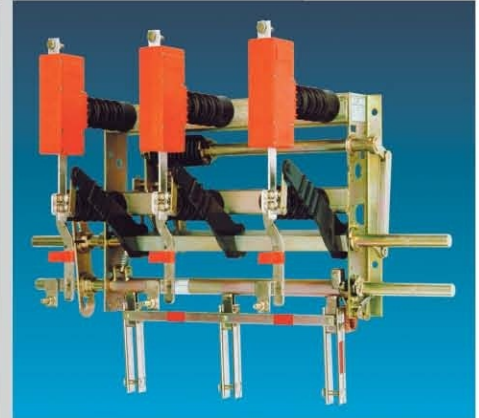


**DRIESCHER**  
Indoor -  
**Switch-Disconnecter and  
switch-fuse combination H 27**

- Rated voltage  
12 kV and 24 kV
- Rated current  
630 A
- 3-pole design



# H 27

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## DRIESCHER - Indoor Switch-Disconnecter and switch-fuse combination H 27

acc. to EN 60265-1 and EN 62271-105



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### Types of switch-disconnectors and switch-fuse combinations

- |   |  |
|---|--|
| <p><b>H 27 F-EK</b> for front-panel mounting<br/>- without trip-free release*</p>   | <p><b>H 27 SEA</b> for wall mounting and lateral mounting<br/>- with trip-free release*, with a cross-rail mounted below with mounted insulators and fuse holders.</p> |
| <p><b>H 27 F-EA</b> for front-panel mounting<br/>- with trip-free release*</p>  | <p><b>H 27 SuT</b> for lateral mounting - with trip-free release*, with a separat cross-rail with mounted insulators and fuse holders.</p>                             |
| <p><b>H 27 F-SuT</b> for front-panel mounting - with trip-free release*, with two separat cross-rails, respectively with mounted insulators and fuse holders.</p> |  |
| <p><b>H 27 EK</b> for wall mounting and lateral mounting<br/>- without trip-free release*</p>   | <p><b>For switch-fuse combination, HV HBC fuse-links with a pin release force of at least 80 N must be used (see page 8).</b></p>                                      |
| <p><b>H 27 EA</b> for wall mounting and lateral mounting<br/>- with trip-free release*</p>  |  |

\* see page 3, energy storage mechanism

### Operating conditions

The use of switchgears under normal operating conditions is specified in the EN 62271-1 as follows:

- The maximum ambient temperature is 40 °C, the average value over a period of 24 h is max. 35 °C. The minimum ambient temperature is -5 °C. For our indoor switches the class "Minus 5 indoors" is specified.
- Solar radiation has no significant impact.
- The altitude at the place of installation is max. 1000 m above sea level.
- The ambient air is to have no significant contamination through dust, smoke, corrosive and/or flammable gasses, fumes or salts.
- The following conditions apply with regard to humidity:
  - average value of relative air moisture measured over 24 h is max. 95 %,
  - average value of water vapour pressure over 24 h is max. 2.2 kPa;
  - average value of the relative air moisture over a period of one month is max. 90%
  - average value of the water vapour pressure over one month is max. 1.8 kPa;

**To each switchgear an instruction for transportation, mounting and putting into service is inclosed. This instruction which we certainly would send you in advance, has to be absolutely obeyed.**

## DRIESCHER-Indoor Switch-Disconnecter and Lastschalter-Switch-fuse combination H 27

### Main advantages

- Compact construction
- High switching capacity
- Visible isolating distance after switching OFF
- Perfect functioning
- Simple operation
- High switching rate with a minimum maintenance

### Energy storage mechanism

One of the robust, low-maintenance energy storage mechanisms of type EK or EA is mounted on the base frame, on which the three switch poles are installed. Many hundred thousands of these devices have already been used successfully.

The EK energy storage mechanism operates with only a single torsion spring for quick-make and quick-break operation without trip-free release. The torsion spring is tensioned for switching ON or OFF. After tensioning, the spring energy is released for the particular switching operation (ON or OFF).

The EA energy storage mechanism operates with two torsion springs for trip-free quick-make and quick-break operation. Both torsion springs are tensioned when the switch is closed.

The ON switch spring is tripped after tensioning and releases its energy for switching ON, while the OFF switch spring remains tensioned until it is released by the

tripping device, HV HBC (high-voltage, high-breaking capacity) fuse links with striker pin, or manually for switching OFF (trip-free release).

With non-manual release the operating shaft (13) remains in the ON position and must be moved to the neutral position "OFF" manually for reclosing.

Wall-mounting devices can be actuated via a linkage system operated by a detachable lever or by any of the actuators in brochure 774 and 776 (*Motor actuator*).

Lateral mounted switches can be operated directly by fixing a sleeve for D-drives with internal twelve-sided polygon 24 on the operating shaft and using the detachable lever with hexagonal attachment (see brochure 774).

Front-panel mounted devices can be operated by means of a detachable lever via a driving pulley integrated in the switch.

