 / 80 100 / 80	0.36 0.50	10 10	1SCA022398R4400 1SCA022398R4580
OT 125E3 OT 125E4	3 4	125 125	10...70 10...70	125 / 90 125 / 90	0.36 0.50	10 10	1SCA022353R7480 1SCA022373R1880

Door mounting switch-disconnectors

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

OT 16ET3 OT 16ET4	3 4	25 25	0.75...10 0.75...10	16 / 16 16 / 16	0.13 0.16	10 10	1SCA022352R6610 1SCA022352R7250
OT 25ET3 OT 25ET4	3 4	32 32	0.75...10 0.75...10	25 / 20 25 / 20	0.13 0.16	10 10	1SCA022352R6790 1SCA022352R7410
OT 32ET3 OT 32ET4	3 4	40 40	0.75...10 0.75...10	32 / 23 32 / 23	0.13 0.16	10 10	1SCA022352R6870 1SCA022347R3490
OT 45ET3 OT 45ET4	3 4	50 50	1.5...25 1.5...25	45 / 30 45 / 30	0.28 0.35	10 10	1SCA022353R7050 1SCA022371R5500
OT 63ET3 OT 63ET4	3 4	63 63	1.5...25 1.5...25	63 / 38 63 / 38	0.28 0.35	10 10	1SCA022353R7130 1SCA022371R6490
OT 100ET3 ³⁾ OT 100ET4 ⁴⁾	3 4	115 115	10...70 10...70	100 / 80 100 / 80	0.40 0.54	10 10	1SCA022393R9280 1SCA022398R4660
OT 125ET3 ³⁾ OT 125ET4 ⁴⁾	3 4	125 125	10...70 10...70	125 / 90 125 / 90	0.40 0.54	10 10	1SCA022353R7560 1SCA022376R8880

Auxiliary contacts

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

Type	Description	Suitable for switches	Weight/one pc [kg]	Recommended order quantity [pcs]	Performance data U_e I_e AC15	Ordering number
OA 1G01 ²⁾ ⁴⁾ OA 1G01AU ²⁾ ⁶⁾	1 NC $\begin{matrix} \diagup 21(31) \\ \diagdown 22(32) \end{matrix}$	OT _	0.03	10	230V 400V 415V 690V 6A 4A 4A 2A	1SCA022353R4890 1SCA022436R7830
OA 1G10 ³⁾ ⁴⁾ OA 1G10AU ³⁾ ⁶⁾	1 NO $\begin{matrix} \diagup 13(43) \\ \diagdown 14(44) \end{matrix}$	OT _	0.03	10		1SCA022353R4970 1SCA022436R7910
OA 2G11 ⁴⁾ ⁷⁾	1 NO + 1 NC $\begin{matrix} \diagup 13 \\ \diagdown 14 \end{matrix} \begin{matrix} \diagup 21 \\ \diagdown 22 \end{matrix}$	OT_E	0.03	10		1SCA022379R8100
OA 2L11 ⁴⁾	$\begin{matrix} \diagup 13 \\ \diagdown 14 \end{matrix} \begin{matrix} \diagup 21 \\ \diagdown 22 \end{matrix}$	OT80	0.04	10		1SCA022424R3190

1) Available in autumn 1999

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

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

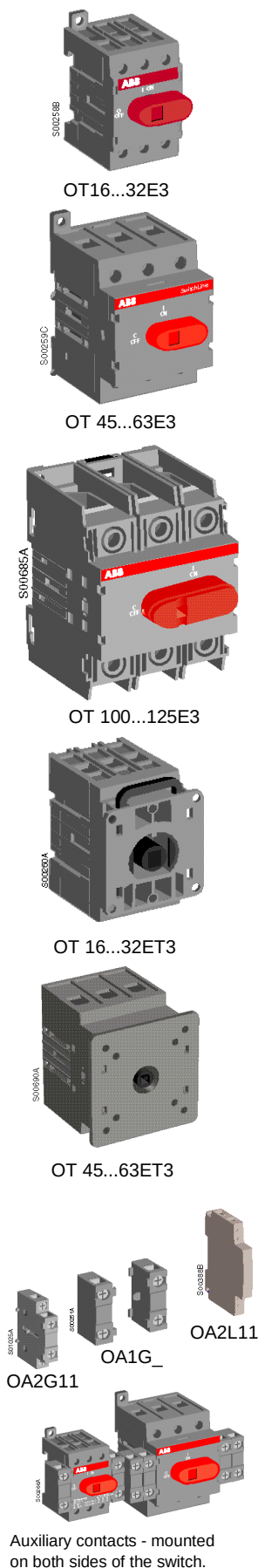
4) For base-mounted switches only. Max. 4NO + 4NC.
Remark: In OT80E4 not mountable on the same side with the fourth pole.

5) Minimum stranded wire 2.5 mm^2

6) Provided with gold plated contacts

7) For OT 45...63 available in the beginning of the year 1999.

(83) (43) (53) 13 $\begin{matrix} \diagup 21 (61) (31) (71) \\ \diagdown 22 (62) (32) (72) \end{matrix}$
(84) (44) (54) 14



SwitchLine

Ordering Information

OT 16...125, Accessories

Fourth poles

For OT 16...32: dovetail mounting.
For OT 45E, 63E, 80E, 100E, 125E: snap-on mounting.

Type	Suitable for switches	Weight/ one pc [kg]	Recommended order quantity [pcs]	Ordering number
------	-----------------------	---------------------	----------------------------------	-----------------

Simultaneous function with the main contacts

OTPS 32EP	OT 16...32E3	0.03	10	1SCA022348R2480
OTPS 63EP	OT 45...63E3	0.06	10	1SCA022353R5350
OTPS 80EP	OT 80E3	0.08	10	1SCA022371R6220
OTPS 125EP	OT 100...125E3	0.14	10	1SCA022379R8010
OTPS 32ED	OT 16...32ET3	0.03	10	1SCA022353R5270
OTPS 63ED	OT 45...63ET3	0.06	10	1SCA022347R4110
OTPS 125ED ¹⁾	OT 100...125ET3	0.14	10	1SCA022379R7980

Late-break and early-make

OTPL 32EP	OT 16...32E3	0.03	10	1SCA022353R5430
OTPL 63EP	OT 45...63E3	0.06	10	1SCA022353R5600
OTPL 80EP	OT 80E3	0.08	10	1SCA022379R8610
OTPL 125EP	OT 100...125E3	0.14	10	1SCA022379R8790
OTPL 32ED	OT 16...32ET3	0.03	10	1SCA022353R5510
OTPL 63ED	OT 45...63ET3	0.06	10	1SCA022371R5680
OTPL 125ED ¹⁾	OT 100...125ET3	0.14	10	1SCA022379R8360

Neutral and earth terminals

For OT 16...32: dovetail mounting.
For OT 45E, 63E, 80E, 100E, 125E: snap-on mounting.

Fixed neutral

OTPN 32EP	OT 16...32E3	0.03	10	1SCA022353R5780
OTPN 63EP	OT 45...63E3	0.06	10	1SCA022353R5940
OTPN 80EP	OT 80E3	0.08	10	1SCA022379R8950
OTPN 125EP	OT 100...125E3	0.14	10	1SCA022379R9090
OTPN 32ED	OT 16...32ET3	0.03	10	1SCA022353R5860
OTPN 63ED	OT 45...63ET3	0.06	10	1SCA022371R5760
OTPN 125ED ¹⁾	OT 100...125ET3	0.14	10	1SCA022379R8870

Detachable neutral

OTPD 32EP	OT 16...32E3	0.03	10	1SCA022353R6080
OTPD 63EP	OT 45...63E3	0.06	10	1SCA022353R6240
OTPD 80EP	OT 80E3	0.08	10	1SCA022379R9250
OTPD 125EP	OT 100...125E3	0.14	10	1SCA022379R9170
OTPD 32ED	OT 16...32ET3	0.03	10	1SCA022353R6160
OTPD 63ED	OT 45...63ET3	0.06	10	1SCA022371R5840
OTPD 125ED ¹⁾	OT 100...125ET3	0.14	10	1SCA022379R9500

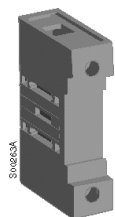
Protective earth

OTPE 32EP	OT 16...32E3	0.03	10	1SCA022353R6320
OTPE 63EP	OT 45...63E3	0.06	10	1SCA022353R6590
OTPE 80EP	OT 80E	0.08	10	1SCA022379R9410
OTPE 125EP	OT 100...125E	0.14	10	1SCA022386R6620
OTPE 32ED	OT 16...32ET3	0.03	10	1SCA022353R6410
OTPE 63ED	OT 45...63ET3	0.06	10	1SCA022393R9100
OTPE 125ED ¹⁾	OT 100...125ET3	0.14	10	1SCA022379R9330

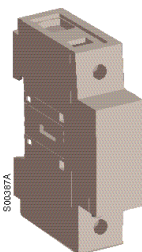
¹⁾ Available in autumn 1999



OTP_ 32_



OTP_ 63_



OTP_ 80_

7(N) L4
8(N) T4

N
N

N
N

N
N

PE
PE

SwitchLine

Ordering Information

OT 16...125, OETL 125D, Accessories

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

Type	Description	Package [pcs]	Recomm. order Qty	Ordering number
OHB 1	Black	1	150	1SCA022366R1900

IP 54 handles, suitable for OT16...80E, OETL125D

OHB 1AH	Black	1	150	1SCA022347R3810
OHY 1AH	Yellow-red	1		1SCA022347R3900
OHS 1AH	Silver	1		1SCA022353R2090
OHG 1AH	Grey	1		1SCA022353R2330

IP 54 handles, door interlock in ON-position, suitable for OT16...80E, OETL125D

OHB 1AH1	Black	1	150	1SCA022364R6340
OHY 1AH1	Yellow-red	1		1SCA022364R6420
OHS 1AH1	Silver	1		1SCA022364R6510
OHG 1AH1	Grey	1		1SCA022364R6690

IP 54 handles, padlockable with one padlock with bail diameter 5...6.3 mm, suitable for OT16...125E, OETL125D

OHB 3AH	Black	1	150	1SCA022428R8960
OHY 3AH	Yellow-red	1		1SCA022428R9180
OHS 3AH	Silver	1		1SCA022398R6010
OHG 3AH	Grey	1		1SCA022428R9690

IP 54 handles, padlockable with one padlock with bail diameter 5...6.3 mm, door interlock in ON-position, suitable for OT16...125E, OETL125D

OHB 3AH1	Black	1	150	1SCA022428R9000
OHY 3AH1	Yellow-red	1		1SCA022400R3710
OHS 3AH1	Silver	1		1SCA022400R3630
OHG 3AH1	Grey	1		1SCA022428R9770

IP 65 handles, padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, defeatable, suitable for OT16...125E, OETL125D

OHB 2AJ	Black	1	120	1SCA022347R4030
OHY 2AJ	Yellow-red	1		1SCA022353R2840
OHS 2AJ	Silver	1		1SCA022353R3140
OHG 2AJ	Grey	1		1SCA022353R3490

IP 65 handles, padlockable with max. 3 padlocks with bail diameter 5...8 mm, door interlock in ON-position, suitable for OT16...125E, OETL125D

OHB 2AJ1	Black	1	120	1SCA022358R5110
OHY 2AJ1	Yellow-red	1		1SCA022358R5290
OHS 2AJ1	Silver	1		1SCA022359R0110
OHG 2AJ1	Grey	1		1SCA022359R0020

Pistol type handles, IP 65, shaft diameter 5 mm

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, in OHG_ types : I-O, suitable for OT16...125E.

Handle length 45 mm

OHB 45J5	Black	1	100	1SCA022380R8180
OHY 45J5	Yellow-red	1		1SCA022380R8340
OHG 45J5	Grey	1		1SCA022380R8260

Handle length 65 mm

OHB 65J5	Black	1	100	1SCA022380R9070
OHY 65J5	Yellow-red	1		1SCA022380R9230
OHG 65J5	Grey	1		1SCA022380R9150

Extended shafts ¹⁾

For selector type handles

Type	Shaft length [mm]	Diameter [mm]	Recommended order quantity [pcs]	Ordering number
OXS5x85	85	5	10	1SCA022347R3570
OXS5x105	105	5	10	1SCA022347R3650
OXS5x120	120	5	10	1SCA022347R3730
OXS5x130	130	5	10	1SCA022353R4540
OXS5x160	160	5	10	1SCA022389R0170
OXS5x180	180	5	10	1SCA022353R4620
OXS5x250	250	5	10	1SCA022376R6670
OXS5x330	330	5	10	1SCA022353R4710

For pistol type handles

EXP5x150	150	5	10	1SCA022376R7300
EXP5x170	170	5	10	1SCA022376R7480
EXP5x265	265	5	10	1SCA022376R7560
EXP5x400	400	5	10	1SCA022376R7640

Twisted shafts for pistol type handles

The shaft position is rotated 45 degrees.

EXP5x150-45	150	5	10	1SCA022474R1970
EXP5x170-45	170	5	10	1SCA022474R2270
EXP5x265-45	265	5	10	1SCA022474R2010
EXP5x400-45	400	5	10	1SCA022474R2190

¹⁾ Shaft extension sockets, see page 22. ²⁾ Door interlock bracket, see page 31.



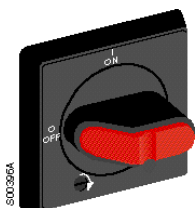
OHB 1



OH_1_



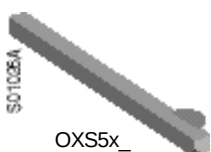
OH_3_



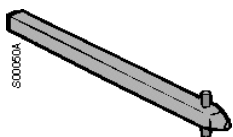
OH_2_



OH_



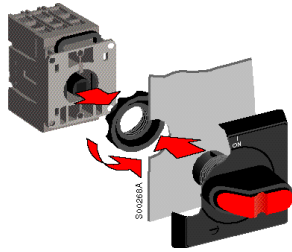
OXS5x_



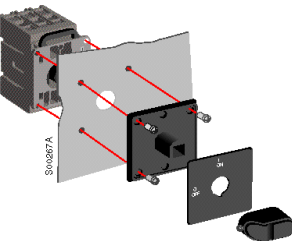
SwitchLine

Ordering Information

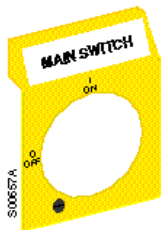
OT 16...125, Accessories



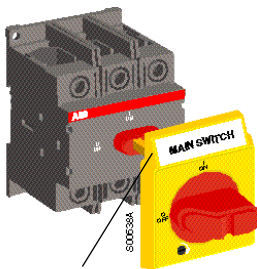
OH_2PJ



OH_1RH



OP_



OP__EN1

Handles for door mounted switches

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

Type	Description	Package [pcs]	Recomm. order Qty	Ordering number
------	-------------	---------------	-------------------	-----------------

IP 54 handles, snap-on mounting, door drilling 22,5 mm.

No padlocking, suitable for OT16...32ET

OHB 1PH	Black	1	150	1SCA022353R1610
OHY 1PH	Yellow-red	1		1SCA022353R1870
OHS 1PH	Silver	1		1SCA022353R2170
OHG 1PH	Grey	1		1SCA022353R2410

Padlockable with one padlock, suitable for OT16...32ET

OHB 3PH	Black	1	150	1SCA022428R9260
OHY 3PH	Yellow-red	1		1SCA022400R3120
OHS 3PH	Silver	1		1SCA022400R4100
OHG 3PH	Grey	1		1SCA022428R9510

Padlockable with max. 3 padlocks, suitable for OT16...32ET

OHB 2PJ	Black, IP 65, padlockable	1	120	1SCA022353R2680
OHY 2PJ	Yellow-red, IP 65, padlockable	1		1SCA022353R2920
OHS 2PJ	Silver, IP 65, padlockable	1		1SCA022353R3220
OHG 2PJ	Grey, IP 65, padlockable	1		1SCA022353R3650

IP 54 handles, screw mounting, hole distance 36 mm.

No padlocking, suitable for OT16...63E

OHB 1RH	Black	1	150	1SCA022353R1790
OHY 1RH	Yellow-red	1		1SCA022353R1950
OHS 1RH	Silver	1		1SCA022353R2250
OHG 1RH	Grey	1		1SCA022353R2500

Padlockable with one padlock, suitable for OT16...63ET

OHB 3RH	Black	1	150	1SCA022428R9340
OHY 3RH	Yellow-red	1		1SCA022400R3550
OHS 3RH	Silver	1		1SCA022400R3390
OHG 3RH	Grey	1		1SCA022428R9420

IP 65 handles, screw mounting, hole distance both 36 mm and 48 mm.

Padlockable with max. 3 padlocks, suitable for OT16...125ET

OHB 2RJ	Black	1	120	1SCA022353R2760
OHY 2RJ	Yellow-red	1		1SCA022353R3060
OHS 2RJ	Silver	1		1SCA022353R3310
OHG 2RJ	Grey	1		1SCA022353R3570

Legend plates for handles

Also plain plates available for self-made stickers.

Type	Description	Package [pcs]	Ordering number
------	-------------	---------------	-----------------

Plain plates for OH 1_ and OH 3_ handles.

OPB 1	Black	1	1SCA022353R3730
OPY 1	Yellow	1	1SCA022353R3810
OPS 1	Silver	1	1SCA022353R4030
OPG 1	Grey	1	1SCA022353R3900

Plain plates for OH 2_ handles.

OPB 2	Black	1	1SCA022353R4110
OPY 2	Yellow	1	1SCA022353R4200
OPS 2	Silver	1	1SCA022353R4460
OPG 2	Grey	1	1SCA022353R4380

Stamped plates for OH 1_ and OH3_ handles. Text: MAIN SWITCH.

OPB 1EN1	Black	1	1SCA022487R4180
OPY 1EN1	Yellow	1	1SCA022485R2880
OPS 1EN1	Silver	1	1SCA022500R5110
OPG 1EN1	Grey	1	1SCA022504R1770

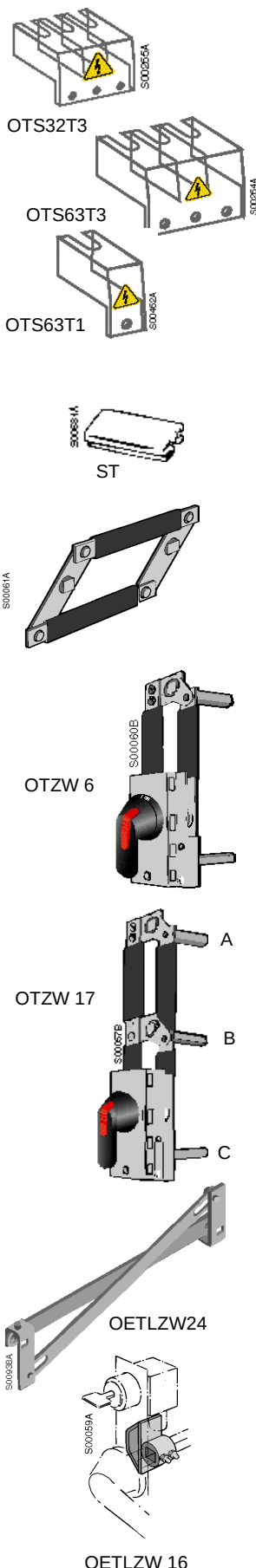
Stamped plates for OH 2_ handles. Text: MAIN SWITCH.

