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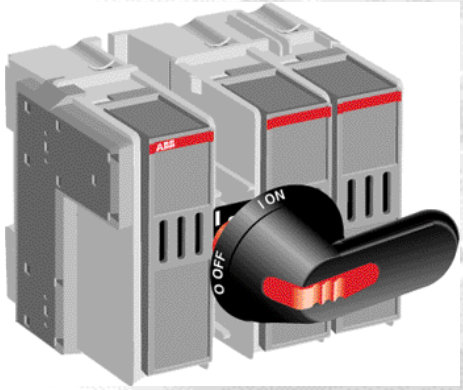
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The switches in this catalogue only represent a small selection of the full range available.

DIN, NFC, CSA and UL type switches are readily available & all switches are made in many different configurations e.g. plug-in terminals, side operation, back connection terminals, side to side terminals, please refer to our technical brochure for full details.

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PowerLine Technical Specifications

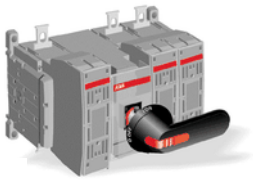


				OS Mini			
Switch Size		A		16	20	25	32
Rated insulation voltage	Pollution Degree 3		V	1000	1000	1000	1000
Dielectric strength		50 Hz 1min.	kV	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12
Rated thermal current ambient 40°c /	In open air		A/W	16/3.5	20/3.5	25/3.5	32/3.5
max. fuse power dissipation	In enclosure		A/W	16/3.5	20/3.5	25/3.5	32/3.5
	In enclosure wih solid links		A	32	32	32	32
...with minimum conductor cross section		Cu	mm²	2.5	2.5	4	6
Rated operational current, AC-21A		up to 500V	A	16	20	25	32
		690V	A	16	20	25	32
Rated operational current, AC-22A		up to 500V	A	16	20	25	32
		690V	A	16	20	25	32
Rated operational current, AC-23A		up to 500V	A	16	20	25	32
		690V	A	16	20	25	32
Rated operational current / poles in series, DC-21A		48V	A	16/2	20/2	25/2	32/2
		110-220V	A	16/2	20/2	25/2	32/2
		440V	A	16/4	20/4	25/4	32/4
Rated operational current / poles in series, DC-22A		48V	A	16/2	20/2	25/2	32/2
		110-220V	A	16/2	20/2	25/2	32/2
		440V	A	16/4	20/4	25/4	32/4
Rated operational current / poles in series, DC-23A		48V	A	16/2	20/2	25/2	32/2
		110-220V	A	16/2	20/2	25/2	32/2
		440V	A	16/4	20/4	25/4	32/4
Rated operational power, AC-23		230V	kW	4	5.5	6	8
The kW- ratings are accurate		400V	kW	7.5	10	11	14
for 3-phase 1500 R.P.M. standard		415V	kW	7.5	10	12	15
asynchronous motors.		500V	kW	9	12	14	18
		690V	kW	11	15	22	25
Rated breaking capacity, AC-23		up to 500V	A	256	256	256	256
		690V	A	256	256	256	256
Rated breaking capacity / poles in series, DC-23		up to 220V	A	128/2	128/2	128/2	128/2
		440V	A	128/4	128/4	128/4	128/4
Rated conditional short-circuit current r.m.s.		80kA, 415V	kA	9	9	9	9
and corresponding max. allowed cut-off		100kA, 500V	kA	7.5	7.5	7.5	7.5
current, peak value.		50kA, 690V	kA	6	6	6	6
Rated short time withstand current, 1s.	R.M.S. value I_{cw}		kA	1	1	1	1
Rated capacitor power		400V	kVAr	5	10	12	15
The capacitor ratings are limited by the fuse link.		415V	kVAr	5	10	12	15
		690V	kVAr	8	15	20	25
Power loss / pole	With rated current, without fuse		W	0.8	1.3	1.3	2
Mechanical endurance	Divide by two for operational cycles		Oper.	20000	20000	20000	20000
Weight without accessories	3-pole		kg.	0.7	0.7	0.7	0.7
4-pole			kg.	0.9	0.9	0.9	0.9
.							
Built in terminal size		Cu	mm²	0.5...10	0.5...10	0.5...10	0.5...10
Terminal bolt size	Metric thread diameter x length		mm	-	-	-	-
Terminal tightening torque	Counter torque required		Nm	2	2	2	2
Fuse-links bolts tightening torque			Nm	-	2	-	2
Operating torque	3-pole switch disconnector		Nm	3	3	3	3
Fuse Types, IEC 269-2	BS88			-	A1	-	A1, A2
-size / distance of fuse-link bolts			mm	-	M4/44.5	-	M4/44.5 (A1)

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OS Mini		OS						
35	40	32	50	63	100	125	160	200
1000	1000	1000	1000	1000	1000	1000	1000	1000
10	10	10	10	10	10	10	10	10
12	12	12	12	12	12	12	12	12
35/4	40/4.5	32/7.5	50/7.5	63/7.5	125/12	125/12	160/12	200/14
35/4	40/4.5	32/7.5	50/7.5	63/7.5	125/12	125/12	160/10, 135/12	180/14, 200/11
35	40	40	60	85	150	150	175	200
10	10	6	10	16	50	50	70	95
35	40	32	50	63	100	125	160	200
35	40	32	50	63	100	125	160	160
35	40	32	50	63	100	125	160	200
35	40	32	50	63	100	125	160	160
35	40	32	50	63	100	125	160	160
35	40	32	50	63	100	125	160	160
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/4	32/4	32/4	50/4	63/4	100/3	125/3	160/3	160/3
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/4	32/4	32/4	50/4	63/4	100/3	125/3	160/3	160/3
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/2	32/2	32/2	50/2	63/2	100/2	125/2	160/2	160/2
32/4	32/4	32/4	50/4	63/4	100/4	125/4	160/4	160/4
9	11	9	15	18.5	30	37	45	45
15	20	15	25	30	45	60	80	80
18.5	22	15	25	30	55	60	90	90
22	25	22	33	37	60	80	110	110
30	30	30	45	60	90	110	132	132
280	320	504	504	504	800	1000	1280	1600
280	320	504	504	504	800	1000	1280	1280
128/2	128/2	128/3	200/3	252/3	400/2	500/2	640/2	640/2
128/4	128/2	128/4	200/4	252/4	400/4	500/4	500/4	500/4
9	9	17	17	17	22	22	22	22
7.5	7.5	17	17	17	22	22	22	22
6	6	13	13	13	15	15	15	15
1	1	2.5	2.5	2.5	5	5	5	5
15	15	15	24	30	40	50	60	60
15	15	16	25	32	42	55	65	65
25	25	26	42	50	70	90	100	100
2.4	3.5	1	2.5	4	4	5	9	14
20000	20000	20000	20000	20000	20000	20000	20000	20000
0.7	0.8	1.3	1.3	1.3	1.5	1.5	1.5	1.5
0.9	1.0	1.6	1.6	1.6	1.8	1.8	1.8	1.8
0.5...10	0.5...10	2.5...25	2.5...25	2.5...25	-	-	-	-
-	-	-	-	-	M6x20 W8x25	M6x20 W8x25	M6x20 W8x25	M8x25
2	2	3.5	3.5	3.5	M6:6-9 M8:15-22	M6:6-9 M8:15-22	M6:6-9 M8:15-22	M8:15-22
-	-	3.5	-	3.5	3.5	M5:3.5 M8:5	M5:3.5 M8:5	M5:3.5 M8:5
3	3	4	4	4	8	8	8	8
-	-	A2 - A3		A2 - A3	A2 - A3	A2 - A4	A2 - A4	A2 - A4
-	-	M5/73		M5/73	M5/73	M5/73, M8/94	M5/73, M8/94	M5/73, M8/94

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PowerLine Switch Fuses

OS Mini 20 .... 32A



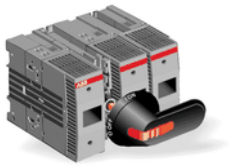
OS Mini

OS Mini 20A...32A (not including shaft & handle)

Mechanism between the poles
Fuse Standards BS88-2, IEC 60269-2-1SEC II

Rated impulse withstand voltage (Uimp) 12kV
Protected tunnel terminals, IP 20, cable size 0.5....10 mm².
Switch only shafts and handles to be ordered seperately

Rated op. Current AC-20....23 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Code
20	10/12/15	A1	3	OS20B12A1-2
20	10/12/15	A1	4[1)]	OS32B22A1N1-2
32	15/18/25	A1	3	OS32B12A1-2
32	15/18/25	A1	4[1)]	OS32B22A1N1-2
32	15/18/25	A2	3	OS32B12A2-2
32	15/18/25	A2	4[1)]	OS32B22A2N1-2



OS32B...63B_

OS 32B_ .... 63B_ (shaft & handle included)

Mechanism between the poles
Fuse Standards BS88-2, IEC 60269-2-1SEC II

Including a black handle OHB65J6 with I-0 and ON-OFF indication (IP65) and a shaft OXP6X161 (length 161mm, mounting depth H=141 .... 260mm). Protected tunnel terminals, IP20, cable size 2.5 .... 25mm².
Terminal Shroud OSS63G1 needed for maintaining IP20 rating for wire sizes <10mm².

Rated op. Current AC-20....23 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Code
32	15/22/30	A2, A3	3	OS32B12
32	15/22/30	A2, A3	4[1)]	OS32B22N1
63	30/37/60	A2, A3	3	OS63B12
63	30/37/60	A2, A3	4[1)]	OS63B12N1

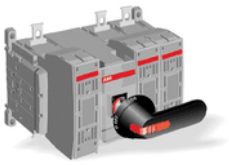
1) non fused neutral

ABB fuses now available see page 5/18

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PowerLine Switch Fuses

OS 100 .... 200A



OS100...200B12

OS 100B_ .... 200B_ (shaft & handle included)

Mechanism between the poles
Fuse Standards BS88-2, IEC 60269-2-1SEC II

Terminal Width 15mm

Including a black handle OHB65J6 with I-0 and ON-OFF indication (IP65) and a shaft OXP6X161 (length 161mm, mounting depth H=140 .... 263mm). Includes terminal bolt kit M 6x20.

Rated op. Current AC-20....23 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Code
100	55/60/90	A2, A3	3	OS100B12
100	55/60/90	A2, A3	4[1)]	OS100B22N1
125	60/80/110	A2, A3, A4[3)]	3	OS125B12
125	60/80/110	A2, A3, A4[3)]	4[1)]	OS125B12N1
160	90/110/132	A2, A3, A4[3)]	3	OS160B12
160	90/110/132	A2, A3, A4[3)]	4[1)]	OS160B22N1

Terminal Width 20mm

Including a black handle OHB65J6 with I-0 and ON-OFF indication (IP65) and a shaft OXP6X161 (length 161mm, mounting depth H=140 .... 263mm). Includes terminal bolt kit M 6x20.

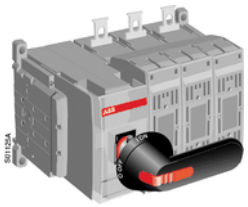
Rated op. Current AC-20....22 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Number
200[2)]	90/110/132	A2, A3, A4[3)]	3	OS200B12W
200[2)]	90/110/132	A2, A3, A4[3)]	4[1)]	OS200B22N1W

1) non fused neutral
2) 160A AC23 rated
3) Max fuse diameter 32mm

ABB fuses now available see page 5/18

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OS100...OS160B03

OS 100B_ .... 200B_ (shaft & handle included)

Mechanism at the end of the switch fuse
Fuse Standards BS88-2, IEC 60269-2-1SEC II

Terminal Width 15mm

Including a black handle OHB65J6 with I-0 and ON-OFF indication (IP65) and a shaft OXP6X161 (length 161mm, mounting depth H=140 .... 263mm). Includes terminal bolt kit M 6x20.

Rated op. Current AC-20....22 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Code
100	55/60/90	A2, A3	3	OS100B03
100	55/60/90	A2, A3	4[1)]	OS100B04N2
125	60/80/110	A2, A3, A4[3)]	3	OS125B03
125	60/80/110	A2, A3, A4[3)]	4[1)]	OS125B04N2
160	90/110/132	A2, A3, A4[3)]	3	OS160B03
160	90/110/132	A2, A3, A4[3)]	4[1)]	OS160B04N2

Terminal Width 20mm

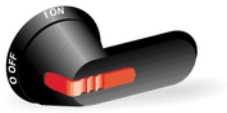
Including a black handle OHB65J6 with I-0 and ON-OFF indication (IP65) and a shaft OXP6X161 (length 161mm, mounting depth H=140 .... 263mm). Includes terminal bolt kit M 6x20.

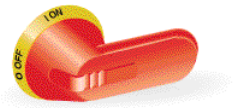
Rated op. Current AC-20....22 <690V [A]	Rated op. Power AC-23 415/500/690V [kW]	Fuse Type/ Size	Number of Poles	Order Number
200[2)]	90/110/132	A2, A3, A4[3)]	4[1)]	OS200B03W
200[2)]	90/110/132	A2, A3, A4[3)]	4[1)]	OS200B04N2W

1) non fused neutral
2) 160A AC23 rated
3) Max fuse diameter 32mm

ABB fuses now available see page 5/18

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Optional Plastic Handles

Handles for front operated switches IP 65

Padlockable with three padlocks in OFF-position, door interlock in ON-position. (defeatable to allow authorized personnel access for inspection). Door drilling Ø 53mm. The shaft has to be ordered seperately. Screw fixing from back side of handle, no screws on front ensures double protection.

For OS Mini

Black and Yellow - Red: I-O/ON-OFF. Handle Length 65mm, suitable for shaft diameter 5mm.

Colour	Weight	Shaft Daimeter (mm)	Order Code
Black	0.12	5	OHB65J5
Yellow - Red	0.12	5	OHY65J5

Black and Yellow - Red: Test/I-O/ON-OFF. Handle Length 65mm, suitable for shaft diameter 5mm.

Colour	Weight	Shaft Diameter (mm)	Order Code
Black	0.12	5	OHB65J5T
Yellow - Red	0.12	5	OHY65J5T

For OS 32 200

Black and Yellow - Red: I-O/ON-OFF. Handle Length 65mm, suitable for shaft diameter 6mm.

Colour	Weight	Shaft Diameter (mm)	Order Code
Black	0.12	6	OHB65J6[1)]
Yellow - Red	0.12	6	OHY65J6

Black and Yellow - Red: Test/I-O/ON-OFF. Handle Length 65mm, suitable for shaft diameter 6mm.

