Technical Data **TD135003EN**

Effective October 2020

Eaton's J-range enclosed switch-disconnects



Product description

Eaton's J-range enclosed switch-disconnects are an ideal solution to solve challenges posed in residential, commercial and light industrial segments and their associated applications.

Standard features

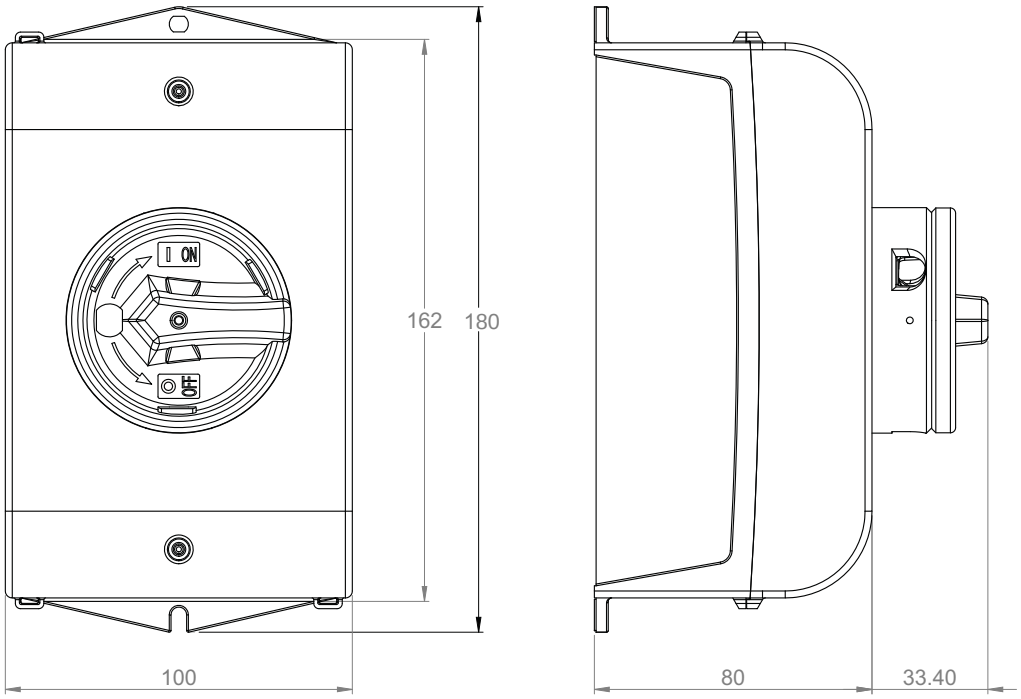
- Compatible with Eaton's SVB handles for emergency cut-off and switch-disconnection
- IEC, CCC and CE approved
- 3-pole and 3-pole + neutral configurations
- IP65 UV protection
- Soft polymer membrane cable entry

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Product range

J-Range main switch-disconnects specifications			Polycarbonate enclosure specifications				
Size	**Number of poles**	**Amp rating**	**Size**	**Handle colour**	**Handle type**	**Part number**	**Article number**
J1	3-pole	16 A	2	Red	Rotary handle – padlockable in OFF position	J16/R	Y7-199727
J1	3-pole	16 A	2	Black		J16/B	Y7-199728
J1	3-pole + Neutral	16 A	2	Red		J16/R/N	Y7-199729
J1	3-pole + Neutral	16 A	2	Black		J16/B/N	Y7-199730
J1	3-pole	20 A	2	Red		J20/R	Y7-199541
J1	3-pole	20 A	2	Black		J20/B	Y7-199545
J1	3-pole + Neutral	20 A	2	Red		J20/R/N	Y7-199549
J1	3-pole + Neutral	20 A	2	Black		J20/B/N	Y7-199553
J1	3-pole	25 A	2	Red		J25/R	Y7-199542
J1	3-pole	25 A	2	Black		J25/B	Y7-199546
J1	3-pole + Neutral	25 A	2	Red		J25/R/N	Y7-199550
J1	3-pole + Neutral	25 A	2	Black		J25/B/N	Y7-199554
J1	3-pole	32 A	2	Red		J32/R	Y7-199543
J1	3-pole	32 A	2	Black		J32/B	Y7-199547
J1	3-pole + Neutral	32 A	2	Red		J32/R/N	Y7-199551
J1	3-pole + Neutral	32 A	2	Black		J32/B/N	Y7-199555
J1	3-pole	40 A	2	Red		J40/R	Y7-199544
J1	3-pole	40 A	2	Black		J40/B	Y7-199548
J1	3-pole + Neutral	40 A	2	Red		J40/R/N	Y7-199552
J1	3-pole + Neutral	40 A	2	Black		J40/B/N	Y7-199556

Dimensions - mm



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			J16	J20	J25	J32	J40
Rated uninterrupted current		I_u	16 A	20 A	25 A	32 A	40 A
Rated operational voltage		U_e	690 V .a.c	690 V a.c.	690 V a.c.	690 V a.c.	690 V a.c.
Rated impulse withstand voltage		U_{imp}	6 kV	6 kV	6 kV	6 kV	6 kV
Rated frequency			50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Operation temperature			-25°C...+40°C	-25°C...+40°C	-25°C...+40°C	-25°C...+40°C	-25°C...+40°C
Rated operational current							
AC-21A	At U_e = 415 V		16 A	20 A	25 A	32 A	40 A
	At U_e = 500 V		16 A	20 A	25 A	32 A	40 A
	At U_e = 690 V		16 A	20 A	25 A	32 A	40 A
AC-22A	At U_e = 415 V		16 A	20 A	25 A	32 A	40 A
	At U_e = 500 V		16 A	20 A	25 A	32 A	40 A
	At U_e = 690 V		16 A	20 A	25 A	32 A	40 A
Rated breaking capacity							
AC-21A	At U_e = 415 V		24 A	30 A	37.5 A	48 A	60 A
	At U_e = 500 V		24 A	30 A	37.5 A	48 A	60 A
	At U_e = 690 V		24 A	30 A	37.5 A	48 A	60 A
AC-22A	At U_e = 415 V		48 A	60 A	75 A	96 A	120 A
	At U_e = 500 V		48 A	60 A	75 A	96 A	120 A
	At U_e = 690 V		48 A	60 A	75 A	96 A	120 A
Rated short-time withstand current		I_{cw}	640 A - 1 sec	640 A - 1 sec	640 A - 1 sec	640 A - 1 sec	640 A - 1 sec
Short-circuit rating							
	Fuse link max		50 A	50 A	50 A	50 A	50 A
	Rated conditional short-circuit current	I_q	80 kA	80 kA	80 kA	80 kA	80 kA
Durability - maximum cycles (on+off)			300,000	300,000	300,000	300,000	300,000
Overvoltage category/Pollution degree			III/3	III/3	III/3	III/3	III/3
Protection class			IP65	IP65	IP65	IP65	IP65
Max terminal capacities			10 mm^2 or 2 x 6 mm^2	10 mm^2 or 2 x 6 mm^2	10 mm^2 or 2 x 6 mm^2	10 mm^2 or 2 x 6 mm^2	10 mm^2 or 2 x 6 mm^2

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