OPB 2EN1	Black	1	1SCA022400R2070
OPY 2EN1	Yellow	1	1SCA022400R2740
OPS 2EN1	Silver	1	1SCA022400R2230
OPG 2EN1	Grey	1	1SCA022400R2310

SwitchLine

Ordering Information

OT 16...125, OETL 125D, Accessories



Terminal shrouds

Snap-on mounting to the switch, transparent.

Type	Suitable for switches	Weight/ one pc [kg]	Recommended order quantity [pcs]	Ordering number
------	-----------------------	---------------------	----------------------------------	-----------------

For 3-pole switches

OTS 32T3	OT 16...32E3, -ET3	0.01	10	1SCA022353R6670
OTS 63T3	OT 45...63E3, -ET3	0.01	10	1SCA022353R6750
OTS 80T3	OT 80E3	0.01	10	1SCA022424R3430
OTS 125T3	OT 100...125E3, -ET3	0.01	10	1SCA022379R9680
OTS 125T3P	OT100...125E3 with terminal clamps OZXL1 or OZXT1, see page 30.	0.01	10	1SCA022491R9890

For fourth and additional pole

OTS 32T1	OTP_ 32E_	0.01	10	1SCA022353R6830
OTS 63T1	OTP_ 63E_	0.01	10	1SCA022353R6910
OTS 80T1	OTP_ 80EP_	0.01	10	1SCA022424R3510
OTS 125T1	OTP_ 125E	0.01	10	1SCA022379R9760
OTS 125T1P	OT100...125E3 with terminal clamps OZXL1/1 or OZXT1, see page 30.	0.01	10	1SCA022491R9970

Terminal clamps, see page 30.

Labelling accessories

Type	Suitable for switches	Description	Package [pcs]	Ordering number
ST	OT45E, OT63E OT80E	Label carrier, snap-on fixing	10	1SCA022407R8210
ST-E	OT100E, OT125E	Description label	250	1SCA022407R8300

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.

Type	Suitable for switches	Shaft distance [mm]	Package [pcs]	Ordering number
------	-----------------------	---------------------	---------------	-----------------

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, see page 14.

OETLZW 8	OT 16...125E OETL 125D	60 + (0...11) x 15	1	1SCA022061R3210
----------	---------------------------	--------------------	---	-----------------

Change-over switch

Handle OHB80J6E011 (IP65, indication I - O - II) and shafts included.

OTZW 6	OT 16...125E OETL 125D	90 + (0...10) x 15	1	1SCA022387R1890
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By-pass switch

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

OTZW 17	OT 16...125E OETL 125D	between A and B 90 + (0...6) x 15 between A and C 90 + (0...10) x 15	1	1SCA022387R1620
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¹⁾ Suitable handle OH_65J5_ or OH_45J5

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.

Type	Shaft distance [mm]	Package [pcs]	Ordering number
OETLZW24	100	1	1SCA022193R8560

Dimension drawings on page 52...53.

Locking accessories

Type	For switch sizes	Description	Package [pcs]	Ordering number
OETLZW 16	OT16...125E, OETL 125D	Cam attachment for Castell, Lowe & Fletcher and Ronis interlock Cam attachment for adopting the switches to the interlock system. The interlock is not included.	1	1SCA022093R2070

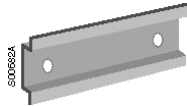
SwitchLine

Ordering Information

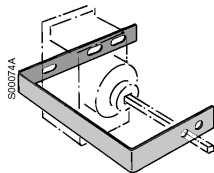
OT 16...125, OETL125D, Accessories



SA 1



DSW 3, DSW 4



OETLZX 58

Padlocking adapter

For a padlock with a max. 3.5 mm bail.

Type	Suitable for switches[kg]	Weight	Package [pcs]	Ordering number
SA 1	OT45...125E	0.01	1	1SCA022401R8230

Mounting rails

Type	Suitable for switches	Recommended quantity [pcs]	Ordering number
DSW 3	OT80E3	10	1SCA022460R7570
DSW 4	OT80E4	10	1SCA022460R7650

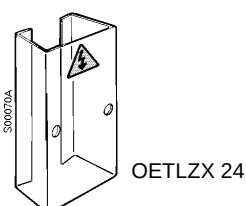
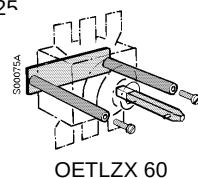
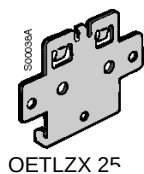
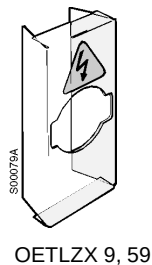
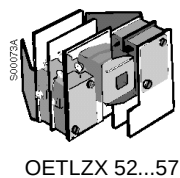
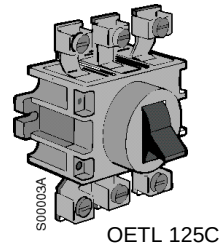
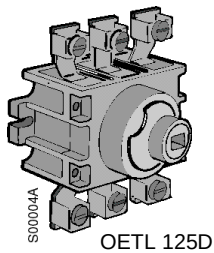
Mounting accessories

Type	Suitable for switches	Description	Package [pcs]	Ordering number
OETLZX 58	OT16...125E, OETL125D	Shaft support for long shafts	1 1	1SCA022068R8220

SwitchLine

Ordering Information

OETL 125D and OETL 125C, Accessories



Rotary type switch OETL 125D

Includes terminal clamps. Handle and shaft has to be ordered separately, see page 14.

Type	Number of poles	I_{th} (open) [A]	Cable cross section [mm ²]	Operational currents AC22/AC23 400 V [A/A]	Weight/one pc [kg]	Recommended order q. [pcs]	Ordering number
OETL 125D1	3	125	10...70	125 / 75	0.45	5	1SCA022059R1900
OETL 125D4	4	125	10...70	125 / 75	0.63	5	1SCA022059R4910

Toggle action switch OETL 125C

Includes terminal clamps.

Type	Number of poles	I_{th} (open) [A]	Cable cross section [mm ²]	Operational currents AC22/AC23 400 V [A/A]	Weight/one pc [kg]	Recommended order q. [pcs]	Ordering number
OETL 125C1	3	125	10...70	125 / 75	0.45	5	1SCA022010R7600

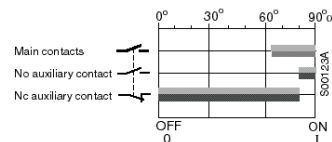
Auxiliary contacts

Protection degree IP 10.

Type	Description	Suitable for switches	Weight/one pc [kg]	Package [pcs]	Ordering number
OETLZX 52	1 (NO-NC) ¹⁾	OETL125, 3-pole		1	1SCA022060R8210
OETLZX 55		OETL125, 4-pole		1	1SCA022060R8560
OETLZX 53	2 (NO-NC) ¹⁾	OETL125, 3-pole		1	1SCA022060R8300
OETLZX 56		OETL125, 4-pole		1	1SCA022060R8640
OETLZX 54	4 (NO-NC) ¹⁾	OETL125, 3-pole		1	1SCA022060R8480
OETLZX 57		OETL125, 4-pole		1	1SCA022060R8720

¹⁾ Change-over contacts

ON and OFF functions of OETLZX 52 - OETLZX 57:



Terminal shrouds

Snap-on mounting to the switch, transparent.

Type	Suitable for switches	Weight/one pc [kg]	Package [pcs]	Ordering number
OETLZX 9	OETL 125D,C, 3-pole	0.01	1	1SCA022043R2930
OETLZX 59	OETL 125D,C, 4-pole	0.01	1	1SCA022060R9880

Terminal clamps, see page 30.

Mounting accessories

Type	Suitable for switches	Description	Package [pcs]	Ordering number
OETLZX 25	OETL 125D1 OETL 125C1	DIN-rail mounting kit for 3-pole switches	1	1SCA022054R4490
OETLZX 60 OETLZX 24	OETL 125D1 —	Front door mounting kit Protection cover for OETLZX60	1 1	1SCA022061R0030 1SCA022052R6910

Remark: Other accessories, see pages 14, 16 and 17.



SwitchLine

Switch-Disconnectors / Load Break Switches OT 125A and 160

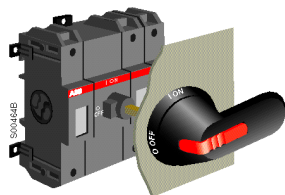
Contents:

• Ordering information OT 125A and 160	20 - 22
Switch-Disconnectors	
• Front operated switch-disconnectors	20
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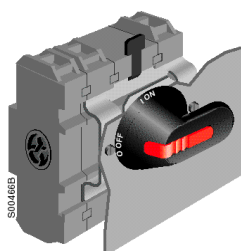
SwitchLine

Ordering Information

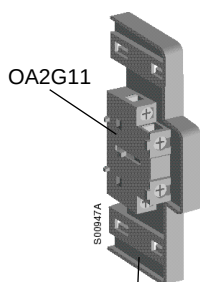
OT 125A and 160



OT 125A3
OT 160E3

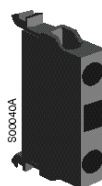


OT 160ET3

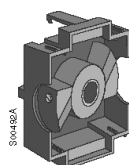


OA2G11

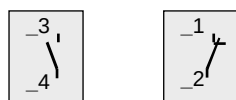
OAZX1



OBEA 10
OBEA 01



OEZNP 1



Configuration labels:
OBEAZX 10 OBEAZX 01

Front operated switch-disconnectors

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

Type	Number of poles	I_{th} (open) [A]	Rated operational currents AC22A / AC23A £400V	Weight [A/A] [kg]	Pack- age [pcs]	Include handle and shaft	Ordering number
OT 125A3	3	135	125/ 105	1.0	1	x	1SCA022275R2750
OT 125A4	4	135		1.3	1	x	1SCA022275R2910
OT 125A3-2	3	135		1.0	1	—	1SCA022317R3850
OT 160E3	3	200	160 ¹⁾ / 135	1.0	1	x	1SCA022257R5950
OT 160E4	4	200		1.3	1	x	1SCA022259R8060
OT 160E3-2	3	200		1.0	1	—	1SCA022297R4060

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 22.

OT 160ET3	3	200	160 ¹⁾ / 135	1.0	1	x	1SCA022350R1960
OT 160ET4	4	200		1.3	1	x	1SCA022460R6920

¹⁾ 380...415 V, AC 21-22B: 200 A for OT160 when provided with busbar connections OEZXX 6 or 13.

Auxiliary contact blocks and accessories

Adapter for auxiliary contact blocks OA2G11

See page 12, aux.contact blocks have to be ordered separately. Mountable on the side of the switch.

Type	Suitable for switches	Package [pcs]	Ordering number
OAZX1 ⁴⁾	OT 125A, OT 160E, OT 160ET	1	1SCA022467R5140

Auxiliary contact blocks

Mountable on top of the switch. Wire cross section 0.5 mm²...2 x 2.5 mm². Insulation voltage U_i 690 V. Thermal current I_{th} = 10 A. Mounting on the adapter OEZNP1 (has to be ordered separately, see below), max. 6 aux. blocks.

Type ¹⁾	Performance data ²⁾	Protection degree	Recommended order quantity [pcs]	Ordering number
OBEA 10	13 120 V 125 V 240 V 250 V 400 V 415 V 440 V 480 V 500 V 600 V 690 V	IP 20	10	1SCA022190R3000
OBEA 10AU ³⁾	14 125 V 240 V 250 V 400 V 415 V 440 V 480 V 500 V 600 V 690 V			1SCA022185R3310
OBEA 01	21 120 V 125 V 240 V 250 V 400 V 415 V 440 V 480 V 500 V 600 V 690 V			1SCA022190R3260
OBEA 01AU ³⁾	22 120 V 125 V 240 V 250 V 400 V 415 V 440 V 480 V 500 V 600 V 690 V			1SCA022185R3730

¹⁾ Contact numbering according to EN 50013.

²⁾ According to IEC 947-5-1.

³⁾ Types AU are gold plated for extremely difficult circumstances, even at low voltages.

⁴⁾ Available on May 1999.

Adapter for auxiliary contact blocks OBEA__

Mountable on top of the switch.

Type	Number of poles	Suitable for switches	Package [pcs]	Ordering number
OEZNP 1	3 and 4	OT125A, OT160E	1	1SCA022259R7410

Numbering stickers for auxiliary contact blocks

Required if several blocks are used. Fill numbers by pen or typewrite.

OBEAZX 10	OBEA 10, 1 NO	10	1SCA022264R9910
OBEAZX 01	OBEA 01, 1 NC	10	1SCA022276R2470

Contact function charts, see page 54.

SwitchLine

Ordering Information

OT 125A and 160, Accessories



Fourth pole

Suitable for front operated and door mounted OT 125A_ and 160_ switches.

Type	Remarks	Weight [kg] / pc	Package [pcs]	Ordering number
OTZNA 1-160E4	Mountable on side of the 3-pole switches,	0.3	5	1SCA022271R8310
OTPS 160EP	OT 125A3 and OT 160E3, IP20	0.3	1	1SCA022325R7360

PE and N -clamps

Suitable for front operated and door mounted OT 125A_ and 160_ switches.

OTPE 160EP	Protected earth	0.3	1	1SCA022345R0010
OTPN 160EP	Neutral	0.3	1	1SCA022344R9510

Optional plastic handles

OH_ handles: IP 65, padlockable with 3 three padlocks in OFF-position, door interlock in ON-position (defeatable¹⁾ to allow authorized personnel access for inspection). Door drilling is shown on page 50. The shaft has to be ordered separately. **Screw fixing from back side of handle. No screws on front ensures double insulation.**

Type	Colour	Handle length [mm]	For shaft diameter [mm]	Suitable for switch sizes	Package [pcs]	Recomm. order Qty	Ordering number
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Handles for front operated switches. Indication: in types OHB_ and OHY_ : I-O/ON-OFF, in types OHG_ : I-O.

OHB 65J6	Black	65	6	OT 125A, OT 160E, ET	1	100	1SCA022380R9660
OHY 65J6	Yellow-red	65	6		1		1SCA022380R9820
OHG 65J6	Grey	65	6		1		1SCA022380R9740
OHB 80J6	Black	80	6		1	100	1SCA022381R0240
OHY 80J6	Yellow-red	80	6		1		1SCA022381R0410
OHG 80J6	Grey	80	6		1		1SCA022381R0320

Handles for combination switches, IP 65, Indication: I-O-II. Padlockable in OFF-position.

OHB80J6E011	Black	80	6	OT 125A and OT 160E with OESAZW 1	1	100	1SCA022399R8610
OHY80J6E011	Yellow-red	80	6		1		1SCA022427R5630
OHG80J6E011	Grey	80	6		1		1SCA022460R6840

See dimension drawings on page 50.

¹⁾ Door interlock bracket, see page 31.

Handles. Mounting directly to the switch, no shaft needed.

YAST 1	Black	72	(not needed)	OT 125A_, 160E_	1	100	1SCA022301R5350
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Also other handles for shaft diameter 6 mm can be used with OT 125A and 160_. OH_ handles padlockable in all positions available on request.

Handle support for direct mounting on the switch mechanism for OH_65, 80 handles

Type	Colour	Height from the bottom of switch	Package [pcs]	Recomm. order Qty	Ordering number
OHZX5	black	83 mm	1	10	1SCA022301R5350

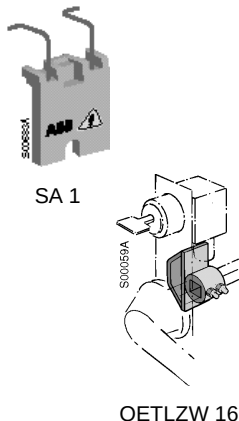
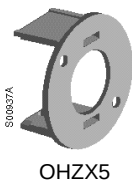
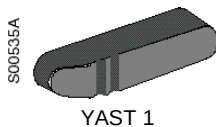
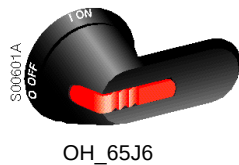
Padlocking adapter

For a padlock with a max. 3.5 mm bail. Padlockable in OFF-position.

Type	Suitable for switches	Package [pcs]	Ordering number
SA 1	OT 125A, 160E	1	1SCA022401R8230

Locking accessories

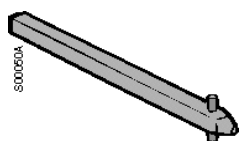
Type	For switch sizes	Description	Package [pcs]	Ordering number
OETLZW 16	OT125A, 160E	Cam attachment for Castell, Lowe & Fletcher and Ronis interlock Cam attachment for adopting the switches to the interlock system. The interlock is not included.	1	1SCA022093R2070



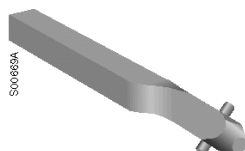
SwitchLine

Ordering Information

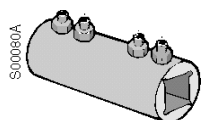
OT 125A and 160, Accessories



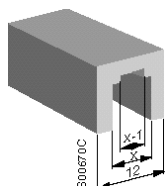
OXP6x_



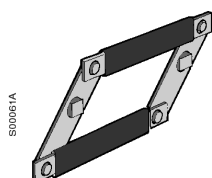
OXP6x_-45



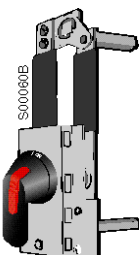
OETLZX 95,
OESAZX 167



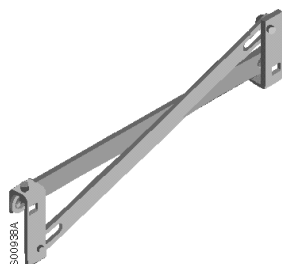
OETL ZK 19
(x = 6 mm)



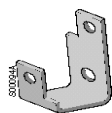
OESA ZW 2



OESA ZW 1



OTZW10



OZXE 21

Extended shafts

Shaft diameter 6 mm. Suitable for handles OH __ J6 __.

Type	Shaft length [mm]	H	Package [pcs]	Ordering number
OXP6x130	130	105 ... 135	1	1SCA022057R0570
OXP6x150	150	125 ... 155	1	1SCA022295R5600
OXP6x210	210	185 ... 215	1	1SCA022295R6080
OXP6x290	290	265 ... 295	1	1SCA022042R6370
OXP6x360	360	335 ... 365	1	1SCA022042R6530
OXP6x430	430	405 ... 435	1	1SCA022056R6030

Twisted shafts

Shaft diameter 6 mm. The shaft position is rotated 45 degrees.

OXP6x130-45	130	105 ... 135	1	1SCA022355R9110
OXP6x150-45	150	125 ... 155	1	1SCA022294R4400
OXP6x210-45	210	185 ... 215	1	1SCA022294R4230
OXP6x290-45	290	265 ... 295	1	1SCA022304R4290
OXP6x360-45	360	335 ... 365	1	1SCA022341R4640

Shaft extension socket

For extending the shaft of combination attachment.

Type	Suitable for shaft with diameter [mm]	Package [pcs]	Ordering number
OESA ZX 167	5...6	1	1SCA022190R1560
OETLZX95	12	1	1SCA022083R5620

Adapter for extension socket

Adapter can be placed inside of extension socket OETL ZX 95.

