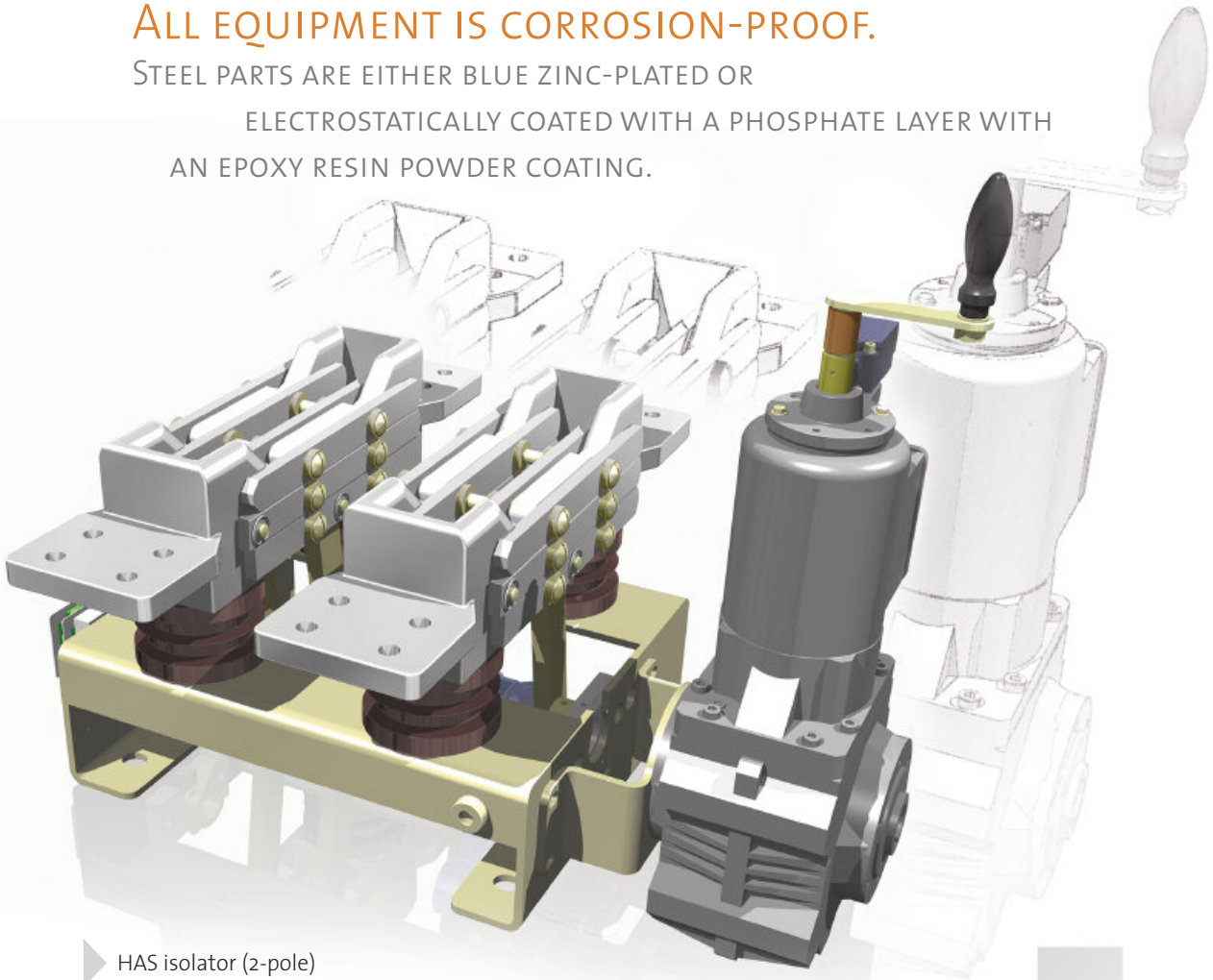
All equipment is corrosion-proof.

Steel parts are either blue zinc-plated or electrostatically coated with a phosphate layer with an epoxy resin powder coating.

