



Our experience is
the protection for
your installation



SSK-type fuses: 10 years of highly efficient
transformer protection in electric circuits

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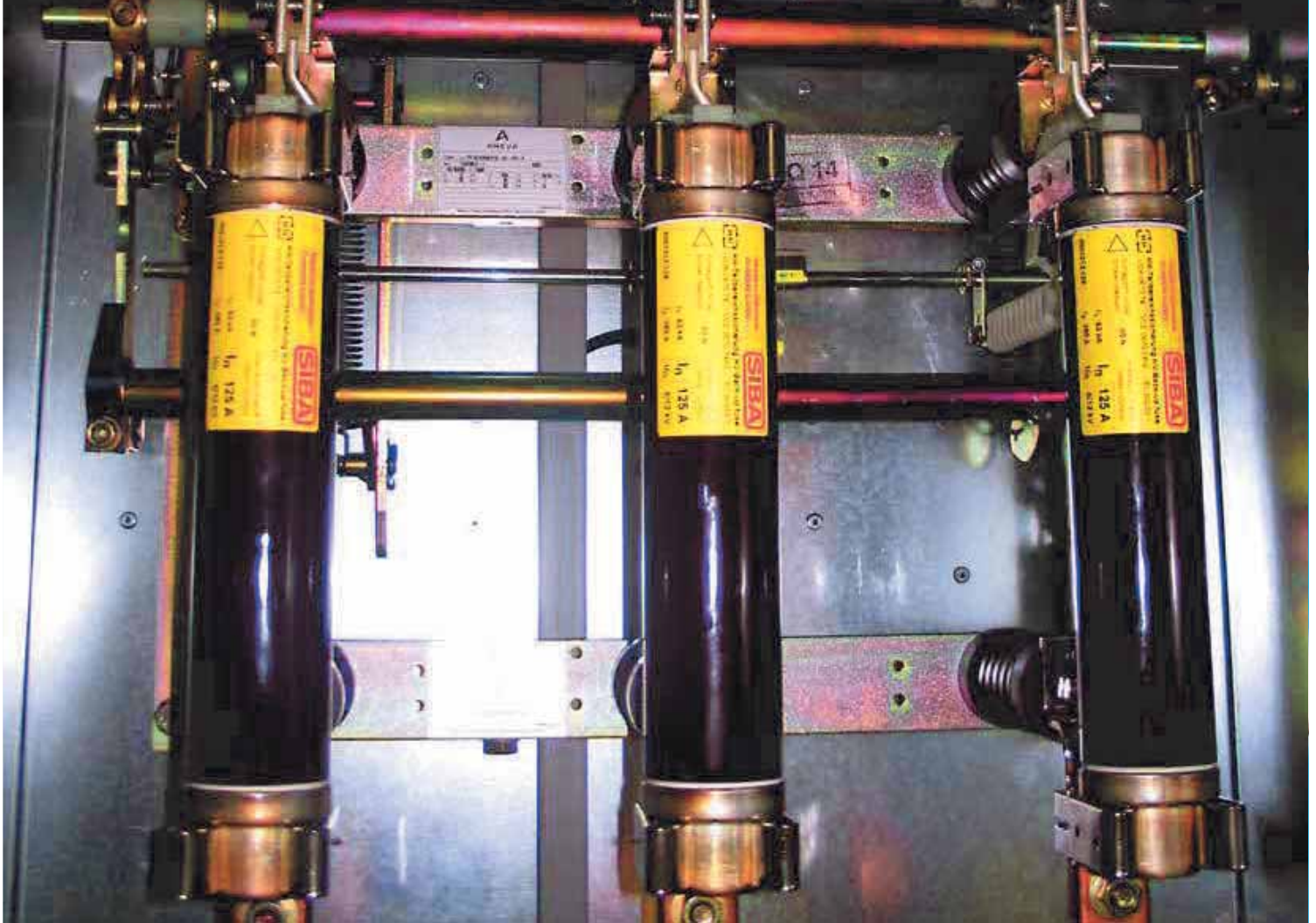
*Our Protection.
Your Benefit.*





