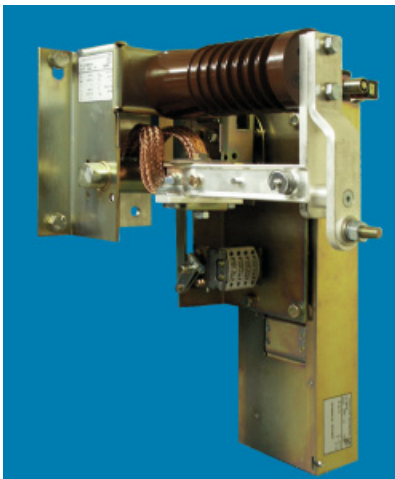




## Earthing switches for Railway application

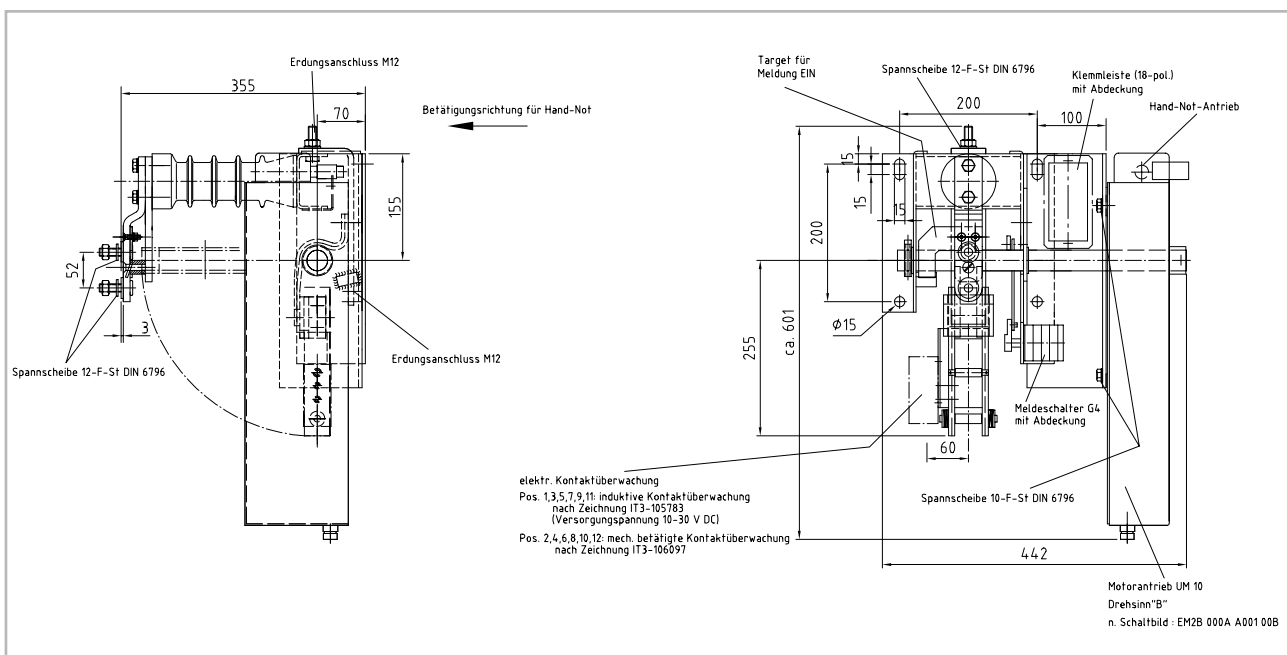
DRIESCHER - Single-pole **Indoor** Earthing switch for **AC** application

### Single-pole Indoor Earthing switch AC



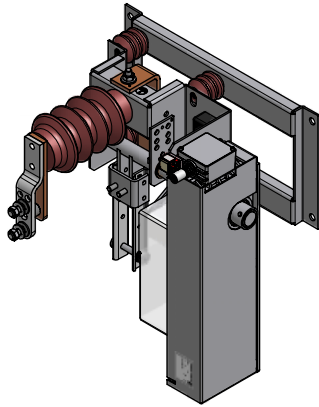
Type		ES 15-31,5-1B	ES 15-35-1B
Nominal voltage	$U_n$	15 kV	15 kV
Rated insulation level	$U_{Nm}$	17,5 kV	17,5 kV
Rated lightning impulse withstand voltage	$U_{Ni}$	125 kV	125 kV
Rated short time power-frequency test voltage level	$U_a$	50 kV	50 kV
Rated frequency	$f_r$	16,7 / 50 Hz	16,7 / 50 Hz
Rated short-time withstand current	$I_k$	31,5 kA	40 kA
Rated duration of short-circuit current	$t_k$	1 s	0,5 s
Rated peak withstand current	$I_p$	80 kA	-
Rated short-circuit making current	$I_{ma}$	80 kA	80 kA
Mechanical endurance (Operating cycles)		1.000	20.000
Drawing No.		IT3-097013	IT3-106142