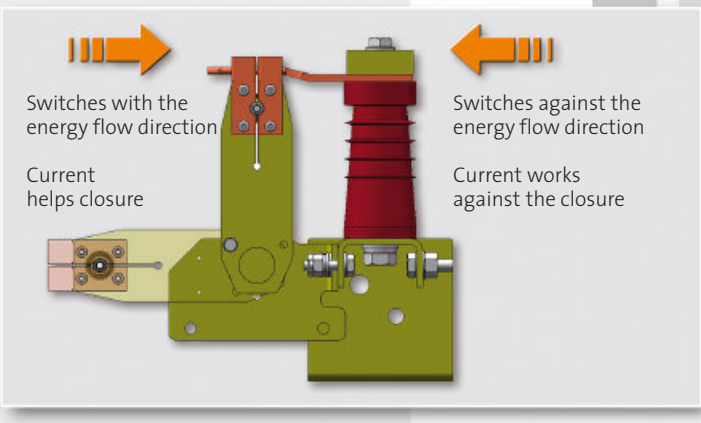


HAS isolator (2-pole) with motor drive

Short-circuit current capability

- The short-circuit resistance of active isolator switches is tested in accordance with VDE/IEC. Due to the direct curent flow, the isolator switches do not need to be locked against being opened by short-circuit forces.
- Earthing switches attached to isolator switches or as inde pendent devices must be locked for surge currents exceeding 50 kA if the earthing switch is installed in such a way that the surge current (according to the diagram on the right) flows through the earthing switch with the energy flow direction. Strong opening forces are active in this direction.
- Sufficient locking is guaranteed for the motor drive as well as for self-locking manual drives (e.g. ball-joint drive).
- For earthing switches that are attached to isolator switches, the mechanical locking between isolator and earthing switches is a simple mechanism to eliminate the disadvantages of the energy flow direction with open force impact.

Direction of the current



Typ GT/HAS

The isolator switches are suitable for indoor installation from 1.5 kV to 40.5 kV.

Thanks to the use of corrugated isolators made of cast resin, the isolator switches can be used even in areas of high humidity and occasional condensation e.g. in tropical climates. The equipment is corrosion-proof. Steel parts are either blue zinc-plated or electrostatically coated with a phosphate layer with an epoxy resin powder coating.
The switches can be installed in any location where the shaft is horizontal. Models for installation with vertical shafts are also available.

Nameplate details

FLOHE BERG GmbH					
GT1.25-12.0-01-M1-A19-E06					
Serien-Nr.	A12468/S203471			-001	
IEC 62271-102		Zg-Nr.:		WF16_15808	
U_r	12,0 kV	I_r	1,25 kA	fr	50/60Hz
U_p	75 kV	I_p	80 kA	Bj	2016
U_d	28 kV	I_k	31,5 kA /1s	M	19 kg

Note:
the following four details are required for queries regarding spare parts, subsequent deliveries etc.:

- Type designation
- Factory no.
- Model name
- Construction year

Service life

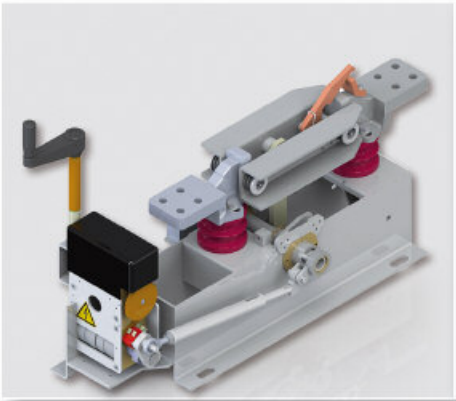
Normally isolator switches are seldom actuated. Therefore, they are not built for a high number of switching cycles. The standard mechanical service lif and the switching service life are:

- 5,000 switching cycles for isolator switches.
  Up to 25,000 switching cycles can be achieved on demand.

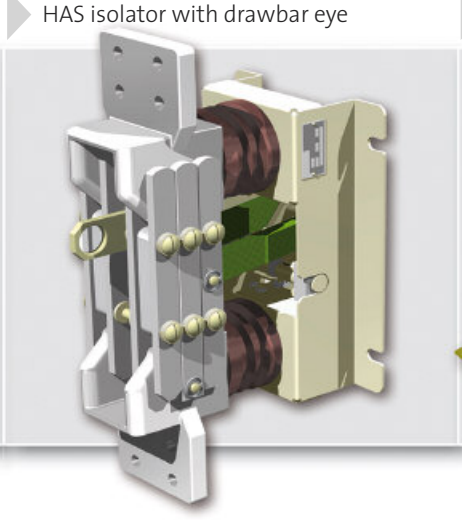
Switch functions
Isolator switches have the following tasks:

- To open and close circuits when either negligibly small currents should be interrupted or activated, or when there is no significant voltage difference between the circuits to be isolated and/or connected.
- To create separation between the connections of any one pole in the open position.

