



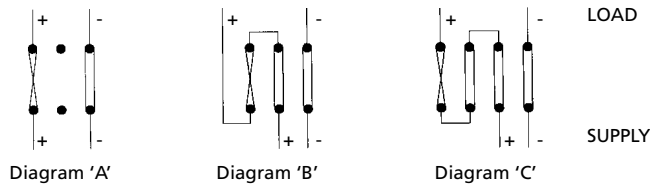
Technical Data

SWITCH SIZE		UFS32A1	UFS32	UFS63	UFS100A3
ELECTRICAL PERFORMANCE					
Fuse Size		A1	A2	A3	A3
Rated Insulation Voltage Pollution Degree ③	V	690	690	690	660
Dielectric Strength 50Hz 1 Min	kV	2.5	2.5	2.5	2.5
Rated Impulse Withstand Voltage	kV	8.0	8.0	8.0	8.0
Rated Enclosed Thermal Current (with Fuses) ①&②	A	32	50	100	100
With Maximum Fuse Power Dissipation	W	3.5	5.0	8.5	8.5
Rated Enclosed Thermal Current (with Solid Links) ②	A	50	50	100	100
Operational Current AC22A 380/415V	A	32	50	100	100
Operational Current AC23A 380/415V	A	32	32	63	100
	500/550V	A	32	32	45
	600/690V	A	20	20	45
Operational Power AC23A (Based on nominal Full Load Current)	415V	kW	15	15	30
	550V	kW	11	22	30
	660V	kW	11	11	37
Operational Current DC21 ⑥	Connection Diagram A.250V	A	32	32	80
	Connection Diagram B.400V	A	32	32	80
Operational Current DC22 ⑥	Connection Diagram A.250V	A	32	32	80
	Connection Diagram B.400V	A	32	32	80
Operational Current DC23 ⑥	Connection Diagram A.250V	A	32	32	80
	Connection Diagram B.400V	A	32	32	80
	Connection Diagram B.500V	A	15	15	75
	Connection Diagram C.500V	A	32	32	80
Rated Conditional Short Circuit rms 415V ④	kA	80	80	80	80
Corresponding max.allowed fuse cut off currents peak values ⑤	kA	7.5	10	12	16
AC23A operational performance, number of operations		10,000	10,000	10,000	10,000

MECHANICAL DETAILS

Operating Torque (typical for 3 pole Sw).	Nm	3	3	5	12
Terminal Bolt Size ⑦	-	Cage Clamp	Cage Clamp	Cage Clamp	M6
Terminal Tightening Torque ⑦ & ⑧	Nm	1.35	1.35	3.5	4.5
Fuse Bolt Tightening Torque ⑦	Nm	1.4	2.2	2.2	2.2
Creepage distance, Phase-Phase/Phase-Earth	mm	10/8	10/8	25/24	24/14
Clearance distance, Phase-Phase/Phase-Earth	mm	10/8	10/8	25/20	20/14
Isolation distance between contacts	mm	16	16	20	14
Weight of basic Switch 3 Pole	Kg	0.54	0.61	1.5	2.4
Maximum size of connections, Cable C.S.A.	mm ²	10	10	35	95
Cable size when using crimp type Spade Terminal ANE-3-U4	mm ²	16	16	-	-
1 Connection strip width maximum	mm	8.5	8.5	7.0	20
Minimum c.s.a of external connections at AC23A rating	mm ²	2.5	6	16	35

- Notes:**
- ① At these ratings the external copper connections must not be less than those specified in IEC947-3
 - ② The ratings are for switches in ambient temperatures up to 40°C. Above this temperature, derate the switches with solid links by 5% per 5° and switches with fuses in accordance with the fuse manufacturers recommendations.
 - ③ The operational current and category correspond to a breaking capacity of AC22A 3xl 0.45pf & AC23A UFS32A1-100 8xl 0.45pf, UFS160up 8xl 0.35pf
 - ④ The rated conditional short-circuit currents quoted were used for proving tests. The switches are therefore rated for use on any prospective short circuit not exceeding the value tested.



UFS160	UFS160AC22	UFS200	UFS315	UFS400	UFS630	UFS800C3	UFS800
A4	A4	B2	B3	B4	C3	C3	C3
690	690	690	690	690	690	690	660
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
8.0	8.0	8.0	8.0	8.0	8.0	8.0	-
160	200	250	355	400	630	800	800
14.5	16.8	19.0	28.0	32.0	50.0	64.0	64.0
200	200	315	400	500	800	800	-
160	200	250	355	400	630	800	800
160	160	200	315	400	630	800	800
125	125	200	315	400	-	-	-
80	80	200	250	-	-	-	-
75	75	110	160	220	355	450	450
90	90	150	220	-	-	-	-
75	75	160	275	-	-	-	-
170	170	315	315	400	630	630	-
170	170	315	315	400	630	630	-
170	170	315	315	400	630	630	-
170	170	315	315	400	630	630	-
170	170	315	315	400	630	630	-
170	170	315	315	400	630	630	-
125	125	200	200	315	630	630	-
170	170	315	315	400	630	630	-
80	80	80	80	80	80	80	80
27	27	33	37	47	61	61	70
8,000	8,000	8,000	8,000	5,000	5,000	3,000	3,000

16	16	27	27	27	27	27	60
M6	M6	M10	M10	M10	1 x M16 4 x M8	1 x M16 4 x M8	1 x M16 4 x M8
4.5	4.5	19.0	19.0	19.0	62.0 11.0	62.0 11.0	62.0 11.0
11.0	11.0	11.0	11.0	11.0	19.0	19.0	19.0
25/14	25/14	40/18	40/18	40/18	40/18	40/18	-
24/14	24/14	20/34	20/34	20/34	20/34	20/34	-
14	14	14	14	14	14	14	25
3.5	3.5	6.5	7.25	9.5	19.25	19.25	16.0
95	95	185	240	-	-	-	-
-	-	-	-	-	-	-	-
26	26	40	40	50	75	75	70
70	70	95	185	240	400	500	500

- ⑤ Fuse links must be selected with due regard to the prospective fault current of the system and the maximum peak cut-off current shown, which must not be exceeded.
- ⑥ DC21 - Switching of resistive loads, DC22 - Switching of mixed resistive and inductive loads, DC23 - Switching of inductive loads (e.g. series motors).
- ⑦ Torque values defined relate to nuts and bolts with clean dry threads
- ⑧ On UFS100 upwards, where main connections are of bolted type, care must be taken not to impose a heavy twisting force on the copper switch palms. The twisting load should be taken by a spanner holding the nut at the rear of the palm.