

Switch Disconnectors

Steel Enclosed 100-630A

A high performance range of IP65 switch disconnectors, in 3P+N configuration, presented in a range of modular enclosure sizes, with ratings from 100A-630A. Suitable for making and breaking on load, and featuring double break self cleaning contacts with visible contact position. These products feature spacious enclosures for ease of wiring.



General Characteristics

- Contact position reliably indicated via the rotary operating handle
- Lug type terminals with transparent terminal shields on both line and load side
- High breaking capacity
- Self cleaning double break contacts
- Visible confirmation of fixed and moving contact positions
- Independent manual operation
- Bolted Neutral disconnecting link
- High electrical and mechanical endurance
- Padlock able with 3 padlocks in OFF position

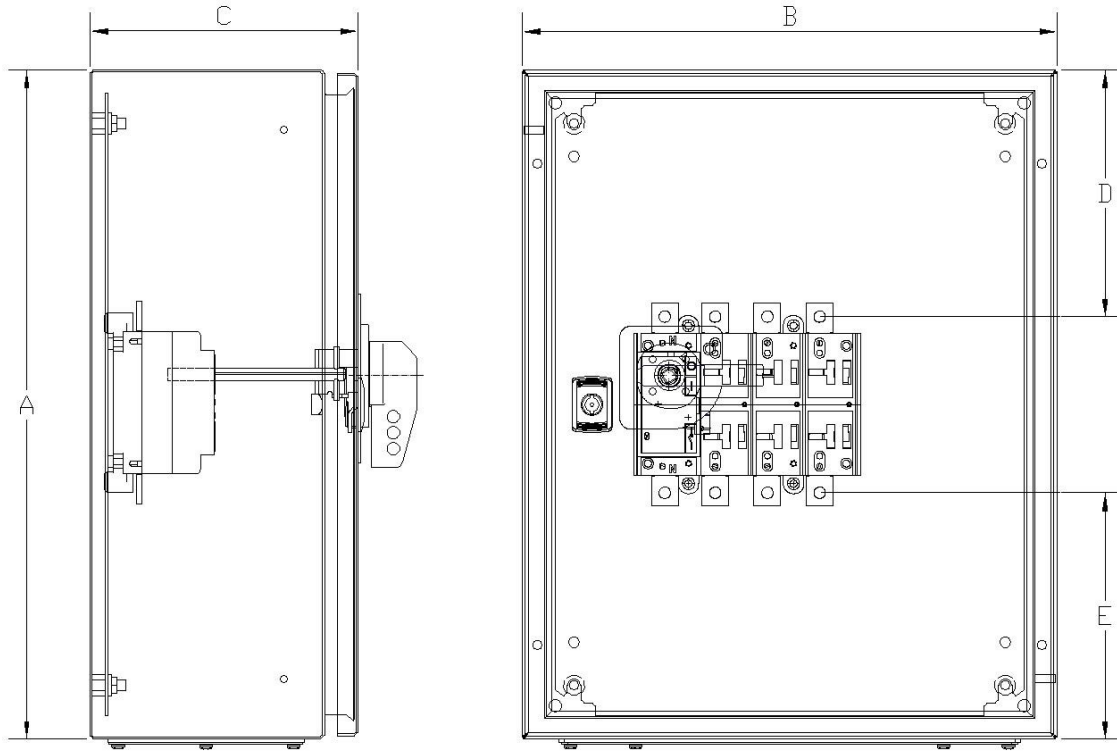
Enclosed Switch Disconnector Ordering Codes		
Rated Current	Handle Colour	3P+N (Solid N*)
100A	Black	207211
125A		207212
160A		207213
200A		207214
250A		207215
315A		207216
400A		207217
630A		207218

