

### 3EK7 SL according to IEC 60099-4 standard

Electrical Characteristics

Rated voltage	Continuous operating voltage	Arrester type	Designation	Nominal discharge current	Charge transfer rating	Thermal charge transfer rating	Maximum values of the residual voltages at discharge currents of the following impulses						
							30/60µs 125 A kV	30/60µs 500 A kV	8/20µs 1 kA kV	8/20µs 3 kA kV	8/20µs 5 kA kV	8/20µs 10 kA kV	8/20µs 20 kA kV
3.0	2.4	3EK7 030 - 5 C B 4	SL	10	1.2	4.5	6.2	6.6	7.0	7.6	8.0	8.6	9.8
6.0	4.8	3EK7 060 - 5 C B 4	SL	10	1.2	4.5	12.5	13.2	14.0	15.2	15.9	17.1	19.7
9.0	7.2	3EK7 090 - 5 C C 4	SL	10	1.2	4.5	18.7	19.8	21.0	22.8	23.9	25.7	29.5
12	9.6	3EK7 120 - 5 C D 4	SL	10	1.2	4.5	25.0	26.3	28.0	30.4	31.8	34.2	39.3
15	12.0	3EK7 150 - 5 C D 4	SL	10	1.2	4.5	31.2	32.9	35.1	38.0	39.8	42.8	49.2
18	14.4	3EK7 180 - 5 C E 4	SL	10	1.2	4.5	37.4	39.5	42.1	45.7	47.7	51.3	59.0
21	16.8	3EK7 210 - 5 C F 4	SL	10	1.2	4.5	43.7	46.1	49.1	53.3	55.7	59.9	68.8
24	19.2	3EK7 240 - 5 C H 4	SL	10	1.2	4.5	49.9	52.7	56.1	60.9	63.6	68.4	78.7
27	21.6	3EK7 270 - 5 C H 4	SL	10	1.2	4.5	56.2	59.3	63.1	68.5	71.6	77.0	88.5
30	24.0	3EK7 300 - 5 C H 4	SL	10	1.2	4.5	62.4	65.8	70.1	76.1	79.5	85.5	98.3
33	26.4	3EK7 330 - 5 C J 4	SL	10	1.2	4.5	68.7	72.4	77.1	83.7	87.5	94.1	108
36	28.8	3EK7 360 - 5 C J 4	SL	10	1.2	4.5	74.9	79.0	84.1	91.3	95.4	103	118
39	31.2	3EK7 390 - 5 C J 4	SL	10	1.2	4.5	81.1	85.6	91.1	98.9	103	111	128
42	33.6	3EK7 420 - 5 C K 4	SL	10	1.2	4.5	87.4	92.2	98.2	107	111	120	138

Mechanical Characteristics

Height [H]	Creepage distance	Rated short-circuit current	Lightning impulse withstand voltage	Power frequency withstand voltage, wet	Specified short-term load SSL		Specified long-term load SLL		Approximate weight of arrester without accessories	Flashover distance	Insulating bracket
					arrester only	with ins. bracket	arrester only	with ins. bracket			
mm	mm	I <sub>s</sub> kA	1.2/50µs kV	1 min. kV	N	N	N	N	kg	mm	size
170	372	20	104	49	2940	470	2050	320	1.5	180	short
170	372	20	104	49	2940	470	2050	320	1.6	180	short
200	485	20	122	57	2500	400	1750	280	1.9	210	short
240	605	20	144	67	2080	330	1450	230	2.3	248	short
240	605	20	144	67	2080	330	1450	230	2.4	248	short
270	775	20	166	77	1850	290	1290	200	2.8	286	long
300	900	20	184	86	1660	260	1160	180	3.2	318	long
400	1230	20	242	113	1250	200	870	140	4.0	418	long
400	1230	20	242	113	1250	200	870	140	4.1	418	long
400	1230	20	242	113	1250	200	870	140	4.2	418	long
470	1420	20	281	131	1060	170	740	110	4.9	484	long
470	1420	20	281	131	1060	170	740	110	5.0	484	long
470	1420	20	281	131	1060	170	740	110	5.1	484	-
510	1595	20	302	140	980	150	680	100	5.4	520	-

#### How to order

3EK7 IEC SL

Example 3EK7 360-4CH4

- 3EK7 ... Medium-voltage surge arrester
- 360 ... Rated voltage = 36 kV
- 4 ... LD class 1 [5 → LD class 2]
- C ... IEC
- H ... Housing type (H=400 mm)
- 4 ... Alternating sheds

Example 3EK7 360-4CH4-Z M11 P12 M81

-Z ... is indicating accessories

Accessories:

- M11 ... Line clamp (M=Line terminal)
- P12 ... NEMA insulating bracket
- M81 ... Bird protection cap

#### Dimensions 3EK7 IEC SL