Colour	Weight	Shaft Diameter (mm)	Order Code
Black	0.12	6	OHB65J6T
Yellow - Red	0.12	6	OHY65J6T

[1)] Included as standard

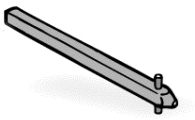
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PowerLine Switch Fuses

OS Accessories

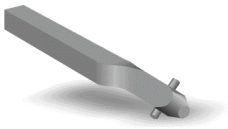
this is only a small selection of the full range of accessories, please refer to the technical catalogue.

Shafts



For OS Mini

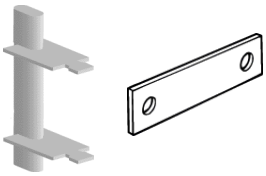
Shaft Length (mm)	Shaft Diameter (mm)	Front operated H/mm	Side Operated[2] H/mm	Weight	Order Code
150	5	135....210	154....166	0.05	OXP5X150
265	5	380....460	269....281	0.08	OXP5X265
400	5	380....460	404....416	0.12	OXP5X400
265 (twisted)	5	380....460	269....281	0.08	OXP5X265-45[1]
400 (twisted)	5	380....460	404....416	0.12	OXP5X400-45[1]



For OS 32....200

Shaft Length (mm)	Shaft Diameter (mm)	Front operated H/mm	Side Operated[2] H/mm	Weight	Order Code
150	6	130....249	210....272	0.05	OXP6X150
210	6	190....309	270....332	0.06	OXP6X210
290	6	270....389	350....412	0.08	OXP6X290
360	6	340....459	420....482	0.10	OXP6X360
430	6	410....529	490....552	0.12	OXP6X430
210 (twisted)	6	190....309	270....332	0.06	OXP6X210-45[1]
290 (twisted)	6	270....389	350....412	0.08	OXP6X290-45[1]
360 (twisted)	6	240....459	420....482	0.10	OXP6X360-45[1]

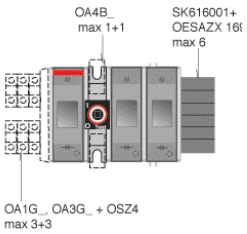
Solid Links



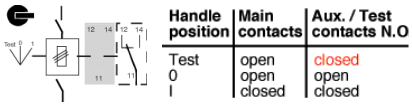
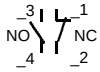
Suitable for switchFuse type	Weight [kg]	Order number
OS 20B... OS 32B A1	0.01	OESAZG98
OS 32D... OS 160D DIN 000, 00	0.08	OFAW 00
OS 32B... OS 100B, BS 88: A2...A3	0.02	OESAZG 5
OS 125B...OS 200B BS 88: A4	0.02	OESAZS 36

[1] Shaft position is rotated 45°

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Auxiliary contacts for OS Mini (IP20)

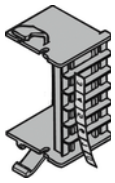
Description		Weight [kg]	Order number
Mounting to the switch mechanism, auxiliary/test contacts. Max. two change over contacts.			
Change over contacts			
		0,03	OA4B1C
Single pole contacts > 3 mm contact gap.			
1 N.O.		0,03	OA4B10
1 N.C.		0,03	OA4B01
1N.O.	(OS32...63 test indication only)	0,03	OA5G 10
1N.C.	(OS32...63 test indication only)	0,03	OA6G 01
Mounting on the side of the switch with aux.contact frame OESAZX 169, has to be ordered separately.			
1N.O.		0,03	SK 616 001-A
1N.C.		0,03	SK 616 001-B
Mounting on the side of the switch with aux.contact frame OSZ4, has to be ordered separately.			
1N.O.		0,03	OA1G 10
1N.C.		0,03	OA3G 01

Mounting frame for auxiliary contacts OS Mini



For OA1G10 and OA3G01 auxiliary contacts
Frame for auxiliary contacts and for fuse monitor. Max. 6 auxiliary contacts (type OA_G_) can be fitted- Mounting on the left side of the switch

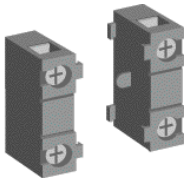
	0,06	OSZ4



For SK 616 001-_ auxiliary contacts
Not suitable for side operated switches. Max. 6 auxiliary contacts (type SK616001-) can be fitted
- Mounting on the right side of the switch

	0,06	OESAZX 169

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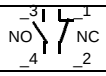


Auxiliary contacts for OS 32...200

Snap-on mounting on the side of the switch, IP20, cable cross section 0.75...2 x 2.5 mm^2.
All n.o. contacts are provided with a positive opening feature.

For OS 32...63 (BS88 fuse version):
Max. 9 auxiliary contacts (6 standard + 3 test indication) mountable onto one side. Max. 2 auxiliary contacts (2 test) mountable between the poles.No frame required. Total functions available are 6 standard + 2 test + 3 test indication auxiliary contacts, see function chart below for details.

For OS 100...200:
Max. 6 auxiliary contacts mountable on the switch left hand side (3 test + 3 test indication) and right hand side (6 standard). Max. 3 auxiliary contacts (2 test + 1 test indication) mountable between the poles.No frame required. Total functions available are 6 standard + 5 test + 4 test indication auxiliary contacts, see function chart below for details.

Description		Weight [kg]	Order number
1 N.O.		0.03	OA1G 10
1 N.C.		0.03	OA3G 01

1N.O.	(OS32...63 test indication only)	0,03	OA5G 10
1N.C.	(OS32...63 test indication only)	0,03	OA6G 01

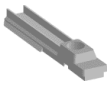
Handle Position	Main Contacts	Standard NO Contacts	Test NO Contacts	Test indication NO Contacts
Test	open	open	closed	closed
0	open	open	open	open
1	closed	closed	closed	open

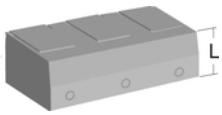
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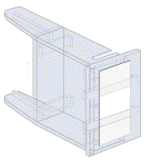
PowerLine Switch Fuses

OS Accessories

this is only a small selection of the full range of accessories, please refer to the technical catalogue.







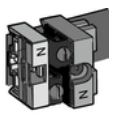


Terminal shrouds

Description	Weight [kg]	Order number
For OS 32...63		
An optional single pole shroud which is needed for maintaining IP20 rating for wire sizes <10 mm^2. A one package, size 6 pieces, is needed for full protection (3-pole switches). Snap-on fitting.		
	0.02	OSS 63G1
For OS 100..200, all shrouds provided with knock-outs		
- For up and down connections Single pole terminal shroud, IP20. Snap-on fitting. For cable lug connections, L = 67,5, transparent.		
	0.015	OSS 160T1
A compact sized three pole terminal shroud, IP20. Snap on fitting.*) Suitable for types ...03 or ...30. L = 34, grey.		
	0.04	OSS 160G3
Single pole terminal shroud, IP20. Snap-on fitting. Low type. L = 34. Transparent		
	0.015	OSS 160T1L
For OS 32...63, legend plate. Mounted instead of auxiliary contacts between poles. Prevents the access through the mechanism into switch boards. The package contains two pieces.		
		OSZ6
For OS 32...63, protection plug. Rubber plug which prevents touching of live terminal screws when the fuse cover is removed. Order quantity minimum six pieces.		
	0,02	OSS6B1

Neutral Links

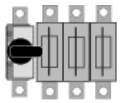




For OS Mini and OS 32...63, detachable, mounting on the side of the switch or on to the mounting plate or DIN-rail.

Max. wire	H	W [mm]	D	Mounting holes	Weight [kg]	Order number
16 mm2 Cu	39	41	40	Ø 4.2, distance 32	0.15	OESAZX 171





3+N, solid neutral

For OS 32...200, detachable, mounting on to the base plate or DIN-rail.

16 mm2 Cu	39	41	40	Ø 4.2, distance 32	0.06	OSZ 1
35 mm2 Cu	39	44	45	Ø 4.2, distance 35	0.07	OSZ 2

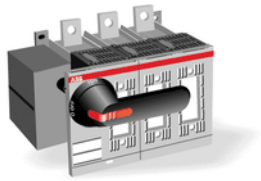
For OS 100...200_03, detachable, mounting on the top of the mechanism.
It does not increase the foot print area of a three pole switch. N-terminal distance to L1-tzerminal = identical to phase-to-phase terminal distance.

Terminal width 15 mm	0.16	OSN 160
Terminal width 20 mm	0.16	OSN 160W

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PowerLine Technical Specifications

OESA_PL



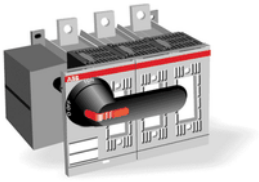
				OESA_PL					
		Switch Size	A	200	250	315	400	630	800
Rated insulation voltage	Pollution Degree 3		V	1000	1000	1000	1000	1000	1000
Dielectric strength		50 Hz 1min.	kV	10	10	10	10	10	10
Rated impulse withstand voltage			kV	12	12	12	12	12	12
Rated thermal current ambient 40°c /	In open air		A/W	200/22	250/32	315/32	400/45	630/60	800/65
max. fuse power dissipation	In enclosure		A/W	200/22	250/32	315/32	400/34	600/45	720/55
	In enclosure wih solid links		A	280	315	400	450	700	910
...with minimum conductor cross section		Cu	mm^2	95	120	185	240	2 x 185	2 x 240
Rated operational voltage AC-20 and DC-20			V	1000	1000	1000	1000	1000	1000
Rated operational current, AC-21A		up to 500V	A	200	250	315	400	630	800
		690V	A	200	250	315	400	630	800
Rated operational current, AC-22A		up to 500V	A	200	250	315	400	630	800
		690V	A	200	250	315	400	630	800
Rated operational current, AC-23A		up to 500V	A	200	250	315	400	630	720
		690V	A	200	250	315	400	630	720
Rated operational current / poles in series, DC-21A		48V	A	200/2	250/2	315/2	400/2	630/2	800/2
		110-220V	A	200/2	250/2	315/2	400/2	630/2	800/2
		440V	A	200/2	250/2	315/2	400/2	630/2	800/2
Rated operational current / poles in series, DC-22A		48V	A	200/2	250/2	315/2	400/2	630/2	800/2
		110-220V	A	200/2	250/2	315/2	400/2	630/2	800/2
		440V	A	200/2	250/2	315/2	400/2	630/2	800/2
Rated operational current / poles in series, DC-23A		48V	A	200/2	250/2	315/2	400/2	630/2	800/2
		110-220V	A	200/2	250/2	315/2	400/2	630/2	800/2
		440V	A	200/2	250/2	315/2	400/2	630/2	800/2
Rated operational power, AC-23		230V	kW	57	70	90	110	180	200
The kW- ratings are accurate		400V	kW	100	132	160	210	315	350
for 3-phase 1500 R.P.M. standard		415V	kW	110	140	180	230	340	380
asynchronous motors.		500V	kW	140	170	220	280	400	470
		690V	kW	180	230	290	330	540	600
Rated breaking capacity, AC-23		up to 500V	A	2000	2000	3200	3200	5760	5760
		690V	A	2000	2000	3200	3200	5760	5760
Rated breaking capacity / poles in series, DC-23		up to 220V	A	1000/2	1000/2	1600/2	1600/2	3200/2	3200/2
		440V	A	1000/2	1000/2	1600/2	1600/2	3200/2	3200/2
		500 - 750V	A	1000/3	1000/3	1600/3	1600/3	3200/3	3200/3
		1000V	A	-	-	-	-	3200/4	3200/4
Rated conditional short-circuit current r.m.s.		80kA, 415V	kA	40	40	40	40	75	75
and corresponding max. allowed cut-off		100kA, 500V	kA	40	40	40	40	75	75
current, peak value.		50kA, 690V	kA	35	35	35	35	60	60
Rated short time withstand current, 1s.	R.M.S. value I_{cw}		kA	8	8	10	10	16	16
Rated capacitor power	The capacitor ratings are	400V	kVAr	90	105	145	180	250	310
	limited by the fuse link.	415V	kVAr	100	115	160	200	270	340
		690V	kVAr	160	190	250	325	450	550
Power loss / pole	With rated current, without fuse		W	5	11	13	30	55	77
Mechanical endurance	Divide by two for operational cycles		Oper.	16000	16000	16000	16000	10000	10000
Weight without accessories	3-pole		kg.	6.9	6.9	7.3	7.8	15.5	17.0
	4-pole		kg.	7.9	7.9	8.3	8.8	19.0	21.0
Terminal bolt size	Metric thread diameter x length		mm	M10x40	M10x40	M10x40	M10x40	M12x40	M12x40
Terminal tightening torque	Counter torque required		Nm	30...44	30...44	30...44	30...44	50...75	50...75
Fuse-links bolts tightening torque			Nm	15	15	15	15	40	40
Operating torque	3-pole switch disconnector		Nm	22	22	22	22	28	28
Fuse Types, IEC 269-2	BS88			B1 - B2	B1 - B3	B1 - B3	B		
	-size / distance of fuse-link bolts		mm	M8/111	M8/111	M8/111	M		

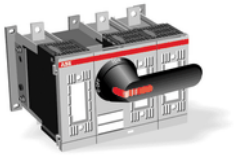
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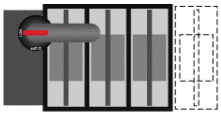
PowerLine Switch Fuses

OESA_PL, 200....800A





Mechanism at the end of the switch
OESA_B_



Mechanism between poles
OESA_BV_

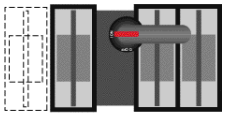


ABB fuses now available see page 5/18

BS - Pattern (shaft & handle included)

OESA 200....400 include terminal bolt kit, IP20 - fuse cover, black, IP65, OHB125J12 handle with I-O/ON-OFF indication and shaft OXP12X250, length 250mm.

OESA630...800 include terminal bolt kit, IP20 fuse cover,
black, IP65, OHB145J12 handle with I-on / on - off - indication and shaft OXP12x250, length 250mm.

