

SwitchLine

OT change-over switches 160 - 800

Technical data

Technical data according to IEC 60947-3

Switch size			OT160_	OT200_	OT250_	OT315_	OT400_	OT630_	OT800_
Rated insulation voltage and rated operational voltage AC-20, DC-20 Dielectric strength Rated impulse withstand voltage	Pollution degree 3	V	1 000	1 000	1 000	1 000	1 000	1 000	1 000
		50 Hz 1min. kV	10	10	10	10	10	10	10
		kV	12	12	12	12	12	12	12
Rated thermal current and rated operational current AC-20, DC-20 in ambient 40 °C	In open air In enclosure	A	160	200	250	315	400	630	800
		A	160	200	250	315	400	630	800
		Cu mm ²	70	95	120	185	240	2x185	2x240
...with minimum cable cross section									
Rated operational current, AC-21A		≤ 500 V A	160	200	250	315	400	630	800
		690 V A	160	200	250	315	400	630	800
Rated operational current, AC-22A		≤ 500 V A	160	200	250	315	400	630	800
		690 V A	160	200	250	315	400	630	800
Rated operational current, AC-23A		≤ 500 V A	160	200	250	315	400	630	800
		690 V A	160	200	250	315	400	630	800
Rated operational power, AC-23 ¹⁾		230 V kW	45	55	75	90	132	200	250
		400 V kW	90	110	132	160	200	355	400
		415 V kW	90	110	132	160	200	355	400
		500 V kW	110	132	160	200	250	400	560
		690 V kW	132	160	250	315	400	630	800
Rated breaking capacity in category AC-23		≤ 500 V A	1280	1600	2000	2520	3200	5040	6400
		690 V A	1280	1600	2000	2520	3200	5040	6400
Rated conditional short-circuit current I _p (R.M.S.) and corresponding max. allowed cut-off current \hat{i}_c peak value	I _p (R.M.S.) Max. OFA_ fuse size gG/aM	100 kA, 500 V kA	40.5	40.5	40.5	61.5	61.5	75	75
		A	315/315	315/315	315/315	500/450	500/450	800/800	800/800
The cut-off current \hat{i}_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I _p (R.M.S.) Max. OFA_ fuse size gG/aM	80 kA, 690 V kA	40.5	40.5	40.5	59	59	70	70
		A	355/315	355/315	355/315	500/500	500/500	800/1000	800/1000
Rated short-time withstand current	R.M.S. value I _{cw}	690 V 0,15s kA	15	15	15	31	31	38	38
		690 V 0,25s kA	15	15	15	24	24	36	36
		690 V 1s kA	8	8	8	15	15	20	20
Rated short-time making capacity	Peak value I _{cm}	690 V kA	30	30	30	65	65	80	80
Mechanical endurance	Divide by four for oper. cycles ²⁾	Oper.	16 000	16 000	16 000	16 000	16 000	10 000	10 000
Weight without accessories	3-pole switch 4-pole switch	kg	2.5	2.5	2.5	4.7	4.7	12.8	12.8
		kg	3.2	3.2	3.2	5.8	5.8	15.6	15.6
Terminal bolt size	Metric thread diameter x length	mm	M8x25	M8x25	M8x25	M10x30	M10x30	M12x40	M12x40
Terminal tightening torque	Counter torque required	Nm	15-22	15-22	15-22	30-44	30-44	50-75	50-75
Operating torque	Typical for 3-pole switch fuses	Nm	7	7	7	16	16	27	27

¹⁾ These values are given for guidance and may vary acc. to the motor manufacturer.

²⁾ Operating cycle: 0 - I - 0 - II - 0.