- with motordrive
- 4-pole signalling contact



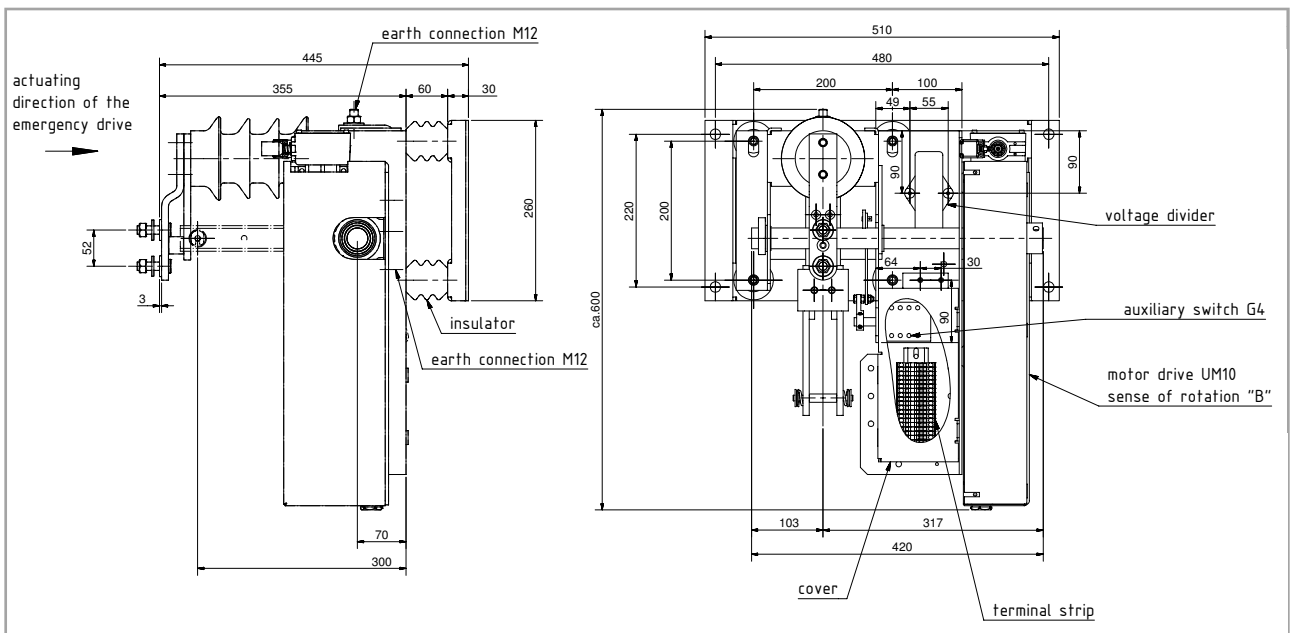
# DRIESCHER - Single-pole Indoor Earthing switch for DC application

## Single-pole Indoor Earthing switch DC



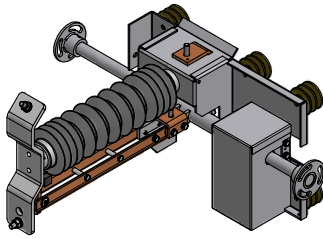
Type	ES 1,5-35-1B	
Nominal voltage	$U_n$	1,5 kV
Rated insulation level	$U_{Nm}$	3 kV
Rated lightning impulse withstand voltage	$U_{Ni}$	75 kV
Rated short time power-frequency test level	$U_a$	28 kV
Rated short-time withstand current	$I_{NCW}$	35 kA
Rated duration of short-circuit current	$t_k$	0,25 s
Rated short-circuit making current	$I_{ma}$	50 kA
Mechanical endurance (Operating cycles)	10.000	
Drawing No.	IT3-112495	