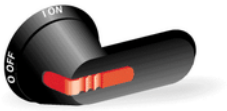
No. of Poles	Shaft Diameter (mm)	Rated operational voltage AC23	I_{th} (open) [A]	Rated operational current in category AC23A, IEC947 230V	400V	415V	500V	690V	Weight	Order Code
3	12	690	200	200	200	200	200	200	7.1	OESA200B3PL1
4[1)]	12			57	100	110	140	180	8.2	OESA200B4PL1
3	12								7.1	OESA200BV12PL1
4[1)]	12								8.2	OESA200BV22PL1
1	12								5.1	OESA200B1PL1
2	12								6.1	OESA200B2PL1
3	12	690	250	250	250	250	250	250	7.1	OESA250B3PL1
4[1)]	12			70	132	140	170	230	8.2	OESA200B4PL1
3	12	690	315	315	315	315	315	315	7.9	OESA315B3PL1
4[1)]	12			90	100	100	220	290	8.9	OESA315B4PL1
3	12								7.9	OESA315BV12PL1
4[1)]	12								8.9	OESA315BV22PL1
1	12								5.9	OESA315B1PL1
2	12								6.9	OESA315B2PL1
3	12	690	400	400	400	400	400	400	8.3	OESA400B3PL1
4[1)]	12			110	210	230	280	330	9.4	OESA400B4PL1
3	12								8.3	OESA400BV12PL1
4[1)]	12								9.4	OESA400BV22PL1
1	12								6.3	OESA400B1PL1
2	12								7.3	OESA400B2PL1
3	12	690	630	630	630	630	630	630	16.0	OESA630B3PL1
4[1)]	12			180	315	340	400	540	21.0	OESA630B4PL1
3	12								16.0	OESA630BV12PL1
4[1)]	12								21.0	OESA630BV22PL1
1	12								6.5	OESA630B1PL1
2	12								1.0	OESA630B2PL1
3	12	690	800	800	800	800	720	720	18.0	OESA800B3PL1
4[1)]	12			200	350	380	470	600	24.0	OESA800B4PL1
3	12								18.0	OESA800BV12PL1
4[1)]	12								24.0	OESA800BV22PL1
1	12								6.7	OESA800B1PL1
2	12								12.3	OESA800B2PL1

[1)] The fourth pole is provided with a solid link which can be replaced by a fuse link
• Mechanism between any poles available on request

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Optional Plastic Handles





Plastic handles, IP65, Indication 1-0/ON-OFF

For OSEA 200....800

Padlockable with 3 padlocks in OFF position, door interlock in ON position (defeatable), door drilling Ø 53mm. The shaft has to be ordered seperately.

Colour	Handle Length (mm)	Shaft Diameter (mm)	Suitable for switch size	Weight	Order Code
Black	125	12	OESA 200....400	0.16	OHB125J12[1)]
Yellow - Red	125	12	OESA 200....400	0.16	OHY125J12
Black	145	12	OESA200....800	0.17	OHB145J12[2)]
Yellow - Red	145	12	OESA200....800	0.17	OHY145J12
Black	175	12	OESA200....800	0.18	OHB175J12
Yellow - Red	175	12	OESA200....800	0.18	OHY175J12
Black	275	12	OESA200....800	0.20	OHB275J12
Yellow - Red	275	12	OESA200....800	0.20	OHY275J12



Plastic handles, IP65, Indication I - O II

For OSEA 200....800

Padlockable with 3 padlocks in O position, door interlock in I or II position (defeatable), door drilling Ø 53mm. The shaft has to be ordered seperately.

Colour	Handle Length (mm)	Shaft Diameter (mm)	Suitable for switch size	Weight	Order Code
Black	145	12	OESA 200....400	0.17	OHB145J12E011
Yellow - Red	145	12	OESA 200....400	0.17	OHY145J12E011
Black	175	12	OESA200....800	0.18	OHB175J12E011
Yellow - Red	175	12	OESA200....800	0.18	OHY175J12E011

1) included as standard OESA200...400A
2) included as standard OESA630...800A

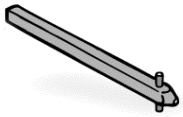
•Door interlocking in ON position means that the door can't be opened, when the handle is in the ON position. This can be defeated to allow authorised personnel access for inspection. Handles padlockable in all positions are available on request

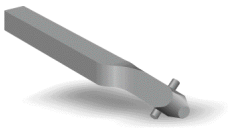
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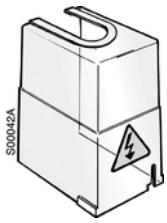
PowerLine Switch Fuses

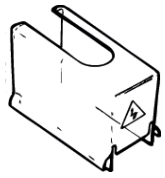
OESA_PL Accessories

this is only a small selection of the full range of accessories, please refer to the technical catalogue.









Shafts

Shaft diameter 12mm.

For OESA 200....800

Shaft Length (mm)	Shaft Diameter (mm)	H (mm)	For switch sizes	Weight	Order Code
185	12	185....275	OESA200....400	0.20	OXP12X185
250	12	230....340	OESA200....400	0.30	OXP12X250
	12	255....325	OESA630....800	0.30	OXP12X250-45[1)]
280	12	260....370	OESA200....400	0.30	OXP12X280
	12	285....355	OESA630....800	0.30	OXP12X280-45[1)]
325	12	305....415	OESA200....400	0.40	OXP12X325
	12	330....400	OESA630....400	0.40	OXP12X325-45[1)]
395	12	375....485	OESA200....400	0.50	OXP12X395
	12	400....470	OESA630....800	0.50	OXP12X395-45[1)]
465	12	445....555	OESA200....400	0.60	OXP12X465
	12	470....540	OESA630....800	0.60	OXP12X465-45[1)]
535	12	515....625	OESA200....400	0.70	OXP12X535
	12	540....610	OESA630....800	0.70	OXP12X535-45[1)]

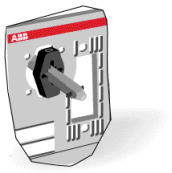
Terminal Shrouds

For switch types	Number of poles	Quantity for full protection [pcs]	Weight	Order Code
OESA 200...400	3	6	0,05	OESAZX 119
	4	8		
OESA 630...800	3	6	0,09	OESAZX 102
	4	8		

[1)] The shaft position is rotated 45 degrees

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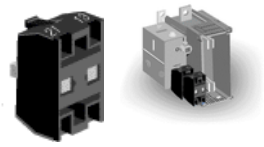
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Fuse Cover interlock kit

The interlock kit prevents the fuse cover from being opened when the switch fuse is in the ON position

features	For switch types	Weight	Order Code
	200....800 A	-	OESAZX204

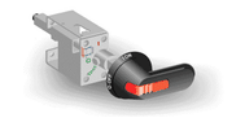


Auxiliary contact sets, IP 20

Cable cross section min. 0.5 mm^2, max. 2 x 2.5 mm^2. Insulation voltage 690 V.
Thermal current I_{th} = 10 A.

Auxiliary contact		For switch types	Weight [kg]	Order Code
13 21 / 14 22	1no+1nc	OESA 200...800	0,09	OZXK 1
13 21 33 41 / 14 22 34 42	2no+2nc	OESA 200...800	0,12	OZXK 2
13 21 33 41 53 61 73 / 14 22 34 42 54 62 74	4no+4nc	OESA 200...800	0,17	OZXK 3[1]
13 23 / 14 24	2no	OESA 200...800	0,09	OZXK 4
13 23 33 43 / 14 24 34 44	4no	OESA 200...800	0,12	OZXK 5
13 23 33 43 53 63 73 83 / 14 24 34 44 54 64 74 84	8no	OESA 200...800	0,17	OZXK 6[2]

[1] 8NO + 8NC = 2x 0ZXK3
[2] 16NO = 2x OZXK6



Test adapter kit

Mounting on the top of the switch mechanism, a test handle type OHB 125J12T/OHB145J12T has to be ordered separately

	For switch sizes	Weight	Order number
	200...800	0,8	OESAZTE 200

Auxiliary contact blocks for OESAZTE 200: (maximum 4 blocks), see a function chart.

13 / 14	1no	0,05	OBEA 10
13 / 14	1nc	0,05	OBEA 01

Handle position	Main contacts	no	nc
Test	0	I	0
0	0	0	I
I	I	I	0

Test handles to be used with test adapter kit

For switch sizes	Order number
OESA 200...400	OHB125J12T
OESA 630...800	OHB145J12T

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PowerLine Switch Fuses

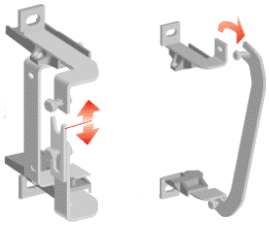
OESA_PL Accessories

this is only a small selection of the full range of accessories, please refer to the technical catalogue.



Solid Links

For switch types	Weight	Order Code
OESA 200B 400B	-	OESAZK98
OESA 630B 800B	-	OESAZL79
OESA 250D	0.15	OFAW1
OESA 400D	0.24	OFAW2
OESA 630/800D	0.28	OFAW3

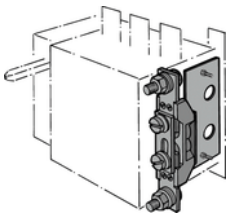


Neutral links

Detachable, mounting on the top of the switch

The three pole foot print area does not increase. N-terminal distance to L1-terminal = identical to phase-to-phase terminal distance.

I_{th}	Terminal size (WxD) [mm]; bolt size	For switch sizes	Weight [kg]	Order Code
For switch sizes OESA 200...400_3PL				
400	25x4; M10		0,53	OESAZX 282
For switch sizes OESA 630...800_3PL				
800	30x5; M12		0,72	OESAZX 283
Detachable, mounting on the side of the switch				
400		200...400 A		OESAZX 85
800		630...800A		OESAZX 88
Mounting separately to the base plate				
200			0,12	OESAZX 162
400			0.12	OESAZX 165
1000			0.12	OESAZX 160



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ABB Fuse Range

ABB Part Number	Description	Fixing Centres (mm)	MEM Part Number	GEC Part Number	Bussman Part Number
ANIT2	2A A1 fuselink	44.5	2SA2	NIT2	NITD2
ANIT4	4A A1 fuselink	44.5	4SA2	NIT4	NITD4
ANIT6	6A A1 fuselink	44.5	6SA2	NIT6	NITD6
ANIT10	10A A1 fuselink	44.5	10SA2	NIT10	NITD10
ANIT16	16A A1 fuselink	44.5	16SA2	NIT16	NITD16
ANIT20	20A A1 fuselink	44.5	20SA2	NIT20	NITD20
ANIT25	25A fuselink	44.5	25SA2	NIT25	NITD25
ANIT32	32A fuselink	44.5	32SA2	NIT32	NITD32
ATIA2	2A A2 fuselink	73	2SB3	TIA2	AA02
ATIA4	4A A2 fuselink	73	4SB3	TIA4	AA04
ATIA6	6A A2 fuselink	73	6SB3	TIA6	AA06
ATIA10	10A A2 fuselink	73	10SB3	TIA10	AA10
ATIA16	16A A2 fuselink	73	16SB3	TIA16	AA16
ATIA20	20A A2 fuselink	73	20SB3	TIA20	AA20
ATIA25	25A A2 fuselink	73	25SB3	TIA25	AA25
ATIA32	32A A2 fuselink	73	32SB3	TIA32	AA32
ATIS35	35A A3 fuselink	73	35SB4	TIS35	-
ATIS40	40A A3 fuselink	73	40SB4	TIS40	BA040
ATIS50	50A A3 fuselink	73	50SB4	TIS50	BA050
ATIS63	63A A3 fuselink	73	63SB4	TIS63	BA063
AOS80	80A fuselink	73	80SO	OS80	OSD80
AOS100	100A fuselink	73	100SO	OS100	OSD100
AOS125	125A fuselink	73	125SO	OS125	-
AOS160	160A fuselink	73	160SO	OS160	-
AOS200	200A fuselink	73	200SO	OS200	-
ATCP80	80A A4 fuselink	94	80SDS	TCP80	CD80
ATCP100	100A A4 fuselink	94	100SDS	TCP100	CD100
ATFP125	125A fuselink	94	125SD5	TFP125	DD125
ATFP160	160A fuselink	94	160SD6	TFP160	DD160
ATFP200	200A fuselink	94	200SD6	TFP200	DD200
ATC80	80A B1 fuselink	111	80SF5	TC80	-
ATC100	100A B1 fuselink	111	100SF5	TC100	-
ATF125	125A B2 fuselink	111	125SF5	TF125	-
ATF160	160A B2 fuselink	111	160SF5	TF160	-
ATF200	200A B2 fuselink	111	200SF5	TF200	-
ATKF250	250A B3 fuselink	111	250SF7	TKF250	ED250
ATKF315	315A B3 fuselink	111	315SF7	TKF315	ED315
ATMF355	355A B4 fuselink	111	355SF8	TMF355	ED355
ATMF400	400A B4 fuselink	111	400SF8	TMF400	ED400
ATKM250	250A fuselink	133	250SG7	TKM250	EFS250
ATKM315	315A fuselink	133	315SG7	TKM315	EFS315
ATM355	355A C1 fuselink	133/184	355SH8	TM355	EF355
ATM400	400A C1 fuselink	133/184	400SH8	TM400	EF400
ATTM450	450A C2 fuselink	133/184	450SH9	TTM450	FF450
ATTM500	500A C2 fuselink	133/184	500SH9	TTM500	FF500
ATTM560	560A C2 fuselink	133/184	560SH9	TTM560	FF560
ATTM630	630A C2 fuselink	133/184	630SH9	TTM630	FF630
ATLM710	710A C3 fuselink	133/184	710SH10	TLM710	GF710
ATLM800	800A C3 fuselink	133/184	800SH10	TLM800	GF800

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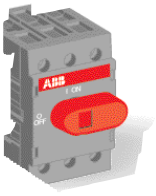
ABB Fuse Range