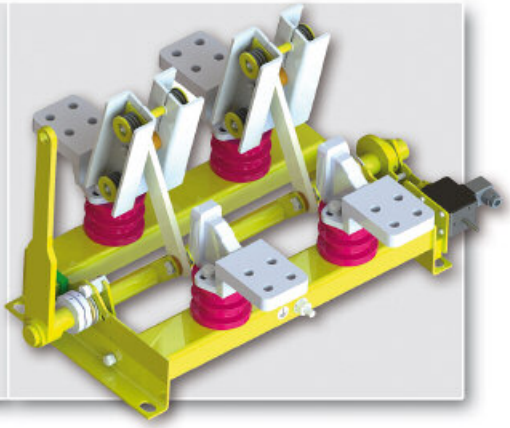
GT isolator with pluggable contact

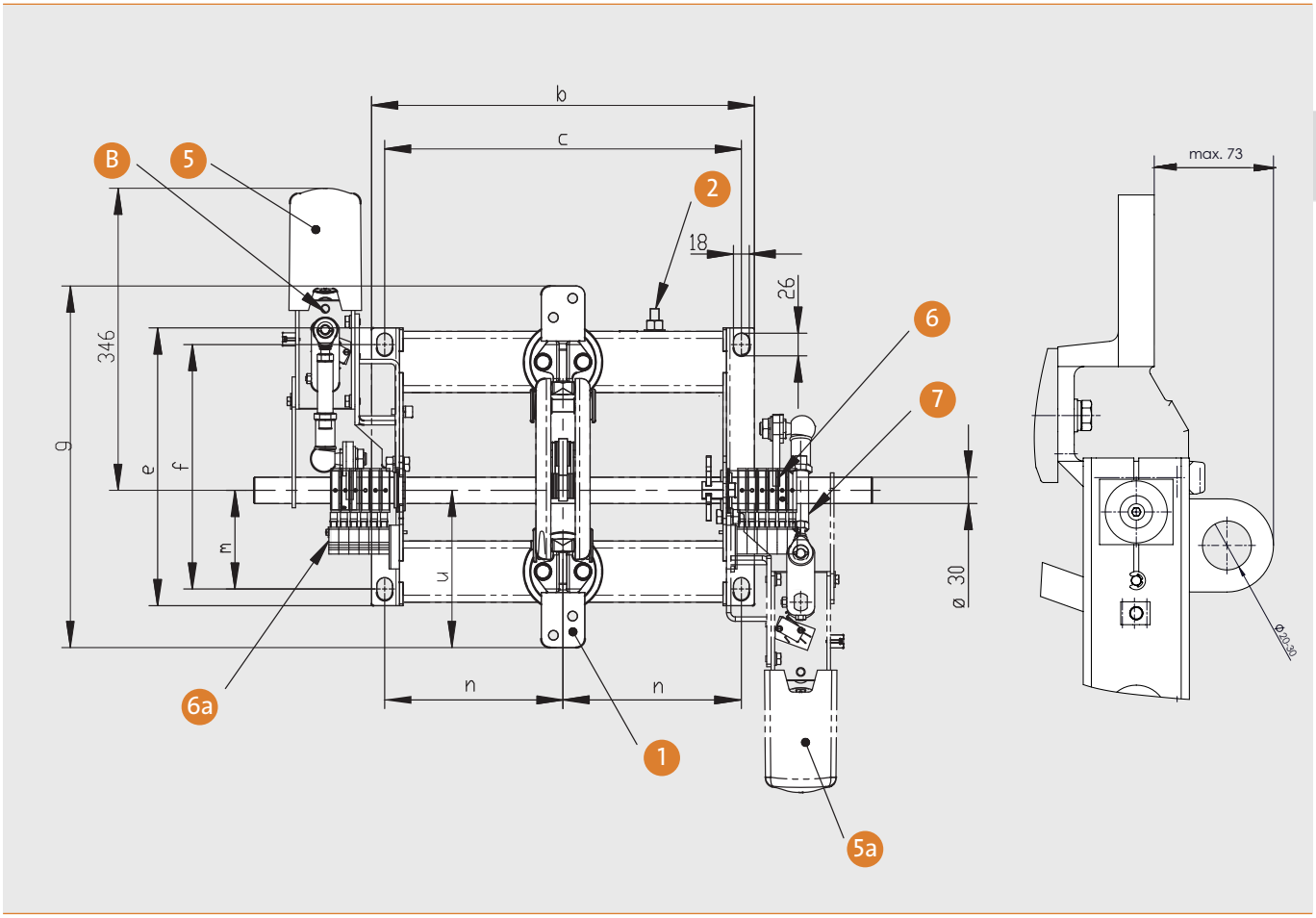


HAS isolator with drawbar eye



GT isolator (2-pole)