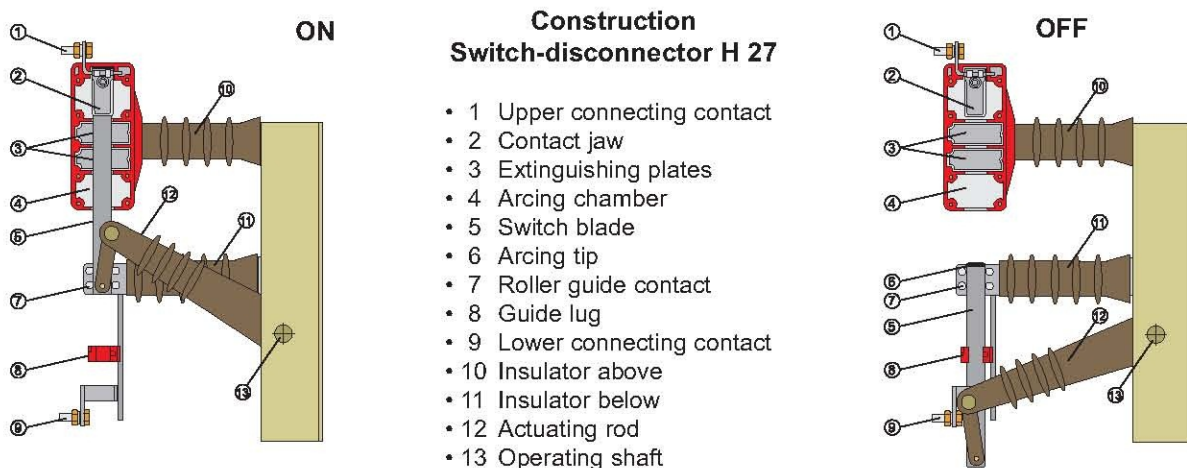
### Arc extinction

When closing the switch, the switch blade (5) with the arcing tip (6) is withdrawn from the contact jaw (2). The arc which occurs is extinguished in the enclosed, four-section arcing chamber (4), comprising pressure and expansion chambers. In the pressure chamber two extinguishing plates (3) are forced into the path of the arc by lateral spring pressure.

At low currents the arc is extinguished by deionizing

action due to the cooling effect of the walls. Arc extinction is achieved in the higher current ranges by the arc extinguishing gases produced in the pressure chamber flowing out into the expansion chamber. Due to this rational combination of arc quenching principles the entire current range of the load-break switch is effectively covered.

**The arcing chambers require no maintenance.**



## DRIESCHER - Indoor Switch-Disconnecter and Switch-fuse combination H 27

### Additional possibilities of mounting, equipment and actuation

All listed additional possibilities of mounting, equipment and actuation devices are optional available and to order separate:

- All types are deliverable with earthing switches mounted below and above.
  - By the types H 27 EK and EA the earthing switch is mounted, so that the earthing switch movement is outside the switch frame.
  - By the type H 27 SEA the earthing switch is mounted, so that the movement of the earthing switch is within the base frame. (No extra space is required, retrofit is possible).
  - By the type H 27 SuT the earthing switch is mounted on a separate insulator cross arm (Retrofit is possible).  
For the switch-fuse combination H 27 F-SuT, there is a separate earthing switch with built-in actuating disc to switch with plug-in lever.
- For all types a **mechanical interlocking** between switch-disconnector and earthing switch is possible.
- Shunt releases and tripping magnets can only be mounted on switches with trip-free release (see page 2) and are available for the following voltages: 110 V AC and 230 V AC or 24 V DC, 60 V DC, 110 V DC and 220 V DC.
- Signalling contacts for switch position indication or electrical interlocking can be mounted on all switches - including earthing switches.
- The actuation of the switch-disconnector and the switch-fuse combination H 27 can be performed manually with a plug-in lever or with a motor actuator, see *brochure 776*.
- For information about indoor actuating and equipment for example, insulating rod or pulling lug please see *brochure 774*.
- For further equipment, such as fuse tongs and switchsticks see *brochure 773*.
- For h.v.h.b.c. fuses please see *brochure 791*.

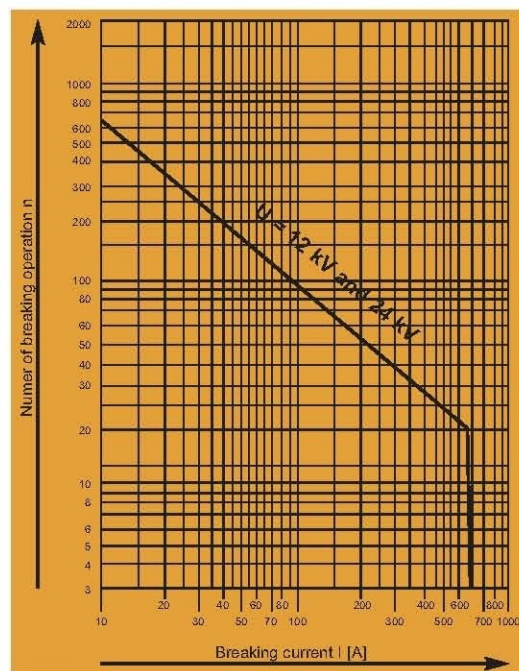
### Technical data

according to EN 60265-1

Rated voltage	$U_r$	kV	12	24
Rated frequency	$f_r$	Hz	50	50
Rated-(operating)-current	$I_r$	A	630	630   630
Rated-peak withstand current	$I_p$	kA	50 <sup>1)</sup>	40 <sup>1)</sup>   50 <sup>1)</sup>
Rated-short-time current	$I_k$	kA	20 <sup>1)</sup>	16 <sup>1)</sup>   25 <sup>1)</sup>
Rated-making current	$I_{ma}$	kA	50 <sup>1)</sup>	40 <sup>1)</sup>   40 <sup>1)</sup>
Rated-breaking current	$I_1$	A	630	630   630
Rated-loop breaking current	$I_2$	A	630	630   630
Rated-transformer off-load breaking current	$I_3$	A		10
Rated-cable charging breaking current	$I_{4a}$	A	10	35
Rated-earth fault off-load breaking current	$I_{6a}$	A	300	320
Rated-cable charging breaking current below earth fault conditions	$I_{6b}$	A	18	178
Rated-impulse withstand voltage	$U_p$	kV		
Conductor - Conductor / Conductor - Earth			75	125 <sup>2)</sup>
Break			85	145
Rated-power frequency withstand voltage	$U_d$	kV		
Conductor - Conductor / Conductor - Earth			28	50
Break			32	60
Electrical class			E1	E1
Mechanical life			M1	M1

1) These values also apply to earthing switches.