OETL ZK 19	5...6	1	1SCA022093R1850
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Conversion kits for the combination switches

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

Type	Shaft distance [mm]	Remark	Package [pcs]	Ordering number
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6- and 8-pole switches

OESA ZW 2	45 + (0...11)x15	Includes handle OHB145J12 with I-O, ON-OFF -indication and 2 shafts	1	1SCA022078R1600
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Change-over switches

OESA ZW 1	90 + (0...10)x15	Includes handle OHB80J6E011 with I-O-II -indication and 2 shafts	1	1SCA022064R3710
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Mechanical interlock

When mounted upside down, prevents one switch from opening to OFF-position, if the other is not in ON-position. Prevents one switch from closing to ON-position if the other is not in OFF-position. Suitable for switch OT125A3,4, OT160E3,4

Type	Shaft distance [mm]	Package [pcs]	Ordering number
OTZW10	190	1	1SCA022431R5280

See dimension drawings on pages 52 and 53.

Busbar connections

Terminal clamps for Cu- and Al-cables have to be ordered separately, see page 30.

Type	For switch sizes	For clamps	Package [pcs]	Ordering number
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Busbars for parallel connection

OZXE 21	OT 160 ¹⁾	2 x OZXB 2_	3	1SCA022161R8810
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Busbar spreader kit

OEZXX 6	OT 125A...160E	OZXB 2	3	1SCA022292R6330
OEZXX 13	OT 125A...160E	OZXB 2	4	1SCA022299R9720

¹⁾ OT 160 has to be provided with OEZXX 6 or with OEZXX 13.

Terminal clamps, see page 30.



SwitchLine

Switch-Disconnectors / Load Break Switches OETL 200...3150

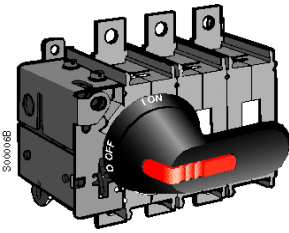
Contents:

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• Dimension drawings	42 - 49
• Contact functions	55

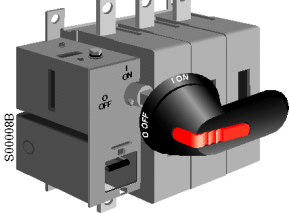
SwitchLine

Ordering Information

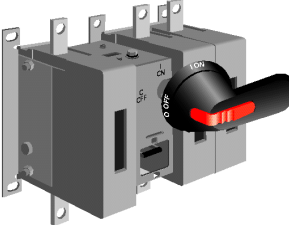
OETL 200...3150



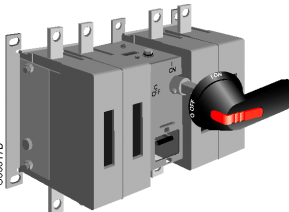
OETL 200K3 /
250K3 / 315K3



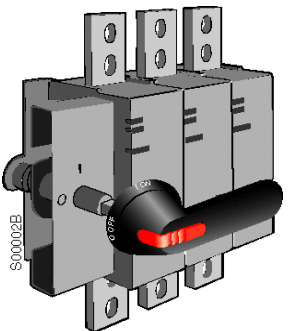
OETL 400D1 /
630K3 / 800K3



OETL 400KV12 /
630KV12 / 800KV12



OETL 400KV22 /
630KV22 / 800KV22



OETL 1000K3 /
1250K3 / 1600K3

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

Rated insulation voltage 1000 V. Includes terminal bolt kit*, see page 25.

Type	Number of poles	I_{th} (open) [A]	Rated operational currents AC21/AC23 [A/A] £400V	Weight [kg]	Pack- age [pcs]	Include handle and shaft	Ordering number
------	-----------------	---------------------	--	-------------	-----------------	--------------------------	-----------------

Switch OETL 200...315

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

OETL 200K3	3	250	200/ 200	3.0	1	x	1SCA022125R1920
OETL 200K4	4			3.7		x	1SCA022144R5610
OETL 200K3-2	3			2.9		—	1SCA022157R0010
OETL 200K3-H20 ¹⁾	3			3.0		x	1SCA022160R0870
OETL 200KV 12	3			3.0		x	1SCA022194R9920
OETL 200KV 22	4			3.7		x	1SCA022269R9330

OETL 250K3	3	315	250/ 250	3.0	1	x	1SCA022126R6280
OETL 250K4	4			3.7		x	1SCA022144R5880
OETL 250K3-2	3			2.9		—	1SCA022157R0860
OETL 250K3-H20 ¹⁾	3			3.0		x	1SCA022160R1090
OETL 250KV 12	3			3.0		x	1SCA022194R9250
OETL 250KV 22	4			3.7		x	1SCA022268R1210

OETL 315K3	3	350	315/ 315	3.0	1	x	1SCA022144R7740
OETL 315K4	4			3.7		x	1SCA022144R7910
OETL 315K3-2	3			2.9		—	1SCA022157R1080
OETL 315K3-H25 ¹⁾	3			3.0		x	1SCA022160R1250
OETL 315KV 12	3			3.0		x	1SCA022194R9410
OETL 315KV 22	4			3.7		x	1SCA022268R2010

Switch OETL 400...800

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

OETL 400D1	3	500	500/ 500	5.2	1	x	1SCA022058R0020
OETL 400D4	4			6.4		x	1SCA022058R0110
OETL 400D1-2	3			5.1		—	1SCA022157R1410
OETL 400D1-H20 ¹⁾	3			5.2		x	1SCA022160R1410
OETL 400KV 12	3			5.2		x	1SCA022180R6310
OETL 400KV 22	4			6.4		x	1SCA022193R7240

OETL 630K3	3	630	630/6.2 630/7.6	1	x	—	1SCA022078R8950
OETL 630K4	4			6.1		x	1SCA022078R9170
OETL 630K3-2	3			6.2		—	1SCA022157R1830
OETL 630K3-H20 ¹⁾	3			6.2		x	1SCA022160R1840
OETL 630KV 12	3			6.2		x	1SCA022172R4680
OETL 630KV 22	4			7.6		x	1SCA022180R7110

OETL 800K3	3	800	800/6.2 720/7.6	1	x	—	1SCA022098R0980
OETL 800K4	4			6.1		x	1SCA022098R1100
OETL 800K3-2	3			5.2		—	1SCA022157R2480
OETL 800K3-H20 ¹⁾	3			5.2		x	1SCA022161R4070
OETL 800KV 12	3			5.2		x	1SCA022172R4840
OETL 800KV 22	4			6.4		x	1SCA022180R6900

Switch OETL 1000...1600

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

OETL 1000K3	3	1000	1000/ 800	16.3	1	x	1SCA022117R8660
OETL 1000K140 ²⁾	3			17.6		x	1SCA022143R1310
OETL 1000K185 ²⁾	3			17.6		x	1SCA022143R1580
OETL 1000K200 ²⁾	3			17.6		x	1SCA022143R1740
OETL 1000K4	4			20.5		x	1SCA022117R8820
OETL 1000K3-2	3	1250	1250/ 800	16.2	1	—	1SCA022157R2810
OETL 1000K3-H20 ¹⁾	3			16.3		x	1SCA022317R1480
OETL 1000KV 12	3			16.3		x	1SCA022290R6310
OETL 1000KV 22	4			20.5		x	1SCA022290R6570
OETL 1250K3	3			16.3		x	1SCA022097R3510
OETL 1250K140 ²⁾	3	1600	1600/ 800/	17.6	1	x	1SCA022143R1910
OETL 1250K185 ²⁾	3			17.6		x	1SCA022143R2120
OETL 1250K200 ²⁾	3			17.6		x	1SCA022143R2390
OETL 1250K4	4			20.5		x	1SCA022097R3770
OETL 1250K3-2	3			16.2		—	1SCA022157R3020
OETL 1250K3-H20 ¹⁾	3	1600	1600/ 800/	16.3	1	x	1SCA022234R3310
OETL 1250KV 12	3			16.3		x	1SCA022268R2870
OETL 1250KV 22	4			20.5		x	1SCA022269R6910
OETL 1600K3	3			17.5	1	x	1SCA022097R3930
OETL 1600K140 ²⁾	3			17.6		x	1SCA022097R4310
OETL 1600K185 ²⁾	3			17.6		x	1SCA022097R4580
OETL 1600K200 ²⁾	3			17.6		x	1SCA022096R8850
OETL 1600K4	4			22.5		x	1SCA022097R4150
OETL 1600K3-2	3	1600	1600/ 800/	17.4	1	—	1SCA022157R3290
OETL 1600K3-H20 ¹⁾	3			17.5		x	1SCA022264R2220
OETL 1600KV 12	3			17.5		x	1SCA022189R1400
OETL 1600KV 22	4			22.5		x	1SCA022290R6730

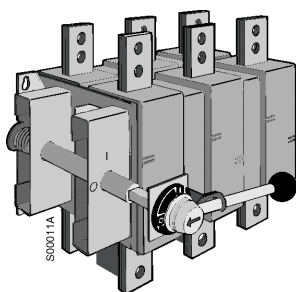
¹⁾ Extra thick (20 mm) silver coating on the contacts.

²⁾ With extended phase distances:
- OETL 1000...1600K140: 140 mm
- OETL 1000...1600K185: 185 mm
- OETL 1000...1600K200: 200 mm

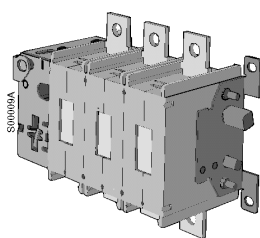
SwitchLine

Ordering Information

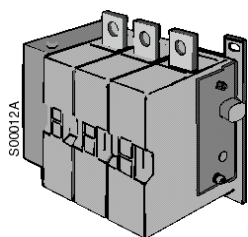
OETL 200...3150



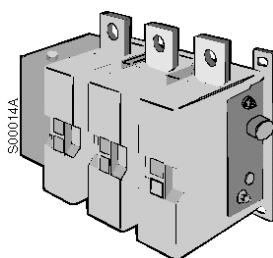
OETL 2500K185 / 3150K185



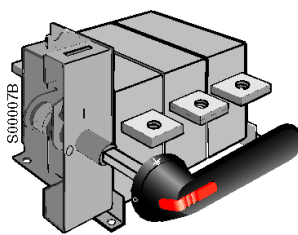
OETL 200KM3 / 250KM3 / 315KM3



OETL 400DM1



OETL 630KM3 / 800KM3



OETL1250M3

Rotary type switches, 2500 ... 3150 A

Rated insulation voltage 1000 V. Includes terminal bolt kit^{*)}.

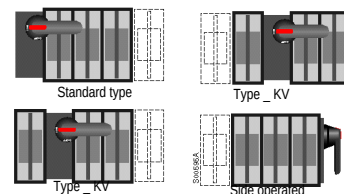
Type	Number of poles	I _{th} (open) [A]	Rated operational currents AC21/AC22 [A/A] £415V	Weight [kg]	Pack-age [pcs]	Include handle and shaft	Ordering number
Switch OETL 2500...3150							
Black IP54 metallic handle YASDA 7 with 1-0 -indication and shaft OXP12x325, length 325 mm included.							
OETL 2500K3 ³⁾	3	2500	2500/ 1600	37	1	X	1SCA022108R7780
OETL 2500K185 ²⁾³⁾	3			37		X	1SCA022123R9710
OETL 2500K4 ³⁾	4			47		X	1SCA022115R6180
OETL 2500K3-2 ³⁾	3			36.8		—	1SCA022157R4000
OETL 2500K3-H20 ¹⁾³⁾	3			37		X	1SCA022317R2290
OETL 2500KV12	3			37		X	1SCA022290R6900
OETL 2500KV22	4			47		X	1SCA022290R7110
OETL 3150K3 ³⁾	3	3150	3150/ 1600	37	1	X	1SCA022115R6340
OETL 3150K185 ²⁾³⁾	3			37.5		X	1SCA022136R7550
OETL 3150K4 ³⁾	4			47		X	1SCA022115R6510
OETL 3150K3-2 ³⁾	3			36.8		—	1SCA022157R4260
OETL 3150K3-H20 ¹⁾³⁾	3			37		X	1SCA022163R8090
OETL 3150KV12	3			37		X	1SCA022290R3390
OETL 3150KV22	4			47		X	1SCA022293R8260

¹⁾ Extra thick (20mm) silver coating on the contacts.

²⁾ With extended phase distances:

— OETL 2500K185 / 3150K185: 185 mm

³⁾ The busbar connections for different busbar arrangements have to be ordered separately, see busbar connections page 31.



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

Rated insulation voltage 1000 V. Includes terminal bolt kit^{*)}. 400...800 A include phase barriers OETLZN 17. The handle and shaft have to be ordered separately, see pages 27 - 28.

OETL 200KM3-2	3	250	200/ 200	3.0	1	—	1SCA022144R9100
OETL 200KM4-2	4			3.7			1SCA022144R9360
OETL 250KM3-2	3	315	250/ 250	3.0	1	—	1SCA022160R0790
OETL 250KM4-2	4			3.7			1SCA022160R0950
OETL 315KM3-2	3	350	315/ 315	3.0	1	—	1SCA022144R8120
OETL 315KM4-2	4			3.7			1SCA022144R8390
OETL 400DM1-2	3	500	500/ 500	5.2	1	—	1SCA022066R5950
OETL 400DM4-2	4			6.3			1SCA022071R7420
OETL 630KM3-2	3	630	630/ 630	6.2	1	—	1SCA022082R5150
OETL 630KM4-2	4			7.6			1SCA022082R5310
OETL 800KM3-2	3	800	800/ 720	7.3	1	—	1SCA022102R7290
OETL 800KM4-2	4			9.2			1SCA022102R7450

Earthing switches, 1250 A

Include terminal bolt kit^{*)}. Black IP65 handle OHB145J12E421 with $\perp$ - O -indication, padlockable in both positions, door interlock in O-position and shaft OXP12x185, length 185 mm.

Type	Number of poles	Short circuit making capacity [kA]	Short time withstand current / 1s [kA]	Weight [kg]	Pack-age [pcs]	Include handle and shaft	Ordering number
OETL 1250M3	3	110	50 / 0.4 s 50 / 0.5 s ²⁾	16	1	X	1SCA022102R1410
OETL 1250M4	4			20.5	1	X	1SCA022189R0930
OETL 1250M140 ¹⁾	3	110	50	20.6	1	X	1SCA022126R6950
OETL 1250M4-140 ¹⁾	4			25.1	1	X	1SCA022290R5680

¹⁾ Phase distance 140 mm. ²⁾ Max. distance between busbar support and switch terminal 70 mm.

^{*)} 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.

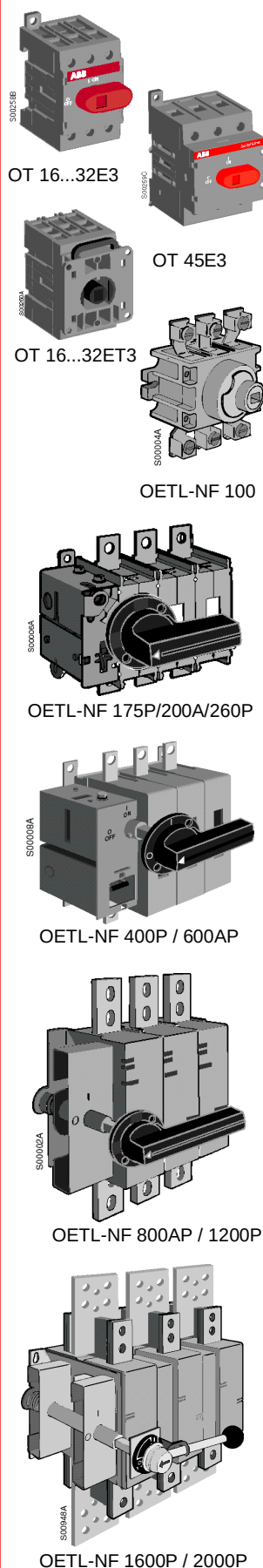
In types OETL____-2 the handle and shaft have to be ordered separately, see 'Optional handles', page 27 and 'Extended shafts', page 28.

"Package" indicates the number of items included in the type code.

SwitchLine

Ordering Information

OT 16...45, OETL-NF 100...2000P



Non-fusible disconnect switches for North-American market

- 3 pole switches, 4 pole switches only OT_E4 and OT_ET4 -types

Type	Ampere rating [A]	Horsepower rating 3-phase [HP]					Includes	Weight [kg]	Recomm. order q. [pcs]	Ordering number
		200V	208V	240V	480V	600V				
OT 16E3 OT 16E4 OT 16ET3	16	2	2	2	7.5	7.5	- protected terminal clamps - E-type: position indicator	0.11 0.13	10 10	1SCA022283R8470 1SCA022352R7170 1SCA022352R6610
OT 25E3 OT 25E4 OT 25ET3 OT 25ET4	25	3	3	3	7.5	7.5	- protected terminal clamps - E-type: position indicator	0.11 0.13	10 10	1SCA022283R8630 1SCA022352R7330 1SCA022352R6790 1SCA022352R7410
OT 32E3 OT 32E4 OT 32ET3 OT 32ET4	30	5	5	5	10	15	- protected terminal clamps - E-type: position indicator	0.11 0.13	10 10	1SCA022283R9010 1SCA022352R7500 1SCA022352R6870 1SCA022347R3490
OT 45E3 OT 45E4 OT 45ET3 OT 45ET4	40	10	10	10	20	20	- protected terminal clamps - E-type: position indicator	0.24 0.30	10 10	1SCA022352R6950 1SCA022352R7680 1SCA022353R7050 1SCA022371R5500
OT 63E3 OT 63E4 OT 63ET3 OT 63ET4	60	10	10	10	20	20	- protected terminal clamps - E-type: position indicator	0.24 0.30	10 10	1SCA022352R7090 1SCA022352R7760 1SCA022353R7130 1SCA022371R6490
OT 100E3 OT 100E4	80	20	20	20	40	40	- protected terminal clamps	0.36 0.50	10 10	1SCA022398R4400 1SCA022398R4580
OT 125E3 OT 125E4	100	20	20	20	40	40	- protected terminal clamps	0.36 0.50	10 10	1SCA022353R7480 1SCA022373R1880
OETL-NF 100ABB OETL-NF 100PABB OETL-NF 100SABB OETL-NF 100TABB	100	20	20	25	50	60	100: no handle -P: pistol grip handle -S: selector type handle -T: toggle switch handle	0.50 0.75 0.65 0.50	5 1 1 1	1SCA022157R3370 1SCA022281R9250 1SCA022281R9090 1SCA022157R3530
OETL-NF175PABB	175	30	30	40	75	100	- handle: OHB80J8 - shaft: OXP8x240 - terminal bolt sets	3.0	1	1SCA022281R9410
OETL-NF200APABB	200	60	60	75	150	200		3.0	1	1SCA022281R9680
OETL-NF260PABB	260	30	30	40	75	100		3.0	1	1SCA022504R1850
OETL-NF400PABB	400	100	100	125	250	300	- handle: OHB145J12 - shaft: OXP12x166 - terminal bolt sets	6.4	1	1SCA022281R9840
OETL-NF600APABB	600	150	150	200	400	500	- handle: OHB145J12 - shaft: OXP12x280 - terminal bolt sets	6.5	1	1SCA022282R0000
OETL-NF800APABB	800	200	200	250	500	600	- handle: OHB145J12 - shaft: OXP12x280 - terminal bolt sets	16.3	1	1SCA022282R0260
OETL-NF1200P ABB	1200	-	-	-	-	-		17.5	1	1SCA022282R0420
OETL-NF1600PABB	1600	-	-	-	-	-	- handle YASDA 8 - shaft OXP12x325 - terminal bolt sets	65	1	1SCA022282R0690
OETL-NF2000PABB	2000 ¹⁾	-	-	-	-	-	- handle YASDA 8 - shaft OXP12x325 - terminal bolt sets	65	1	1SCA022282R0850

Types OT_E3 are base and DIN-rail mounting disconnect switches.
Types OT_ET3 are door mounting disconnect switches.