ABB Part Number	Description	Fixing Centres (mm)	MEM Part Number	GEC Part Number	Bussman Part Number
ATMF	450A fuselink	111	450SF9	TMF450	-
ATMF	500A fuselink	111	500SF9	TMF500	-
ATMF	560A fuselink	111	560SF9	TMF560	-
ATMF	630A fuselink	111	630SF9	TMF630	-
ANS2	2A F1 fuselink	60 (overall length)	2SN2	NS2	NSD2
ANS4	4A F1 fuselink	60 (overall length)	4SN2	NS4	NSD4
ANS6	6A F1 fuselink	60 (overall length)	6SN2	NS6	NSD6
ANS10	10A F1 fuselink	60 (overall length)	10SN2	NS10	NSD10
ANS16	16A F1 fuselink	60 (overall length)	16SN2	NS16	NSD16
ANS20	20A F1 fuselink	60 (overall length)	20SN2	NS20	NSD20
ANS25	25A F1 fuselink	60 (overall length)	25SN2	NS25	NSD25
ANS32	32A F1 fuselink	60 (overall length)	32SN2	NS32	NSD32
AES20	20A F2 fuselink	68 (overall length)	20SP	ES20	ESD20
AES25	25A F2 fuselink	68 (overall length)	25SP	ES25	ESD25
AES32	32A F2 fuselink	68 (overall length)	32SP	ES32	ESD32
AES40	40A F2 fuselink	68 (overall length)	40SP	ES40	ESD40
AES50	50A F2 fuselink	68 (overall length)	50SP	ES50	ESD50
AES63	63A F2 fuselink	68 (overall length)	63SP	ES63	ESD63
ATBC2	2A fuselink	111	2SF3	TBC2	AD2
ATBC4	4A fuselink	111	4SF3	TBC4	AD4
ATBC6	6A fuselink	111	6SF3	TBC6	AD65
ATBC10	10A fuselink	111	10SF3	TBC10	AD10
ATBC16	16A fuselink	111	16SF3	TBC16	AD16
ATBC20	20A fuselink	111	20SF3	TBC20	AD20
ATBC25	25A fuselink	111	25SF3	TBC25	AD25
ATBC32	32A fuselink	111	32SF3	TBC32	AD32
ATBC40	40A B1 fuselink	111	40SF3	TBC40	BD40
ATBC50	50A B1 fuselink	111	50SF3	TBC50	BD50
ATBC63	63A B1 fuselink	111	63SF3	TBC63	BD63
ATIA32M40	32A A2 fuselink	73	32SB3M40	TIA32M40	AAO32M40
ATIA32M50	32A A2 fuselink	73	32SB3M50	TIA32M50	AAO32M50
ATIA32M63	32A A2 fuselink	73	32SB3M63	TIA32M63	AAO32M63
ATIS63M80	63A A3 fuselink	73	63SB4M80	TIS63M80	BAO63M80
ATIS63M100	63A A3 fuselink	73	63B4M100	TIS63M100	BAO63M100
ATCP100M125	100A A4 fuselink	94	100SD5M125	TCP100M125	CD100M125
ATCP100M160	100A A4 fuselink	94	100SD5M160	TCP100M160	CD100M160
ATCP100M200	100A A4 fuselink	94	100SD5M200	TCP100M200	CD100M160
ATC100M125	100A B1 fuselink	111	100SF5M125	TC100M125	CEO100M125
ATC100M160	100A B1 fuselink	111	100SF5M160	TC100M160	CEO100M160
ATC100M200	100A B1 fuselink	111	100SF5M200	TC100M200	CEO100M200
ATF200M250	200A B2 fuselink	111	200SF6M250	TF200M250	DD200M250
ATF200M315	200A B2 fuselink	111	200SF6M315	TF200M315	DD200M315
ATKF315M400	315A B3 fuselink	111	315SF7M400	TKF315M400	ED315M400
ATMF400M500	400A B4 fuselink	111	400SF8M500	TMF400M500	ED400M500

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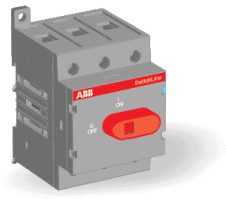
SwitchLine Technical Specifications

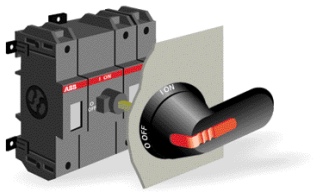


				OT16_	OT25_	OT32_
		Size	**A**	**16**	**25**	**40**
Rated insulation voltage and rated						
operational voltage AC20/DC20	Pollution Degree		V	750	750	750
Dielectric strength		50 Hz 1min.	kV	6	6	6
Rated Withstand voltage			kV	8	8	8
Rated thermal current and rated						
operational current AC20/DC20	/ ambient 40°c	In open air	A	25	32	40
	/ ambient 40°c	In enclosure	A	25	32	40
	/ ambient 60°c	In enclosure	A	20	25	32
...with minimum conductor cross section		Cu	mm^2	4	6	10
Rated operational current, AC-21A		up to 415V	A	16	25	40
		440 - 690V	A	16	25	40
Rated operational current, AC-22A		up to 415V	A	16	25	40
		440 - 500V	A	16	25	40
		690V	A	16	25	40
Rated operational current, AC-23A		up to 415V	A	16	20	23
		440V	A	16	20	23
		500V	A	16	20	23
		690V	A	10	11	12
Rated operational current / poles in series, DC-21A		up to 48V	A	16/1	25/1	32/1
		110V	A	16/2	25/2	32/2
		220V	A	16/3	25/3	32/3
		500V	A	16/4	16/4	16/4
		750V	A	16/8	25/8	32/8
Rated operational current / poles in series, DC-22A		up to 48V	A	16/1	25/1	32/1
		110V	A	16/2	25/2	32/2
		220V	A	16/3	25/3	32/4
		750V	A	16/8	25/8	25/8
Rated operational current / poles in series, DC-23A		up to 48V	A	16/1	25/1	32/1
		110V	A	16/2	25/2	32/2
		220V	A	16/4	25/4	32/4
		440V	A	10/4	10/4	10/4
		750V	A	16/8	16/8	16/8
Rated operational power, AC-23A		220-240V	kW	3	4	5.5
The kW- ratings are accurate		400-415V	kW	7.5	9	11
for 3-phase 1500 R.P.M. standard		440V	kW	7.5	9	11
asynchronous motors.		500V	kW	7.5	9	11
		690V	kW	7.5	9	11
Rated breaking capacity, AC-23A		up to 415V	A	128	160	184
		440V	A	128	160	184
		500V	A	128	160	184
		690V	A	80	88	96
Rated breaking capacity / poles in series, DC-23		up to 48V	A	64/1	100/1	128/1
		110V	A	64/2	100/2	128/2
		220V	A	64/3	100/4	128/4
Rated conditional short-circuit current r.m.s.		10 kA	kA	-	-	-
and corresponding cut-off current of the fuse		400 V		-	-	-
in a single-phase test according IEC269		10kA	kA	-	-	-
		690 V		-	-	-
IEC269 OFAA/OFAM- fuse size		50 kA	kA	6.5	6.5	6.5
		415/500 V		25/20	32/25	40/32
		50 kA	kA	4	4	4
		690 V		20/16	25/16	32/16
		100 kA	kA	-	-	-
		500V		-	-	-
Rated short time withstand current	R.M.S. value I_{cw}	690V, 1s	kA	0.5	0.5	0.5
Rated short circuit making capacity	Peak value I_{cm}	690/500V	kA	0.705	0.705	0.705
Rated capacitor power						
The capacitor ratings are limited by the fuse link.		400-415V	kVAr	5	10	15
Power loss / pole	at rated operational current		W	0.3	0.6	1.6
Mechanical Endurance	divided by two for operational cycles		Oper.	20000	20000	20000
Weight without accessories	3-pole		kg.	0.11	0.11	0.11
	4-pole		kg.	0.15	0.15	0.15
Cable size	Cu-wire suitable for terminal clamps		AWG	18-8	18-8	18-8
			mm^2	0.75-10	0.75-10	0.75-10
Terminal tightening torque	Counter torque required		Nm	0.8	0.8	0.8
Operating torque	3-pole switch disconnector		Nm	1		

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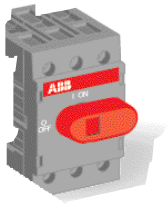


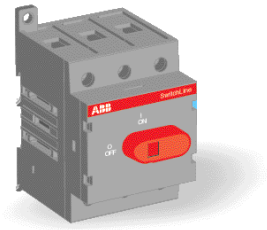


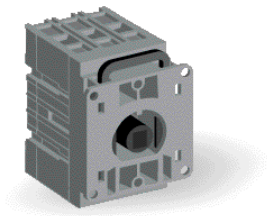
OT45_	OT63_	OT80_	OT100_	OT125E_	OT125A_	OT160E_
63	**80**	**80**	**100**	**125**	**125**	**160**
750	750	750	750	750	750	750
6	6	6	6	6	10	10
8	8	8	8	8	12	12
63	80	100	115	125	135	200
63	80	80	115	125	135	160
50	63	80	80	100	110	125
16	25	25	35	50	50	70
63	80	80	100	125	125	200
63	80	80	100	125	125	160
63	80	80	100	125	125	200
63	80	80	100	125	125	160
63	80	80	100	125	125	160
45	75	55	80	90	105	135
45	65	51	65	78	90	125
45	58	32	60	70	70	125
20	20	20	40	50	50	80
63/1	80/1	80/1	100/1	125/1	125/1	160/1
63/2	80/2	80/2	100/2	125/2	125/1	160/1
63/4	80/4	80/4	100/4	125/4	125/2	160/2
16/4	16/4	20/4	-	-	125/3	160/3
-	-	-	-	-	125/4	160/4
63/1	80/1	80/1	100/1	125/1	125/1	160/1
63/2	80/2	80/2	100/2	125/2	125/1	160/1
45/4	45/4	45/4	63/4	80/4	125/2	160/2
-	-	-	-	-	125/3	160/3
63/1	80/1	80/1	100/1	125/1	125/1	160/1
63/2	80/2	80/2	100/2	125/2	125/1	160/1
45/4	45/4	45/4	63/4	63/4	125/2	160/2
10/4	10/4	10/4	-	-	125/3	160/3
-	-	-	-	-	125/3	160/3
11	22	18.5	22	22	30	45
22	37	30	37	45	55	75
22	37	30	37	45	55	75
22	37	18.5	37	45	55	75
15	18.5	15	37	45	55	75
360	640	440	640	720	840	1080
360	448	408	520	624	720	1000
360	454	256	480	560	560	1000
160	160	160	320	400	400	640
180/1	252/1	320/1	400/1	500/1	500/1	640/1
180/2	252/2	320/2	400/2	500/2	500/1	640/1
180/4	252/4	320/4	252/4	252/4	500/2	640/2
-	-	-	8.2	8.2	-	-
-	-	-	100/80	125/100	-	-
-	-	-	8.2	8.2	-	-
-	-	-	100/80	125/100	-	-
8.3	11	11	18	18	25	25
63/50	80/63	80/63	80/63	100/80	200/200	200/200
6.7	11	11	12	12	25	25
50/32	80/63	80/63	80/63	100/80	200/200	200/250
-	14	-	-	-	30	30
-	80/63	-	-	-	200/200	200/250
1	1.5	1.5	2.5	2.5	7	7
1.4	2.1	2.1	3.6	3.6	12	12
25	30	30	40	50	-	-
2.8	4.5	6.4	4.0	6.3	4.7	6.5
20000	20000	20000	20000	20000	20000	20000
0.27	0.27	0.32	0.36	0.36	1.1	1.1
0.35	0.35	0.40	0.5	0.5	1.3	1.3
14-4	14-4	14-0	14-4	8-00	-	-
1.5-35	1.5-35	2-50	10-70	10-70	10-70	10-70
2	2	6	2.5	6	6	6
1.2	1.2	1.2	2	2		

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Base and DIN-rail mounting switch disconnectors

(switches include knob handle)

OT 32E, OT 45E and OT63E switch disconnectors with improved ratings
Including protected terminal clamps, IP20. Handle and shaft have to be ordered seperately.

No. of Poles	**AC20 rating [A]**	Cable Cross Section mm²	Operational Currents AC22/AC23 415V	Shaft Diameter mm	Weight kg	Order Code
3	**25**	0.75....10	16/16	5	0.11	OT16E3
4	**25**	0.75....10	16/16	5	0.14	OT16E4
3	**32**	0.75....10	25/20	5	0.11	OT25E3
4	**32**	0.75....10	25/20	5	0.14	OT25E4
3	**40**	0.75....10	40/23	5	0.11	OT32E3
4	**40**	0.75....10	40/23	5	0.14	OT32E4
3	**63**	1.5....35	63/45	5	0.27	OT45E3
4	**63**	1.5....35	63/45	5	0.30	OT45E4
3	**80**	1.5....35	80/75	5	0.27	OT63E3
4	**80**	1.5....35	80/75	5	0.30	OT63E4
3	**100**	1.5....50[4)]	80/55	5	0.32	OT80E3
4	**100**	1.5....50[4)]	80/55	5	0.40	OT80E4
3	**115**	10....70	100/80	5	0.36	OT100E3
4	**115**	10....70	100/80	5	0.50	OT100E4
3	**125**	10....70	125/90	5	0.36	OT125E3
4	**125**	10....70	125/90	5	0.50	OT125E4

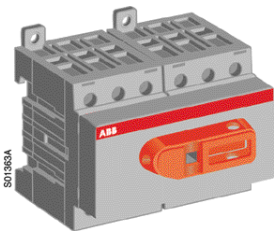
Door Mounting Switch disconnectors

Including protected terminal clamps, IP20. The handle has to be ordered seperately.

No. of Poles	**AC20 rating [A]**	Cable Cross Section mm²	Operational Currents AC22/AC23 415V	Shaft Diameter mm	Weight kg	Order Code
3	**25**	0.75....10	16/16	5	0.13	OT16ET3
4	**25**	0.75....10	16/16	5	0.16	OT16ET4
3	**32**	0.75....10	25/20	5	0.13	OT25ET3
4	**32**	0.75....10	25/20	5	0.16	OT25ET4
3	**40**	0.75....10	40/23	5	0.13	OT32ET3
4	**40**	0.75....10	40/23	5	0.16	OT32ET4
3	**63**	1.5....35	63/45	5	0.28	OT45ET3
4	**63**	1.5....35	63/45	5	0.35	OT45ET4
3	**80**	1.5....35	80/75	5	0.28	OT63ET3
4	**80**	1.5....35	80/75	5	0.35	OT63ET4
3	**115**	10....70	100/80	5	0.40	OT100ET3
4	**115**	10....70	100/80	5	0.54	OT100ET4
3	**125**	10....70	125/90	5	0.40	OT125ET3
4	**125**	10....70	125/90	5	0.54	OT125ET4

optional shafts & handles for OT16...125 see page ?/??