2) 95 kV for clearance between phases  $p = 170$  mm without phase barrier.



Maintenance-free load breaking operations as a function of the breaking current at  $\cos \varphi \geq 0,7$



DRIESCHER - Indoor Switch-fuse combination H 27

Indoor Switch-fuse combination H 27 F-SuT for front-panel mounting

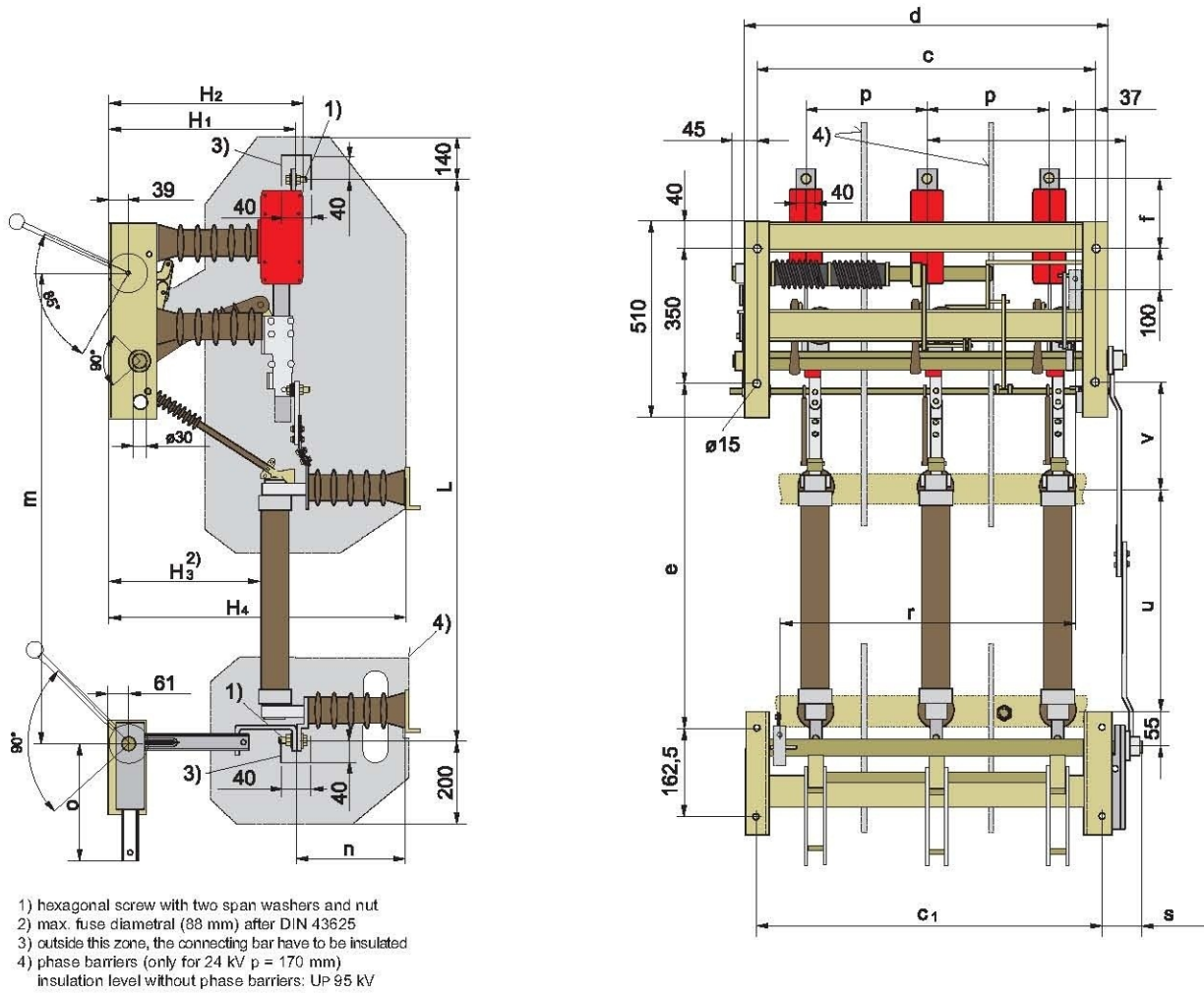


Fig. 2: Type H 27 F-SuT with separate earthing switch mounted below and two separate cross beam for insulators  
All-pole disconnection of the switch-disconnector when a fuse operates.

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	c	$c_1$	d	e	f	$H_1$	$H_2$	$H_3$	$H_4$	L	m	n	o	r	s	u	v
12 kV	H 27 F-SuT	630 A	25 kA	155	465	471	500	567	103	310	324	225	472	1047	843	147	204	382	74	325	214
24 kV	H 27 F-SuT	630 A	16 kA	170	495	491	530	751	186	385	401	299	626	1291	1027	227	280	412	42	475	240
24 kV	H 27 F-SuT	630 A	25 kA	225	605	651	640	751	186	385	401	299	626	1291	1027	227	280	412	42	475	240

