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Enclosed Switch-disconnectors and Fuse Switches

Technical Specifications



Standard : IEC 60947 - 1, 3

Degree of Protection : IP41 (IP54, IP66 on request)

Offer ample wiring space and easy installation

High quality electro-galvanised steel with epoxy powder coating

Enclosed Load Break Switch (LSB)

Type		Rated Operational Current (A)		Dimensions (W x H x D) mm				
3-Pole (with removable neutral link)	4-Pole	AC-22A up to 415V	AC-23A up to 415V	W	H	D1	D2	Ø
LSB-OT63F-3P(IP41)	LSB-OT63F-4P(IP41)	63	63					
LSB-OT80F-3P(IP41)	LSB-OT80F-4P(IP41)	80	75	200	250	100	145	
LSB-OT125F-3P(IP41)	LSB-OT125F-4P(IP41)	125	90					
LSB-OT160EV-3P(IP41)	LSB-OT160EV-4P(IP41)	160	160					
LSB-OT200E-3P(IP41)	LSB-OT200E-4P(IP41)	200	200	300	400	200	245	9
LSB-OT250E-3P(IP41)	LSB-OT250E-4P(IP41)	250	250					
LSB-OT315E-3P(IP41)	LSB-OT315E-4P(IP41)	315	315					
LSB-OT400E-3P(IP41)	LSB-OT400E-4P(IP41)	400	400					
LSB-OT630E-3P(IP41)	LSB-OT630E-4P(IP41)	630	630	500	600	250	295	
LSB-OT800E-3P(IP41)	LSB-OT800E-4P(IP41)	800	800					
LSB-OT1000E-3P(IP41)	LSB-OT1000E-4P(IP41)	1000	1000	600	800	300	380	

Enclosed Switches

Enclosed Fuse Switches (FSB) - without Fuse Link

Type		Rated Operational Current (A)		Dimensions (W x H x D) mm				
3-Pole (with removable neutral link)	4-Pole (with neutral link)	AC-22A up to 500V	AC-23A up to 500V	W	H	D1	D2	Ø
FSB-OS32GB-3P(IP41)	FSB-OS32GB-4P(IP41)	32	32					
FSB-OS63GB-3P(IP41)	FSB-OS63GB-4P(IP41)	63	63	350	300	200	245	
FSB-OS100GB-3P(IP41)	FSB-OS100GB-4P(IP41)	100	100					
FSB-OS160GB-3P(IP41)	FSB-OS160GB-4P(IP41)	160	160					
FSB-OS200B-3P(IP41)	FSB-OS200B-4P(IP41)	200	200	400	500	250	295	9
FSB-OS250B-3P(IP41)	FSB-OS250B-4P(IP41)	250	250					
FSB-OS315B-3P(IP41)	FSB-OS315B-4P(IP41)	315	315					
FSB-OS400B-3P(IP41)	FSB-OS400B-4P(IP41)	400	400	500	600	250	295	
FSB-OS630B-3P(IP41)	FSB-OS630B-4P(IP41)	630	630	600	800	300	345	
FSB-OS800B-3P(IP41)	FSB-OS800B-4P(IP41)	800	800					

Enclosed Switch-disconnectors (LSB)

Technical Data for Switch-disconnectors (OT)

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

Tested according to IEC60947-3

- Switch-disconnectors
- Motor circuit switches
- Main switches
- Local safety switches
- Special switches
- Busbar couplers