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Change-over switches, I-O-II[1)]

(switches include knob handle)

No. of Poles	**Rated Current up to 415V AC21....22 [A]**	AC23A [A]/(kW)	Cable Cross Section mm	Order Code
3	16	16 / 7.5	0.75....10	OT16E3C
3	25	20 / 9	0.75....10	OT25E3C
3	40	23 / 11	0.75....10	OT32E3C
3	63	45 / 22	1.5....35	OT45E3C
3	80	75 / 37	1.5....35	OT63E3C
3	100	80 / 37	10....70	OT100E3C
3	125	90 / 46	10....70	OT125E3C
4	16	16 / 7.5	0.75....10	OT16E4C
4	25	20 / 9	0.75....10	OT25E4C
4	40	23 / 11	0.75....10	OT40E4C
4	63	45 / 22	1.5....35	OT63E4C
4	80	75 / 37	1.5....35	OT80E4C
4	100	80 / 37	10....70	OT100E4C
4	125	90 / 46	10....70	OT125E4C

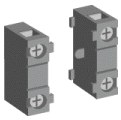
6-pole and 8-pole switch disconnectors

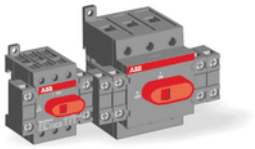
Including protected terminal clamps, IP20. Handle and shaft have to be ordered seperately

No. of Poles	**AC20 Rating [A]**	Operational Currents AC22/AC23 415V [A/A]	Cable Cross Section (mm)	Suitable Shaft	Order Code
6	25	16/16	0.75...10	5mm	OT16E6
6	32	25/20	0.75...10	5mm	OT25E6
6	40	40/23	0.75...10	5mm	OT32E6
6	63	63/45	1.5...35	6mm	OT45E6
6	80	80/75	1.5...35	6mm	OT63E6
6	100	80/55	2.5...50	6mm	OT80E6
6	115	100/80	10...70	6mm	OT100E6
6	125	125/90	10...70	6mm	OT125E6
8	25	16/16	0.75...10	5mm	OT16E8
8	32	25/20	0.75...10	5mm	OT25E8
8	40	40/23	0.75...10	5mm	OT32E8
8	63	63/45	1.5...35	6mm	OT45E8
8	80	80/75	1.5...35	6mm	OT63E8
8	100	80/55	2.5...50	6mm	OT80E8
8	115	100/80	10...70	6mm	OT100E8
8	125	125/90	10...70	6mm	OT125E8

[1)] Handle and shaft have to be ordered seperately

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Auxiliary Contacts

Snap-on mounting to the left and right side ot the switches, IP20. Types OA1G_ are early break contacts.

Contact Functions	Mounting side	Max. Quantity	Order Code
1NO	right	2	OA 1 G10
1NC	left	2	OA 1 G01
1NO+NC	either	4	OA 2 G11 [1) 2)]

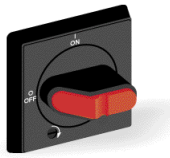
[1)] for base mounted switches only. Max. 4NO + 4NC
[2)] will not fit 4th pole on OT_E4 and ET switches



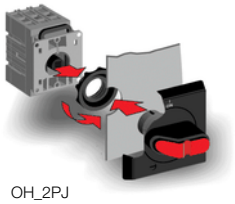
Handles for base and DIN-rail mounted switches

Indication I-O and ON-OFF, shaft (diameter 5mm) has to be ordered seperately, door drilling 22.5mm.
Selector type handles

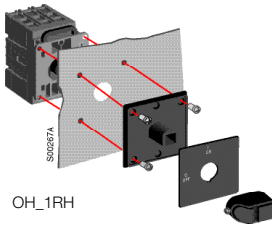
Description	Order Code
Handle Knob, suitable for OT16....125E	
Black	OHB 3
IP54 handles, suitable for OT16....80E	
Black	OHB1AH
Yellow - Red	OHY1AH
IP54 handles, door interlock in ON position, suitable for OT16....80E	
Black	OHB1AH1
Yellow - Red	OHY1AH1
IP54 handles, padlockable with one padlock with bail diameter 5....6.3mm, suitable for OT16....125E	
Black	OHB3AH
Yellow - Red	OHY3AH
IP54 handles, padlockable with one padlock with bail diameter 5....6.3mm, door interlock in ON position, suitable for OT16....125E	
Black	OHB3AH1
Yellow - Red	OHY3AH1
IP54 handles, padlockable with max. three padlocks with bail diameter 5....8mm, door interlock in ON position, defeatable, suitable for OT16....125E	
Black	OHB2AJ
Yellow - Red	OHY2AJ
IP54 handles, padlockable with max. three padlocks with bail diameter 5....8mm, door interlock in ON position, suitable for OT16....125E	
Black	OHB2AJ1
Yellow - Red	OHY2AJ1



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OH_2PJ



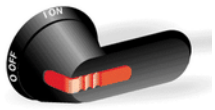
OH_1RH

Handles for door mounted switches

Indication I-O and ON-OFF, no seperate shaft needed. Snap-on mounting, door drilling 22.5mm. Selector handles.

Snap on Mounting No padlocking, suitable for OT16...32ET, IP54	Order Code
Black	OHB 1PH
Yellow - Red	OHY 1PH
Padlockable with one padlock, suitable for OT16...32ET, IP54	
Black	OHB 3PH
Yellow - Red	OHY 3PH
Padlockable with max. 3 padlocks, suitable for OT16...32ET, IP65	
Black	OHB 2PJ
Yellow - Red	OHY 2PJ

Screw Mounting	
No padlocking, suitable for OT16...63ET, IP54, hole distance 36mm	
Black	OHB 1RH
Yellow - Red	OHY 1RH
Padlockable with one padlock, suitable for OT16...63ET, IP54, hole distance 36mm	
Black	OHB 3RH
Yellow - Red	OHY 3RH
Padlockable with max. 3 padlocks, suitable for OT16...125ET, IP65, hole distance 36mm and 48mm	
Black	OHB 2RJ
Yellow - Red	OHY 2RJ





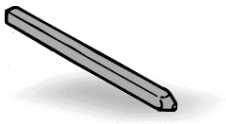
Pistol type handles

(OT16E...125E)

Padlockable with max. 3 padlocks with bail diameter 5....10mm in OFF position, door interlock in ON position, defeatable. Indication in types OHB_ and OHY_: I-O/ON/OFF.

Description	Shaft Diameter (mm)	Handle Length	Order Code
Black	5	45mm	OHB45J5
Yellow - Red	5	45mm	OHY45J5
Black	5	65mm	OHB65J5
Yellow - Red	5	65mm	OHY65J5

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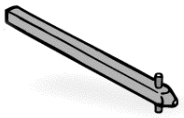
Extended Shafts

(OT16E...125E)

Shaft diameter 5mm.

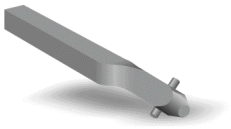
For selector type handles

Shaft Length (mm)	Diameter (mm)	Order Code
85	5	OXS5x85
105	5	OXS5x105
130	5	OXS5x130
180	5	OXS5x180
250	5	OXS5x250
330	5	OXS5x330



For pistol type handles

Shaft Length (mm)	Diameter (mm)	Order Code
150	5	OXP5x150
170	5	OXP5x170
265	5	OXP5x265
400	5	OXP5x400

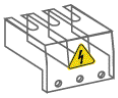


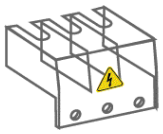
Twisted Shaft - shaft rotated 45°

Shaft Length (mm)	Diameter (mm)	Order Code
150	5	OXP5x150-45
170	5	OXP5x170-45
265	5	OXP5x265-45
400	5	OXP5x400-45

Terminal Shrouds

Snap-on mounting to the switches, IP20. The full shrouding of a 3-pole change over switch is achieved with four 3-pole shrouds.







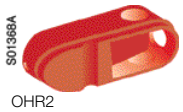
For 3-pole switches	Order Code
OT16....32	OTS 32T3
OT45....63	OTS 63T3
OT80	OTS 80T3
OT125	OTS 125T3

For 4-pole switches	
OTPS 32EP	OTS 32T1
OTPS 63EP	OTS 63T1
OTPS 80EP	OTS 80T1
OTPS 125EP	OTS 125T1

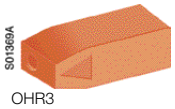
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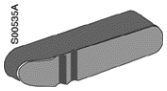




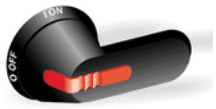
OHR2



OHR3



OHB9



4th Poles

Snap on mounting to the left or right side of the 3-pole switches, IP20.

Switch Type	Rated Current/rated power up to 415V AC21....22A (A)	AC23A (A)	Order Code
OT16....32 E3	40	23	OTPS32EP
OT45....63 E3	80	75	OTPS63EP
OT80 E3	80	75	OTPS80EP
OT125 E3	125	90	OTPS125EP

Internal Handles

Internal handles, IP20, no shaft needed

Switch Type	Colour	Padlockable	Order Code
OT16....80	Black	Yes	OHB2
	Red	Yes	OHR2
	Black	No	OHB3
	Red	No	OHR3
OT100....125	Black	No	OHB9
	Red	No	OHR9

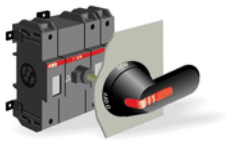
External pistol type handles
The handles are equipped with door interlock function in both ON position and when padlocked.
Padlocking possibe in OFF position with three padlocks, bail dia Ø 5....10mm. Indiaction I-O-II.

Switch Type	Colour	Order Code
OT16....125	Black	OHB65J5EO11
	Yellow - Red	OHY65J5EO11

Parallel connection terminal

Switch types	Cable size/(mm²)	Order Code
OT100....125	2 x Al/Cu 6....50	OZXT 3
OT16...32E3C		OZXA33
OT16...32E4C		OZXA32

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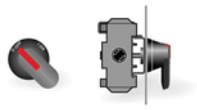


Front Operated Switch Disconnectors

Including the handle OHB65J6, IP65 and shaft OXP6x210, length 210mm, diameter 6mm.

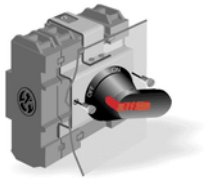
Number of Poles	AC20 rating	Rated operating currents AC22A/AC23A = 400V	Shaft Diameter	Incl. handle and shaft	Weight (kg)	Order Code
3	135	125/105	6	✓	1.0	OT125A3
4	135	125/105	6	✓	1.3	OT125A4
3	135	125/105	6	x	1.0	OT125A3-2
3	200[1)]	200[1)]/135	6	✓	1.0	OT160E3
4	200[1)]	200[1)]/135	6	✓	1.3	OT160E4
3	200[1)]	200[1)]/135	6	x	1.0	OT160E3-2

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



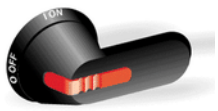
Door mounted switch disconnectors

For mounting into the door or side wall. Includes handle OHB65J6, IP65, and shaftOXP6x130, length 130mm, diameter 6mm. Twisted shafts are shown on page #.



Number of Poles	I_{th} (open)	Rated operating currents AC22A/AC23A = 400V	Incl. handle and shaft	Weight (kg)	Order Code
3	200	200[1)]/135	✓	1.0	OT160ET3
4	200	200[1)]/135	✓	1.3	OT160ET4

Optional plastic handles (OT125A...160E)



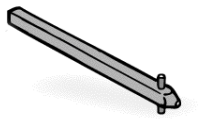
OH_ handles: IP65, padlockable with 3 padlocks in OFF position, door interlock in ON position (defeatable to allow authorized personnel access for inspection).
The shaft has to be ordered seperately. Screw fixing from back side of handle. No screws in front ensures double insulation.



Colour	Handle Length (mm)	Shaft diameter (mm)	Suitable for switch sizes	Weight (kg)	Order Code
Black	65	6		0.12	OHB65J6
Yellow - Red	65	6	OT125	0.12	OHY65J6
Black	80	6		0.12	OHB80J6
Yellow - Red	80	6		0.12	OHY80J6

Extended Shafts (OT125A...160E)

(Twisted shafts available)



Shaft diameter 6mm. Suitable for handles OH_J6_.

For OT125A and 160

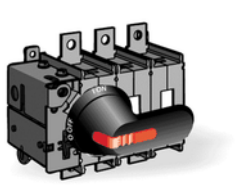
Shaft Length (mm)	H (mm)	Weight	Order Code
150	125....155	0.2	OXP6x150
210	185....215	0.3	OXP6x210
290	265....295	0.3	OXP6x290
360	335....365	0.4	OXP6x360
430	405....435	0.6	OXP6x430

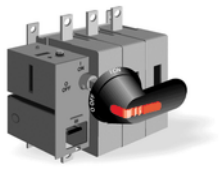
Notes

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SwitchLine Technical Specification