- with motordrive
- 4-pole signalling contact



# DRIESCHER - Outdoor Earthing switches for AC application

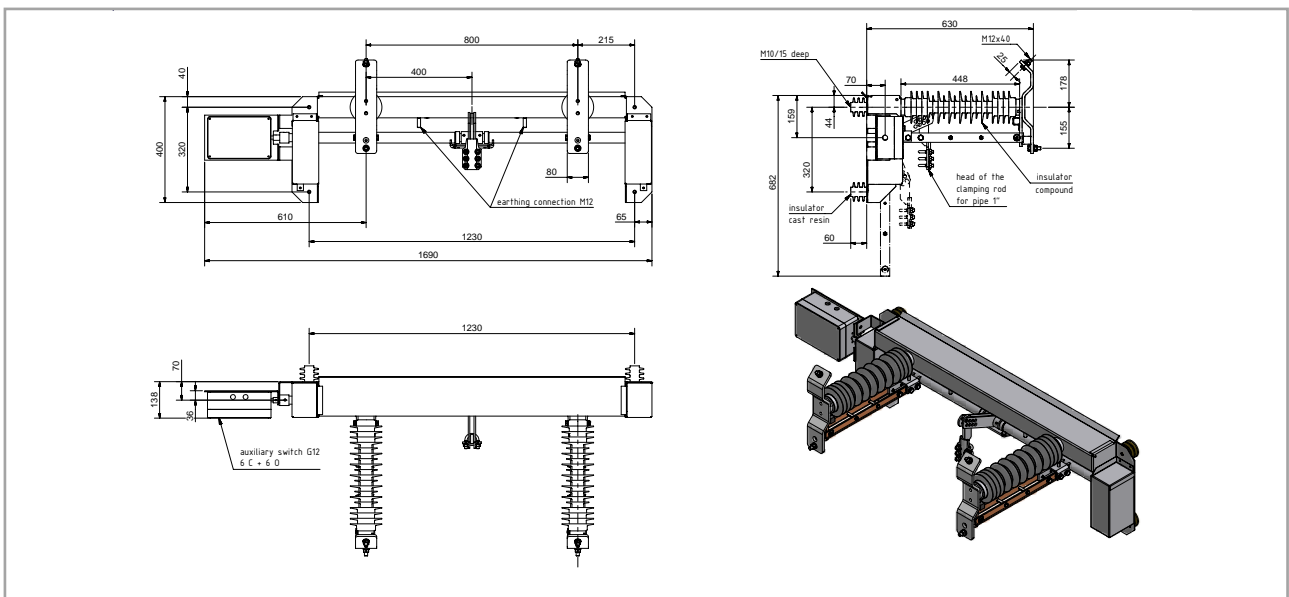
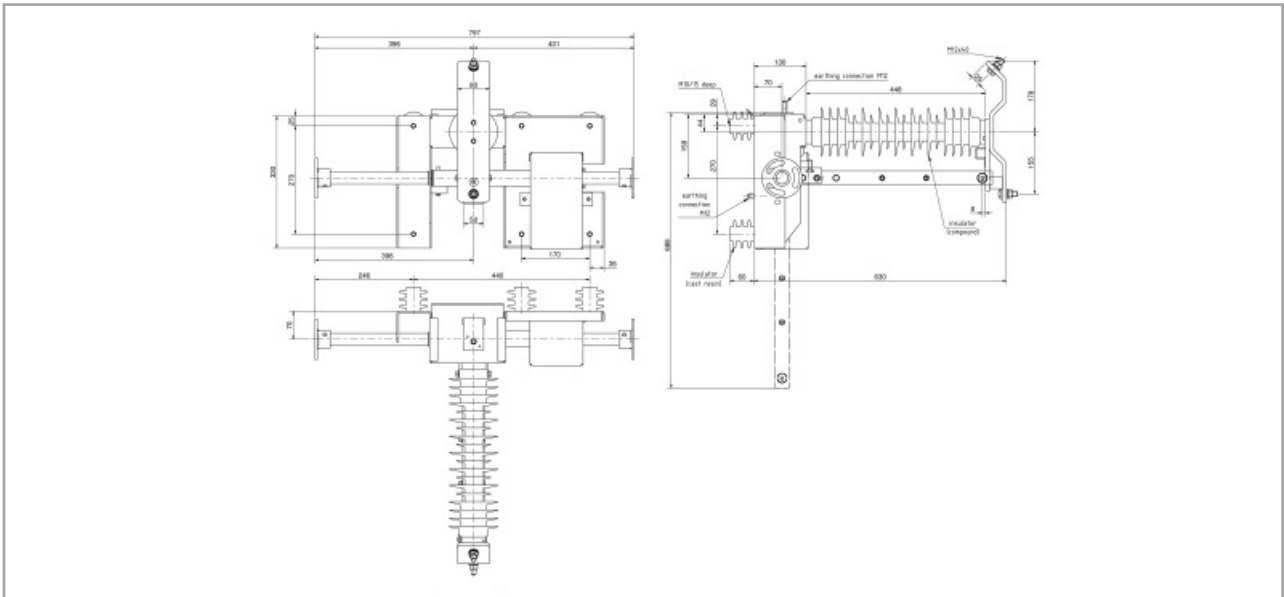
## Outdoor Earthing switches AC



