

Load break switches 25-3150A

Manually operated load break Switches.

- main switches
- motor control switches (AC 23 ratings)
- isolator switches
- local safety switches
- special application switches
- IEC 60947-3 / EN 60947-3
- VDE 0660 (Part 107) BS EN 60947-3



Frame		M1				M2		M3		MV
Thermal current I _{th} (40°C)		25A	32A	40A	63A	63A	100A	100A	125A	160A
Rated insulation voltage U _i	V	800	800	800	800	800	800	800	800	800
Rated impulse withstand voltage U _{imp}	kV	8	8	8	8	8	8	8	8	8
Rated operational currents I_e (A)										
Rated voltage	Load duty									
400 VAC	AC-22 A	25	32	40	63	63	80	100	125	160
400 VAC	AC-23 A	25	32	40	40	63	80	100	125	125
500 VAC	AC-21 A	25	32	40	63	63	80	100	125	160
500 VAC	AC-22 A	25	32	40	63	63	80	100	125	125
500 VAC	AC-23 A	25	25	25	40	63	63	80	100	100
690 VAC	AC-21 A	25	32	40	63	63	80	100	125	160
690 VAC	AC-22 A	25	32	40	40	63	63	80	100	125
690 VAC	AC-23 A	25	25	25	25	40	50	63	63	80
220 VDC	DC-21 A	25	32	40	63	63	80	100	125	160
220 VDC	DC-22 A	25	32	40	63	63	63	80	125	160
220 VDC	DC-23 A	25	32	40	40	63	63	63	125	125
400 VDC	DC-21 A	20	20	20	20	25	25	40	125	160
400 VDC	DC-23 A	-	-	-	-	-	-	-	125	125
Operational power in AC-23 A										
At 400 VAC without pre-break AC	kW	11	15	18.5	22	30	37	45	55	75
At 500 VAC without pre-break AC	kW	11	15	18.5	22	30	37	45	55	75
At 690 VAC without pre-break AC	kW	15	18.5	18.5	22	30	37	45	55	75
Reactive power										
At 400 VAC	kvar	10	12	15	20	25	25	45	55	75
Fuse protected short-circuit withstand										
Prospective short-circuit current	kA rms	50	50	50	50	50	50	50	50	50
Associated fuse rating	A	25	32	40	63	63	80	100	125	160
Overload capacity										
Rated short-time withstand current 1s I _{cw}	kA rms	1.26	1.26	1.26	1.26	1.5	1.5	2	2	4
Rated short-circuit make capacity current 1cm	kA peak	1.8	1.8	1.8	1.8	2.1	2.1	2.8	2.8	7
Connection										
Maximum Cu busbar width (40-160A cable)	mm	16mm ²	16mm ²	16mm ²	16mm ²	35mm ²	35mm ²	70mm ²	70mm ²	70mm ²
Min. tightening torque	Nm	2	2	2	2	3.5	3.5	4	4	8.4
Mechanical characteristics										
Endurance (number of operating cycles)	ops	100 000	100 000	100 000	100 000	100 000	100 000	100 000	100 000	50 000
Operating effort	Nm	20.8	20.8	20.8	1	1	1	4	4	4
Dimensions 3 pole (mm)										
High	mm	68	68	68	68	76	76	125	125	125
Wide	mm	45	45	45	45	52	52	78	78	109
Deep	mm	75	75	75	75	75	75	75	75	176



160A	200A	250A	315A	400A	500A	630A	800A	1000A	1250A	1600A	2000A	2500A	3150A
800	800	800	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
8	8	8	12	12	12	12	12	12	12	12	12	12	12
160	200	250	315	400	500	630	800	1000	1250	1600	2000	2000	2500
160	200	250	315	400	500	500	800	1000	1250	1250	1250	1250	1250
160	200	250	315	400	500	630	800	800	800	1600	2000	2500	3150
125	200	250	315	400	400	500	800	800	800	1250	1600	1600	2000
100	160	200	315	315	315	315	630	630	630	1000	1000	1000	1000
160	160	200	315	400	400	500	800	800	800	1000	2000	2000	2000
125	125	125	250	250	250	315	800	800	800	1000	1000	1000	1000
63	80	100	160	160	160	160	200	200	200	500	800	800	800
160	160	250	315	400	500	630	800	1000	1250	1250	2000	2000	2000
160	160	250	315	400	400	500	800	1000	1250	1250	1250	1250	1250
125	160	200	315	400	400	500	800	1000	1250	1250	1250	1250	1250
160	160	200	315	400	400	500	800	1000	1250	1250	2000	2000	2000
125	160	200	315	400	400	500	800	1000	1250	1250	1000	1000	1000
80	100	132	160	220	280	280	450	560	710	710	710	710	710
63	110	140	220	220	220	220	450	450	450	710	710	710	710
55	75	90	150	150	150	150	185	185	185	475	750	750	750
75	90	115	145	185	230	290	365	460	575	-	-	-	-
100	80	50	100	100	100	70	50	100	100	100	100	-	
160	200	250	315	400	500	630	800	1000	1250	2 x 800	2 x 1000	2 x 1250	-
7	9	9	13	13	13	13	26	35	35	50	50	50	55
20	30	30	45	45	45	45	55	80	80	110	110	110	120
25	32	32	40	40	40	50	63	63	63	100	125	125	125
9	20	20	20	20	20	20	-	-	-	40	40	40	40
10 000	10 000	10 000	5 000	5 000	5 000	5 000	3 000	3 000	3 000	4 000	3 000	2 500	2 500
6.5	10	10	14.5	14.5	14.5	14.5	37	37	37	56	60	60	60
135	160	160	235	235	260	260	321	321	330	288	455	455	505
140	180	180	230	230	230	230	280	280	280	372	372	372	372
115	135	135	135	165	165	165	166	166	166	166	314	314	314