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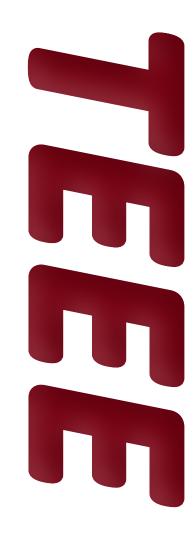
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PEOPLE ORIENTED

INNOVATION AND DEVELOPMENT



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COMPANY PROFILE

TEEE specializes in the design, production, and selling of small to very large dry type air core reactors. Our products are reliable and of high-quality, covering the complete range of voltages and applications.

We place a high priority on meeting our customers' contractual requirements and expectations. You can expect superior quality, competitive pricing, excellent lead times, and an ability to meet all domestic and international standards.

Please feel free to contact us for any information about our products, pricing, and delivery. It would be our pleasure to serve you and help meet your company's needs in a timely, cost-effective manner.



Model	The system rated voltage (kV)	Equipment rated voltage {kV}	highest voltage for equipment (kV)	Rated inductance (mH)	Rated current (A)	Power Rating (kVAr)	loss (KW)	Short circuit current/ duration (kA/s)	Coil lightning impulse voltage (kV)	Insulator lightning impulse voltage (kV)	Outer diameter (m)	height (m)	weigh (kg)
CKDGKL-384/35-12	35	35	38	68.75	133.33	384	6.585	1.11/4	200	200	1.30	0.94	523.05
CKDGKL-400/35-12	35	35	38	66	138.89	400	6.624	1.16/4	200	200	1.30	0.94	538.44
CKDGKL-400/35-12	35	35	38	9.63	363.64	400	6.042	3.03/4	200	200	1.30	0.85	533.61
CKDGKL-417/35-12	35	35	38	9.24	378.79	417	6.368	3.16/4	200	200	1.24	0.84	535.85
CKDGKL-480/35-12	35	35	38	55	166.67	480	6.877	1.39/4	200	200	1.40	0.91	606.07
CKDGKL-500/35-12	35	35	38	7.7	454.55	500	7.790	3.79/4	200	200	1.45	0.85	592.53
CKDGKL-576/35-12	35	35	38	45.84	200	576	9.479	1.67/4	200	200	1.40	1.23	703.39
CKDGKL-600/35-12	35	35	38	44	208.33	600	9.472	1.74/4	200	200	1.40	1.25	730.23
CKDGKL-667/35-12	35	35	38	5.78	606.06	667	9.155	5.05/4	200	200	1.50	0.96	721.3
CKDGKL-720/35-12	35	35	38	36.67	250	720	10.202	2.08/4	200	200	1.40	1.18	792.3
CKDGKL-800/35-12	35	35	38	33	277.78	800	10.435	2.31/4	200	200	1.40	1.21	848.6
CKDGKL-960/35-12	35	35	38	27.5	333.33	960	11.264	2.78/4	200	200	1.40	1.16	918.7
CKDGKL-1000/35-12	35	35	38	3.85	909.09	1000	11.431	7.58/4	200	200	1.69	0.92	865.4
CKDGKL-1000/35-12	35	35	38	26.4	347.22	1000	11.265	2.89/4	200	200	1.40	1.18	956.1
CKDGKL-1200/35-12	35	35	38	22	416.67	1200	12.304	3.47/4	200	200	1.60	0.98	992.4
CKDGKL-1600/35-12	35	35	38	16.5	555.56	1600	12.906	4.63/4	200	200	1.60	1.06	1274.5
CKDGKL-2400/35-12	35	35	38	11	833.33	2400	15.950	6.94/4	200	200	2.01	0.83	1550.7
CKDGKL-167/66-5	66	66	72.6	84.22	79.37	167	4.307	1.59/4	325	325	1.40	1.45	487.1
CKDGKL-300/66-5	66	66	72.6	46.79	142.86	300	7.818	2.86/4	325	325	1.40	1.83	625.6
CKDGKL-333/66-5	66	66	72.6	42.11	158.73	333	7.196	3.17/4	325	325	1.21	1.30	555.9
CKDGKL-400/66-5	66	66	72.6	242.48	72.46	400	7.934	1.45/4	325	325	1.37	1.35	651.2
CKDGKL-500/66-5	66	66	72.6	28.07	238.1	500	8.114	4.76/4	325	325	1.22	1.23	675.8
CKDGKL-667/66-5	66	66	72.6	21.06	317.46	667	8.997	6.35/4	325	325	1.20	1.23	798.2
CKDGKL-720/66-12	66	66	72.6	134.71	130.43	720	12.329	, 1.09/4	325	325	1.60	1.96	999.1
CKDGKL-800/66-12	66	66	72.6	121.24	144.93	800	10.290	1.21/4	325	325	1.33	1.26	884.6
CKDGKL-1000/66-12	66	66	72.6	14.04	476.19	1000	11.358	3.97/4	325	325	1.44	1.27	1025.5
CKDGKL-1200/66-12	66	66	72.6	80.83	217.39	1200	12.024	1.81/4	325	325	1.32	1.23	1111.3
CKDGKL-1600/66-12	66	66	72.6	60.62	289.86	1600	13.457	2.42/4	325	325	1.29	1.25	1160.8
CKDGKL-2400/66-12	66	66	72.6	40.41	434.78	2400	17.618	3.62/4	325	325	1.79	1.27	1404.7

