

Metal IP65 Enclosed Fuse Switches

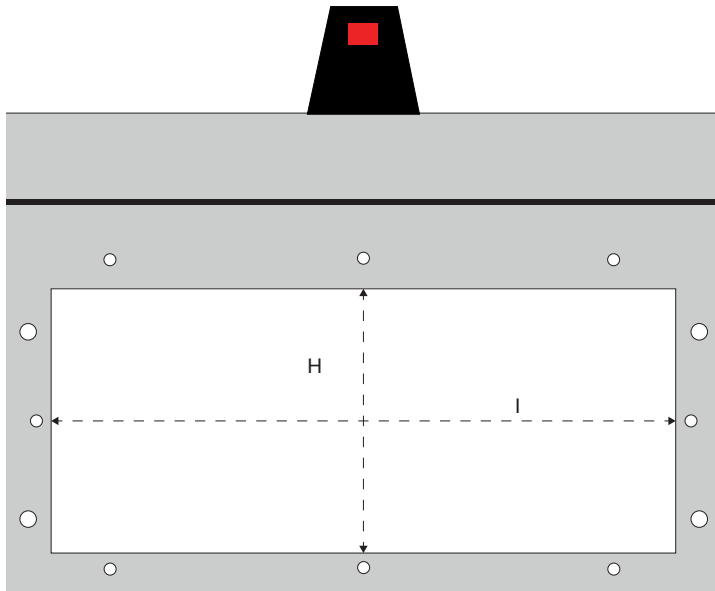
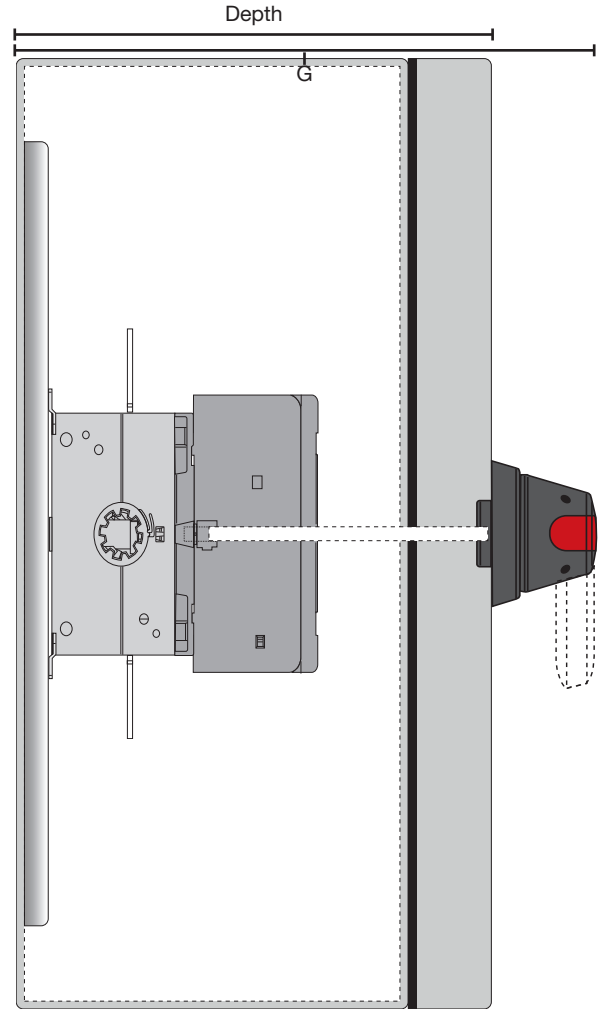
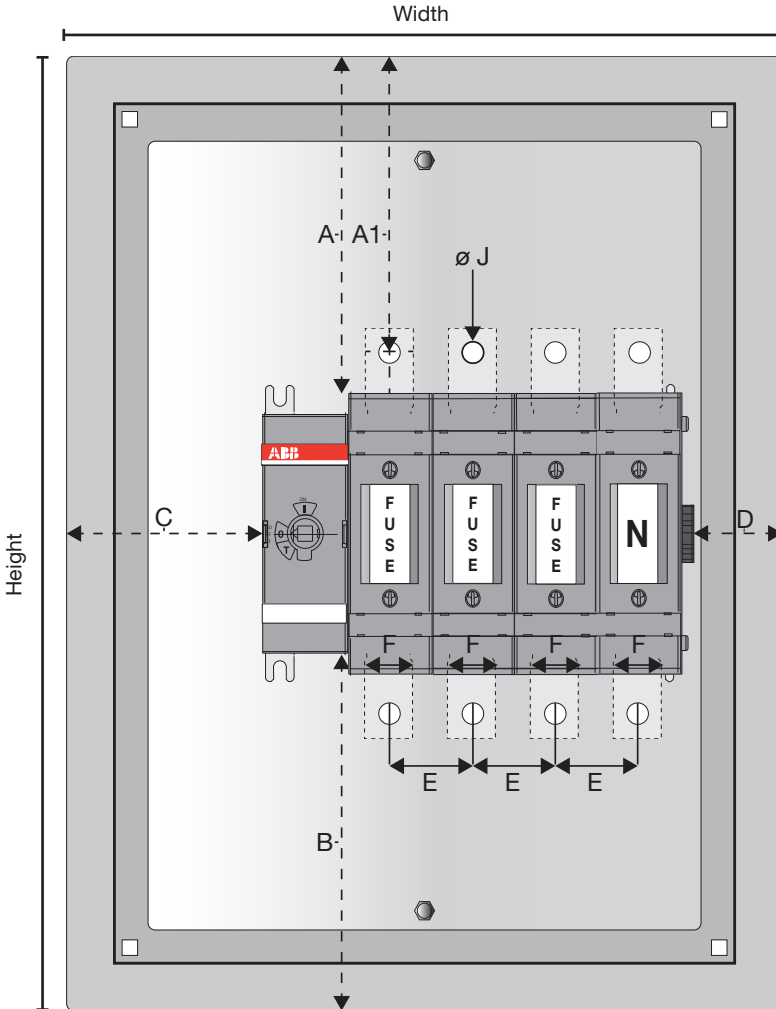
RYEFSxxx4T / 4XLT (32-160A)