Dimension drawings are available on page 36-49.

Approvals:

OT 16...63:
UL 508
CSA 22-2 # 14
OETL-NF 175 and 260:
UL 508
CSA 22-2 # 14

OT100...160,
OETL-NF 200 and
OETL-NF400...2000:
UL 98
CSA 22-2 # 4



¹⁾ 480 VAC max.

SwitchLine

Ordering Information

OETL 200...3150, Accessories

Optional handles, front operated

Type	Colour	Handle length [mm]	For shaft diameter [mm]	Suitable for switch sizes	Package [pcs]	Recomm. order Qty	Ordering number
Plastic handles, IP 65, 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 (defeatable²⁾), door drilling is shown on page 50. The shaft has to be ordered separately.							
OHB 65J8 OHY 65J8 OHG 65J8	Black Yellow-red Grey	65	8	OETL 200...315	1	100	1SCA022380R9910 1SCA022381R0160 1SCA022381R0080
OHB 80J8 OHY 80J8 OHG 80J8	Black Yellow-red Grey	80	8	OETL 200...315	1	100	1SCA022381R0590 1SCA022381R0750 1SCA022381R0670
OHB 125J12 OHY 125J12 OHG 125J12	Black Yellow-red Grey	125	12	OETL 400...800	1	90	1SCA022381R1560 1SCA022381R1720 1SCA022381R1640
OHB 145J12 OHY 145J12 OHG 145J12	Black Yellow-red Grey	145	12	OETL 400...1600	1	90	1SCA022381R2110 1SCA022381R2370 1SCA022381R2290
OHB 175J12 OHY 175J12 OHG 175J12	Black Yellow-red Grey	175	12	OETL 400...1600	1	90	1SCA022381R2450 1SCA022381R2700 1SCA022381R2610
OHB 275J12 OHY 275J12 OHG 275J12	Black Yellow-red Grey	275	12	OETL 400...3150	1		1SCA022381R2960 1SCA022381R3180 1SCA022381R3000

Metallic handles, IP65, padlockable with 3 padlocks in OFF- position, door interlock in ON- position, door drilling is shown on page 50.

YASDA 24	Black 1-0	145	12	OETL 400...1600	1		1SCA022224R0510
YASDA 7 YASDA 8	Black 1-0 Black ON-OFF	220	12	OETL 400...3150	1		1SCA022071R3010 1SCA022071R3270

Metallic handles, IP44, padlockable with 3 padlocks in OFF- position, door interlock in I- and II- position, door drilling is shown on page 50.

YASDA 21 YASDA 6	Black I-O-II Black I-O-II	220 320	12	OETL 400...3150	1		1SCA022098R9420 1SCA022071R2890
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Optional handles, side operated

Plastic handles, IP 65. 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 (defeatable²⁾), door drilling is shown on page 50. The shaft has to be ordered separately.

OHB 80J8E00S OHY 80J8E00S OHG 80J8E00S	Black Yellow-red Grey	80	8	OETL 200...315 ¹⁾	1		1SCA022381R9710 1SCA022382R9510 1SCA022461R0280
OHB 145J12E002S OHY 145J12E002S OHG 145J12E002S	Black Yellow-red Grey	145	12	OETL 400...800	1		1SCA022383R5400 1SCA022383R5310 1SCA022461R0100

Metallic handles, IP 65, padlockable with 3 padlocks in OFF- position, door drilling is shown on page 50. Includes the 12 mm square shaft.

OETLZX 74	Black ON-OFF and I-O	145	12	OETL 400...800	1		1SCA022070R2660
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¹⁾ If the handle is mounted on the front of the door, a standard handle can be used as well.
²⁾ Door interlock bracket, see page 31.

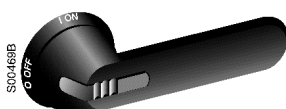
REMARKS

- Door interlocking in ON-position means that the door can not be opened, when the handle is in ON-position. This can be defeated in IP 65 types to allow authorized personnel

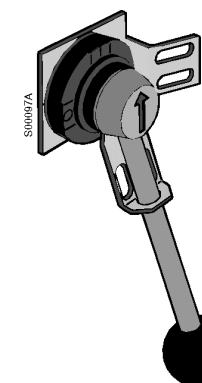
- access for inspection.
- Handles padlockable in all positions are available on request.
- Dimension drawings on page 50.



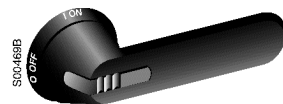
OH_



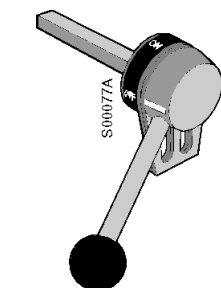
OH_



YASDA_



OH_



OETLZX 74

SwitchLine

Ordering Information

OETL 200...3150, Accessories

Optional handles with I-O-II -indication

Type	Colour	Handle length [mm]	For shaft diameter [mm]	Suitable for switch sizes	Package [pcs]	Ordering number
Plastic handles, IP 65, Indication I-O-II, padlockable with 3 padlocks in OFF- position, door interlock in ON- position (defeatable), door drilling is shown on page 50. The shaft has to be ordered separately.						
OHB145J12E011	Black	145	12	OETL 200...1600	1	1SCA022399R8530
OHY145J12E011	Yellow-red					1SCA022460R7060
OHG145J12E011	Grey					1SCA022460R7140
OHB 275J12E011	Black	275	12	OETL 400...3150	1	1SCA022460R7220
OHY 275J12E011	Yellow-red					1SCA022460R7310
OHG 275J12E011	Grey					1SCA022460R7490

Extended shafts

Type	Shaft length [mm]	H [mm]	For switch sizes	Package [pcs]	Ordering number
					
Shaft diameter 8 mm					
EXP8x140	140	120...220	OETL 200...315	1	1SCA022295R5860
EXP8x180	180	160...240			1SCA022160R9820
EXP8x240	240	220...320			1SCA022137R5730
EXP8x340	340	320...420			1SCA022160R9070
EXP8x500	500	480...580			1SCA022160R9230
Shaft diameter 12 mm					
EXP12x166	166	160...255	OETL 400...800	1	1SCA022325R7100
EXP12x185	185	165...275 190...260	OETL 400...800 OETL 1000...1600	1	1SCA022325R6710
EXP12x250	250	230...340 255...325	OETL 400...800 OETL 1000...1600	1	1SCA022325R6980
EXP12x280	280	260...370 285...355	OETL 400...800 OETL 1000...1600	1	1SCA022137R5140
EXP12x325	325	305...415 330...400 340...535	OETL 400...800 OETL 1000...1600 OETL 2500, 3150	1	1SCA022042R5810
EXP12x395	395	375...485 400...470 410...605	OETL 400...800 OETL 1000...1600 OETL 2500, 3150	1	1SCA022042R5990
EXP12x465	465	445...555 470...540 480...675	OETL 400...800 OETL 1000...1600 OETL 2500, 3150	1	1SCA022042R6020
EXP12x535	535	515...625 540...610 550...745	OETL 400...800 OETL 1000...1600 OETL 2500, 3150	1	1SCA022042R6110

Twisted shafts, shaft diameter 8 mm. The shaft position is rotated 45 degrees.

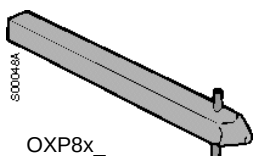
EXP8x140-45	140	120...220	OETL200...315	1	1SCA022357R7860
EXP8x340-45	340	320...420	OETL200...315	1	1SCA022357R5650

Twisted shafts, shaft diameter 12 mm. The shaft position is rotated 45 degrees.

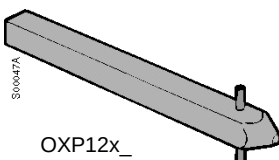
EXP12x250-45	250	230...340	OETL 400...800	1	1SCA022293R9400
		255...325	OETL 1000...1600		
EXP12x280-45	280	260...370	OETL 400...800	1	1SCA022382R0800
		285...355	OETL 1000...1600		
EXP12x325-45	325	305...415	OETL 400...800	1	1SCA022304R4450
		330...400	OETL 1000...1600		
		340...535	OETL 2500, 3150		
EXP12x395-45	395	375...485	OETL 400...800	1	1SCA022431R8540
		400...470	OETL 1000...1600		
		410...605	OETL 2500, 3150		
EXP12x465-45	465	445...555	OETL 400...800	1	1SCA022423R1770
		470...540	OETL 1000...1600		
		480...675	OETL 2500, 3150		



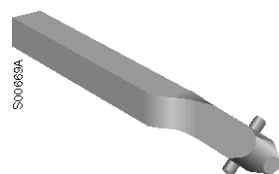
OH_



EXP8x_



EXP12x_

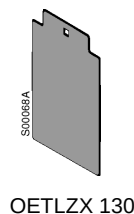
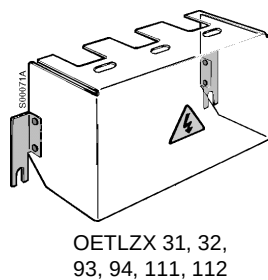
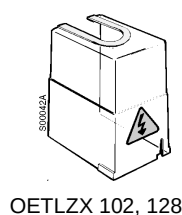
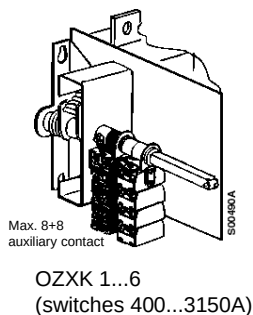
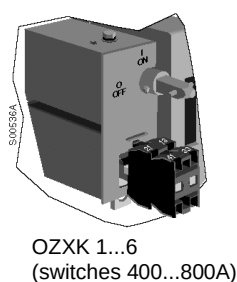
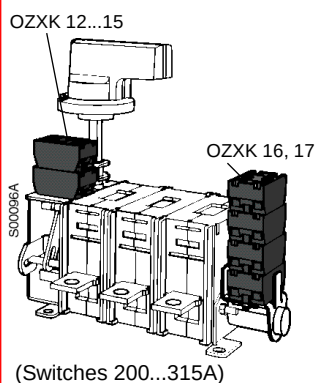


EXP8x_-45
EXP12x_-45

SwitchLine

Ordering Information

OETL 200...3150, Accessories



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.

Type	Auxiliary contacts ¹⁾	Performance data ²⁾ U _e I _e AC12/DC12	For switch sizes	Packing [pcs]	Ordering number
OZXK 12		120V 8A / - 125V - / 1.1A	OETL 200...315	1	1SCA022144R7400
OZXK 1		240V 6A / - 250V - / 0.55A	OETL 400...3150	1	1SCA022131R8690
OZXK 13		400V 4A / - 415V 4A / -	OETL 200...315	1	1SCA022144R7230
OZXK 2		480V 3A / - 500V 3A / 0.27A	OETL 400...3150	1	1SCA022131R8850
OZXK 16		440V - / 0.31A	OETL 200...315	1	1SCA022144R7150
OZXK 3 ³⁾		690V 2A / -	OETL 400...3150	1	1SCA022131R9070
OZXK 14			OETL 200...315	1	1SCA022144R7580
OZXK 4			OETL 400...3150	1	1SCA022131R9230
OZXK 15			OETL 200...315	1	1SCA022144R7310
OZXK 5			OETL 400...3150	1	1SCA022131R9400
OZXK 17			OETL 200...315	1	1SCA022144R6340
OZXK 6 ⁴⁾			OETL 400...3150	1	1SCA022131R9660

¹⁾ Contact numbering according to EN 50 013

²⁾ According to IEC 947-5-1

³⁾ 8 no + 8 nc auxiliary contacts = 2 x OZXK 3

⁴⁾ 16 no auxiliary contacts = 2 x OZXK 6

REMARKS

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

– Contact functions, see page 55.

Terminal shrouds

Type	Number of poles	For switch sizes	Quantity for full protection [pcs]	Packing [pcs]	Ordering number
OETLZX 128	3 4	OETL 200...315	6 8	1 1	1SCA022139R7200
OETLZX 31 OETLZX 32	3 4	OETL 400	2 2	1 1	1SCA022061R1350 1SCA022061R1510
OETLZX 177 OETLZX 178	3 4	OETL 400KV12 OETL 400KV22	2 2	1 1	1SCA022267R9730 1SCA022267R9900
OETLZX 179 OETLZX 180	3 4	OETL 630...800KV12 OETL 630...800KV22	2 2	1 1	1SCA022268R0150 1SCA022268R0310
OETLZX 93 OETLZX 94	3 4	OETL 630	2 2	1 1	1SCA022083R6430 1SCA022083R6600
OETLZX 111 OETLZX 112	3 4	OETL 800	2 2	1 1	1SCA022106R7080 1SCA022106R7240
OESAZX 102	3 4	OETL 1000...1600	6 8	1 1	1SCA022085R9480

Phase barriers for OETL 200...315

Type	Description	Packing [pcs]	Ordering number
OETLZX 130	Phase barriers (not needed, when using terminal shrouds OETLZX 128, see above)	4	1SCA022144R8470

SwitchLine

Ordering Information

OETL 200...3150, Accessories, terminal clamps

Mounting accessories

Type	For switch sizes	Description	Package [pcs]	Recomm. order Qty	Ordering number
OHZX 2 OHZX 1 OHZX 3	OETL 200...315 OETL 400...800 OETL 1000...3150	Handle support bracket for direct mounting on the switch mechanism	1	10	1SCA022465R7080 1SCA022465R6860 1SCA022465R7240
OETLZX 108	OETL 400...3150	90° angle kit - a normal switch can be converted to a side operated switch	1		1SCA022087R8430

Mounting:
OETL 200...800 on mounting plate
OETL 1000...3150 on mounting plate, key hole fixing

Neutral links

Type	Suitable for switch sizes	Description	I _{th} [A]	Max. cable cross section/Cu or bolt size [mm ²]	Package [pcs]	Ordering number
OETLZX 129	OETL200...315	Detachable, mounted to the switch	400	240	1	1SCA022144R8210
OESAZX 85	OETL400...800		400	240	1	1SCA022082R3110
OESAZX 158	OETL630...800		1000	M12	1	1SCA022186R3530
OESAZX 159	OETL1000...1600		1000	M12	1	1SCA022186R3700
OESAZX 162		Mounted separately to the base plate	200	10...120	1	1SCA022193R0400
OESAZX164			315	10...300	1	1SCA022202R9520
OESAZX165			400	10...300	1	1SCA022202R9790
OESAZX 160			1000	M12	1	1SCA022186R3960

Terminal clamps for OT and OETL

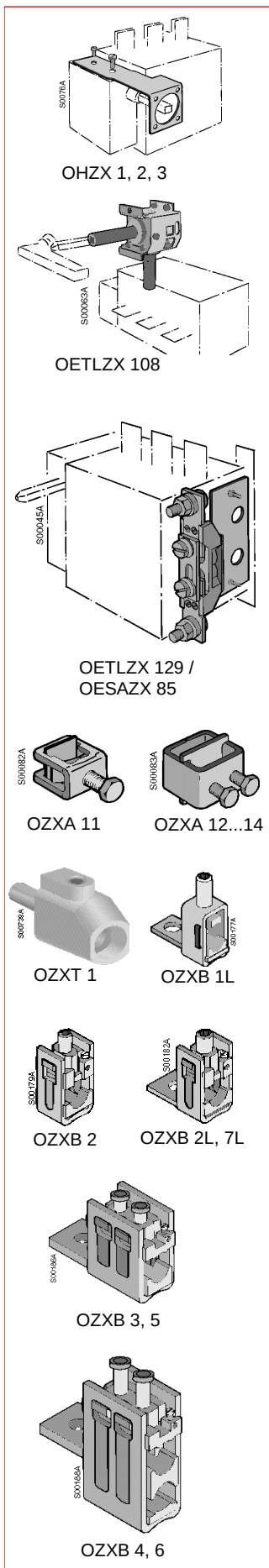
Type	Suitable for switch sizes	Description	Bolt size or cable cross section [mm ²]	Package [pcs]	Ordering number
OZX 11 OZX 12 OZX 14	OETL 200...315 OETL 400 OETL 630, 800	Terminal clamp sets for Cu-cables	70...120 Cu 70...185 Cu 95...240 Cu	6	1SCA022025R6940 1SCA022008R7650 1SCA022008R7810
OZXT1 ¹⁾	OT45...125		690V 63 A 16...50 Al 2.5...50 Cu	3	1SCA022469R6310
OZXL 1 ¹⁾ OZXB 1L OZXB 1L/1 OZXL 1/1 ¹⁾	OT100...125E OETL 200 OT100...125E	Terminal clamp sets for Al- and Cu-cables	10...70Al/Cu 10...70Al/Cu	3 3 1 1	1SCA022439R6770 1SCA022169R2030 1SCA022194R0030 1SCA022469R6220
OZXB 2 ²⁾ OZXB 2L OZXB 2L/1	OT 160 OETL 250...400		25...120 Al/Cu	3 3	1SCA022119R7610 1SCA022158R7750 1SCA022194R0460
OZXB 3 OZXB 3/1	OETL 200...3150		95...185 Al/Cu	3 1	1SCA022136R8100 1SCA022194R0620
OZXB 4 OZXB 4/1	OETL 250...3150		2x(95...185) Al/Cu	3 1	1SCA022137R4760 1SCA022194R0890
OZXB 5 OZXB 5/1	OETL 250...3150		120...300 Al/Cu	3 1	1SCA022137R2470 1SCA022194R1010
OZXB 6 OZXB 6/1	OETL 250...3150		2x(120...300) Al/Cu	3 1	1SCA022137R4920 1SCA022194R1270
OZXB 7L OZXB 7L/1	OETL 200...800		120...240 Al/Cu	3 1	1SCA022185R7130 1SCA022194R1600

¹⁾ When mounted to OT 100...125E, terminal clamps have to be provided with the shrouds OTS125T_P, see page 16.
²⁾ OT160 has to be provided with OEZXX6 or OEZXX13, see page 22.

REMARKS: More information on Al/Cu terminal clamps, see the catalogue OZX 1 A GB.