Enclosed Switches

Type		OT63F	OT80F	OT125F	OT160EV		
Switch Disconnector	3 pole	OT63F3	OT80F3	OT125F3	OT160EV03P		
	4 pole	OT63F4N2	OT80F4N2	OT125F4N2	OT160EV04P		
Rated insulation voltage and Rated operational voltage AC-20 and DC-20	Pollution degree 3	V	750	750	750	1000	
Rated thermal current and Rated operational current AC-20 / DC-20 (ambient 40°C)	In open air	A	63	80	125	200	
	In enclosure	A	63	80	125	160	
Rated operational current	AC-21A	<415 V	A	63	80	125	200
		<500 V	A	63	80	125	200
		<690 V	A	63	80	125	160
	AC-22A	<415 V	A	63	80	125	200
		<500 V	A	63	80	125	200
		<690 V	A	63	80	125	160
	AC-23A	<415 V	A	63	75	90	160
		<500 V	A	45	58	70	160
		<690 V	A	20	20	50	160
Rated operational power	AC-23	220-240 V	kW	11	22	22	48
		400/415 V	kW	22	37	45	80/88
		500/690 V	kW	22/15	37/18.5	45	112/144
Rated breaking capacity in category AC-23	<415 V	A	360	640	720	1280	
	<500 V	A	360	464	560	1280	
	<690 V	A	160	160	400	1280	
Rated conditional short-circuit current I_p (r.m.s.) and corresponding max allowed cut-off current \hat{I}_c	I_p 50 kA, 415 V	\hat{I}_c kA	13	13	16.5	-	
	Max OFA_fuse size gG/aM	A	100/80	100/80	125/125	-	
The cut-off currents \hat{I}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)	I_p 100 kA, 500 V	\hat{I}_c kA	-	-	-	40.5	
	Max OFA_fuse size gG/aM	A	-	-	-	315/315	
Rated short-time withstand current I_{cw} (r.m.s.)	690 V, 1s	kA	1	1.5	2.5	-	
	1000 V, 1s	kA	-	-	-	8	
Rated short circuit making capacity I_{cm} (peak)	690 V	kA	1.4	2.1	3.6	-	
	1000 V	kA	-	-	-	30	
Cable Size (cu-wire size suitable for terminal clamps)		mm	1.5-35	1.5-35	10-70	-	
Terminal bolt size			-	-	-	M8x25	

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

2) Acc. to IEC60947-1, § 6.1.1

							
	OT200E	OT250E	OT315E	OT400E	OT630E	OT800E	OT1000E
	OT200E03P	OT250E03P	OT315E03P	OT400E03P	OT630E03P	OT800E03P	OT1000E12P
	OT200E04P	OT250E04P	OT315E04P	OT400E04P	OT630E04P	OT800E04P	OT1000E22P
	1000	1000	1000	1000	1000	1000	1000
	200	250	315	400	630	800	1000 ²⁾
	200	250	315	400	630	800	1000 ²⁾
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	200	250	315	400	630	800	1000
	60	75	100	132	200	250	-
	110	140/145	160/180	220/230	355	450	560
	132/200	170/250	220/315	280/400	400/630	560/800	710/1000
	1600	2000	2520	3200	5040	6400	10000
	1600	2000	2520	3200	5040	6400	10000
	1600	2000	2520	3200	5040	6400	10000
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	40.5		61.5		90		106
	315/315		500/450		800/1000		1250/1250
	-	-	-	-	-	-	50
	8		15		20		-
	-	-	-	-	-	-	110 ¹⁾
	30		65		80		-
	-	-	-	-	-	-	-
	M8x25		M10x30		M12x40		M12x50

Enclosed Switches



Enclosed Fuse Switches (FSB)

Technical Data for Fuse Switches (OS)

Fuse Switches range from 32A to 800A, 690 V
Tested according to IEC60947-3

- Main switches
- Motor circuit switches
- Isolator switches
- Local safety switches
- Special switches