Part Number	Height	Width	Depth	A	A1	B	C	D	E	F	G	H	I	J
RYEFS0324T **	400	300*	200	150	N/A	150	82	82.5	23.5	N/A	245	110	260	N/A
RYEFS0634T **	400	300*	200	150	N/A	150	82	82.5	23.5	N/A	245	110	260	N/A
RYEFS1004T	400	300*	200	141	122.25	141	82	36.5	35	20	245	110	260	9
RYEFS1254T	400	300*	200	141	122.25	141	82	36.5	35	20	245	110	260	9
RYEFS1254XLT	1000	600*	300	441	422.5	441	206	212.5	35	20	345	194	560	9
RYEFS1604T	500	400*	200	191	175	191	82	136.5	35	20	245	110	360	9
RYEFS1604XLT	1000	600*	300	441	422.5	441	206	212.5	35	20	345	194	560	9

All measurements are in mm.

* Please allow for an additional 23 mm either side of the enclosure to account for wall mounting brackets.

** Please Note: The product RYEFS0324T & RYEFS0634T uses screw terminals and while dimensions are correct the product will differ visually from the drawings below.



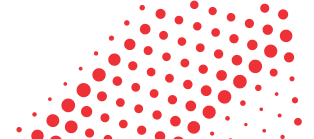
! IMPORTANT SAFETY NOTICE !

It is the responsibility of the person installing the electrical equipment to ensure the installation meets the requirements of the IET wiring regulation and is therefore 'fit for purpose'.

Factors such as correct selection of components, cable sizing, protective devices and earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current Health and Safety legislation must be adhered to.

Terminals, including factory fitted should be checked periodically to ensure correct tightness. Hank nuts, if used, must be well supported to achieve required torque settings.

DO NOT USE POWER TOOLS ON THESE PRODUCTS!