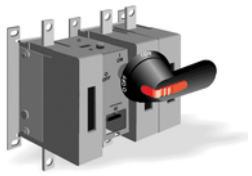


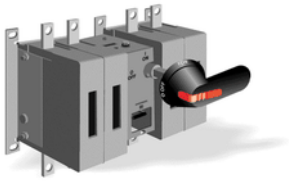


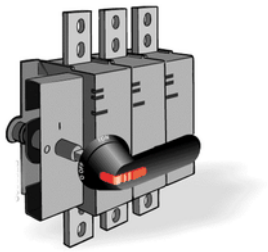
		Size	A	OETL200_	OETL250_	OETL315_
				200	250	315
Rated insulation voltage and rated operational voltage AC20/DC20	Pollution Degree		V	1000	1000	1000
Dielectric strength		50 Hz 1min.	kV	10	10	10
Rated Withstand voltage			kV	12	12	12
Rated thermal current and rated operational current AC20/DC20/ ambient 40°c		In open air	A	250	315	350
/ ambient 40°c		In enclosure	A	200	270	315
/ ambient 60°c		In enclosure	A	175	220	260
...with minimum conductor cross section		Cu	mm²	95	120	185
Rated operational current, AC-21A		up to 415V	A	200	250	315
		440 - 690V	A	200	250	315
		1000V	A	200	250	315
Rated operational current, AC-22A		up to 415V	A	200	250	315
		440 - 500V	A	200	250	315
		690V	A	200	250	315
		1000V	A	-	200	250
Rated operational current, AC-23A		up to 415V	A	200	250	315
		440V	A	200	250	315
		500V	A	200	250	315
		690V	A	200	250	315
		1000V	A	125	125	125
Rated operational current / poles in series, DC-21A		up to 48V	A	200/2	250/2	315/2
		110V	A	200/2	250/2	315/2
		220V	A	200/2	250/2	315/2
		440V	A	200/3	250/3	315/3
		750V	A	200/4	250/4	315/4
Rated operational current / poles in series, DC-22A		up to 48V	A	200/2	250/2	315/2
		110V	A	200/2	250/2	315/2
		220V	A	200/2	250/2	315/2
		440V	A	200/3	250/3	315/3
		750V	A	200/4	250/4	315/4
Rated operational current / poles in series, DC-23A		up to 48V	A	200/2	250/2	315/2
		110V	A	200/2	250/2	315/2
		220V	A	200/2	250/2	315/2
		440V	A	200/3	250/3	315/3
		750V	A	200/4	250/4	315/4
Rated operational power, AC-23A		220-240V	kW	55	75	90
The kW- ratings are accurate		400-415V	kW	110	132	160
for 3-phase 1500 R.P.M. standard		440V	kW	110	132	160
asynchronous motors.		500V	kW	132	160	200
		690V	kW	170	200	250
Rated breaking capacity, AC-23A		up to 415V	A	1600	2000	2520
		440V	A	1600	2000	2520
		500V	A	1600	2000	2520
		690V	A	1600	2000	2520
Rated breaking capacity / poles in series, DC-23		up to 48V	A	800/2	1000/2	1260/2
		110V	A	800/2	1000/2	1260/2
		220V	A	800/2	1000/2	1260/2
		440V	A	800/3	1000/3	1260/3
		750V	A	800/4	1000/4	1260/4
Rated conditional short-circuit current r.m.s.		690/500V	A	-	-	-
Rated conditional short-circuit current r.m.s.		50 kA	kA	35	35	35
and corresponding cut-off current of the fuse		415 V				
in a single-phase test according IEC269		50kA	kA	35	35	35
		500 V				
		50 kA	kA	35	35	35
		690 V				
		100 kA	kA	45	45	45
	IEC269 OFAA/OFAM- fuse size	500 V		400	400	400
Rated short time withstand current	R.M.S. value I_{cw}	690V 0.5s	kA	17.5	17.5	17.5
		690V 0.25s	kA	-	-	-
		690V 1s	kA	8	8	8
		690/500V	kA	35	35	35
Rated capacitor power	The capacitor ratings are	400V	kVAr	90	110	140
	limited by the fuse link.	415V	kVAr	90	110	140
Power loss / pole	At rated opertional current		W	3.5	5.5	8.5
Mechanical endurance	Divide by two for operational cycles		Oper.	16000	16000	16000
Weight without accessories	3-pole		kg.	3	3	3
	4-pole		kg.	3.7	3.7	3.7
Cable size	Cu-wire suitable for terminal clamps		AWG	18-8	18-8	8-00
Terminal bolt size	Metric thread diameter x length		mm	8x25	10x30	10x30
Terminal tightening torque	Counter torque required		Nm	30...44	30...44	30...44
Operating torque	3-pole switch disconnector		Nm	8.2	8.2	8.2

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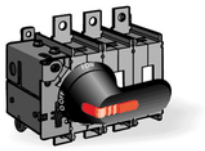
OETL400_	OETL630_	OETL800_	OETL1000_	OETL1250_	OETL1600_	OETL2500_	OETL3150_
400	**630**	**800**	**1000**	**1250**	**1600**	**2500**	**3150**
1000	1000	1000	1000	1000	1000	1000	1000
10	10	10	8	8	8	8	8
12	12	12	8	8	8	8	8
500	630	800	1000	1250	1600	2500	3150
500	630	720	1000	1250	1600	2300	2600
410	500	600	900	1000	1250	1950	2300
2x150	2x185	2x240	2x(60x5)	2x(80x5)	2x(100x5)	4x(100x5)	3x(100x10)
500	630	800	1000	1250	1600	2500	3150
500	630	800	1000	1250	1600	2500	3150
400	630	630	1000	-	-	-	-
500	630	800	1000	1250	1600	1600	1600
500	630	800	1000	1250	1600	1600	1600
500	630	800	-	-	-	1600	1600
250	400	400	-	-	-	-	-
500	630	720	800	800	800	800	800
500	590	670	800	800	800	800	800
500	580	600	800	800	800	800	800
350	350	350	-	-	-	-	-
125	200	200	-	-	-	-	-
400/1	630/1	800/1	1000/1	1250/1	1600/1	-	-
400/2	630/2	800/2	1000/2	1250/2	1600/2	-	-
400/2	630/2	800/2	1000/3	1250/3	1600/3	-	-
400/3	630/3	800/3	-	-	-	-	-
-	-	-	-	-	-	-	-
400/1	630/1	800/1	-	-	-	-	-
400/2	630/2	800/2	-	-	-	-	-
400/2	630/2	800/2	-	-	-	-	-
400/3	630/3	800/3	-	-	-	-	-
-	-	-	-	-	-	-	-
400/1	630/1	800/1	-	-	-	-	-
400/2	630/2	800/2	-	-	-	-	-
400/2	630/2	630/2	-	-	-	-	-
400/3	400/3	400/3	-	-	-	-	-
-	-	-	-	-	-	-	-
132	180	200	250	250	250	250	250
200	315	355	400	400	400	400	400
315	355	355	400	400	400	400	400
315	355	400	450	450	450	450	450
315	355	355	-	-	-	-	-
4000	5040	5760	6400	6400	6400	6400	6400
4000	4720	5360	6400	6400	6400	6400	6400
4000	4640	4800	6400	6400	6400	6400	6400
2800	2800	2800	2500	2500	2500	4800	4800
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	50	50	50	50/63	50/63
43	63	63	-	-	-	-	-
43	63	63	-	-	-	-	-
43	63	63	-	-	-	-	-
53	70	70	-	-	-	-	-
500	800	800	-	-	-	-	-
-	38	38	-	-	-	-	-
31	-	-	-	-	-	-	-
17	17	17	50	50	50	80	80
65	80	80	105	105	105	105/140	105/140
250	300	330	-	-	-	-	-
250	300	330	-	-	-	-	-
13	22	40	27	40	67	90	140
10000	10000	10000	60000	60000	60000	1200	1200
5.2	6.2	6.2	16.3	16.3	17.5	37	37
6.4	7.6	7.6	20.5	20.5	22.5	47	47
-	-	-	-	-	-	-	-
10x40	12x40	12x40	12x60	12x60	12x60	12x60	12x60
30...44	50...75	50...75	50...75	50...75	50...75	50...75	50...75
17	21	21	21	21	21	50	50

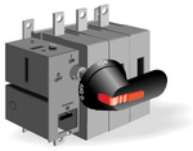
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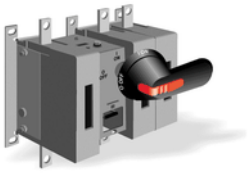
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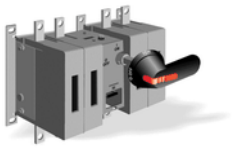
Rotary type switches, 200....1600A, 3 and 4-pole

Including handle, shaft and terminal bolt kit
Rated insulation voltage 1000V, including terminal bolt kit.







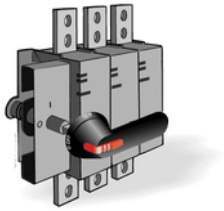


Number of Poles	I_{th} (open) [A]	Rated oper. currents AC21/AC23 [A/A]	Shaft Diameter (mm)	Includes handle and shaft	Weight (kg)	Order Code
OETL 200....315 Black IP65 handle OHB80J8 with I-O, ON-OFF indication and shaft OXP8x140, length 140mm included.						
3	250	200/200	8	✓	3.0	OETL200K3
4	250	200/200	8	✓	3.7	OETL200K4
3	250	200/200	8	X	2.9	OETL200K3-2
3	250	200/200	8	✓	3.0	OETL200K3-H20[1)]
3	250	200/200	8	✓	3.0	OETL200KV12
4	250	200/200	8	✓	3.7	OETL200KV22
3	315	250/250	8	✓	3.0	OETL250K3
4	315	250/250	8	✓	3.7	OETL250K4
3	315	250/250	8	X	2.9	OETL250K3-2
3	315	250/250	8	✓	3.0	OETL250K3-H20[1)]
3	315	250/250	8	✓	3.0	OETL250KV12
4	315	250/250	8	✓	3.7	OETL250KV22
3	350	315/315	8	✓	3.0	OETL315K3
4	350	315/315	8	✓	3.7	OETL315K4
3	350	315/315	8	X	2.9	OETL315K3-2
3	350	315/315	8	✓	3.0	OETL315K3-H20[1)]
3	350	315/315	8	✓	3.0	OETL315KV12
4	350	315/315	8	✓	3.7	OETL315KV22
OETL 400....800 Phase barriers OETZLN17 included. Black IP65 handle OHB125J12 with I-O, ON-OFF indication and shaft OXP12x166, length 166mm.						
3	500	500/500	12	✓	5.2	OETL400D1
4	500	500/500	12	✓	6.4	OETL400D4
3	500	500/500	12	X	5.1	OETL400D1-2
3	500	500/500	12	✓	5.2	OETL400D1-H20[1)]
3	500	500/500	12	✓	5.2	OETL400KV12
4	500	500/500	12	✓	6.4	OETL400KV22
3	630	630/630	12	✓	6.2	OETL630K3
4	630	630/630	12	✓	7.6	OETL630K4
3	630	630/630	12	X	6.1	OETL630K3-2
3	630	630/630	12	✓	6.2	OETL630K3-H20[1)]
3	630	630/630	12	✓	6.2	OETL630KV12
4	630	630/630	12	✓	7.6	OETL630KV22
3	800	800/720	12	✓	6.2	OETL800K3
4	800	800/720	12	✓	7.6	OETL800K4
3	800	800/720	12	X	6.1	OETL800K3-2
3	800	800/720	12	✓	5.2	OETL800K3-H20[1)]
3	800	800/720	12	✓	5.2	OETL800KV12
4	800	800/720	12	✓	6.4	OETL800KV22

[1)] Extra thick (20µm) silver coating on the contacts.

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

Including handle, shaft and terminal bolt kit
Rated insulation voltage 1000V, including terminal bolt kit.

OETL 1000....1600
Black IP65 handle OHB145J12 with I-O, ON-OFF indication and shaft OXP12x250, length 250mm included.

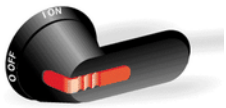
Number of Poles	I_{th} (open) [A]	Rated oper. currents AC21/AC23 [A/A]	Includes handle and shaft	Weight (kg)	Order Code
3	1000	1000/800	✓	16.3	OETL1000K3
3	1000	1000/800	✓	17.6	OETL1000K140[1)]
3	1000	1000/800	✓	17.6	OETL1000K185[1)]
3	1000	1000/800	✓	17.6	OETL1000K200[1)]
4	1000	1000/800	✓	20.5	OETL1000K4
3	1000	1000/800	X	16.2	OETL1000K3-2
3	1000	1000/800	✓	16.3	OETL1000K3-H20[2)]
3	1000	1000/800	✓	16.3	OETL1000KV12
4	1000	1000/800	✓	20.5	OETL1000KV22
3	1250	1250/800	✓	16.3	OETL1250K3
3	1250	1250/800	✓	17.6	OETL1250K140[1)]
3	1250	1250/800	✓	17.6	OETL1250K185[1)]
3	1250	1250/800	✓	17.6	OETL1250K200[1)]
4	1250	1250/800	✓	20.5	OETL1250K4
3	1250	1250/800	X	16.2	OETL1250K3-2
3	1250	1250/800	✓	16.3	OETL1250K3-H20[2)]
3	1250	1250/800	✓	16.3	OETL1250KV12
4	1250	1250/800	✓	20.5	OETL1250KV22
3	1600	1600/800	✓	17.5	OETL1600K3
3	1600	1600/800	✓	17.6	OETL1600K140[1)]
3	1600	1600/800	✓	17.6	OETL1600K185[1)]
3	1600	1600/800	✓	17.6	OETL1600K200[1)]
4	1600	1600/800	✓	22.5	OETL1600K4
3	1600	1600/800	X	17.4	OETL1600K3-2
3	1600	1600/800	✓	17.5	OETL1600K3-H20[2)]
3	1600	1600/800	✓	17.5	OETL1600KV12
4	1600	1600/800	✓	22.5	OETL1600KV22

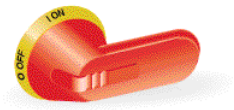
Full range of OETL changeover switches available

[1)] With extended phase distances: OETL 1000....1600k140: 140mm
OETL 1000....1600k185: 185mm
OETL 1000....1600k200: 200mm

[2)] Extra thick (20µm) silver on contacts

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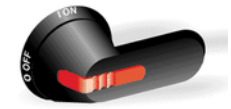


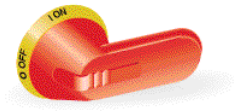


Optional Handles, front operated

Plastic handles, IP65. Indication in types OHB_ and OHY_: I-O/ON-OFF, padlockable with 3 padlocks in OFF-position, door interlock in ONposition defeatable. The shaft has to be ordered seperately.

Colour	Handle Length (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Number
For Shaft diameter 8mm				
Black	65	8	OETL200....315	OHB65J8
Yellow - Red	65	8	OETL200....315	OHY65J8
Black	80	8	OETL200....315	OHB80J8
Yellow - Red	80	8	OETL200....315	OHY80J8
For Shaft diameter 12mm				
Black	125	12	OETL400....800	OHB125J12
Yellow - Red	125	12	OETL400....800	OHY125J12
Black	145	12	OETL400....1600	OHB145J12
Yellow - Red	145	12	OETL400....1600	OHY145J12
Black	175	12	OETL400....1600	OHB175J12
Yellow - Red	175	12	OETL400....1600	OHY175J12
Black	275	12	OETL400....3150	OHB275J12
Yellow - Red	275	12	OETL400....3150	OHY275J12





Optional handles with I-O-II indication

Plastic handles, IP65, indication I-O-II, padlockable with 3 padlocks in OFF position, door interlock in ON position, defeatable. The shaft has to be ordered seperately.

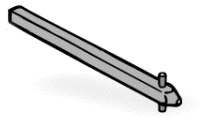
Colour	Handle Length (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Code
Black	145	12	OETL 200....1600	OHB145J12E011
Yellow - Red	145	12	OETL 200....1600	OHY145J12E011
Black	275	12	OETL 400....3150	OHB275J12E011
Yellow - Red	275	12	OETL 400....3150	OHY275J12E011

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SwitchLine

OETL 200....3150 Accessories

this is only a small selection of the full range of accessories, please refer to the technical catalogue.



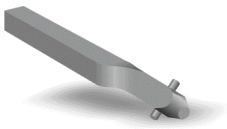
Extended shafts

Shaft diameter 8mm.

Shaft Length (mm)	H (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Code
140	120....220	8	OETL200....315	OXP8x140
180	160....240	8	OETL200....315	OXP8x180
240	220....320	8	OETL200....315	OXP8x240
340	320....420	8	OETL200....315	OXP8x340
500	480....580	8	OETL200....315	OXP8x500

Shaft diameter 12mm.