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Model	The system rated voltage (kV)	Equipment rated voltage {kV}	highest voltage for equipment (kV)	Rated inductance (mH)	Rated current (A)	Power Rating (kVAr)	loss (kW)	Short circuit current/ duration (kA/s)	Coil lightning impulse voltage [KV]	Insulator lightning impulse voltage (kV)	Outer diameter (m)	height (m)	weigh (kg)
CKDGKL-288/10-12	10	10	11	7.64	346.41	288	4.569	2.89/4	95	95	1.39	0.49	405.09
CKDGKL-320/10-12	10	10	11	6.88	384.9	320	4.676	3.21/4	95	95	1.40	0.50	443.34
CKDGKL-360/10-12	10	10	11	6.11	433.01	360	5.166	3.61/4	95	95	1.49	0.46	469.63
CKDGKL-400/10-12	10	10	11	5.5	481.13	400	5.301	4.01/4	95	95	1.50	0.47	513.52
CKDGKL-17/35-5	35	35	38	231.09	15.15	17	0.582	0.3/4	200	200	1.19	1.53	353.18
CKDGKL-33/35-5	35	35	38	115.55	30.3	33	1.171	0.61/4	200	200	1.15	0.98	253.16
CKDGKL-40/35-5	35	35	38	660.05	13.89	40	1.405	0.28/4	200	200	1.30	2.79	630.13
CKDGKL-50/35-5	35	35	38	77.03	45.45	50	1.772	0.91/4	200	200	1.08	0.89	239.87
CKDGKL-67/35-5	35	35	38	57.77	60.61	67	2.356	1.21/4	200	200	1.02	0.85	237.34
CKDGKL-79/35-5	35	35	38	48.14	72.23	79	2.831	1.44/4	200	200	0.97	0.84	227.55
CKDGKL-80/35-5	35	35	38	330.02	27.78	80	2.801	0.56/4	200	200	1.29	1.61	394.89
CKDGKL-83/35-5	35	35	38	46.22	75.76	83	2.902	1.52/4	200	200	0.93	0.89	232.06
CKDGKL-100/35-5	35	35	38	38.52	90.91	100	3.108	1.82/4	200	200	0.93	0.89	249.30
CKDGKL-120/35-5	35	35	38	32.1	109.09	120	3.212	2.18/4	200	200	0.94	0.92	282.19
CKDGKL-120/35-5	35	35	38	220.02	41.67	120	3.396	0.83/4	200	200	1.30	1.42	441.43
CKDGKL-140/35-5	35	35	38	27.51	127.27	140	3.531	2.55/4	200	200	0.94	0.84	290.13
CKDGKL-160/35-5	35	35	38	24.07	145.45	160	3.616	2.91/4	200	200	0.95	0.85	318.57
CKDGKL-160/35-5	35	35	38	165.01	55.56	160	4.523	1.11/4	200	200	1.30	1.26	400.32
CKDGKL-167/35-5	35	35	38	23.11	151.52	167	3.850	3.03/4	200	200	0.89	0.85	316.03
CKDGKL-192/35-5	35	35	38	137.51	66.67	192	4.856	1.33/4	200	200	1.29	1.27	429.34
CKDGKL-200/35-5	35	35	38	132.01	69.44	200	4.923	1.39/4	200	200	1.29	1.27	436.55
CKDGKL-200/35-5	35	35	38	19.26	181.82	200	4.237	3.64/4	200	200	0.87	0.85	351.61
CKDGKL-240/35-5	35	35	38	110.01	83.33	240	5.797	1.67/4	200	200	1.29	0.95	407.12
CKDGKL-240/35-5	35	35	38	16.05	218.18	240	4.529	4.36/4	200	200	0.89	0.84	398.83
CKDGKL-250/35-5	35	35	38	15.41	227.27	250	4.649	4.55/4	200	200	0.88	0.84	402.03
CKDGKL-288/35-12	35	35	38	91.67	100	288	5.912	0.83/4	200	200	1.30	0.99	460.31
CKDGKL-300/35-12	35	35	38 -	12.84	272.73	300	5.724	2.27/4	200	200	1.23	0.85	437.32
CKDGKL-333/35-12	35	35	38	11.55	303.03	333	5.778	2.53/4	200	200	1.27	0.85	475.84
CKDGKL-336/35-12	35	35	38	78.58	116.67	336	6.090	0.97/4	200	200	1.30	1.01	507.23





As you can see, we are already established (and growing further) in the development of all types of inductors/reactors. We welcome discussions, inquiries, and orders from any location worldwide.