Metal IP65 Enclosed Fuse Switches

RYEFSxxx4T / 4XLT (32-160A)

Criteria		RYEFS0324T	RYEFS0634T	RYEFS1004T	RYEFS1254T	RYEFS1254XLT	RYEFS1604T	RYEFS1604XLT
Enclosure dimensions		H400xW300xD200	H400xW300xD200	H400xW300xD200	H400xW300xD200	H1000xW600xD300	H500xW400xD200	H1000xW600xD300
Material	Sheet Steel (EN 10130 DC01)	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm	Body: 1.2/1.5 mm Door: 1.2/1.5 mm
IP rating	Enclosure Handle	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65	IP66 (EN 60529) IP65
Surface finish		RAL7035w powder coating	RAL7035w powder coating	RAL7035w powder coating	RAL7035w powder coating	RAL7035w powder coating	RAL7035w powder coating	RAL7035w powder coating
Total product weight		9.5 kg	9.5 kg	11 kg	11 kg	38.5 kg	15 kg	38.5 kg
Additional fixings		2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key	2 x Gland plates 1 x Wall mounting kit 1 x Key
Supplied fuses		BS88 63A	BS88 63A	BS88 100A	BS88 125A	BS88 125A	BS88 160A	BS88 160A

Technical data according to IEC 60947-3

Criteria		RYEFS0324T	RYEFS0634T	RYEFS1004T	RYEFS1254T RYEFS1254XLT	RYEFS1604T RYEFS1604XLT
Rated insulation voltage		1000 V	1000 V	1000 V	1000 V	1000 V
Dielectric strength	Pollution degree 3	10 kV	10 kV	10 kV	10 kV	10 kV
Rated impulse withstand voltage		12 kV	12 kV	8 kV	8 kV	8 kV
Rated thermal current in ambient 35 °C and temporarily 40 °C¹⁾ / max. fuse power dissipation	In open air	32 A/7.5 W	63 A/7.5 W	100 A/12 W	125 A/12 W	160 A/12 W
	In enclosure	32 A/7.5 W	63 A/7.5 W	100 A/12 W	125 A/12 W	160 A/12 W
...with minimum cable cross section	Cu	6 mm ²	16 mm ²	50 mm ²	50 mm ²	70 mm ²
Power loss / pole	With rated current, without fuse	1 W	4 W	4 W	5 W	9 W
Derating, mounting on wall horizontal fuses	In open air or ventilated enclosure	0 %	0 %	0 %	0 %	0 %
	Totally enclosed	5 %	5 %	5 %	5 %	5 %
Derating, mounting on ceiling		10 %	10 %	10 %	10 %	10 %
Derating at 60°C	In open air/ in enclosure	20/20 %	20/20 %	20/20 %	20/20 %	20/20 %
Rated operational voltage AC-20 and DC-20		1000 V	1000 V	1000 V	1000 V	1000 V
Rated operational current, AC-21A	up to 500 V	32 A	63 A	100 A	125 A	160 A
	690 V	32 A	63 A	100 A	125 A	160 A
Rated operational current, AC-22A	up to 500 V	32 A	63 A	100 A	125 A	160 A
	690 V	32 A	63 A	100 A	125 A	160 A
Rated operational current, AC-23A	up to 500 V	32 A	63 A	100 A	125 A	160 A
	690 V	32 A	63 A	100 A	125 A	160 A
Rated operational current / poles in series DC-21A	48 V	32 A/2	63 A/2	100 A/2	125 A/2	160 A/2
	110-220 V	32 A/2*	63 A/2*	100 A/2*	125 A/2*	125 A/2*
	440 V	32 A/4*	50 A/4*	100 A/4*	125 A/4*	125 A/4*
Rated operational current / poles in series DC-22A	48 V	32 A/2	63 A/2	100 A/2	125 A/2	160 A/2
	110-220 V	32 A/2*	63 A/2*	100 A/2*	125 A/2*	125 A/2*
Rated operational current / poles in series DC-23A	48 V	32 A/2	63 A/2	100 A/2	125 A/2	160 A/2
	110-220 V	32 A/2*	63 A/2*	100 A/2*	125 A/2*	125 A/2*