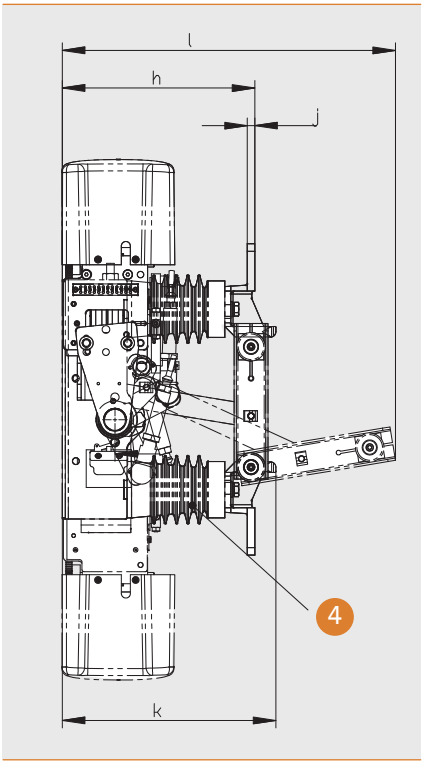


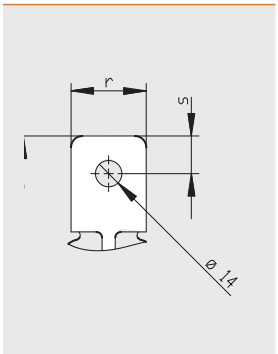


e.g. – other types GT/HAS, see Page 10-11

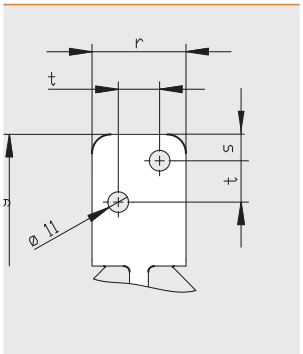
Number of poles	Typ	U_n [kV]	U_p [kV]	U_d [kV]	I_n [kA]	I_{th} [kA]	I_{dyn} [kA]	Weight [kg]	PA	a	b	c	d
1,5 kV 1-pole	GT0.63-1.50-01-L1	1,5	12	4	630	20	50	7	--	--	162	132	--
	GT1.25-1.50-01-M1	1,5	12	4	1250	31,5	80	10	--	--	162	132	--
	GT1.60-1.50-01-M1	1,5	12	4	1600	31,5	80	12	--	--	162	132	--
	GT2.50-1.50-01-M1	1,5	12	4	2500	31,5	80	15	--	--	198	160	--
	GT3.15-1.50-01-M1	1,5	12	4	3150	31,5	80	18	--	--	198	160	--
	HAS3.15-1.50-01-K1	1,5	12	4	3150	67	168	18	--	--	150	120	--
3,6 kV 1-pole	GT0.63-3.60-01-L1	3,6	40	10	630	20	50	8,5	--	--	230	200	--
	GT0.63-3.60-01-M1	3,6	40	10	630	31,5	80	8,5	--	--	230	200	--
	GT1.25-3.60-01-M1	3,6	40	10	1250	31,5	80	14	--	--	210	180	--
	GT1.60-3.60-01-M1	3,6	40	10	1600	31,5	80	17	--	--	210	180	--
	GT2.50-3.60-01-M1	3,6	40	10	2500	31,5	80	35	--	--	198	160	--
	GT3.15-3.60-01-M1	3,6	40	10	3150	31,5	80	38	--	--	238	200	--
	HAS3.15-3.60-01-KD1	3,6	40	10	3150	71	168	32	--	--	110	--	--
	HAS4.00-3.60-01-KD1	3,6	40	10	4000	71	168	35	--	--	220	190	--
	HAS6.30-3.60-01-TF1	3,6	40	10	6300	71	168	40	--	--	220	190	--
7,2kV 1-pole	GT0.63-7.20-01-L1	7,2	60	20	630	20	50	20,5	--	--	210	180	--
	GT0.63-7.20-01-M1	7,2	60	20	630	31,5	80	20,5	--	--	210	180	--
	GT1.25-7.20-01-M1	7,2	60	20	1250	31,5	80	36	--	--	210	180	--
	GT1.60-7.20-01-M1	7,2	60	20	1600	31,5	80	36	--	--	210	180	--
	GT2.50-7.20-01-M1	7,2	60	20	2500	31,5	80	64	--	--	198	160	--
	GT3.15-7.20-01-M1	7,2	60	20	3150	31,5	80	66	--	--	238	200	--
	HAS3.15-7.20-01-KD1	7,2	60	20	3150	71	168	35	--	--	162	92	--
	HAS4.00-7.20-01-KD1	7,2	60	20	4000	71	168	40	--	--	190	130	--
	HAS6.30-7.20-01-TF1	7,2	60	20	6300	81	168	50	--	--	190	130	--