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PRODUCT INTRODUCTION

Our reactors and line traps are custom designed and manufactured to meet all IEC and IEEE/ANSI Standards, as well as any other specific standards required by our customers.

Conductors used in dry-type air core reactors and line traps are custom-designed. Size and insulation types are specifically made according customers' unique specifications - each designed to ensure maximum insulation integrity and cost effectiveness.

Our horizontal and vertical structured epoxy-impregnated fiber packaging provides superior mechanical strength, minimizing both reactor vibration and sound level.

Cable insulation is custom-designed to ensure coil strength and integrity. This not only minimizes turn-to-turn voltage stress levels, it also prevents moisture ingress and improves insulation reliability overall.

Current-carrying components are constructed of aluminum, and individual conductors are crimped and welded together. All conductor terminations are then welded to the aluminum bus bars, forming the top and bottom spider arms of the reactor.

To ensure reactor safety and longevity, all cable and materials undergo careful consideration in the manufacturing process. Our reactors are designed to operate at low temperatures, allowing for overload capacity and ensuring the longest-possible service life.

We can provide steel or fiberglass support, raising reactors above the ground. This provides proper magnetic clearance between the ground and the reactor, and it creates a safe clearance for humans at ground level.

Finally, our custom-engineered support systems are designed to reinforce the structure without significant weight increases, reducing both the overall dimensions and the number of insulators required.

Equipment highest Rated Rated Power Short Coil lightning loss insulator Outer height weigh rated voltage inductance current Rating (kW) circuit impulse liahtnina diameter (m) (kg) voltage for (mH) (A) (kVAr) current/ voltage impulse (m) (kV) equipment duration (kV) voltage (kV) (kA/s) (kV) 10 10.7 94 48 30 1.063 1 89/4 95 95 0.84 0.64 154.36 10 10 11 9.63 104 97 33 1 176 21/4 95 95 0.84 0.63 151.92 10 10 11 8.02 125.97 40 1 414 2 52/4 95 95 0.85 0.59 146.02 10 10 11 55 48 11 95 40 1.419 0.96/4 95 1.15 0.79 219.04 10 10 11 45.84 57.74 95 209.22 48 1.701 1.15/4 95 1.15 0.75 10 10 11 6.42 157.46 50 1.575 3.15/4 95 95 0.85 160.92 0.60 72.17 95 10 11 36.67 2.063 1 44/4 95 1.15 205.85 60 0.71 10 11 5.35 188.95 2.016 3.78/4 95 95 60 0.90 0.46 151.25 10 10 11 4.81 209.95 67 4.2/4 95 95 163.31 2.053 0.91 0.47 10 10 11 4.59 220.44 70 2.078 4.41/4 95 95 0.92 0.47 168.38 10 11 30.56 86.6 72 2.541 1.73/4 95 95 1.25 0.62 193.15 10 11 4.01 251.93 80 2.167 5.04/4 95 95 0.98 0.46 187.08 10 11 27.5 96.23 80 2.560 1.92/4 95 95 1.24 0.64 209.93 10 11 3.85 262.43 83 2.192 5.25/4 95 95 0.98 193.95 0.46 10 10 11 22.92 115.47 96 2.612 0.96/4 95 95 1.20 239.56 0.68 10 10 11 3.21 314.92 100 2.295 2.62/4 95 95 225.10 1.03 0.46 10 10 11 2.75 367.4 117 2.483 3.06/4 95 95 0.96 0.47 243.00 10 11 377.9 120 3.15/4 95 95 248.72 2.67 2.503 0.96 0.47 10 11 18.33 144.34 120 1.2/4 95 95 283.22 2717 1.21 0.71 10 11 419.89 133 2.740 3.5/4 95 2 41 95 0.98 0.46 264.73 10 11 15.28 173.21 144 3.110 1.44/4 95 95 1.24 0.61 287.57 10 10 11 472.38 3.002 3.94/4 2.14 150 95 95 0.98 0.45 282.33 10 10 11 13.75 192.45 160 3.214 1.6/4 95 95 1.29 0.60 310.16 10 11 1.93 524.86 167 3.250 4.37/4 95 95 1.00 0.45 309.36 10 11 13.1 202.07 168 3.240 1.68/4 95 95 1.29 0.60 322.38