– OETL 200...3150 include bolt sets:

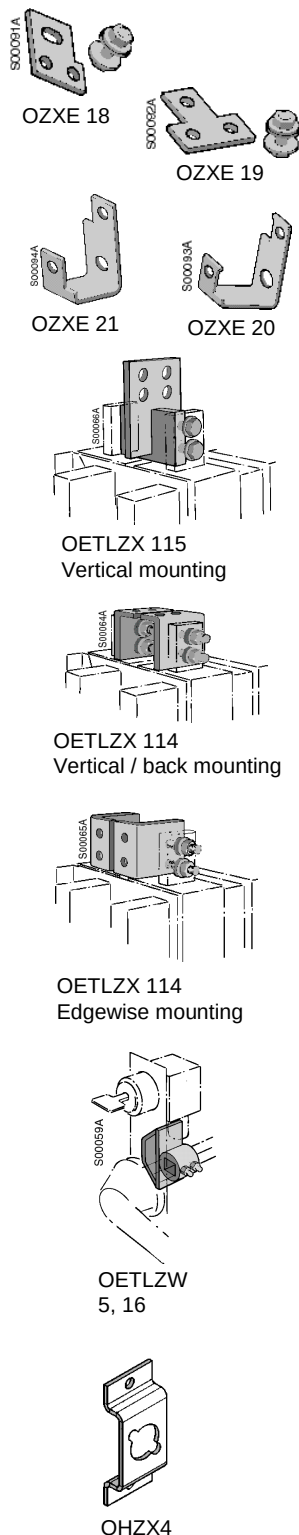
OETL 200	OZXE 1	M8 x 25 mm	6 pcs/package
OETL 250, 315	OZXE 2	M10 x 30 mm	6 pcs/package
OETL 400	OZXE 6	M10 x 40 mm	6 pcs/package
OETL 630, 800	OZXE 3	M12 x 40 mm	6 pcs/package
OETL 1000...3150	OZXE 14	M12 x 60 mm	12 pcs/package



SwitchLine

Ordering Information

OETL 200...3150, Accessories



Busbar connections

Busbars for parallel connection. Terminal clamps have to be ordered separately.

Type	Suitable for switch sizes	Clamps	Package [pcs]	Ordering number
OZXE 21	OETL 200...315	2x OZXB2_	3	1SCA022161R8810
OZXE 20	OETL 200...400	2x OZXB1_	3	1SCA022161R8650
OZXE 18	OETL 630...800	2xOZXB4 / OZXB3 + OZXB4	3	1SCA022162R7810
OZXE 19	OETL 1000...1600	2x OZXB6 / OZXB6 + OZXB5	3	1SCA022162R8020

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.

Type	For switches	Number of connectors	Package	Ordering number
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Vertical mounting

OETLZX 115	3 pole	6	1	1SCA022117R7770
OETLZX 115/1	4 pole	8		1SCA022126R2110

Vertical- / back- or edgewise mounting

OETLZX 114	3 pole	6	1	1SCA022117R7510
OETLZX 114/1	4 pole	8		1SCA022126R1990

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.

Type	For switch sizes	Package [pcs]	Ordering number
OETLZW 16	OETL200...315	1	1SCA022093R2070
OETLZW 5	OETL 400...3150	1	1SCA022052R3900

Door interlock bracket

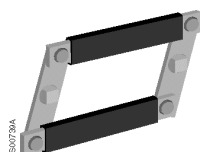
When this bracket is provided, the door interlock in pistol type handles can't be defeated.

Type	For pistol type handles	Package [pcs]	Ordering number
OHZX4	OH_45...275	1	1SCA022467R2470

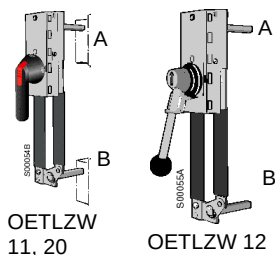
SwitchLine

Ordering Information

OETL 200...3150, Accessories

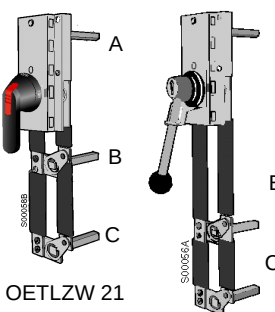


OETLZW 9, 18



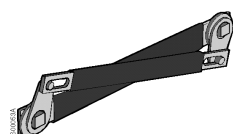
OETLZW 11, 20

OETLZW 12

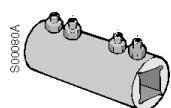


OETLZW 21

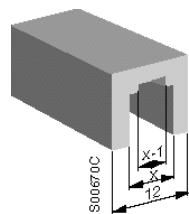
OETLZW 13



OETLZW 3, 14, 15, 19



OETLZX 95



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

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.

Type	For switch sizes	Shaft distance [mm]	Includes shafts and handle ³⁾	Package [pcs]	Ordering number
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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.

OETLZW 18	OETL 200...315	$80 + (0...10) \times 20$	x	1	1SCA022143R4410
OETLZW 9	OETL 400...1600	$60 + (0...19) \times 20$	— ¹⁾	1	1SCA022061R3300

Change over switches

Two switches connected with a mechanism.

OETLZW 20	OETL 200...315	$210 + (0...11) \times 20$	x	1	1SCA022142R1270
OETLZW 11	OETL 400	$210 + (0...11) \times 20$	x	1	1SCA022078R0030
OETLZW 12	OETL 630...1600	$210 + (0...20) \times 20$	x	1	1SCA022078R0200

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.

OETLZW 21	OETL 200...315	between A and B: $210 + (0...9) \times 20$ between A and C: $250 + (0...9) \times 20$	x	1	1SCA022158R1800
OETLZW 13	OETL 400...1600	between A and B: $210 + (0...18) \times 20$ between A and C: $250 + (0...18) \times 20$	x	1	1SCA022078R0460

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.

OETLZW 19	OETL 200...315	3-pole: 240 4-pole: 280	— ²⁾	1	1SCA022142R1010
OETLZW 3	OETL 400...1600	300	— ¹⁾	1	1SCA022049R0380
OETLZW 14	OETL 400...1600	250	— ¹⁾	1	1SCA022077R3410
OETLZW 15	OETL 400...3150	500	— ¹⁾	1	1SCA022081R9340

Shaft extension socket

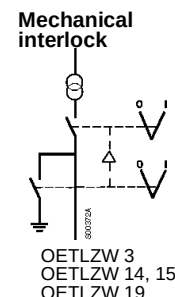
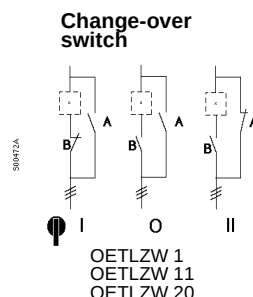
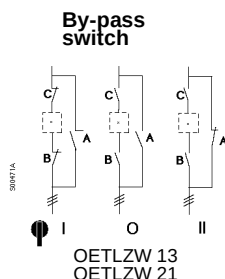
For extending the shaft of combination attachment.

Type	Suitable for shaft with diameter [mm]	Package [pcs]	Ordering number
OETL ZX 95	12	1	1SCA022083R5620

Adapters for extension socket

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

OETL ZK 19	5...6	1	1SCA022093R1850
OETL ZT 123	8	1	1SCA022164R8300



1 and 2) Handles delivered with the switches can also be used with the conversion kits.
¹⁾ Suitable shaft diameter 12 mm.
 Handles: OH_ or YASDA 7 / -8.
 (for OETL 1000...1600 YASDA_).
²⁾ Suitable shaft diameter 8 mm.
 Handles: OH_.

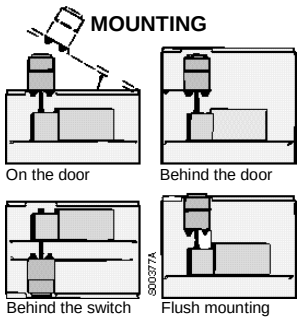
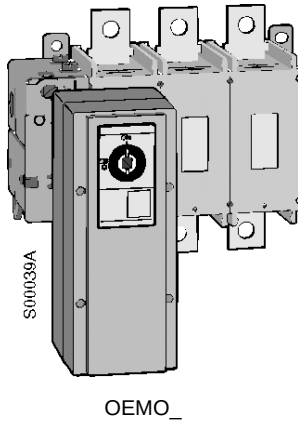
³⁾ Conversion kit:
 OETL ZW 18
 OETL ZW 11, 20, 21
 OETL ZW 12
 OETL ZW 13

Includes the handle type:
 OHB145J12
 OHB145J12E011
 YASDA 21
 YASDA 6
 Description:
 plastic: I - O, ON-OFF
 plastic: I - O - II
 metallic: I - O - II
 metallic: I - O - II

SwitchLine

Ordering Information

OETL 200...3150, Accessories



Motor operator

OEMO motor operator has been designed for remote control of the switch. The standard delivery includes complete control circuit; short cable and spare handle.

Function I-0 (ON-OFF)

Type	For switch sizes	Voltage	Package [pcs]	Ordering number
OEMO001/24VDC/AC OEMO001/48VDC/AC OEMO001/110VAC OEMO001/220VAC OEMO001/220VDC OEMO001/240VAC	OETL 200...315	24 VDC/AC 48 VDC/AC 110 VAC 220 VAC 220VDC 240 VAC	1	1SCA022172R7860 1SCA022172R8080 1SCA022172R8410 1SCA022172R8670 1SCA022181R8150 1SCA022181R7000
OEMO002/24VDC/AC OEMO002/48VDC/AC OEMO002/110VAC OEMO002/220VAC OEMO002/220VDC OEMO002/230VAC OEMO002/240VAC	OETL 400...800	24 VDC / AC 48 VDC / AC 110 VAC 220 VAC 220VDC 230 VAC 240 VAC	1	1SCA022172R8830 1SCA022172R9050 1SCA022172R9480 1SCA022172R9640 1SCA022181R8310 1SCA022196R8630 1SCA022181R7260
OEMO003/24VDC/AC OEMO003/48VDC/AC OEMO003/110VAC OEMO003/110VDC OEMO003/220VAC OEMO003/220VDC OEMO003/230VAC OEMO003/240VAC	OETL 1000...1600	24 VDC / AC 48 VDC / AC 110 VAC 110 VDC 220 VAC 220VDC 230 VAC 240 VAC	1	1SCA022172R9810 1SCA022173R0060 1SCA022173R0490 1SCA022344R6920 1SCA022173R0570 1SCA022181R5810 1SCA022196R8800 1SCA022181R7420
OEMO004/110VAC OEMO004/220VAC OEMO004/220VDC OEMO004/230VAC OEMO004/240VAC	OETL 2500...3150	110 VAC 220 VAC 220VDC 230 VAC 240 VAC		1SCA022182R0300 1SCA022181R9120 1SCA022357R8080 1SCA022196R9010 1SCA022181R9710

Function I - 0 - II

Change over mechanism needed, see page 32.

OEMO101/24VDC/AC OEMO101/48VDC/AC OEMO101/110VAC OEMO101/220VAC OEMO101/220VDC OEMO101/240VAC	OETL 200...315	24 VDC / AC 48 VDC / AC 110 VAC 220 VAC 220 VDC 240 VAC	1	1SCA022173R0730 1SCA022173R0900 1SCA022173R1380 1SCA022173R1540 1SCA022181R8580 1SCA022181R7690
OEMO202/24VDC/AC OEMO202/48VDC/AC OEMO202/110VAC OEMO202/220VAC OEMO202/220VDC OEMO202/240VAC	OETL 400...800	24 VDC / AC 48 VDC / AC 110 VAC 220 VAC 220 VDC 240 VAC	1	1SCA022173R1710 1SCA022173R1970 1SCA022173R2350 1SCA022173R2510 1SCA022181R8910 1SCA022181R7850
OEMO303/110VAC ¹⁾ OEMO303/220VAC ¹⁾ OEMO303/240VAC ¹⁾	OETL 1000...1600	110 VAC 220 VAC 240 VAC		1SCA022173R3320 1SCA022173R3590 1SCA022181R8070

¹⁾ The change over mechanism has to be ordered together with OEMO101_...303 .

Mounting kit for OEMO motor operator

Type	For switches front operated	Weight [kg]	Package [pcs]	
OEMOZX 1	OETL 200...800	2.86	1	1SCA022185R9690
OEMOZX 2	OETL 1000...1600	3.20	1	1SCA022185R9850

Dimension drawing on page 51.

SwitchLine

Ordering Information

OETL 200...3150, Accessories

Electrical interlock

Closed circuit principal, for interlocking the switch movement. When the coil circuit is dead, A-types can not be switched to ON-position and L-types to ON- or OFF-position. Aux. contacts are mountable on the top of the mechanism. OETLZT 206/210 U_n/R : 110VAC 50 Hz/246W, 110VAC 60Hz/229W, 208VAC 60Hz/820W, 230VAC 50Hz/1200W, 24VDC/89W, 48VDC/386W, 60VDC/552W, 110VDC/1860W, $U=0.7...1.1*U_n$, PDC=6.5 W, $P_{AC} = 30V$.

For OETL 200...315 A

AL-types

Includes 2 pcs locking parts for locking to ON-position or to ON and OFF-positions.

Type	Coil voltage	Package [pcs]	Ordering number
OETL ZT 210 AL24DC	24 V / DC	1	1SCA022469R1690
OETL ZT 210 AL48DC	48 V / DC	1	1SCA022469R1770
OETL ZT 210 AL110DC	110 V / DC	1	1SCA022469R1930
OETL ZT 210 AL110AC50	110 V / AC 50 Hz	1	1SCA022469R2070
OETL ZT 210 AL230AC50	230 V / AC 50 Hz	1	1SCA022469R2310

For OETL 400...800 A

A - types

Type	Coil voltage	Package [pcs]	Ordering number
OETL ZT 206 A 24 DC	24 V / DC	1	1SCA 02 2435 R 3960
OETL ZT 206 A 48 DC	48 V / DC	1	1SCA 02 2435 R 4000
OETL ZT 206 A 60 DC	60 V / DC	1	1SCA 02 2435 R 4180
OETL ZT 206 A 110AC50H	110 V / AC 50 Hz	1	1SCA 02 2435 R 4420
OETL ZT 206 A 110AC60H	110 V / AC 60 Hz	1	1SCA 02 2435 R 4510
OETL ZT 206 A 110 DC	110 V / DC	1	1SCA 02 2435 R 4260
OETL ZT 206 A 208AC60H	208 V / AC 60 Hz	1	1SCA 02 2435 R 4690
OETL ZT 206 A 230AC50H	230 V / AC 50 Hz	1	1SCA 02 2435 R 4770

L - types

OETL ZT 206 L 24 DC	24 V / DC	1	1SCA 02 2435 R 4850
OETL ZT 206 L 48 DC	48 V / DC	1	1SCA 02 2435 R 4930
OETL ZT 206 L 60 DC	60 V / DC	1	1SCA 02 2435 R 5070
OETL ZT 206 L 110AC50H	110 V / AC 50 Hz	1	1SCA 02 2435 R 5310
OETL ZT 206 L 110AC60H	110 V / AC 60 Hz	1	1SCA 02 2435 R 5400
OETL ZT 206 L 110 DC	110 V / DC	1	1SCA 02 2435 R 5150
OETL ZT 206 L 208AC60H	208 V / AC 60 Hz	1	1SCA 02 2435 R 5580
OETL ZT 206 L 230AC50H	230 V / AC 50 Hz	1	1SCA 02 2435 R 5660

Clamping diode for DC-coils

OETL ZT 208	1	1SCA 02 2081 R 1280
-------------	---	---------------------

For OETL 200...3150

A - types

OETLZT 80_/_ U_n/R : 110VAC/1000W, 230VAC/3900W, 24VDC/48W, 48VDC/190W, 60VDC/300W, 110VDC/1000W, 230VDC/3900W, $U=0.7...1.1*U_n$, PDC=15 W, $P_{AC} = 30VA$.

Type	Coil voltage	Package [pcs]	Ordering number
OETL ZT 80 A/_ Coil voltage	24 V AC / DC	1	1SCA 02 2081 R 1440
	48 V AC / DC	1	1SCA 02 2081 R 1010
	60 V AC / DC	1	1SCA 02 2081 R 0630
	110 V AC	1	1SCA 02 2080 R 9460
	220 V AC	1	1SCA 02 2079 R 9050

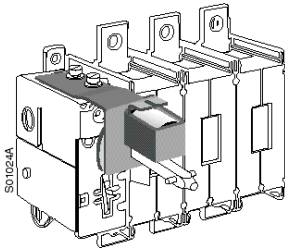
L - types

OETL ZT 80 L/_ Coil voltage	24 V AC / DC	1	1SCA 02 2081 R 1280
	48 V AC / DC	1	1SCA 02 2081 R 0800
	60 V AC / DC	1	1SCA 02 2081 R 0470
	110 V AC / DC	1	1SCA 02 2080 R 9200
	220 V AC / DC	1	1SCA 02 2079 R 9640

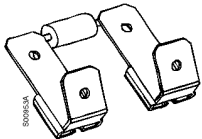
Mounting bracket

– for adapting OETLZT 80_ onto OETL 200...800, not needed with OETLZT206, 210

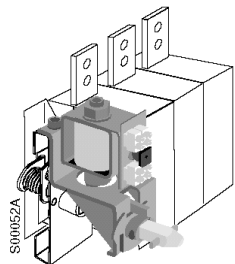
Type	For switch sizes	Package [pcs]	Ordering number
OETLZT 140	OETL 200...315	1	1SCA022189R7010
OETLZT 100	OETL 400...800	1	1SCA022101R9780



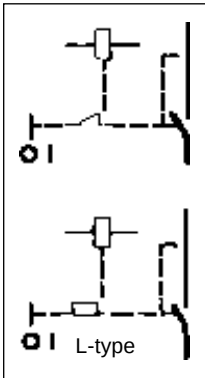
OETLZT 210



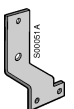
OETLZT 208



OETLZT 80_



L-type



OETLZT
100, 140



SwitchLine

**Switch-Disconnectors /
Load Break Switches
Dimension drawings OT, OETL**

Contents:

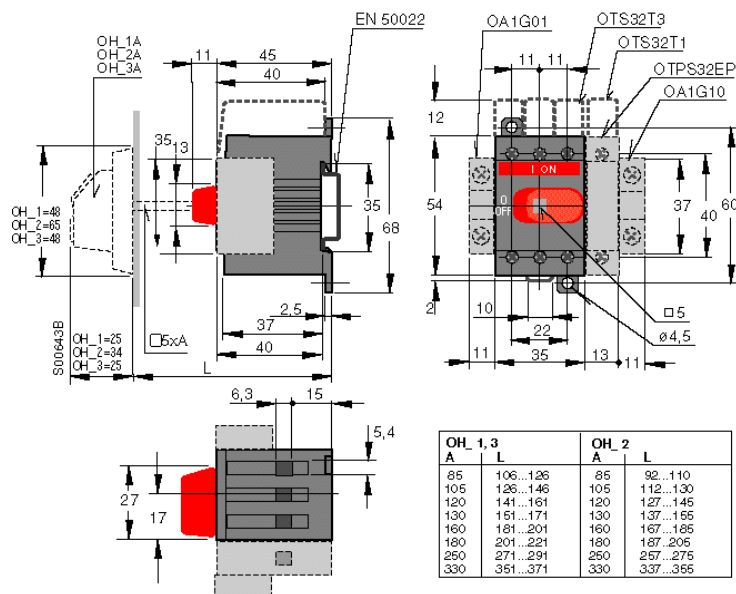
• Dimension drawings OT, OETL	36 - 49
• OT 16...125	36 - 38
• OETL 125D and 125C	39
• Accessories: handles for small switches	40
• OT 125A and 160	41
• OETL 200...3150	42 - 49
• Accessories	50 - 53
• Contact functions	54 - 55