Pic. FES 25-16-1B

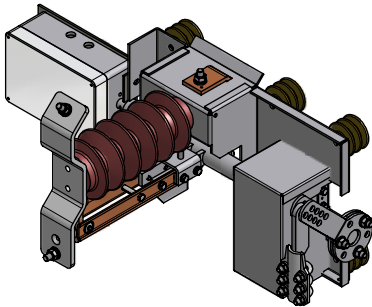
Type	FES 25-16-1B	FES 25-16-2B	FES 25-16-3B
Nominal voltage	$U_n$ 25 kV	25 kV	25 kV
Rated insulation level	$U_{Nm}$ 27,5 kV	27,5 kV	27,5 kV
Rated lightning impulse withstand voltage	$U_{Ni}$ 250 kV	250 kV	250 kV
Rated short power-frequency test voltage level	$U_a$ 95 kV	95 kV	95 kV
Rated frequency	$f_r$ 50 Hz	50 Hz	50 Hz
Rated short-time withstand current	$I_k$ 16 kA	16 kA	16 kA
Rated duration of short-circuit current	$t_k$ 1 s	1 s	1 s
Rated peak withstand current	$I_p$ 40 kA	40 kA	40 kA
Rated short-circuit making current	$I_{ma}$ 40 kA	40 kA	40 kA
Mechanical endurance (Operating cycles)	2.000	2.000	2.000
Drawing No.	FT3-108915	FT3-109600	FT3-108915

- with auxiliary switch
- with motor drive UM 90



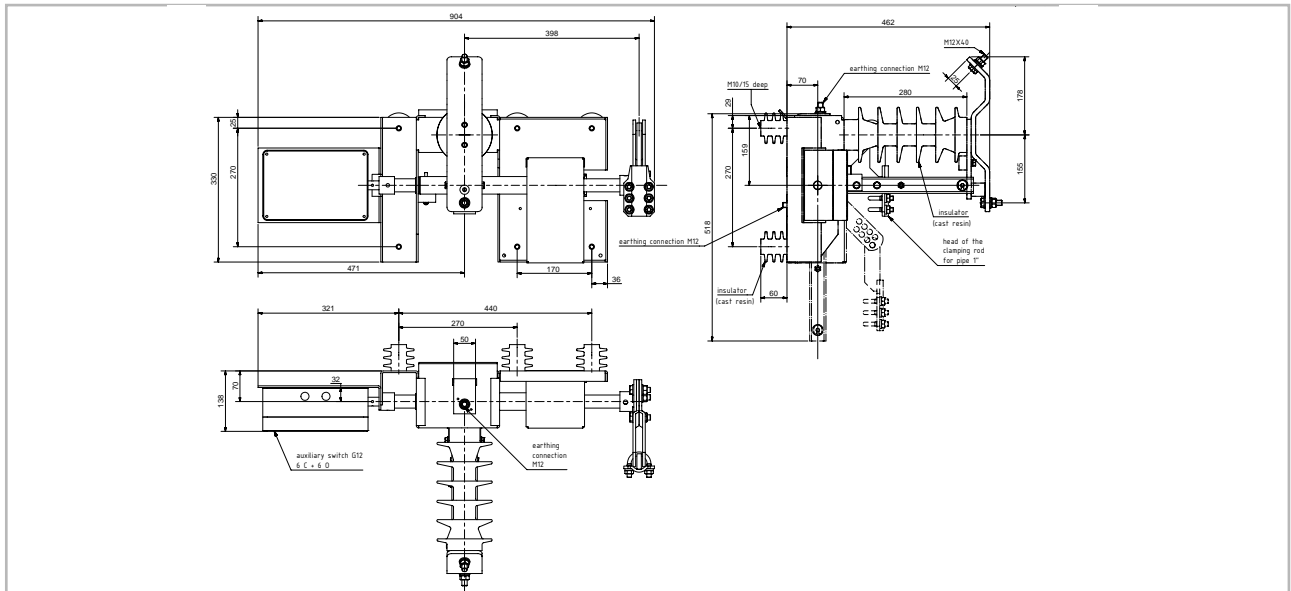
# DRIESCHER - Single-pole Outdoor Earthing switch for DC application

## Single-pole Outdoor Earthing switch DC



Type	FES 3-35-1B	
Nominal voltage	$U_n$	3 kV
Rated insulation level	$U_{Nm}$	4,8 kV
Rated lighting impulse withstand voltage	$U_{Ni}$	125 kV
Rated short time power-frequency test voltage level	$U_a$	50 kV
Rated short-time withstand current	$I_{NCW}$	35 kA
Rated duration of short-circuit current	$t_k$	0,25 s
Rated short-circuit making current	$I_{ma}$	50 kA
Mechanical endurance (Operating cycles)	2.000	
Drawing No.	FT3-109535	

- with motordrive
- 4-pole signalling contact



Dimensions, weights, diagrams and descriptions in this brochure are non-binding. Subject to change without notice.

**switching • electricity • safely**

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