Technical Data	
Reference standard	IEC60947-1 IEC60947-3
Rated operational voltage (Ue)	690Vac
Rated current (Ith/Ie) ≤40°C	100-630A
No. of poles	3 or 4
Neutral pole options	Solid
Rated frequency (Fn)	50/60Hz
Ingress protection EN60529	IP65
Impact resistance EN60529	IK08
Working ambient temperature	-25 to +40°C
Altitude (above sea level)	2000M max
Pollution degree	3
Storage temperature	-25 to +55°C
Enclosure finish colour	RAL7035
Enclosure construction	Mild Steel
Pad lockable handle	OFF position
Handle padlock positions	3
Door interlocked	ON position

Technical Characteristics									
Rated Current In /Ith	A	100A	125A	160A	200A	250A	315A	400A	630A
Rated insulation voltage Ui	V	1500	1500	1500	1500	1500	1500	1500	1500
Impulse withstand Uimp	kV	8	8	12	12	12	12	12	12
Rated Operational Current Ie AC21A/B	400V	100A	125A	160A	200A	250A	315A	400A	630A
	500V	100A	125A	160A	200A	250A	315A	400A	630A
	690V	100A	125A	160A	200A	250A	315A	400A	630A
AC22A/B	400V	100A	125A	160A	200A	250A	315A	400A	630A
	500V	100A	125A	160A	200A	250A	315A	400A	630A
	690V	100A	125A	160A	200A	250A	315A	400A	630A
AC23A/B	400V	100A	125A	160A	200A	250A	315A	400A	630A
	500V	80A	100A	125A	160A	200A	250A	315A	630A
	690V	63A	80A	100A	125A	160A	200A	250A	630A
DC21A/B	220V	100A	125A	160A	200A	250A	315A	400A	630A
	420V	-	-	160A	200A	250A	315A	400A	630A
	560V	-	-	60A	60A	60A	315A	400A	630A
DC22A/B	220V	100A	125	160A	200A	250A	315A	400A	630A
	420V	-	-	160A	200A	250A	315A	400A	630A
	560V	-	-	40/60A	40/60A	40/60A	315A	400A	630A
DC23A/B	220V	63A	80A	160A	200A	250A	315A	400A	630A
	420V	-	-	160A	200A	250A	315A	400A	630A
	560V	-	-	160A	200A	250A	315A	400A	630A
Rated making capacity (A) AC23	400V	1000	1250	1600	2000	2500	3150	4000	6300
Rated breaking capacity (A) AC23	400V	800	1000	1280	1600	2000	2520	3200	5040
	500V	800	1000	1280	1600	2000	2520	3200	5040
Short circuit withstand current (1s)	kA	5	5	8	8	8	13	13	26.5
Short circuit withstand current (0.25s)	kA	10	10	16	16	16	26	26	53
Short circuit making capacity (400V)	kA	7.5	7.5	13.5	13.5	13.5	26	26	30
Rated operational power AC23A (400V)	kW	52	65	85	105	130	165	210	330
Power loss per pole	W	1.1	1.7	1.6	2.4	3.8	5.9	9.4	15.6
Terminal palm lug width	mm	15	15	20	20	20	25	25	30
Recommended Cable section	mm ²	35	50	70	95	120	185	240	2x185
Terminal tightening torque	Nm	8	8	12	12	12	18	18	34
Mechanical endurance	n	12000	10000	10000	10000	10000	8000	8000	8000
Electrical endurance	n	3000	2000	2000	2000	2000	1500	1500	1500

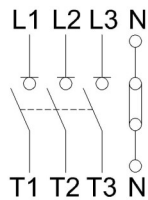
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	100A	125A	160A	200A	250A	315A	400A	630A
A	400	400	500	500	600	700	700	800
B	300	300	400	400	400	500	500	600
C	150	150	200	200	200	200	200	300
D	151	151	184	186	234	264	264	300
E	151	151	184	186	234	264	264	300

Schematic Diagram



Temperature Derating Factor

For installations with ambient temperature exceeding 40°C, the following derating formula must be applied;

t_a = Ambient temperature
 I_{the} = New thermal current rating

$$I_{the} = k I_{th} \quad \text{where} \quad k = 1 - \frac{t_a - 40}{100}$$