SwitchLine

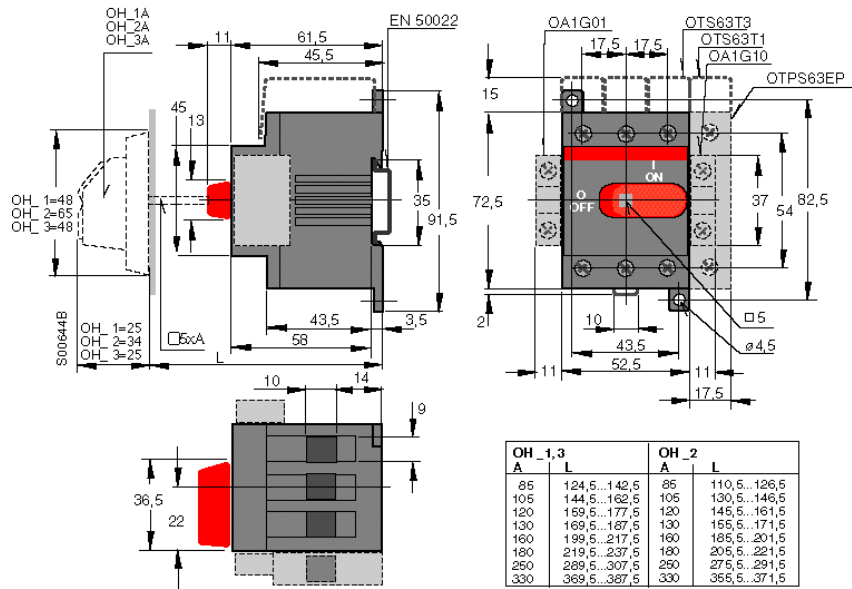
Dimension Drawings

OT 16...125

OT 16...32E3, -E4



OT 45...63E3, -E4

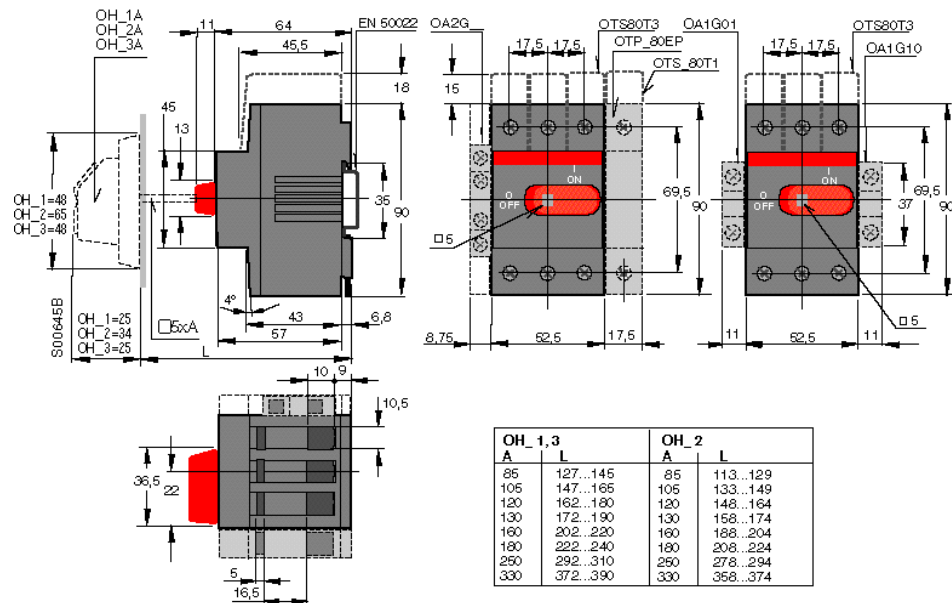


SwitchLine

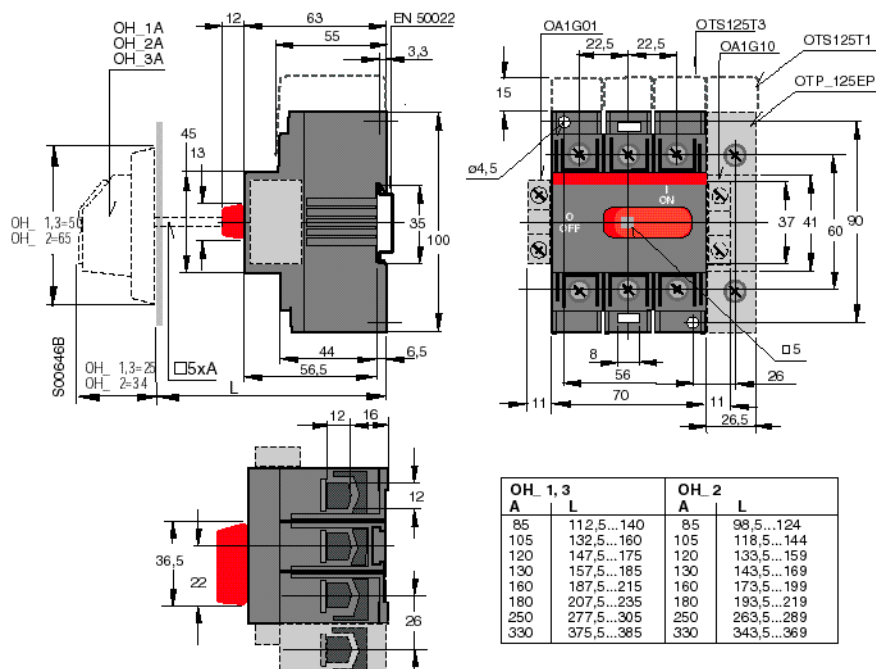
Dimension Drawings

OT 16...125

OT 80E3, -E4



OT 100...125E3, -E4

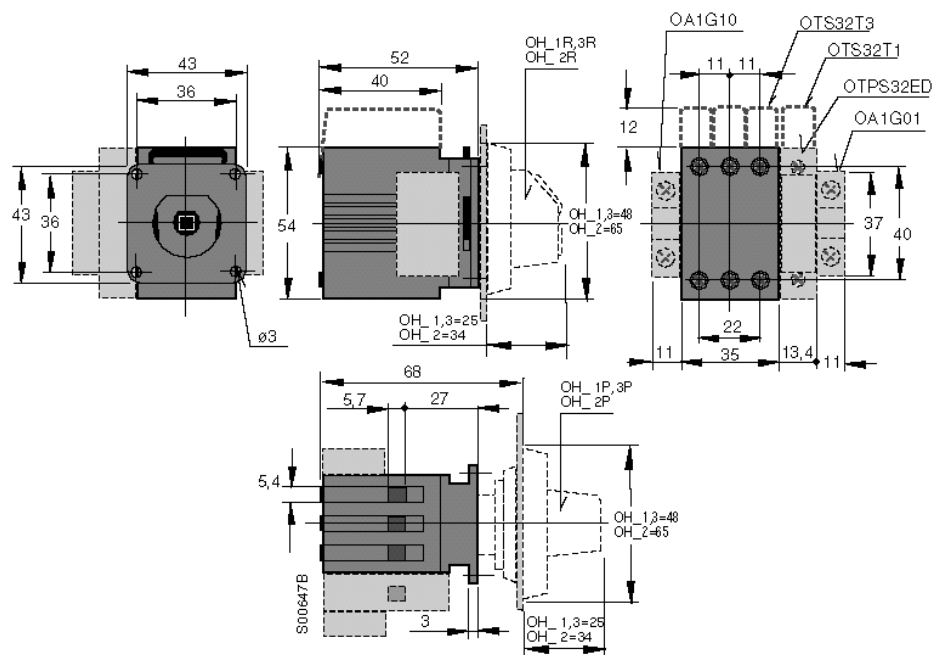


SwitchLine

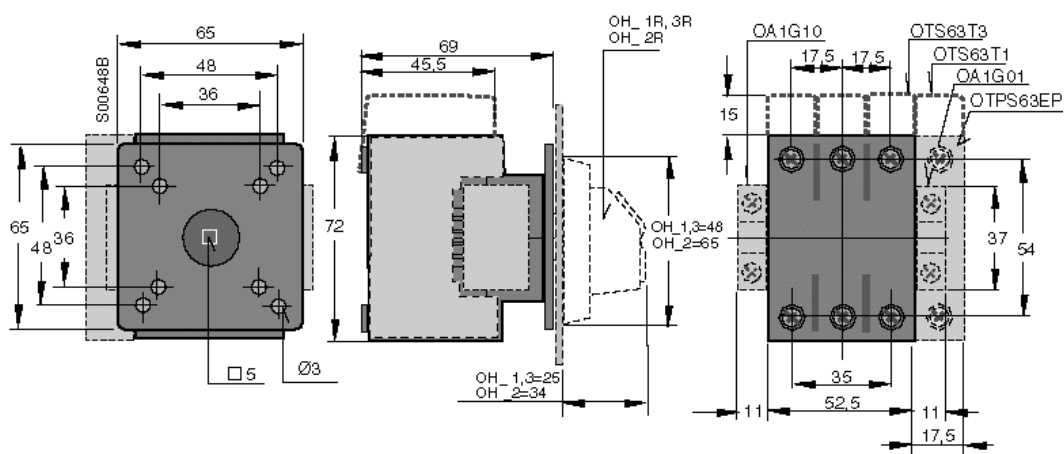
Dimension Drawings

OT 16...125

OT 16...32ET3, -ET4



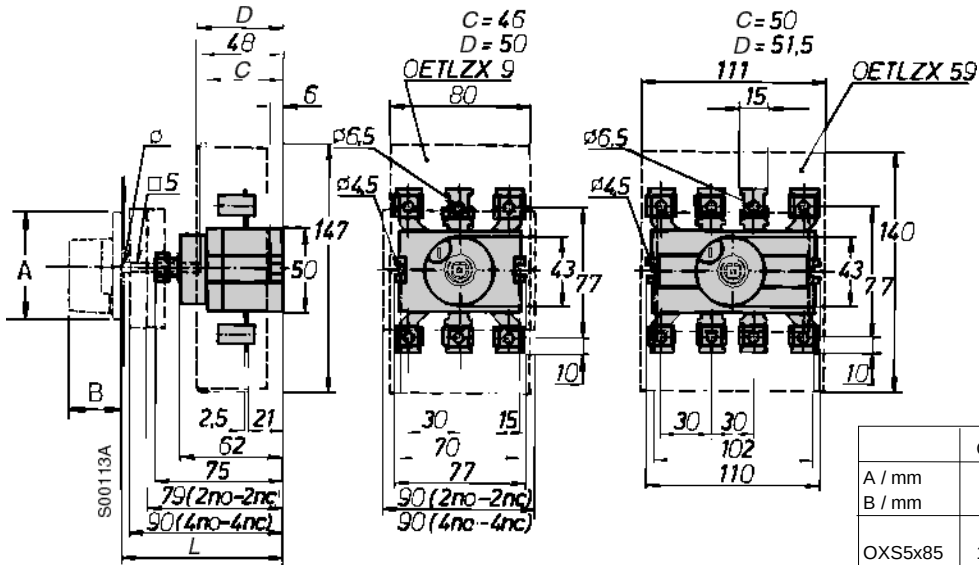
OT 45...63ET3, -ET4



OETL 125, OETL-NF 100

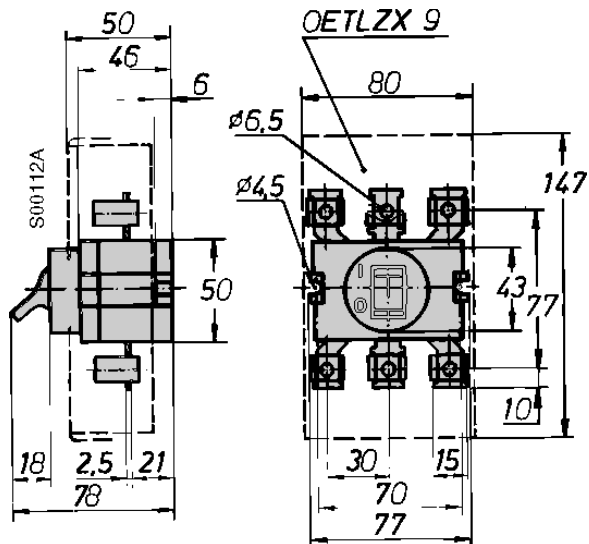
OETL 125D1
OETL-NF100

OETL 125D4



	OH_1	OH_2	OH_3
A / mm	48	65	48
B / mm	25	34	25
	L	L	L
OXS5x85	127...145	113...129	127...145
OXS5x105	147...165	133...149	147...165
OXS5x120	162...180	148...164	162...180
OXS5x130	172...190	158...174	172...190
OXS5x160	202...220	188...204	202...220
OXS5x180	222...240	208...224	222...240
OXS5x250	292...310	278...294	292...310
OXS5x330	372...390	358...374	372...390
Δ / mm	22,5	22,5	22,5

OETL 125C1
OETL-NF100T

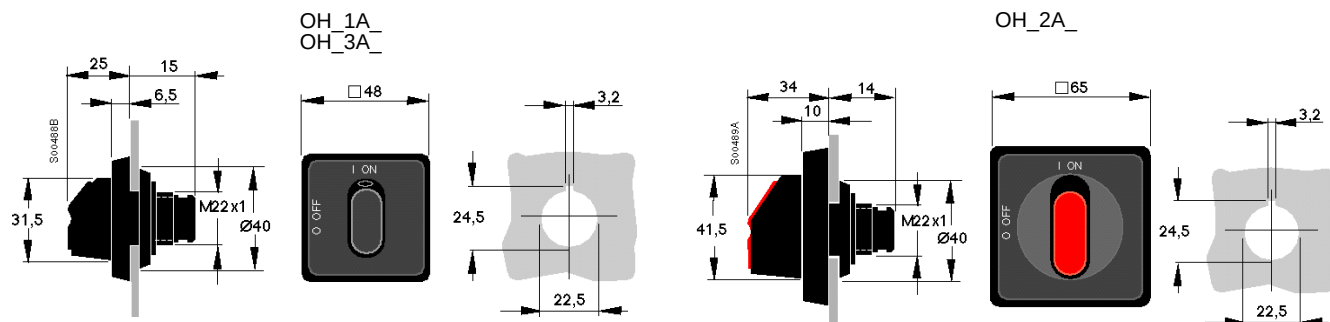


SwitchLine

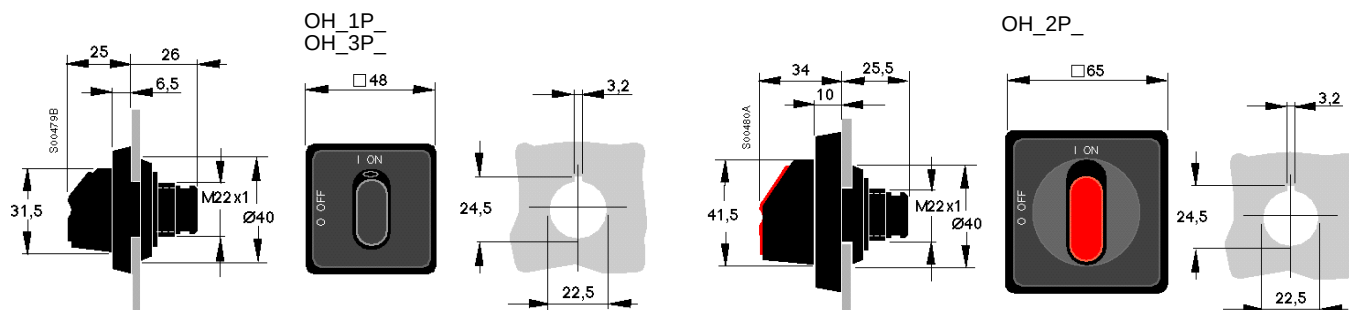
Dimension Drawings

Handles

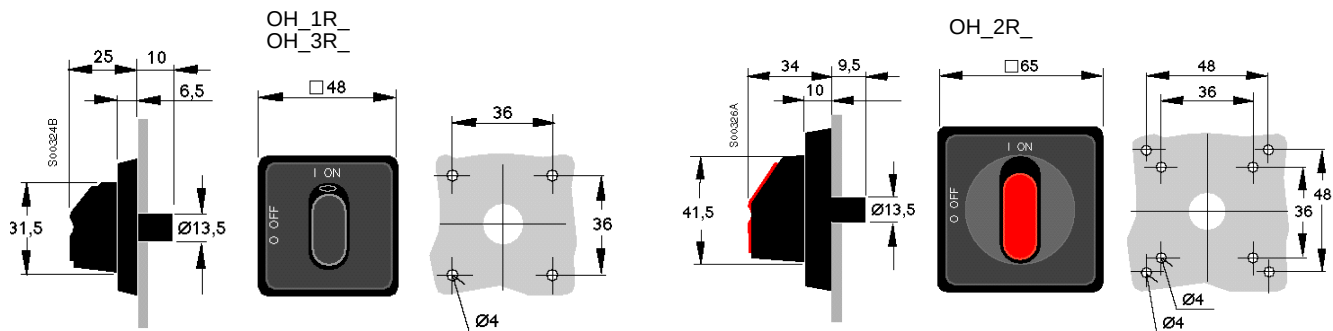
Handles for base and DIN-rail mounting switches (shaft mounting)



Handles for door mounting switches (snap-on mounting)



Handles for door mounting switches (screw-mounting)