Rated operational power, AC-23²⁾	The kW-ratings are accurate for three-phase 1500 R.P.M. standard asynchronous motors.	230 V 400 V 415 V 500 V 690 V	7.5 kW 15 kW 15 kW 18.5 kW 22 kW	18.5 kW 30 kW 30 kW 37 kW 55 kW	30 kW 55 kW 55 kW 75 kW 90 kW	37 kW 55 kW 55 kW 75 kW 110 kW
Rated breaking capacity in category AC-23		≤ 690 V	504 A	504 A	1280 A	1280 A
Rated breaking capacity / poles in series in category DC-23		up to 220 V	252 A/2	252 A/2	640 A/2	640 A/2
Rated conditional short-circuit current I_q (r.m.s.) and corresponding max. allowed cut-off current of fuse I_c	I _q 80 kA, 415 V	Max allowed I _c Max OFA ₁ fuse size gG/aM	13.5 kA 80/63 A	13.5 kA 80/63 A	23.5 kA 160/160 A	23.5 kA 160/160 A
	I _q 100 kA, 500 V	Max allowed I _c Max OFA ₁ fuse size gG/aM	12.5 kA 63/50 A	12.5 kA 63/50 A	25.5 kA 160/160 A	25.5 kA 160/160 A
	I _q 50 kA, 690 V	Max allowed I _c Max OFA ₁ fuse size gG/aM	9.5 kA 63/50 A	9.5 kA 63/50 A	17.5 kA 125/160 A	17.5 kA 125/160 A
The cut-off current I_c refers to values listed by fuse manufacturers (single phase test acc. to IEC60269).	I _q 80 kA, 690 V	Max allowed I _c Max OFA ₁ fuse size gG/aM	11.5 kA 50/50 A	11.5 kA 50/50 A	20.5 kA 125/160 A	20.5 kA 125/160 A
	I _q 50 kA, 415 V	Max allowed I _c Max BS fuse size gG/gM	10 kA 63/63M80 A	10 kA 63/63M80 A	18 kA 160/100M160 A	18 kA 160/100M160 A
	I _q 80 kA, 415 V	Max allowed I _c Max BS fuse size gG/gM	13 kA 63/63M80 A	13 kA 63/63M80 A	19.5 kA 160/100M125 A	19.5 kA 160/100M125 A
Rated short-time withstand current, 1 s.	r.m.s. -value		2.5 kA	2.5 kA	5 kA	5 kA
Rated capacitor power when no initial charge on the capacitor	The capacitor rating of the switch-fuse is limited by the fuse link.	400 V 415 V 690 V	15 kVAr 15 kVAr 25 kVAr	25 kVAr 32 kVAr 50 kVAr	40 kVAr 42 kVAr 75 kVAr	50 kVAr 55 kVAr 90 kVAr
Mechanical endurance	Divide by two for operation cycles		20 000 Oper.	20 000 Oper.	20 000 Oper.	16 000 Oper.
	DIN 43620		000 ⁶⁾	000 ⁶⁾		000,00 ⁶⁾⁷⁾
	NFC 63210, 63211					22x58
Fuse types, IEC 60269-2			A2-A3 ³⁾	A2-A3 ³⁾	A2-A4 ⁴⁾	A2-A4 ⁴⁾
	BS 88-2, -6					
	distance of fuse-link bolts		M5/73 mm	M5/73 mm	M5/73 mm	M5/73 mm
	distance of fuse-link bolts				M8/94 mm	M8/94 mm
Cable size		Cu	2.5...25 mm ²	2.5...25 mm ²		
Terminal tightening torque			3/4 Nm ⁵⁾	3/4 Nm ⁵⁾	15-22 Nm	15-22 Nm
Fuse-links bolts tightening torque	Counter torque required		3.5 Nm	3.5 Nm	M5:3.5 Nm M8:5 Nm	M5:3.5 Nm M8:5 Nm
Operating torque	Typical for 4-pole switch fuses		5 Nm	5 Nm	7 Nm	7 Nm

* = Utilization category B.

¹⁾ Acc. to IEC 60947-1, § 6.1.1. Minimum ambient temperature -5°C. Category B: -5°C...-35°C.

²⁾ Some fuse links limit these figures further. Starting current characteristics must be considered separately.

³⁾ Max. fuse body diam. 22 mm.

⁴⁾ Max. fuse body diam. 32 mm.

⁵⁾ 3 Nm with cable sizes 2.5...6 mm², 4 Nm with cable sizes 10...25 mm².

⁶⁾ Max. allowed knife dimension h is 15 mm.

⁷⁾ For solid link size 00 the a dimension must be min. 80.0 mm.