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	without earthing switch		with earthing switch below		Weight approx. kg	Drawing-no.
					Part-no.	Weight approx. kg	Part-no. without mechanical interlocking	Part-no. with mechanical interlocking		
12 kV	H 27 F-SuT	630 A	25 kA	155	727 37100	58	727 37111 *	727 37111 **	64	LN3-093701
24 kV	H 27 F-SuT	630 A	16 kA	170	727 67150	64	727 67171 *	727 67171 **	70	LN3-102412
24 kV	H 27 F-SuT	630 A	25 kA	225	727 67350	69	727 67351 *	727 67351 **	75	LN3-102414

\* with separate earthing switch  
\*\* with separate earthing switch and interlocking

## DRIESCHER - Indoor Switch-Disconnecter H 27

## Indoor Switch-Disconnecter H 27 EK and EA for wall mounting

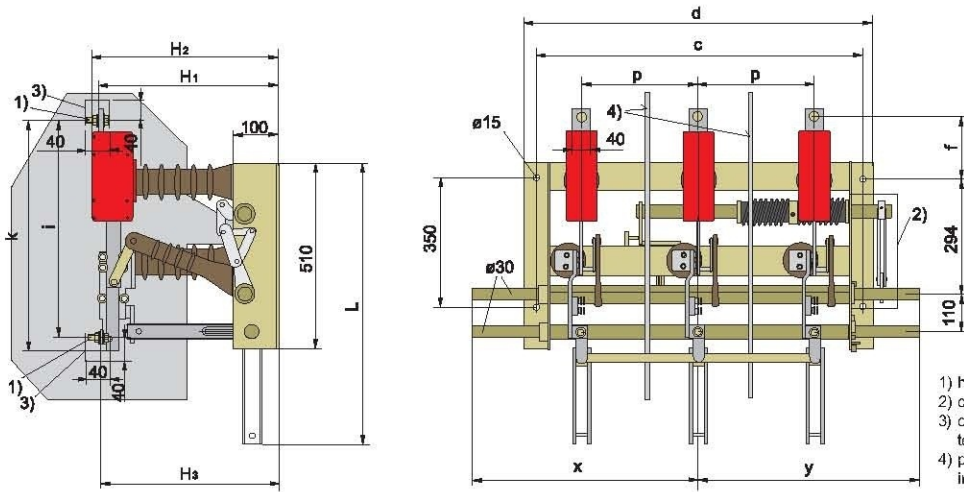


Fig. 3: Type H 27 EA  
with  
earthing switch  
mounted below

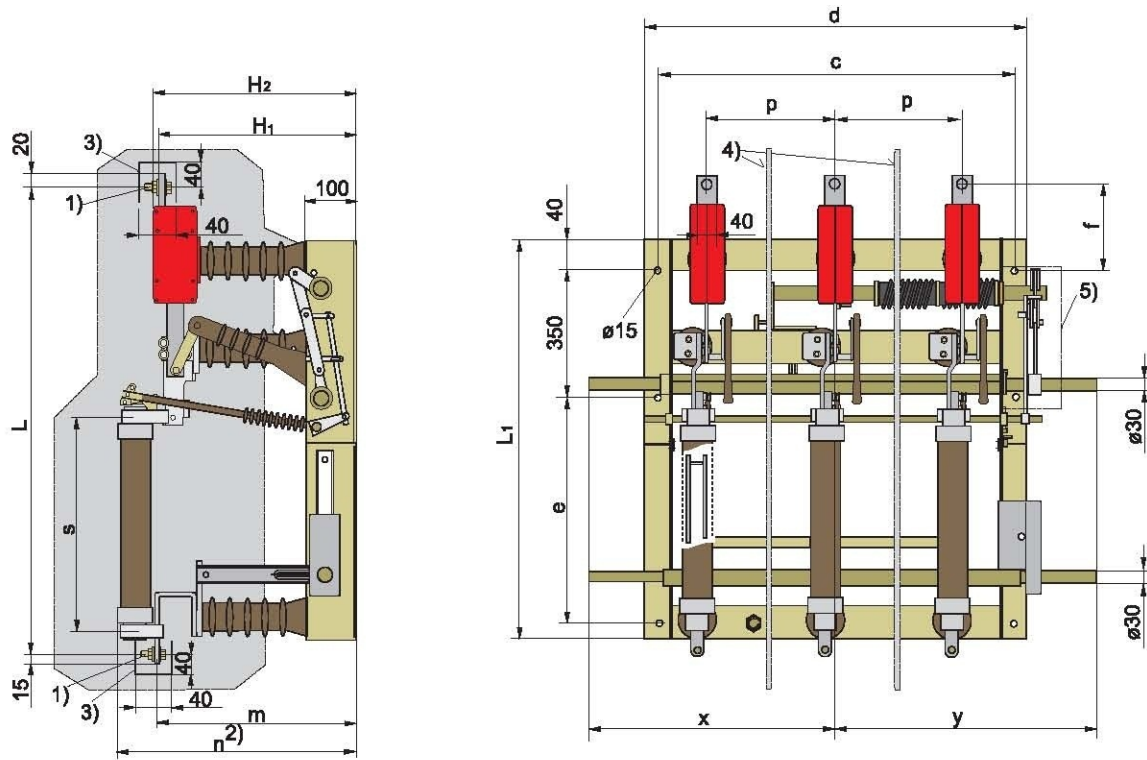
- 1) hexagonal screw with two span washers and nut
- 2) covering
- 3) outside this zone, the connecting bar have to be insulated
- 4) phase barriers (only for 24 kV  $p = 170$  mm)  
Insulation level without phase barriers: UP 95 kV