Shaft Length (mm)	H (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Number
166	160....255	12	OETL400....800	OXP12x166
185	165....275	12	OETL400....800	OXP12x185
	190....260	12	OETL1000....1600	
250	230....340	12	OETL400....800	OXP12x250
	255....325	12	OETL1000....1600	
280	260....370	12	OETL400....800	OXP12x280
	285....355	12	OETL1000....1600	
325	305....415	12	OETL400....800	OXP12x325
	330....400	12	OETL1000....1600	
	340....535	12	OETL2500....3150	
395	375.....485	12	OETL400....800	OXP12x395
	400....470	12	OETL1000....1600	
	410....605	12	OETL2500....3150	
465	445....555	12	OETL400....800	OXP12x465
	470....540	12	OETL1000....1600	
	480....675	12	OETL2500....3150	
535	515....625	12	OETL400....800	OXP12x535
	540....610	12	OETL1000....1600	
	550....745	12	OETL2500....3150	



Twisted shafts

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

Shaft Length (mm)	H (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Code
140	120....220	8	OETL200....315	OXP8x140-45
340	320....420	8	OETL200....315	OXP8x340-45

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

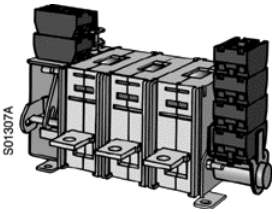
Shaft Length (mm)	H (mm)	Shaft Diameter (mm)	Suitable for switch sizes	Order Code
250	230....340	12	OETL400....800	OXP12x250-45
	255....325	12	OETL1000....1600	
280	260....370	12	OETL400....800	OXP12x280-45
	285....355	12	OETL1000....1600	
325	305....415	12	OETL400....800	OXP12x325-45
	330....400	12	OETL1000....1600	
	340....535	12	OETL2500....3150	
395	375.....485	12	OETL400....800	OXP12x395-45
	400....470	12	OETL1000....1600	
	410....605	12	OETL2500....3150	
465	445....555	12	OETL400....800	OXP12x465-45
	470....540	12	OETL1000....1600	
	480....675	12	OETL2500....3150	

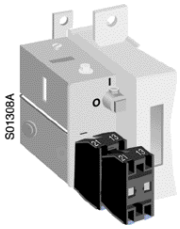
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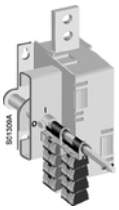
SwitchLine

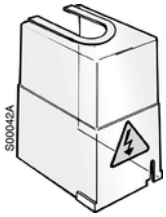
OETL 200....3150 Accessories

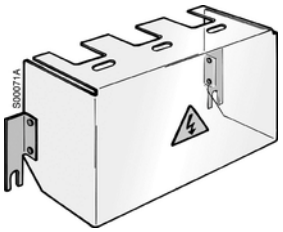
this is only a small selection of the full range of accessories, please refer to the technical catalogue.











Auxiliary contact sets

Wire cross section 0.5mm²...2 x 2.5mm². Insulation voltage U 690V. Thermal current Ith = 10A. Protection degree IP20. Early break type.

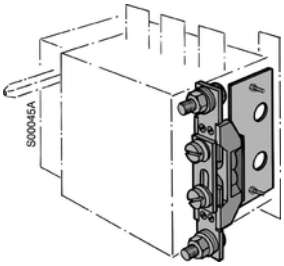
Performance data according to IEC 60947-5-1 U_e/I_e (AC12):
120V/8A, 240V/6A, 400V/4A, 415V/4A, 480V/3A, 500V/3A, 690V/2A
U_e/I_e (DC12): 125V/1.1A, 250V/0.55A, 440V/0.31A, 500V/0.27A, 600V/0.2A.

Auxiliary Contacts For Shaft diameter 8mm		Suitable for switches	Order Number
13 21 14 22	1no+1nc	OETL 200...315	OZXK 12
		OETL 400...3150	OZXK 1
13 21 33 41 14 22 34 42	2no+2nc	OETL 200...315	OZXK 13
		OETL 400...3150	OZXK 2
13 21 33 41 53 61 73 14 22 34 42 54 62 74	4no+4nc	OETL 200...315	OZXK 16
		OETL 400...3150	OZXK 3
13 23 14 24	2no	OETL 200...315	OZXK 14
		OETL 400...3150	OZXK 4
13 23 33 43 14 24 34 44	4no	OETL 200...315	OZXK 15
		OETL 400...3150	OZXK 5
13 23 33 43 53 63 73 83 14 24 34 44 54 64 74 84	8no	OETL 200...315	OZXK 17
		OETL 400...3150	OZXK 6

Terminal Shrouds

Number of Poles	Suitable for switches	Quantity for full protection	Order Code
3 4	OETL 200...315	6 8	OETLZX 128
3 4	OETL 400	2 2	OETLZX 31 OETLZX 32
3 4	OETL 400KV12 OETL 400KV22	2 2	OETLZX 177 OETLZX 178
3 4	OETL 630...800KV12 OETL 630...800KV22	2 2	OETLZX 179 OETLZX 180
3 4	OETL 630	2 2	OETLZX 93 OETLZX 94
3 4	OETL 800	2 2	OETLZX 111 OETLZX 112
3 4	OETL 1000...1600	6 8	OETLZX 102

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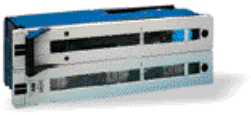
Neutral links

Suitable for switches	Ith [A]	Max. cable cross section /Cu or bolt size [mm²]	Order Number
Detachable, mounted to the switch			
OETL200...315	400	240	OETLZX 129
OETL400...800	400	240	OESAZX 85
OETL630...800	1000	M12	OESAZX 158
OETL1000...1600	1000	M12	OESAZX 159
Mounted seperately to the base plate			
	200	10...120	OESAZX 162
	315	10...300	OESAZX 164
	400	10...300	OESAZX 165
	1000	M12	OESAZX 160

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SlimLine - a family of low voltage apparatus

Family Presentation

SlimLine is a family of 3-pole and 4-pole switching devices in tier form for either horizontal or vertical installation in switchboards.

Compact Design

The compact design of SlimLine offers a space saving solution for the end user. This results in a cost attractive switchboard system with a number of applications.

Easy To Install

1) Just plug the SRM into the busbars
2) Fix the SRM with screws into front profiles
3) Fix the cable

Properties:

- Typetested according to IEC 60947-3
- 500V or 690V
- 63A - 630A
- 3-pole and 4-pole version
- AC and DC version
- Developed for plug-in switchboard systems
- Horizontal or vertical installation
- Front cover interlocked in “ON” position
- IP 41 degree of protection from the front

Advantages:

- Increased personal safety
- Modular design
- Easy to install
- Compact design/space saving
- Cable termination with cable lugs or cable clamps
- Wide range of accessories
- Operating handle fitted with padlocking facilities in “OFF” position
- Positive indication of switch position
- Various mounting depths

There is a full range of ITS (computer monitored via internet) switches available, please contact technical sales for full details.

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SRM Distance between busbars: 50m

Switch fuse disconnector

Description	No. Poles	ABB fuse part No.	Order Code
SRM 63 BS	3 pole	ATIS63	NHP100230R0203
SRM 100 BS	3 pole	AOS100	NHP100230R0103
SRM 160 BS	3 pole	AOS160	NHP100230R0403
SRM 250 BS	3 pole	ATKF250	NHP100231R0103
SRM 400 BS	3 pole	ATMF400	NHP100233R0103
SRM 630 BS	3 pole	ATMF630	NHP100233R0203
SRM 63 BS	4 pole	ATIS63	1SEP102030R0203
SRM 100 BS	4 pole	AOS100	1SEP102030R0103
SRM 160 BS	4 pole	AOS160	1SEP102030R0403
SRM 250 BS	4 pole	ATKF250	1SEP102031R0103
SRM 400 BS	4 pole	ATMF400	1SEP102033R0103
SRM 630 BS	4 pole	ATMF630	1SEP102033R0203

Switch Disconnector

SR-B 160	3 pole	x	NHP100240R0003
SR-B 250	3 pole	x	NHP100241R0003
SR-B 400	3 pole	x	NHP100242R0003
SR-B 630	3 pole	x	NHP100243R0003

Label holder to be ordered seperately see page 5/42

SRM Distance between busbars: 60m

Switch Fuse Disconnector

Description	No. Poles	ABB fuse part No.	Order Code
SRM 63-BS	3 pole	ATIS63	NHP101030R0203
SRM 100-BS	3 pole	AOS100	NHP101030R0103
SRM 160-BS	3 pole	AOS160	NHP101030R0403
SRM 250-BS	3 pole	ATKF250	NHP101031R0103
SRM 400-BS	3 pole	ATMF400	NHP101033R0103
SRM 630-BS	3 pole	ATMF630	NHP101033R0203
SRM 63-BS	4 pole	ATIS63	1SEP102130R0203
SRM 100-BS	4 pole	AOS100	1SEP102130R0103
SRM 160-BS	4 pole	AOS160	1SEP102130R0403
SRM 250-BS	4 pole	ATKF250	1SEP102131R0103
SRM 400-BS	4 pole	ATMF400	1SEP102133R0103
SRM 630-BS	4 pole	ATMF630	1SEP102133R0203

Switch Disconnector

SR-B 160	3 pole	x	NHP101040R0003
SR-B 250	3 pole	x	NHP101041R0003
SR-B 400	3 pole	x	NHP101042R0003
SR-B 630	3 pole	x	NHP101043R0003

Label holder to be ordered seperately see page 5/42

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SRM Distance between busbars: 185m

Switch fuse disconnector

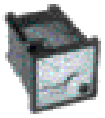
Description	No. Poles	ABBfuse part No.	Order Code
SRM 63-BS	3 pole	ATIS63	NHP100430R0203
SRM 100-BS	3 pole	AOS100	NHP100430R0103
SRM 160-BS	3 pole	AOS160	NHP100430R0403
SRM 250-BS	3 pole	ATKF250	NHP100431R0103
SRM 400-BS	3 pole	ATMF400	NHP100433R0103
SRM 630-BS	3 pole	ATMF630	NHP100433R0203
SRM 63-BS	4 pole	ATIS63	1SEP102330R0203
SRM 100-BS	4 pole	AOS100	1SEP102330R0103
SRM 160-BS	4 pole	AOS160	1SEP102330R0403
SRM 250-BS	4 pole	ATKF250	1SEP102331R0103
SRM 400-BS	4 pole	ATMF400	1SEP102333R0103
SRM 630-BS	4 pole	ATMF630	1SEP102333R0203
Switch			
SR-B 160	3 pole	x	NHP100440R0003
SR-B 250	3 pole	x	NHP100441R0003
SR-B 400	3 pole	x	NHP100442R0003
SR-B 630	3 pole	x	NHP100443R0003

Label holder to be ordered seperately, see page 5/42



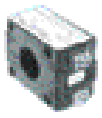
Accessories SR-M 63, 100, 160 A

Description	Order Code
Contact extension for 50mm version	NHP100011R0001
Contact extension for 185mm version	NHP100803R0001
Current transformer (150/1A)	NHSN718006P0150
Current transformer (150/5A)	NHSN718006P1150
Ammeter 0-150-180/1A	NHSN714003P0150
Ammeter 0-150-180/5A	NHSN714003P1150
Auxiliary switch (1no + 1nc)	NHP404640R0001
Cable terminal shroud 3 pole	1SEP407843R0001
Cable terminal shroud 4 pole	1SEP201396R0001



Accessories SR-M 250 A

Description	Order Code
Contact extension for 50mm version	NHP100014R0001
Contact extension for 185mm version	NHP100855R0001
Current transformer (250/1A)	NHSN718026P0250
Current transformer (250/5A)	NHSN718026P1250
Ammeter 250 - 300/1A	NHSN714003P0250
Ammeter 250 - 300/5A	NHSN714003P1250
Ammeter bracket	NHP200829P0001
Auxiliary switch (1no + 1nc)	NHP404641R0001
Auxiliary switch (2no + 2nc)	NHP404641R0002
Cable terminal shroud (for cable-lugs)	NHP405670R0004



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Size 2 400A BS

Description	Type	Order Code
Cable terminal (one double term. pr. id. no.)		NHP406124R1
Contact extension for 50mm version		NHP100495R1
Contact extension for 185mm version		NHP100886R1
Current transformer (400/1A)		NZN000136P25
Current transformer (400/5A)		NZN000136P5
Ammeter 48 x 48mm 0-400-480/1A	Max Demand	NHSN714003P400
Ammeter 48 x 48mm 0-400-480/5A	Max Demand	NHSN714003P1400
Ammeter bracket		NHP200829P1
Auxiliary switch (1no + 1nc)		NHP404721R1
Auxiliary switch (2no + 2nc)		NHP404721R2
Front cover with handle	SRM	NHP302073R7
	SRB	NHP302073R9.
Cable terminal shroud size 2/3		NHP405670R5

Accessories are delivered with necessary mounting equipment

Size 3 630A DIN

Description	Type	Order Code
Cable terminal (one double term. pr. id. no.)		NHP406124R1
Contact extension for 50mm version		NHP100495R1
Contact extension for 185mm version		NHP100886R1
Current transformer (600/1A)		NZN000136P27
Current transformer (600/5A)		NZN000136P7
Ammeter 48 x 48mm 0-600-720/1A	Max Demand	NHSN714003P600
Ammeter 48 x 48mm 0-600-720/5A	Max Demand	NHSN714003P1600
Ammeter bracket		NHP200829P1
Auxiliary switch (1no + 1nc)		NHP404721R1
Auxiliary switch (2no + 2nc)		NHP404721R2
Front cover with handle	SRM	NHP302073R10
	SRB	NHP302073R12
Cable terminal shroud size 2/3		NHP405670R5

Accessories are delivered with necessary mounting equipment

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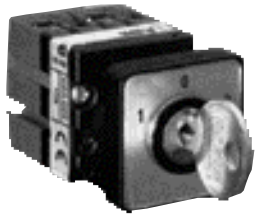
System accessories

Description	Dimensions	Order Code
Ventilated blind cover, height 50mm, IP41		NHP405609R1
Module guide rails,	mounting depth 200mm	NHP200947R2
	mounting depth 400mm	NHP200947R3
	mounting depth 400mm MNS	NHP200947R1
Cassette for Busbar 185mm	H = 500mm	NHP101604R1
	H = 1000mm	NHP101604R2
	H = 1500mm	NHP101604R3
	H = 2000mm	NHP101604R4
Cassette for Busbar 60mm	H = 500mm	NHP101604R11
	H = 1000mm	NHP101604R12
	H = 1500mm	NHP101604R13
	H = 2000mm	NHP101604R14
IP20 Busbar Cover Kits Universal 3 and 4 pole / 60mm and185mm		
	H = 500mm	NHP407062R1
	H = 1000mm	NHP407062R2
	H = 1500mm	NHP407062R3
	H = 2000mm	NHP407062R4
Front Cover Key		GNV436770P22
Label Carrier		1SEP407969R0001

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CamLine

Cam Switches OM and ON









Complete range of standard and special cam switches for door and modular base mounting

- ON-OFF Switches
- Stop Switches
- Start Switches
- Pumpstart Switches
- Change-Over Switches
- Ventilation Switches
- Multistep Switches
- Reversing Switches
- Voltmeter Switches
- Ampmeter Switches

Features:

- Complete delivery for easy purchasing and assembly
- Standard delivery with black handle, optional extra grey handle
- Small panel size: Front space in side to side mounting 30 or 50mm
- Finger protected terminals and interconnections (IP20, VBG4, IP65 front modular IP44)
- Combi screws, terminal screws size 2 for fast cabeling
- Cabeling from top and bottom gives the possibility to mount side to side
- Double break silver contacts with 0.35mm gold plating ensure a high break capacity and reliable connection. Also available with 4mm gold plating for extremely difficult circumstances. Have to be ordered seperately, please ad AU to the type , e.g. OMA1 PBAU
- Special cam switches available through electronic ordering system or telefax,
- Fast special engraving service

Full details available on request

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All switches available without an escutcheon & with a round front ring only, call sales for details

On - Off Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items.