Enclosed Switches

Type			OS32GB	OS63GB	OS100GB	OS160GB	
Fuse Switches	3 pole		OS32GB03P	OS63GB03P	OS100GB03P	OS160GB03P	
	4 pole		OS32GB04N1P	OS63GB04N1P	OS100GB04N1P	OS160GB04N1P	
Rated insulation voltage and Rated operational voltage AC-20 and DC-20	Pollution degree 3 V		1000	1000	1000	1000	
Dielectric strength	50Hz 1min	kV	10	10	10	10	
		kV	12	12	8	8	
Rated thermal current in ambient 35°C and temporarily 40°C ¹⁾ /max. fuse power dissipation ¹⁾	In open air	A/W	32/7.5	63/7.5	100/12	160/12	
	In enclosure ²⁾	A/W	32/7.5	63/7.5	100/12	160/12	
Rated operational current AC-21A / AC-22A / AC-23A	<500 V	A	32/32/32	63/63/63	100/100/100	160/160/160	
	690 V	A	32/32/32	63/63/63	100/100/100	160/160/160	
Rated breaking capacity in category AC-23	≤690 V	A	504	504	1280	1280	
Rated conditional short-circuit current I _p (r.m.s.) and corresponding max. allowed cut-off current I _c	I _p 50 kA, 415 V	I _c kA	13.5	13.5	23.5	23.5	
	Max BS fuse size gG/gM	A	(80/63)	(80/63)	(160/160)	(160/160)	
The cut-off currents I _c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269)	I _p 80 kA, 690 V	I _c kA	11.5	11.5	20.5	20.5	
	Max BS fuse size gG/gM	A	(50/50)	(50/50)	(125/160)	(125/160)	
Rated operational power, AC-23A ⁴⁾ The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors	230 V	kW	7.5	18.5	30	45	
	400 V	kW	15	30	55	75	
	415 V	kW	15	30	55	75	
	500 V	kW	18.5	37	55	90	
	690 V	kW	22	55	90	132	
Fuse Type, IEC 60269-2-1							
Size of fuse link bolts (BS88-2)			A2-A3 ⁵⁾	A2-A3 ⁵⁾	A2-A4 ³⁾	A2-A4 ³⁾	
Distance of fuse link bolts	mm		M5/73	M5/73	M5/73, M8/94	M5/73, M8/94	

Remark : Some fuse links limit these figures further. Starting current characteristics must be considered separately.

1) Ambient temperature 60°C : derating 20%

2) OS160G : Mounting on wall, horizontal fuses : derating 5%

3) Max fuse body diameter : 32mm

4) Some fuse links limit these figures further, starting current characteristics must be considered separately.

5) Acc to IEC60947-1, § 6.1.1. Minimum ambient temperature -5°C. Category B : -5°C...35°C

						
	OS200B	OS250B	OS315B	OS400B	OS630B	OS800B
	OS200B03P	OS250B03P	OS315B03P	OS400B03P	OS630B03P	OS800B03P
	OS200B04N2P	OS250B04N2P	OS315B04N2P	OS400B04N2P	OS630B04N2P	OS800B04N2P
	1000	1000	1000	1000	1000	1000
	10	10	10	10	10	10
	12	12	12	12	12	12
	200/17 200/15	250/23 250/20	315/32 315/32	400/45 400/30	630/60 570/50	800/65 720/55
	200/200/200 200/200/200	250/250/250 250/250/250	315/315/315 315/315/315	400/400/400 400/400/400	630/630/630 630/630/630	800/800/800 800/800/800
	1600	2000	3200	3200	6400	6400
	28 (200/200M315)	28 (250/200M315)	44 (400/400M500)	44 (400/400M500)	67 -	67 -
	28 (200/200M250)	28 (250/200M250)	48 (400/400M450)	48 (400/400M450)	55 -	55 -
	60 110 110 132 200	75 140 145 170 250	100 160 180 220 315	132 220 230 280 400	200 355 355 450 630	250 450 450 560 710
	B1-B2 M8/111	B1-B3 ⁷⁾ M8/111	B1-B4 ⁸⁾ M8/111	B1-B4 ⁸⁾ M8/111	C1-C2 M10/133, 184	C1-C3 M10/133, 184

Enclosed Switches

6) Max fuse body diameter : 22mm
7) Max fuse body diameter : 52mm
8) Max fuse body diameter : 62mm

Enclosed Switch-disconnectors and Fuse Switches Dimensions (mm)

Enclosed Switches

(4 × Ø DIA Fixing Holes)