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	$p$	$c$	$d$	$f$	$H_1$	$H_2$	$H_3$	$i$	$k$	$L$	$x$	$y$
12 kV	H 27 EK	630 A	25 kA	155	465	500	103	310	324	314	493	545	627	290	290
12 kV	H 27 EK	630 A	25 kA	210	575	610	103	310	324	314	493	545	627	450	450
12 kV	H 27 EA	630 A	25 kA	155	465	500	103	310	324	314	493	545	627	290	290
12 kV	H 27 EA	630 A	25 kA	210	575	610	103	310	324	314	493	545	627	450	450
24 kV	H 27 EK	630 A	16 kA	170	495	530	156	385	401	388	586	658	712	460	460
24 kV	H 27 EK	630 A	25 kA	170	495	530	161	390	406	394	591	663	712	460	460
24 kV	H 27 EK	630 A	16 kA	225	605	640	161	385	399	388	551	663	712	440	440
24 kV	H 27 EK	630 A	25 kA	225	605	640	161	390	406	394	591	669	712	440	440
24 kV	H 27 EK	630 A	16 kA	275	705	740	161	385	399	388	591	663	712	565	565
24 kV	H 27 EK	630 A	25 kA	275	705	740	161	390	404	394	591	669	712	565	565
24 kV	H 27 EA	630 A	16 kA	170	495	530	156	385	401	388	586	658	712	460	460
24 kV	H 27 EA	630 A	25 kA	170	495	530	161	390	406	394	591	669	712	460	460
24 kV	H 27 EA	630 A	16 kA	225	605	640	156	385	401	388	586	663	712	440	440
24 kV	H 27 EA	630 A	25 kA	225	605	640	161	390	406	394	591	663	712	440	440
24 kV	H 27 EA	630 A	16 kA	275	705	740	161	385	399	388	591	663	712	565	565
24 kV	H 27 EA	630 A	25 kA	275	705	740	161	390	406	394	591	663	712	565	565

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	$p$	without earthing switch		with earthing switch mounted below		Weight approx. kg	Drawing-no.
					Part-no.	Weight approx. kg	Part-no. without mechanical interlocking	Part-no. with mechanical interlocking		
12 kV	H 27 EK	630 A	25 kA	155	727 31100	34	727 31111	727 31114	39	LN3-093697
12 kV	H 27 EK	630 A	25 kA	210	727 31400	41	727 31411	727 31414	46	LN3-093703
12 kV	H 27 EA	630 A	25 kA	155	727 32100	34	727 32111	727 32114	39	LN3-093696
12 kV	H 27 EA	630 A	25 kA	210	727 32400	41	727 32411	727 32414	46	LN3-093702
24 kV	H 27 EK	630 A	16 kA	170	727 61515	38	727 61511	727 61516	44	LN3-091502
24 kV	H 27 EK	630 A	25 kA	170	727 71500	38	727 71511	727 71514	44	LN3-091503
24 kV	H 27 EK	630 A	16 kA	225	727 61350	45	727 61311	727 61300	51	LN3-106043
24 kV	H 27 EK	630 A	25 kA	225	727 71300	45	727 71311	727 71314	51	LN4-067886
24 kV	H 27 EK	630 A	16 kA	275	727 61151	40	727 61152	727 61153	46	LN3-102801
24 kV	H 27 EK	630 A	25 kA	275	727 71100	48	727 71111	727 71114	54	LN3-102803
24 kV	H 27 EA	630 A	16 kA	170	727 62500	40	727 62511	727 62514	46	LN3-091504
24 kV	H 27 EA	630 A	25 kA	170	727 72500	47	727 72511	727 72514	53	LN3-091505
24 kV	H 27 EA	630 A	16 kA	225	727 62302	48	727 62301	727 62300	58	LN4-067884
24 kV	H 27 EA	630 A	25 kA	225	727 72300	51	727 72311	727 72314	62	LN3-091543
24 kV	H 27 EA	630 A	16 kA	275	727 62151	51	727 62153	727 62152	62	LN4-039597
24 kV	H 27 EA	630 A	25 kA	275	727 72100	53	727 72101	727 72111	65	LN3-091501

DRIESCHER - Indoor Switch-fuse combination H 27

Indoor Switch-fuse combination H 27 SEA for wall mounting



- 1) hexagonal screw with two span washers and nut
- 2) max. fuse diametral (88 mm) after DIN 43625
- 3) outside this zone, the connecting bar have to be insulated
- 4) phase barriers (only for 24 kV p = 170 mm)  
insulation level without phase barriers: UP 95 kV
- 5) covering

Fig. 4: Type H 27 SEA with earthing switch mounted below  
All-pole disconnection of the switch-disconnector when a fuse operates.