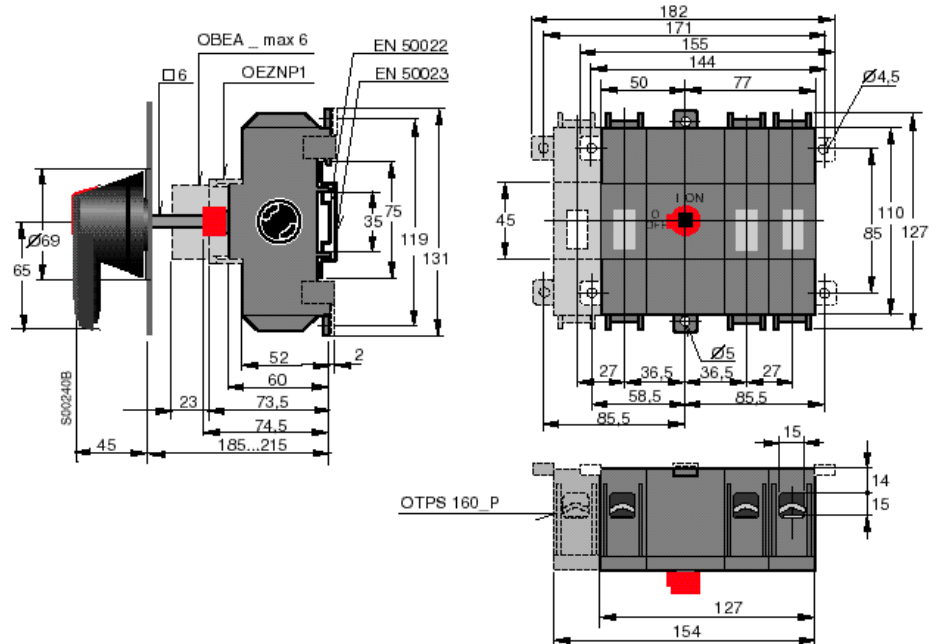


SwitchLine

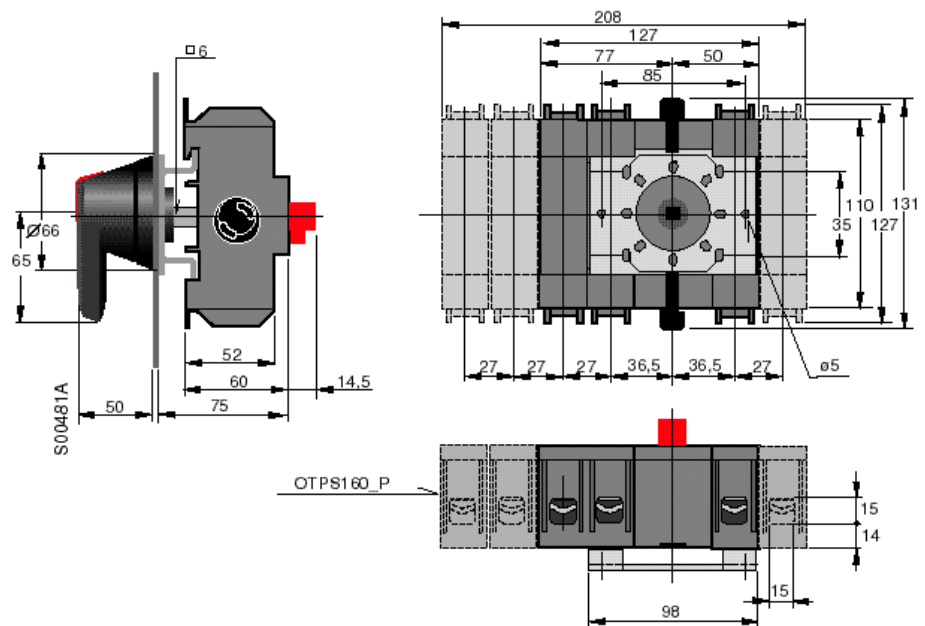
Dimension Drawings

OT 125A...160

OT 125A...160E3, -4

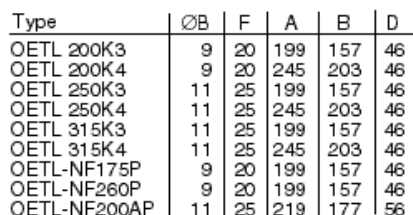


OT 125AT _...160ET _

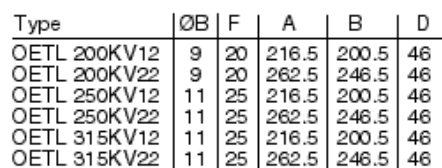


OETL 200...315, OETL-NF175, OETL-NF200, OETL-NF260

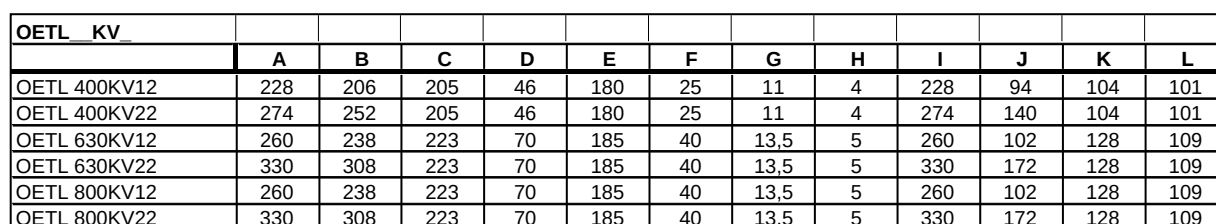
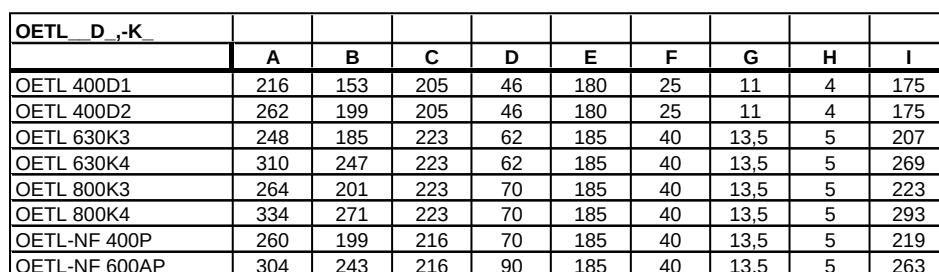
OETL 200K4
OETL 250K4
OETL 315K4



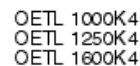
OETL 200KV22
OETL 250KV22
OETL 315KV22



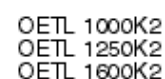
OETL 400...800, OETL-NF400, OETL-NF600



OETL 1000...1600, OETL-NF800AP, OETL-NF1200P

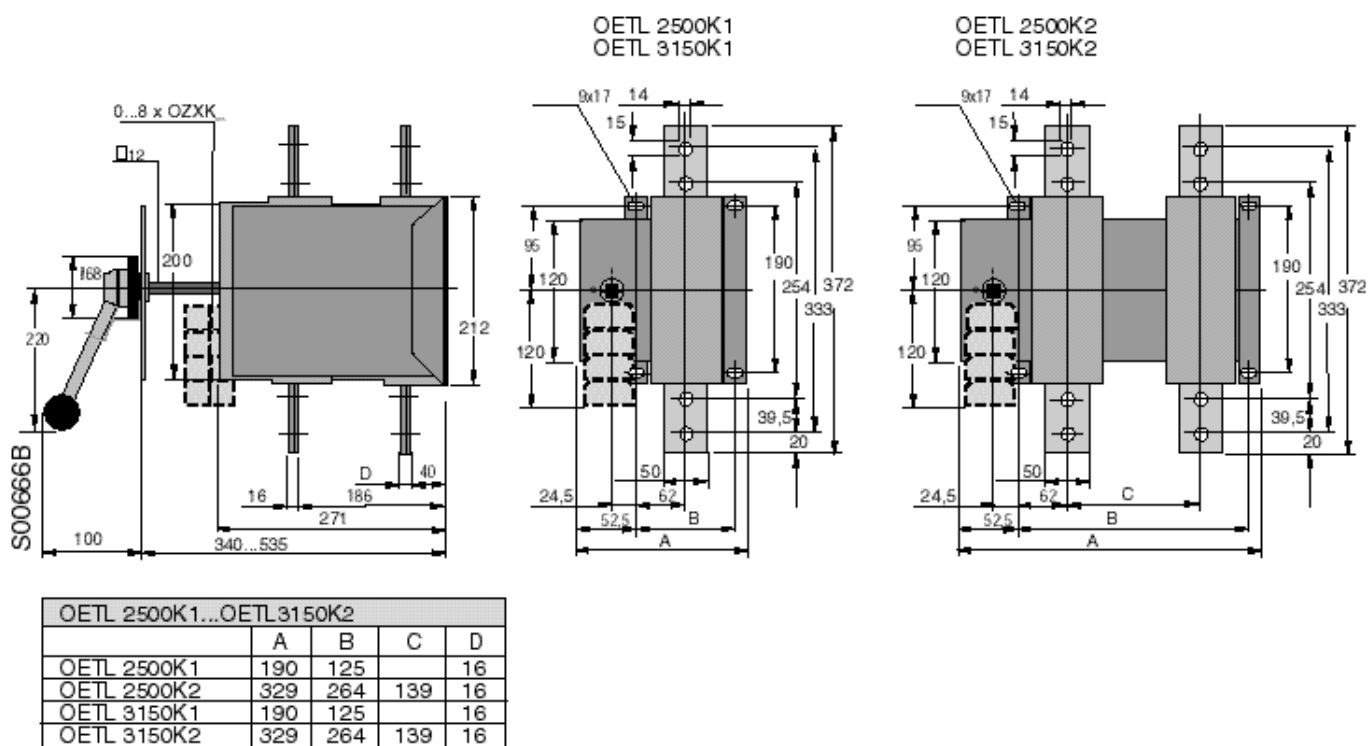


OETL 1000K3...OETL1600K4, OETL-NF800AP, OETL-NF1200P	A	B	C	D
OETL 1000K3	343	278	80	12
OETL 1000K4	423	358	80	12
OETL 1250K3	343	278	80	12
OETL 1250K4	423	358	80	12
OETL 1600K3	363	298	90	16
OETL 1600K4	453	388	90	16
OETL 1000/1250/1600K140	461	396	139	16
OETL 1000/1250/1600K185	555	490	186	16
OETL 1000/1250/1600K200	583	518	200	16
OETL-NF800AP	363	298	90	12
OETL-NF1200P	363	298	90	16



OETL 1000K1...OETL 1600K2	A	B	C	D
OETL 1000K1	183	118	-	12
OETL 1000K2	268	198	80	12
OETL 1250K1	183	118	-	12
OETL 1250K2	268	198	80	12
OETL 1600K1	183	118	-	16
OETL 1600K2	273	208	90	16

Technical drawing of the OETL 1000KV12...OETL1600KV22 switchgear. The drawing shows three views: a side view on the left and two front views on the right. The side view shows a profile with dimensions like 145, 200, 255, 325, 61, 104, 122, 95, 120, 212, 40, 125, 12, 5. The front views show the internal components with dimensions like 9x17, 72, 14, 19, 190, 254, 372, 339, 39, 5, 20, 59, 71, 5, 83, 5, 50, C, B, A, 12, 5. The drawing is labeled S00129C on the left.



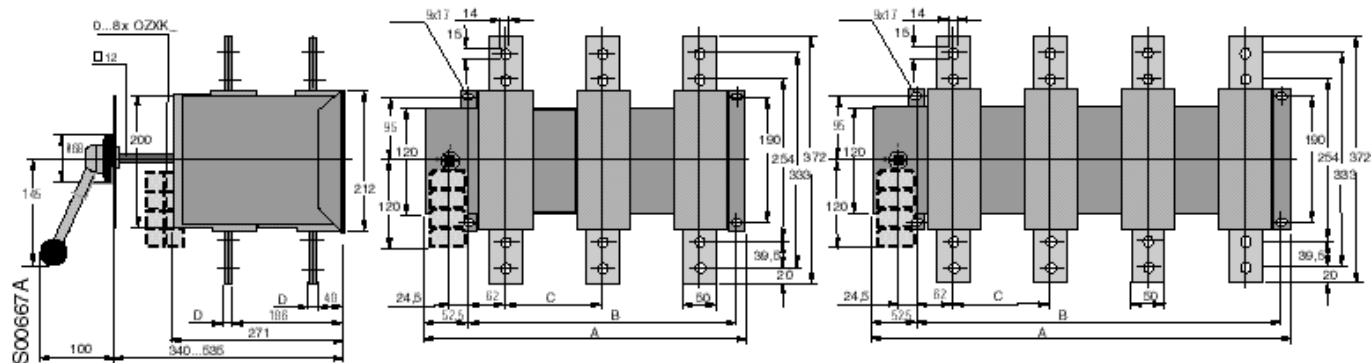
SwitchLine

Dimension Drawings

OETL 2500...3150

OETL 2500K3
OETL 2500K185
OETL 3150K3
OETL 3150K185

OETL 2500K4
OETL 3150K4

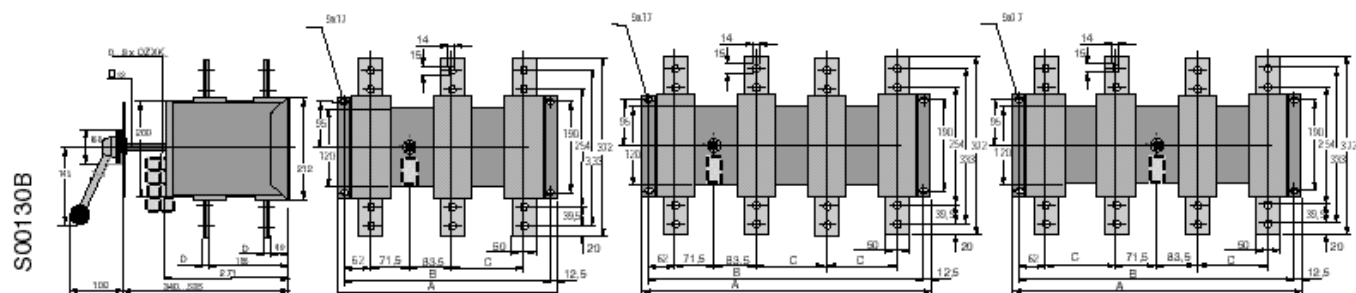


OETL 2500K3...OETL3150K4	A	B	C	D
OETL 2500K3	468	403	139	16
OETL 2500K185	562	497	186	16
OETL 2500K4	607	542	139	16
OETL 3150K3	468	403	139	16
OETL 3150K185	562	497	186	16
OETL 3150K4	607	542	139	16

OETL 2500KV12
OETL 3150KV12

OETL 2500KV13
OETL 3150KV13

OETL 2500KV22
OETL 3150KV22

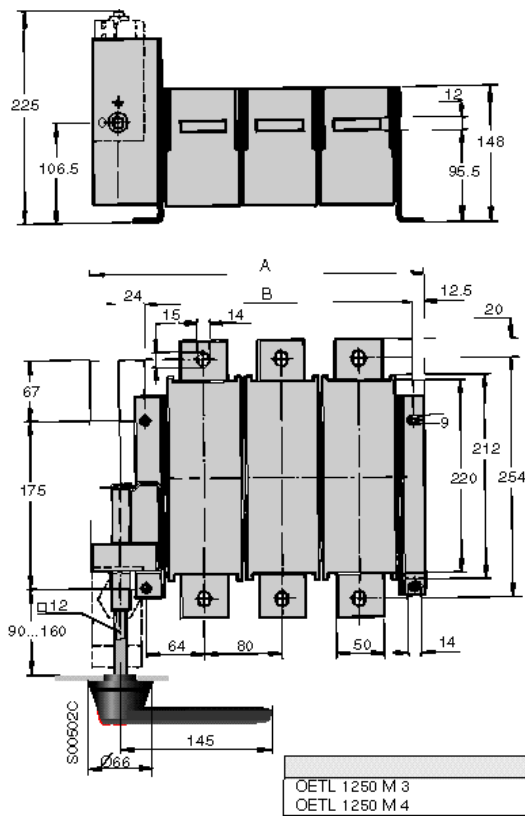


OETL 2500KV12...OETL3150KV22	A	B	C	D
OETL 2500KV12	443	418	139	16
OETL 2500KV13	582	557	139	16
OETL 2500KV22	582	557	139	16
OETL 3150KV12	443	418	139	16
OETL 3150KV13	582	557	139	16
OETL 3150KV22	582	557	139	16

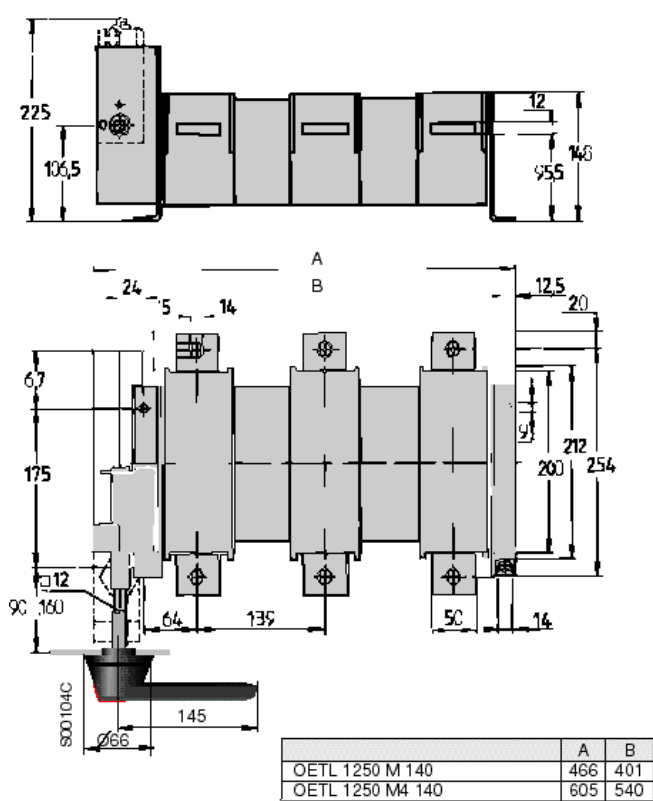
SwitchLine
Dimension Drawings
Earthing Switches

Earthing switches

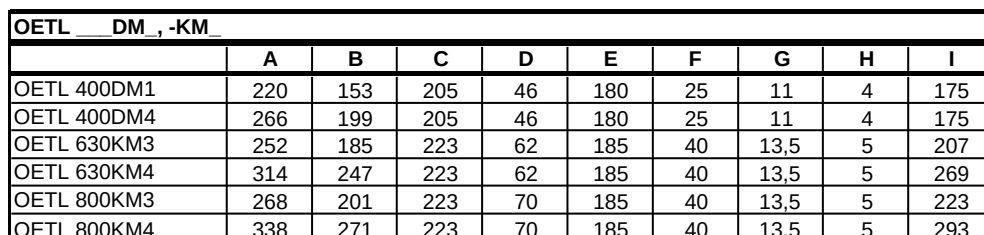
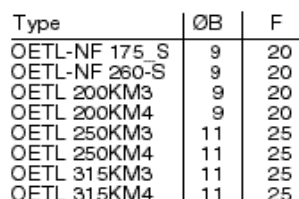
OETL 1250 M3