Rotating angle 90˚, O-position: 12 o'clock. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
O - 1	1	10	0.04	OMA1PB
	2	10	0.04	OMA2PB
	3	10	0.05	OMA3PB
O - 1	4	10	0.05	OMA4PB
	5	10	0.06	OMA5PB
	6	10	0.06	OMA6PB
Normal, door mounted				
O - 1	1	25	0.08	ONA1PB
	2	25	0.09	ONA2PB
	3	25	0.10	ONA3PB
O - 1	4	25	0.11	ONA4PB
	5	25	0.12	ONA5PB
	6	25	0.12	ONA6PB
Modular DIN-rail mounted				
O - 1	1	25	0.09	ONA1M
	2	25	0.10	ONA2M
	3	25	0.11	ONA3M
	6	25	0.12	ONA6M

Key operated, withdrawable in OFF position, rotating angle 90˚, O-position: 9 o'clock

Miniature, door mounted Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
O - 1	1	10	0.06	OMA1KB
	3	10	0.07	OMA3KB
Normal, door mounted 90˚				
O - 1	1	25	0.11	ONA1KB
	3	25	0.13	ONA3KB

Rotating angle 90˚, O-position: 9 o'clock.z Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
O - 1	1	10	0.04	OMA01PB
	2	10	0.04	OMA02PB
	3	10	0.05	OMA03PB
O - 1	4	10	0.05	OMA04PB
	5	10	0.06	OMA05PB
	6	10	0.06	OMA06PB

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On - Off Switches

Normal, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
O - 1	1	25	0.08	ONA01PB
	2	25	0.09	ONA02PB
	3	25		ONA03PB
O - 1	4	25	0.11	ONA04PB
	5	25	0.12	ONA05PB
	6	25	0.12	ONA06PB

Modular, DIN-rail mounted

O - 1	1	25	0.09	ONA01M
	2	25	0.10	ONA02M
	3	25	0.11	ONA03M
	6	25	0.12	ONA06M

Key operated, withdrawable in both positions, rotating angle 90˚, O-position: 9 o'clock
Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
O - 1	1	10	0.06	OMA01KB
	3	10	0.07	OMA03KB

Normal, door mounted

O - 1	1	25	0.11	ONA01KB
	3	25	0.13	ONA03KB

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Changeover Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separat items.

Rotating angle 60˚ - 0 - 60˚. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 0 - 2	1	10	0.05	OMU1PB
	2	10	0.06	OMU2PB
	3	10	0.06	OMU3PB
	4	10	0.07	OMU4PB
Normal, door mounted				
1 - 0 - 2	1	25	0.09	ONU1PB
	2	25	0.11	ONU2PB
	3	25	0.13	ONU3PB
	4	25	0.14	ONU4PB
Modular, DIN-rail mounted				
1 - 0 - 2	1	25	0.09	ONU1M
	2	25	0.11	ONU2M
	3	25	0.13	ONU3M
	4	25	0.14	ONU4M

Key operated, with 0 position, withdrawable in all positions. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 0 - 2	1	10	0.07	OMU1KB
	3	10	0.08	OMU3KB
Normal, door mounted				
1 - 0 - 2	1	25	0.12	ONU1KB
	3	25	0.13	ONU3KB

1R-0-2R, with two sided spring return. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1R- 0 - 2R	1	10	0.05	OMURR1PB
	3	10	0.06	OMURR3PB
Normal, door mounted				
1R- 0 - 2R	1	25	0.09	ONURR1PB
	2	25	0.11	ONURR2PB
	3	25	0.12	ONURR3PB
Modular, DIN-rail mounted				
1R- 0 - 2R	1	25	0.09	ONURR1M

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Without O position

Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 2	1	10	0.09	OMWS1PB
	2	10	0.11	OMWS2PB
	3	10	0.13	OMWS3PB
	4	10	0.14	OMWS4PB
Normal, door mounted				
1 - 2	1	25	0.09	ONWS1PB
	2	25	0.11	ONWS2PB
	3	25	0.13	ONWS3PB
	4	25	0.14	ONWS4PB
Modular DIN-rail mounted				
1 - 2	1	25	0.09	ONWS1M
	2	25	0.11	ONWS2M
	3	25	0.13	ONWS3M
	4	25	0.14	ONWS4M

Multistep Switches

Black handle and frontplate with standard text are included. Page size 10 pcs. Special engraved frontplates to be ordered as separate items.

2 - step, with O - position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0 - 1 - 2	1	10	0.04	OMSO21PB
	2	10	0.05	OMSO22PB
	3	10	0.06	OMSO23PB
	4	10	0.07	OMSO24PB
Normal, door mounted				
0 - 1 - 2	1	25	0.10	ONSO21PB
	2	25	0.12	ONSO22PB
	3	25	0.13	ONSO23PB
	4	25	0.14	ONSO24PB
Modular DIN-rail mounted				
0 -1 - 2	1	25	0.10	ONSO21M

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Multistep Switches

Black handle and frontplate with standard text are included. Page size 10 pcs. Special engraved frontplates to be ordered as separate items.

3 - step, with O - position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0 - 1 - 2 - 3	1	10	0.05	OMSO31PB
	2	10	0.06	OMSO32PB
	3	10	0.07	OMSO33PB
	4	10	0.08	OMSO34PB
Normal, door mounted				
0 - 1 - 2 - 3	1	25	0.10	ONSO31PB
	2	25	0.11	ONSO32PB
	3	25	0.12	ONSO33PB
	4	25	0.13	ONSO34PB
Modular DIN-rail mounted				
0 - 1 - 2 - 3 - 4	1	25	0.11	ONSO31M

4 - step, with O - position
Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0 - 1 - 2 - 3 - 4	1	10	0.05	OMSO41PB
	2	10	0.06	OMSO42PB
	3	10	0.07	OMSO43PB
Normal, door mounted				
0 - 1 - 2 - 3 - 4	1	25	0.11	ONSO41PB
	2	25	0.12	ONSO42PB
	3	25	0.13	ONSO43PB

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CamLine

Cam Switches 10...25A









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5 - step, with O-position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0-1-2-3-4-5	1	10	0.06	OMSO51PB
	2	10	0.08	OMSO52PB
Normal, door mounted				
0-1-2-3-4-5	1	25	0.04	ONSO51PB
	2	25	0.04	ONSO52PB

3 - step, without O -position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 2 - 3	1	10	0.05	OMST31PB
	2	10	0.06	OMST32PB
	3	10	0.07	OMST33PB
	4	10	0.08	OMST3LPB
Normal, door mounted				
1 - 2 - 3	1	25	0.10	ONST31PB
	2	25	0.12	ONST32PB
	3	25	0.13	ONST33PB
	4	25	0.14	ONST34PB
Modular DIN-rail mounted				
1 - 2 - 3	1	25	0.10	ONST31M

4 - step, without O - position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 2 - 3 - 4	1	10	0.05	OMST41PB
	2	10	0.06	OMST42PB
	3	10	0.07	OMST43PB
Normal, door mounted				
1 - 2 - 3 - 4	1	25	0.11	ONST41PB
	2	25	0.12	ONST42PB
	3	25	0.13	ONST43PB

5 - step, without O - position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1 - 2 - 3 - 4 - 5	1	10	0.06	OMST51PB
	2	10	0.08	OMST52PB
Normal, door mounted				
1 - 2 - 3 - 4 - 5	1	25	0.12	ONST51PB
	2	25	0.14	ONST52PB

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Stop Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplate to be ordered as separate items.

Miniature, door mounted, with spring return. Contacts N.C.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0R - Stop	2	10	0.04	OMSA2PB

Normal, door mounted, with spring return Contacts N.C.

0R - Stop	2	25	0.09	ONSA2PB

Start Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items. With spring return. Contracts N.O.

Miniature, door mounted with spring return, contacts NC

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0R- Start	1	10	0.04	OMSE2PB
0 - 1 - Start	1	10	0.05	OMSEA10PB

Normal, door mounted with spring return, contacts NC

0R - Start	1	25	0.04	ONSE2PB
0 - 1R - Start	1	25	0.09	ONSEA10PB
Start- 1R- 0 - 2R	1	25	0.09	ONUR139PB

Modular DIN-rail mounted with spring return

0 - 1R - Start	1	25	0.09	ONSEA10M
Start-1R-0-2R-Start	1	25	0.09	ONUR139M

Pumpstart switch. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
0 - 1	1	10	0.04	OMSE158PB

Normal, door mounted

0 - 1	1	25	0.09	ONSE158PB

Modular DIN-rail mounted

0 - 1	1	25	0.09	ONSE158M

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Ventilation Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items.

Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
A-0-1/2-1/1	12	10	0.06	OMST301PB

Normal, door mounted

A-0-1/2-1/1	2	25	0.11	ONST301PB

Modular, DIN-rail mounted

A-0-1/2-1/1	2	25	0.11	ONST301M

Reversing Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items.

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
1-0-2	3	25	0.10	ONW3PB

Ammeter Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items.

For 3 current transformer circuits, with 0 position. Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
Single pole	3	10	0.12	OMAU31PB

Normal, door mounted

Single pole	3	25	0.12	OMAU31PB
2 pole or direct measurement in 3 phases	5	25	0.15	OMAU32PB

Modular, DIN_rail mounted

Single pole	4	25	0.12	ONAU31M

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All switches available without an escutcheon & with a round front ring only, call sales for details

Voltmeter Switches

Black handle and frontplate with standard text are included. Package size 10 pcs. Special engraved frontplates to be ordered as separate items.

3 phase - 3 wire, with O position.

Miniature, door mounted

Function	Number of poles	Rated thermal current [A]	Weight [kg]	Order Code
L1-L2, L2-L3, L3-L1	2	10	0.06	OMVN3PB
Normal, door mounted				
L1-L2, L2-L3, L3-L1	2	25	0.11	ONVN3PB
Modular, DIN-rail mounted				
L1-L2, L2-L3, L3-L1	2	25	0.11	ONVN3M

3 phase to phase to neutral - without O position

Miniature, door mounted				
L1-L3,L2-L3,L1-L2,L1-N,L2-N,L2-N	3	10	0.08	ONVN30PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2,L1-N,L2-N,L3-N	3	25	0.12	ONVN30PB
Modular DIN-rail mounted				
L1-L3,L2-L3,L1-L2,L1-N,L2-N,L3-N	M	25	0.12	ONVN30M

3 phase to phase to neutral - with O position

Miniature, door mounted				
L1-L3,L2-L3,L1-L2,0,L1-N,L2-N,L3-N	3	10	0.12	OMV30PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2,0L1-N,L2-N,L3-N	3	25	0.12	ONV30PB
Modular DIN-rail mounted				
L1-L3,L2-L3,L1,L2,0L1-N,L2-N,L3-N	3	25	0.12	ONV30M

3 phase to phase voltages for 2 circuits

Miniature, door mounted				
L1-L3,L2-L3,L1-L2,0L1-L3,L2-L3,L1-L2	4	10	0.14	OMV32PB
Normal, door mounted				
L1-L3,L2-L3,L1-L2,0L1-L3,L2-L3,L1-L2	4	25	0.14	OMA1PB

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Accessories

Handle with blank front plate without engraving

Colour	For switch type	Weight [kg]	Order Code
Black	OM_, Mini	0.05	OMPB1
Grey	OM_, Mini	0.05	OMPG1
Black	ON_, Normal	0.08	ONPB1
Grey	ON_, Normal	0.08	0NPG1

Handle with round escutcheon plate

Black	OM_, Mini	0.02	OMXB1
Black, nose-type	OM_, Mini	0.02	OMXNB1
Black	ON_, Normal	0.03	ONXB1

Padlockable handle for max 2 padlocks with 6 mm bail diameter or for max 3 padlocks with 4 mm bail diameter

Black	ON_, Normal	0.06	OMX99
Red yellow	ON_. Normal	0.06	ONX99

Front ring only, separate lettering on the panel needed

Black	OM_, Mini	0.01	OMX99
Grey	ON_, Normal	0.01	ONX99

Front plate, blank without engraving

Silver	OM_, Mini	0.03	0MF101
Silver	ON_, Normal	0.03	ONF101
Grey	ON_, Modular	0.03	ONFM101

Additional lettering plate,
without engraving, black engraving from front side

Black frame	OM_, Mini	0.01	OMFB72
Black frame	ON_, Normal	0.01	ONFB72
Grey frame	OM_, Mini	0.01	OMFG72
Grey frame	ON_, Normal	0.01	ONFG72

Spare Key

2 pcs	OM_, Mini	0.01	OMK95
3 pcs	ON_, Normal	0.01	OMK95

Protective rear cover Transparent, IP42 protection

Number of chambers	Contacts	For switch type	Weight [kg]	Order Code
1-2	2-4	ON_, Normal	0.02	ONZ10L2
3-4	6-8	ON_, Normal	0.04	ONZ10L4
5-6	10-12	ON_, Normal	0.06	ONZ10L6

Nut spanner

	OM_, Mini	0.02	OMNX80
Black	ON_, Normal		

Adapter ring for 30mm door drilling

Black	ON_, Normal	0.01	ONX30

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