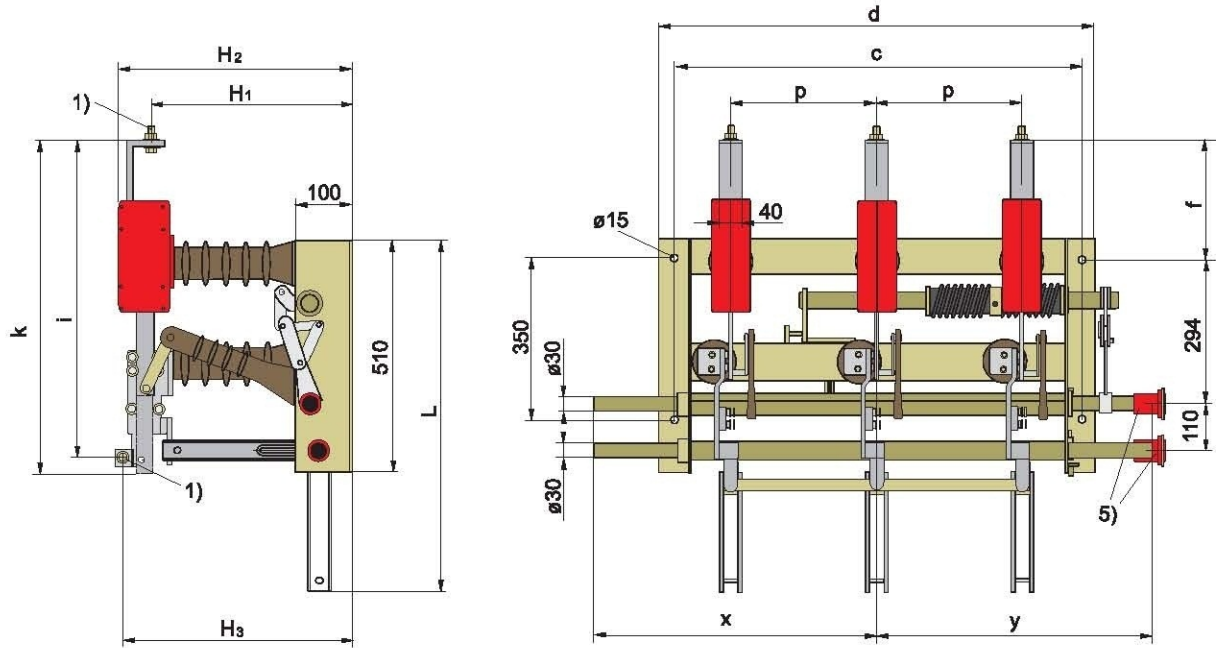
Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	c	d	e	f	$H_1$	$H_2$	L	$L_1$	m	n	s	x	y
12 kV	H 27 SEA	630 A	25 kA	155	465	500	500	103	310	324	1013	925	254	354	325	340	340
12 kV	H 27 SEA	630 A	25 kA	210	575	610	500	103	310	324	1013	925	254	343	325	450	450
24 kV	H 27 SEA	630 A	16 kA	170	495	530	478	156	385	401	1040	903	388	493	475	460	460
24 kV	H 27 SEA	630 A	25 kA	225	605	640	478	156	385	401	1040	903	388	493	475	440	440
24 kV	H 27 SEA	630 A	25 kA	275	705	740	478	161	385	401	1045	903	388	493	475	565	565

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	without earthing switch		with earthing switch mounted below			Drawing-no.
					Part-no.	Weight approx. kg	Part-no. without mechanical interlocking	Part-no. with mechanical interlocking	Weight approx. kg	
12 kV	H 27 SEA	630 A	25 kA	155	727 33852	44	727 33861	727 33864	51	LN3-095549
12 kV	H 27 SEA	630 A	25 kA	210	727 33870	51	727 33871	727 33874	60	LN3-095849
24 kV	H 27 SEA	630 A	16 kA	170	727 63500	61	727 63511	727 63514	68	LN3-090676
24 kV	H 27 SEA	630 A	25 kA	225	727 63302	64	727 63301	727 63300	74	LN4-067885
24 kV	H 27 SEA	630 A	25 kA	275	727 63151	68	727 63152	727 63153	79	LN4-039598



## DRIESCHER - Indoor Switch-Disconnecter H 27

## Indoor Switch-Disconnecter H 27 EA and EK for lateral mounting



- 1) hexagonal screw with two span washers and nut  
5) drive box and clamping washer with ON / OFF indicator

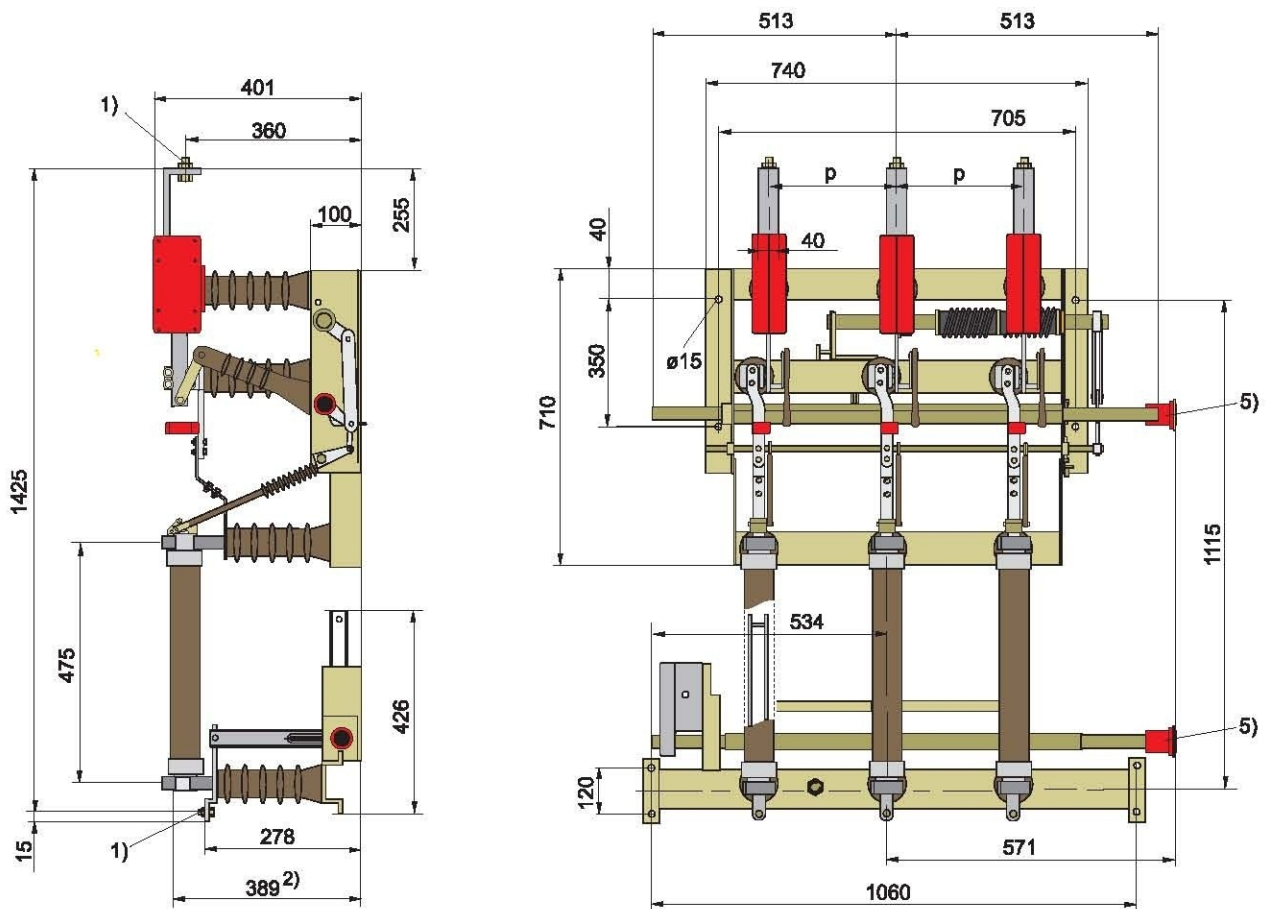
Fig. 5: Type H 27 EA with earthing switch mounted below