Typ GT/HAS

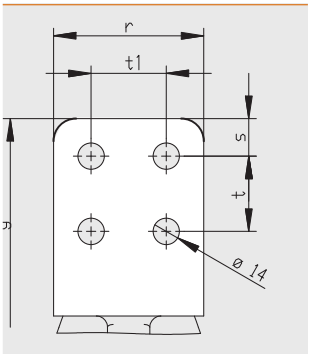




630 A



1250 A / 1600 A



2500 A / 3150 A

1 Connection screws
630 A: M12
1250 A / 1600 A: M10
2500 A / 3150 A: M12

2 Earthing screw
1x M12 630A / 1250 A / 1600 A
2x M12 2500 A / 3150 A / 4000 A
6300 A

4 Supports

5 Motor drive

5a Motor drive
Optional position

6 Auxiliary switches

6a Auxiliary switches
Optional position

B Connection
Hand crank

Actuating voltage indicated upon order

e	f	g	h	j	k	l	m	n	r	s	t	t1	u	Typ	Number of poles
318	280	370	177	6	205	372	113	66	40	20	--	--	158	GT0.63-1.50-01-L1	1,5 kV 1-pole
318	280	414	191	10	235	391	113	90	50	14	22	22	180	GT1.25-1.50-01-M1	
262	224	357	182	10	210	299	105	90	50	14	22	22	172	GT1.60-1.50-01-M1	
408	340	570	224	22	255	444	113	80	80	20	40	40	228	GT2.50-1.50-01-M1	
330	262	492	224	22	255	360	120	80	80	20	40	40	228	GT3.15-1.50-01-M1	
310	280	430	135	18	175	294	111	60	100	20	40	50	189	**HAS3.15-1.50-01-K1**	
318	280	370	177	6	205	371	113	100	40	20	--	--	158	GT0.63-3.60-01-L1	3,6 kV 1-pole
318	280	370	177	6	205	371	113	100	40	20	--	--	158	GT0.63-3.60-01-M1	
318	280	414	191	10	219	375	113	90	50	14	22	--	180	GT1.25-3.60-01-M1	
318	280	414	191	10	219	375	113	90	50	14	22	--	180	GT1.60-3.60-01-M1	
318	340	570	224	22	255	449	113	80	80	20	40	--	228	GT2.50-3.60-01-M1	
318	340	570	289	22	395	360	113	80	80	20	40	--	228	GT3.15-3.60-01-M1	
365	325	446	198	18	240	385	133	55	100	20	40	50	194	HAS3.15-3.60-01-KD1	
325	240	498	205	20	260	420	88	110	120	20	40	60	217	HAS4.00-3.60-01-KD1	
325	260	538	225	20	281	480	108	110	160	20	40	40	236	HAS6.30-3.60-01-TF1	
318	280	370	242	6	270	445	113	90	40	20	--	--	158	GT0.63-7.20-01-L1	7,2kV 1-pole
318	280	370	242	6	270	445	113	90	40	20	--	--	158	GT0.63-7.20-01-M1	
318	280	414	256	10	284	445	113	90	50	14	22	--	180	GT1.25-7.20-01-M1	
318	280	414	256	10	284	445	113	90	50	14	22	--	180	GT1.60-7.20-01-M1	
408	340	570	289	22	320	525	113	80	80	20	40	--	228	GT2.50-7.20-01-M1	
408	340	570	289	22	395	525	113	80	80	20	40	--	228	GT3.15-7.20-01-M1	
350	265	500	308	18	350	560	85	46	100	20	50	50	200	HAS3.15-7.20-01-KD1	
424	344	549	347	20	400	600	120	65	120	20	40	60	225	HAS4.00-7.20-01-KD1	
424	344	588	367	20	425	645	122	65	160	20	40	40	245	HAS6.30-7.20-01-TF1	