OETL 1250 M140_



OETL 200 ... 800, OETL-NF175-S, OETL-NF260-S

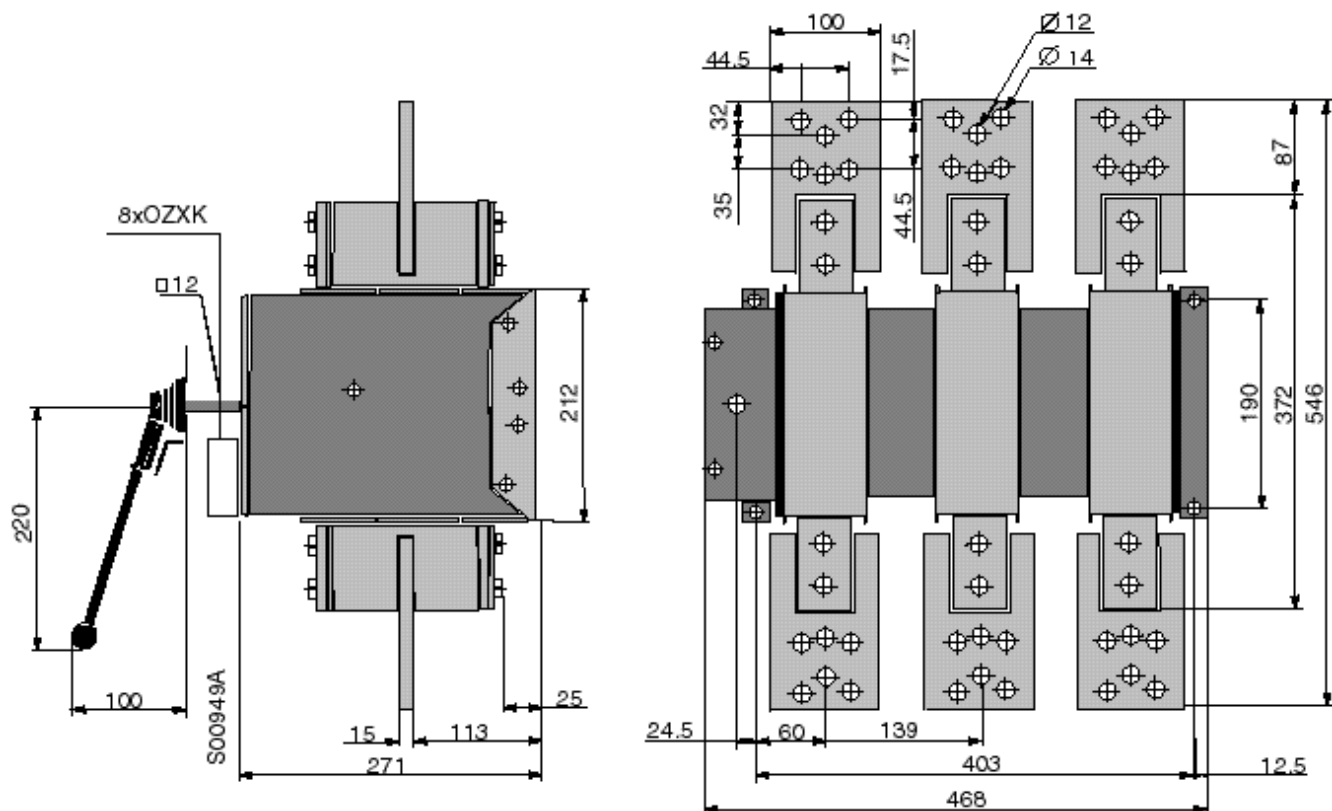


SwitchLine

Dimension Drawings

OETL-NF1600...2000

OETL-NF1600P
OETL-NF2000P

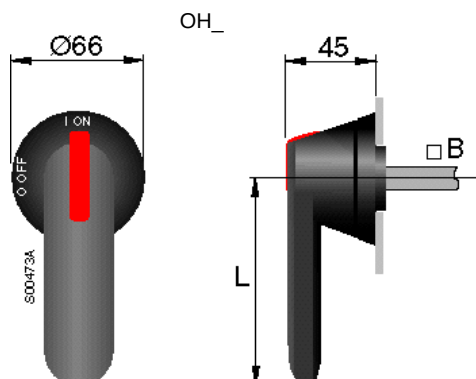


SwitchLine

Dimension Drawings, Accessories

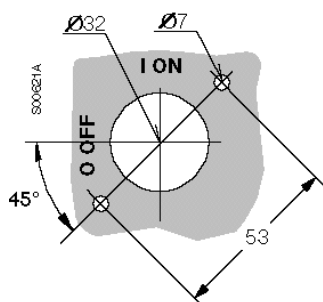
Handles

Plastic handles

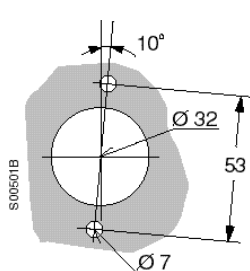


Handle type	Handle length (mm) L	Shaft (mm) B
OH_45J5	45	5
OH_65J5	65	5
OH_45J6	45	6
OH_65J6	65	6
OH_80J6	80	6
OH_65J8	65	8
OH_80J8	80	8
OH_125J12	125	12
OH_145J12	145	12
OH_175J12	175	12
OH_275J12	275	12

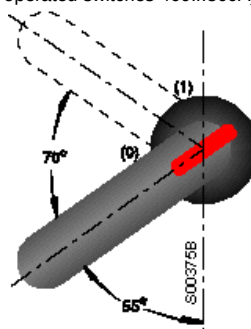
Door drilling for OH_-handles:



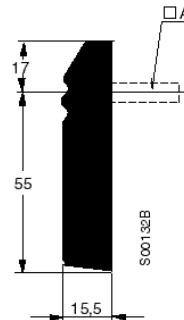
Door drilling for OH_145J12E0025S:



OH_145J12E0025S (for side-operated switches 400...800A)

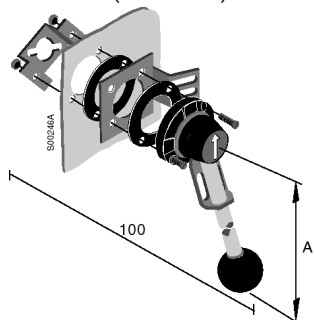


YAST 1; A = 6 mm

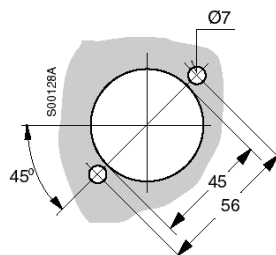


Metallic handles

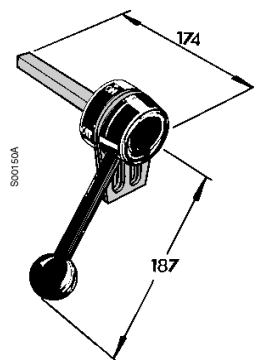
YASDA 6 (A = 320 mm)
YASDA 7, 8, 21 (A = 220 mm)
YASDA 24 (A = 145 mm)



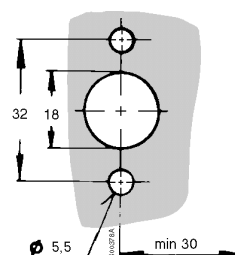
Door drilling for YASDA_:



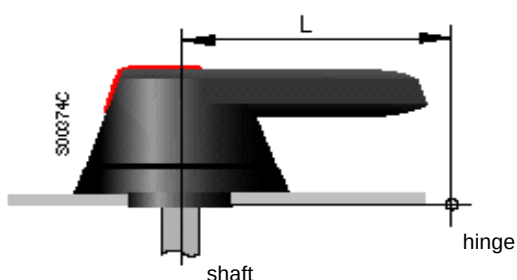
OETLZX 74 (for side-operated switches 400...800 A)



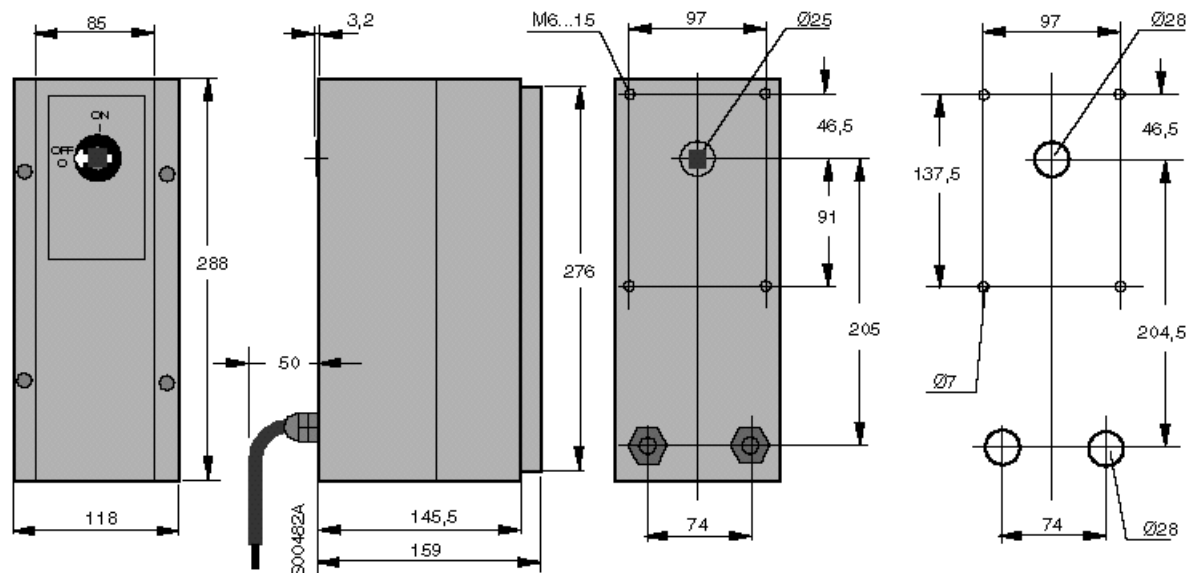
Door drilling for OETLZX 74



Minimum distance L, between the hinge and the rotating shaft



Switch size	Length L [mm]	Handle type
OT 16...125	75	OH_1, OH_2, OH_3
OT125A...160	60	OH_65J_
OETL 200...315	80	OH_80J_
OETL 400...1600	150	OH_145J_
OETL 2500...3150	220	YASDA 7, 8 OH_275J12



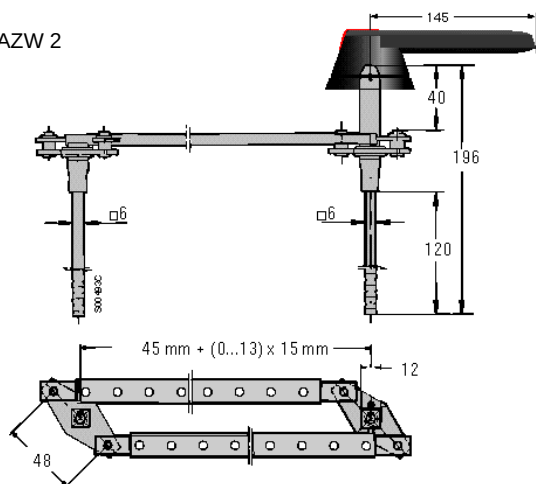
SwitchLine

Dimension Drawings, Accessories

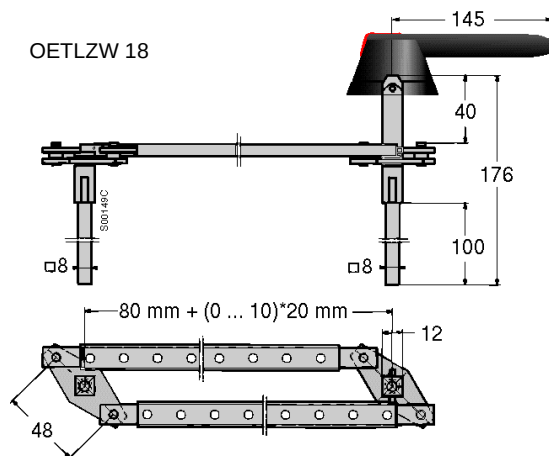
Conversion Kits for the Combination Switches

6 and 8-pole switches

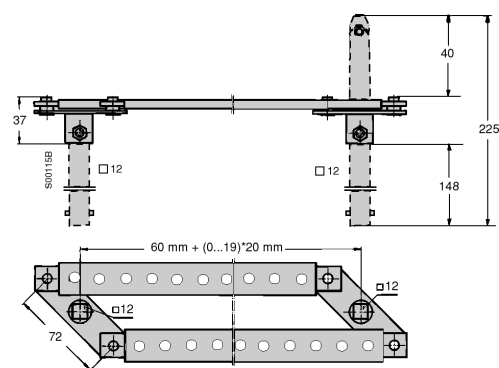
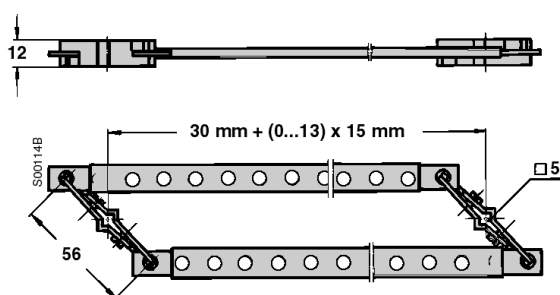
OESAZW 2



OETLZW 18

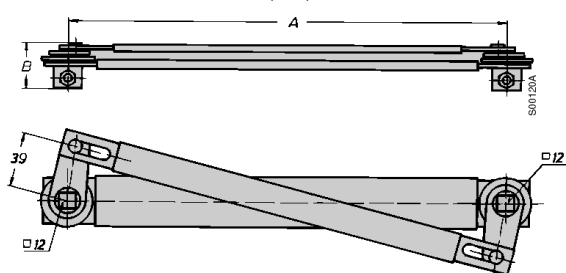


OETLZW 8



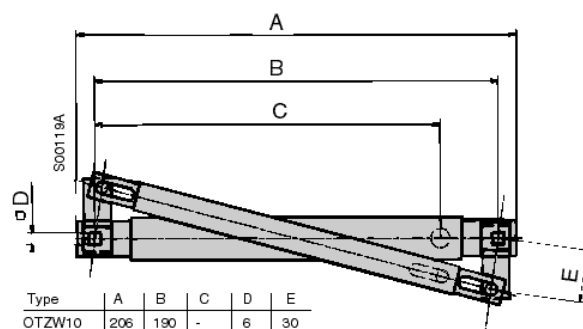
Mechanical interlock

OETLZW 3, 14, 15



OETLZW 3: A=300, B=31; OETLZW 14: A=250, B=31; OETLZW 15: A=500, B=36

OTZW 10
OETLZW 19
OETLZW 24



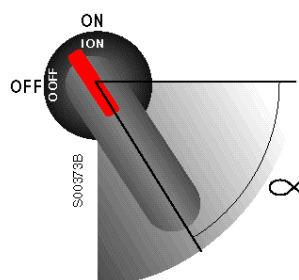
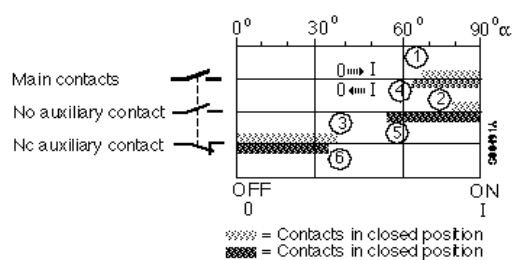
Type	A	B	C	D	E
OTZW10	206	190	-	6	30
OETLZW19	305	280	240	8	36
OETLZW24	114	100	-	5	25

SwitchLine

Contact Functions

ON and OFF-Functions of Auxiliary and Main Contacts

ON and OFF-Functions of Auxiliary and Main Contacts



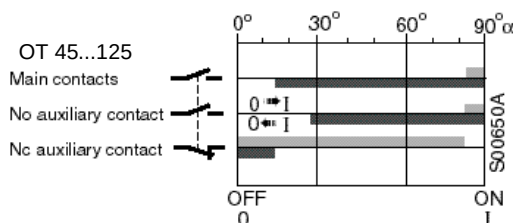
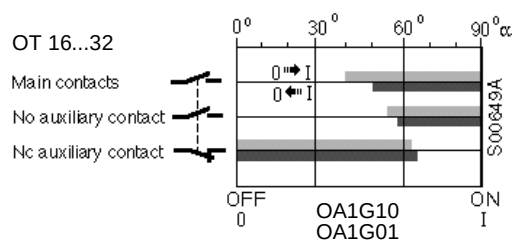
CLOSING

1. Main contacts close
2. No auxiliary contacts close
3. Nc auxiliary contacts open

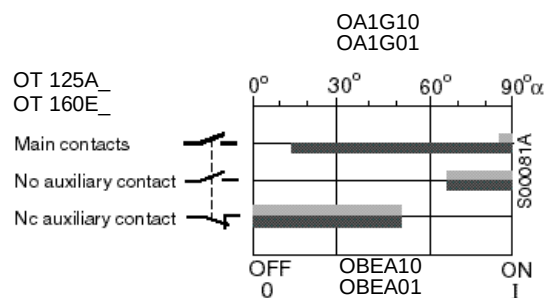
OPENING

4. Main contacts open
5. No auxiliary contacts open
6. Nc auxiliary contacts close

Load Break Switch	Auxiliary contact	Contact configuration
OT 16...125E_	OA1G10	1no
	OA1G01	1nc



Load Break Switch	Auxiliary contact	Contact configuration
OT 125A_ OT 160E_	OBEA 10+ OEZNP 1	1no
	OBEA 01+ OEZNP 1	1nc



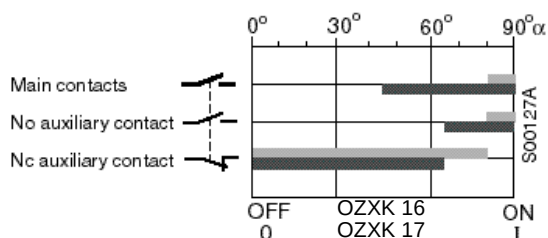
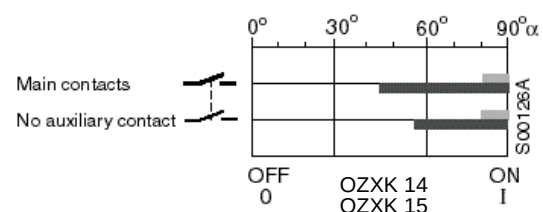
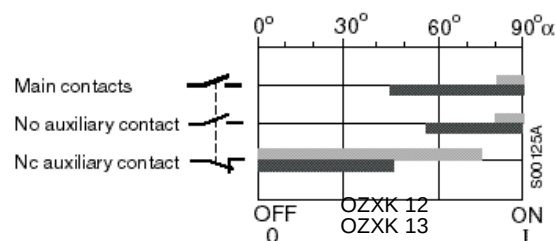
SwitchLine

Contact Functions

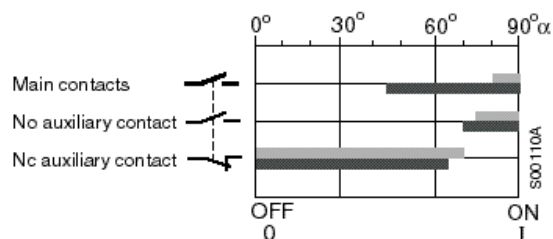
ON and OFF-Functions of Auxiliary and Main Contacts

ON and OFF-Functions of Auxiliary and Main Contacts (cont.)

Load Break Switch	Auxiliary contact	Contact configuration
OETL 200 K _~ , OETL 250 K _~ , OETL 315 K _~	OZ XK 12 OZ XK 13 OZ XK 14 OZ XK 15 OZ XK 16 OZ XK 17	1no-1nc 2no-2nc 2no 4no 4no-4nc 8no



Load Break Switch	Auxiliary contact	Contact configuration
OETL 400 _~ , OETL 630 K _~ , OETL 800 K _~	OZ XK 1 OZ XK 2 OZ XK 3 OZ XK 4 OZ XK 5 OZ XK 6	1no-1nc 2no-2nc 4no-4nc 2no 4no 8no



Load Break Switch	Auxiliary contact	Contact configuration
OETL 1000 K _~ , OETL 1250 K _~ , OETL 1600 K _~ , OETL 2500 K _~ , OETL 3150 K _~	OZ XK 1 OZ XK 2 OZ XK 3 OZ XK 4 OZ XK 5 OZ XK 6	1no-1nc 2no-2nc 4no-4nc 2no 4no 8no

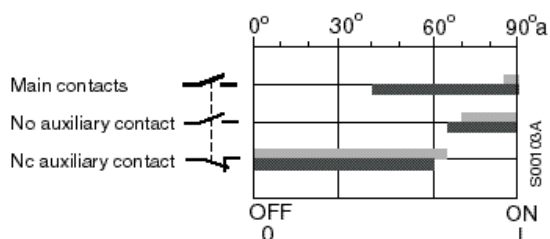




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