Rated voltage $U_r$	Type	Rated current $I_r$	Rated short-time current $I_k$	p	c	d	f	$H_1$	$H_2$	$H_3$	i	k	L	x	y	Drawing-no.
12 kV	H 27 EK	630 A	25 kA	155	465	500	197	310	324	314	587	639	627	287	398	LN3-095031
24 kV	H 27 EK	630 A	16 kA	275	705	740	255	360	399	361	685	757	712	513	513	LN3-102802
24 kV	H 27 EK	630 A	25 kA	275	705	740	255	365	404	365	685	763	712	513	513	LN3-102804
24 kV	H 27 EA	630 A	16 kA	275	705	740	255	360	401	358	685	763	712	513	513	LN4-044887
24 kV	H 27 EA	630 A	25 kA	275	705	740	255	360	406	375	685	757	712	513	513	LN3-091500

Rated voltage $U_r$	Type	Rated current $I_r$	Rated short-time current $I_k$	p	without earthing switch		with earthing switch mounted below		
					Part-no.	Weight approx. kg	Part-no. without mechanical interlocking	Part-no. with mechanical interlocking	Weight approx. kg
12 kV	H 27 EK	630 A	25 kA	155	727 31190	42	727 31294	727 31292	53
24 kV	H 27 EK	630 A	16 kA	275	727 61201	51	727 61203	727 61204	62
24 kV	H 27 EK	630 A	25 kA	275	727 71171	48	727 71175	727 71950	59
24 kV	H 27 EA	630 A	16 kA	275	727 62271	50	727 62211	727 62215	61
24 kV	H 27 EA	630 A	25 kA	275	727 72201	53	727 72203	727 72205	64

## DRIESCHER - Indoor Switch-fuse combination H27

## Indoor Switch-fuse combination H 27 SuT for lateral mounting



- 1) hexagonal screw with two span washers and nut  
 2) max. fuse diameter (88 mm) after DIN 43625  
 5) drive box and clamping washer with ON / OFF indicator

Fig. 6: Type H 27 SuT with earthing switch mounted below and separate cross rail with mounted insulators

All-pole disconnection of the switch-disconnector when a fuse operates.  
 HV HBC-fuses are removable laterally !

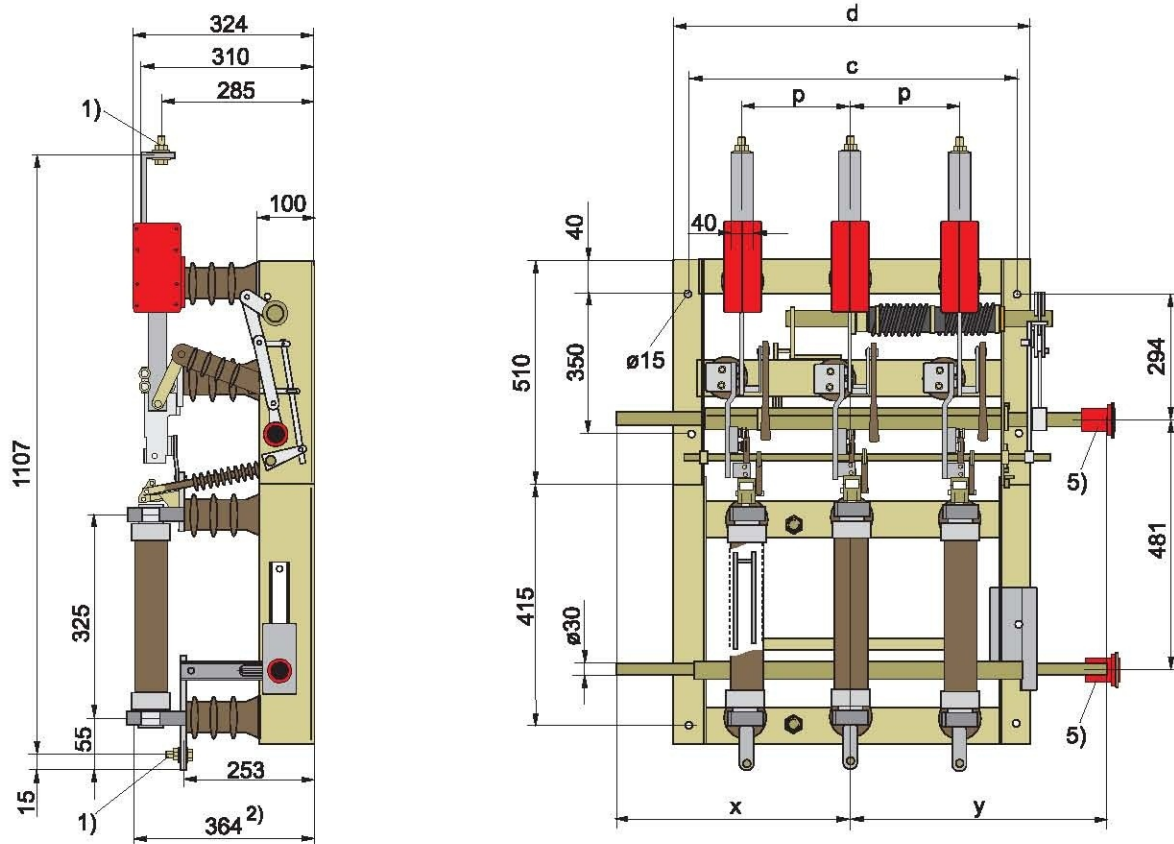
Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	without earthing switch			Drawing-no.
					Part-no. switch	Part-no. cross rail	Weight approx. kg	
24 kV	H 27 SuT	630 A	16 kA	275	727 63001	720 72104	74	LN4-44233
24 kV	H 27 SuT	630 A	25 kA	275	727 63001	720 72104	74	LN4-44233