Experience counts. Transformer protection by SIBA – protection with tradition

- Switch-fuse combination: SIBA has been on board from the beginning.
- 10 years of SSK for special cases: SIBA identified early on that increasing transformer powers also call for new safeguarding concepts.
- Safety: SSK-type switch-fuse combinations with SIBA's SSK-type fuse-links limit the short-circuit power early in the process.
- SIBA's SSK-type transformer protection can even be comprehensively adapted to the requirements of installations of > 630 kVA: Detection of inadmissible heating caused by the installed temperature-limiting striker pin; provision of the optimum transfer current adjusted to the switch; consideration of the transformer's inrush currents as well as of the selectivity with regard to both superior and inferior protective elements. The coordination of the switching task between HV fuse-link and switch-disconnector is specified in IEC 62271-105.



Efficiency that saves costs: SSK-type fuses instead of circuit-breakers

- SIBA's SSK-type fuses in the switch-fuse combination can replace the more expensive circuit breakers, even in the case of transformer powers of up to 3,150 KVA.
- The specially developed electrical properties of SSK combinations meet the relevant requirements: Despite exhibiting a more quick-acting performance regarding the switch-opening time than standard fuses, the special SSK-type fuses maintain the minimum breaking current at lower power dissipation.
- For further information please visit our website: www.siba.de.



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Energies with high standards Higher generator power, stronger transformers

- Specialist in the field of wind energy: Hardly any other industry demands so much of electrical installations as wind energy. A machine's medium installed active power of 1,720 kVA requires an apparent transformer power of up to 2,750 kVA – and the development continues. SIBA's SSK-type fuse-links have been further developed specially for this field of application and are currently designed for transformer powers of up to 3,150 kVA.
- Intensive research and development: One of the major challenges taken on by SIBA is the heating of fuses. Empirical work based on long-term test series involving the heating of fuses ensures that we are able to cope with this challenge and continue to further develop the SSK production series in order to meet the demands for regenerative energies in the future as well.



Bemessungsspannung Rated Voltage	Artikel Article	Bemessungsstrom Rated Current	Länge "e" Length "e"	Durchmesser D Diameter D
kV		A	mm	mm
6/12	30 012 43	63 - 100	292	67
	30 020 43	125		85
6/12	30 102 43	80 - 100	442	67
	30 103 43	125 - 160RC140		85
10/24	30 014 43	63 - 80	442	67
	30 022 43	100 - 140		85
20/36	30 024 43	63 - 80RC71	537	85

Bemessungsstrom Rated Current	Artikel Nr. Article No.	Bemessungs- ausschaltstrom Rated Breaking Current - I ₁	Minimaler Ausschaltstrom Min. Breaking Current - I ₃	Schmelzintegral Pre-Arcing- I ² t-Value	Ausschaltintegral Total I ² t-Value	Leistungsabgabe Power Loss
A		kA	A	A ² s	A ² s	W
63	30 012 43.63	63	210	9.300	74.000	62
80	30 012 43.80	63	280	12.800	103.000	76
100	30 012 43.100	63	320	22.300	138.000	98
125	30 020 43.125	63	450	39.000	323.000	135
80	30 102 43.80	63	280	12.800	103.000	72
100	30 102 43.100	63	320	22.300	138.000	93
125	30 103 43.125	63	450	39.000	323.000	128
160RC140 *	30 103 43.160	63	600	50.000	405.000	125
63	30 014 43.63	63	210	9.300	74.000	117
80	30 014 43.80	63	280	12.800	103.000	143
100	30 022 43.100	63	320	22.300	136.000	188
125	30 022 43.125	63	450	30.300	248.000	277
140RC100 *	30 022 43.140	63	500	55.000	395.000	116
63	30 024 43.63	40	280	9.300	74.000	189
80RC71 *	30 024 43.80	40	320	18.400	138.000	153

* Some SSK-type fuse-links have deviating designations, for example 160RC140. Here, the first value indicates the characteristic curve of the respective fuse-link, 160 A in this example. The letters "RC" (Rated Current) are followed by the rated current taking into consideration the maximum permissible heating of the fuse-link under standard conditions, 140 A in this example.

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