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	with earthing switch mounted below		Weight approx. kg
					Part-no. without mechanical interlocking	Part-no with mechanical interlocking	
24 kV	H 27 SuT	630 A	16 kA	275	on request *	on request **	88
24 kV	H 27 SuT	630 A	25 kA	275	on request *	on request **	88

- \* with separate earthing switch  
 \*\* with separate earthing switch and interlocking

## DRIESCHER - Indoor Switch-fuse combination H 27

## Indoor Switch-fuse combination H 27 SEA for lateral mounting



- 1) hexagonal screw with two span washers and nut  
 2) max. fuse diametral (88 mm) after DIN 43625  
 5) drive box and clamping washer with ON / OFF indicator

Fig. 7: Type H 27 SEA with earthing switch mounted below

All-pole disconnection of the switch-disconnector when a fuse operates.  
 HV HBC-fuses are removable laterally !

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	c	d	x	y	without earthing switch		Drawing-no.
									Part-no.	Weight approx. kg	
12 kV	H 27 SEA	630 A	25 kA	155	465	500	287	398	727 33295	61	LN3-094869
12 kV	H 27 SEA	630 A	25 kA	210	575	610	450	450	727 33490	68	LN3-107771

Rated voltage $U_r$	Type	Rated current $I_r$	Rated-short-time current $I_k$	p	with earthing switch mounted below		Weight ca. kg
					Part-no. without mechanical interlocking	Part-no with mechanical interlocking	
12 kV	H 27 SEA	630 A	25 kA	155	727 33692	727 33297	77
12 kV	H 27 SEA	630 A	25 kA	210	727 33492	727 33494	86

## Type Switch-fuse combination H 27

These switch-fuse combinations according to EN 62271-105 comprise a functional unit of switch disconnectors according to EN 60265-1 and back-up fuses according to EN 60282-1.

Switch-fuse combinations are used for switching on and off of distribution transformers in secondary substations. They additionally have the task of protecting these transformers against the impact of internal and external faults.

By means of the fuses the breaking capacity of the combination is extended beyond that of a simple

switch disconnector up to the rated short-circuit breaking current of the fuse.

The high-voltage high breaking capacity fuse, according to the statistics of the VDN (German Association of Electricity Network Operators) offers a reliable transformer protection. The h.v.h.b.c. fuse in combination with a switch disconnector provides a simple solution which is very economical and practical to procure and run.

This provides a clear advantage over a circuit breaker with the associated current transformers and overcurrent time protection.

### Recommended protection for DRIESCHER - Switch-fuse combination in accordance with EN 62271-105

#### High-voltage high breaking capacity fuse link for $U_r = 12$ kV and 24 kV

Fuse Type **STA** and Type **SSK**

Rated- transformer- power [kVA]	Rated current of the h.v.h.b.c. fuse			
	Rated voltage $U_r$			
	12 kV		24 kV	
	Fitting dimensions of fuses $e = 292$ mm min. (A)	max. (A)	Fitting dimensions of fuses $e = 442$ mm min. (A)	max. (A)
50	6,3	6,3	6,3	6,3
80	10	10	6,3	6,3
100	10	16	6,3	10
125	16	20	10	16
160	20	25	10	20
200	25	31,5	16	20
250	31,5	40	16	25
315	31,5	50	20	25
400	40	50	25	31,5
500	50	63	25	40
630	63		31,5	50
800	80, Type <b>SSK</b>		40	50
1000	100, Type <b>SSK</b>		50	63
1250	125, Type <b>SSK</b> and tripping delay*		63	
1600			80	
2000			100, Type <b>SSK</b> and tripping delay*	
2500			125, Type <b>SSK</b> and tripping delay*	

\* Time of tripping delay of the switch:  $U_r$  12 kV 250 ms +0/-50 ms  
 $U_r$  24 kV 500 ms +0/-50 ms

Suitable fuses: Type **STA** Driescher Moosburg and Type **SSK** Siba Lünen

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

switching • electricity • safely



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