The

system

rated

voltage

(kV)

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

11

11

11

11

11.46 230.94

> 11 240.56

9.17 288.68

7.86 336.79 192 3.611 1.92/4

200 3.648 2/4

240

280

4.081

95

95

95

95

2.41/4

4.548 2.81/4

95

95

95

95

1.30 0.55

1.30 0.56

1.34 0.52

1.40

0.48

328.54

340.29

365.63

395.11

Model

CKDGKL-30/10-5

CKDGKL-33/10-5

CKDGKL-40/10-5

CKDGKL-40/10-5

CKDGKL-48/10-5

CKDGKL-50/10-5

CKDGKL-60/10-5

CKDGKL-60/10-5

CKDGKL-67/10-5

CKDGKL-70/10-5

CKDGKL-72/10-5

CKDGKL-80/10-5

CKDGKL-80/10-5

CKDGKL-83/10-5

CKDGKL-96/10-12

CKDGKL-100/10-12

CKDGKL-117/10-12

CKDGKL-120/10-12

CKDGKL-120/10-12

CKDGKL-133/10-12

CKDGKL-144/10-12

CKDGKL-150/10-12

CKDGKL-160/10-12

CKDGKL-167/10-12

CKDGKL-168/10-12

CKDGKL-192/10-12

CKDGKL-200/10-12

CKDGKL-240/10-12

CKDGKL-280/10-12

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CK Series Reactor :	series	table
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Model	The system rated voltage (kV)	Equipment rated voltage (kV)	highest voltage for equipment (kV)	Rated inductance (mH)	Rated current (A)	Power Rating (kVAr)	loss (kW)	Short circuit current/ duration (kA/s)	Coil lightning impulse voltage {kV}	Insulator lightning impulse voltage [kV]	Outer diameter (m)	height (m)	weigh (kg)
CKDGKL-10/6-5	6	6	6.6	11.55	52.49	10	0.353	1.05/4	60	60	0.72	0.76	152.40
CKDGKL-17/6-5	6	6	6.6	6.93	87.48	17	0.598	1.75/4	60	60	0.77	0.56	134.11
CKDGKL-20/6-5	6	6	6.6	5.78	104.97	20	0.705	2.1/4	60	60	0.77	0.54	132.88
CKDGKL-24/6-5	6	6	6.6	33	48.11	24	0.849	0.96/4	60	60	1.15	0.82	201.50
CKDGKL-33/6-5	6	6	6.6	3.47	174.95	33	1.183	3.5/4	60	60	0.82	0.46	129.46
CKDGKL-40/6-5	6	6	6.6	19.8	80.19	40	1.418	1.6/4	60	60	1.14	0.63	169.26
CKDGKL-40/6-5	6	6	6.6	2.89	209.95	40	1.440	4.2/4	60	60	0.82	0.44	125.58
CKDGKL-48/6-5	6	6	6.6	16.5	96.23	48	1.597	1.92/4	60	60	1.14	0.62	175.28
CKDGKL-50/6-5	6	6	6.6	2.31	262.43	50	1.438	5.25/4	60	60	0.86	0.43	156.00
CKDGKL-60/6-5	6	6	6.6	1.93	314.92	60	1.506	6.3/4	60	60	0.88	0.45	184.91
CKDGKL-67/6-5	6	6	6.6	1.73	349.91	67	1.867	7/4	60	60	0.92	0.38	172.41
CKDGKL-70/6-5	6	6	6.6	1.65	367.4	70	2.012	7.35/4	60	60	0.92	0.37	174.10
CKDGKL-80/6-12	6	6	6.6	1.44	419.89	80	2.078	3.5/4	60	60	1.01	0.35	202.70
CKDGKL-80/6-12	6	6	6.6	9.9	160.38	80	1.960	1.34/4	60	60	1.08	0.57	220.77
CKDGKL-84/6-12	6	6	6.6	1.39	437.39	84	2.099	3.64/4	60	60	1.02	0.35	210.94
CKDGKL-96/6-12	6	6	6.6	8.25	192.45	96	2.414	1.6/4	60	60	1.12	0.53	219.42
CKDGKL-100/6-12	6	6	6.6	1.16	524.86	100	2.369	4.37/4	60	60	1.07	0.34	244.84
CKDGKL-120/6-12	6	6	6.6	6.6	240.56	120	2.364	2/4	60	60	1.10	0.53	274.45
CKDGKL-144/6-12	6	6	6.6	5.5	288.68	144	2.453	2.41/4	60	60	1.12	0.55	324.68
CKDGKL-160/6-12	6	6	6.6	4.95	320.75	160	2.877	2.67/4	60	60	1.28	0.45	313.79
CKDGKI168/6-12	6	6	6.6	4.71	336.79	168	2.894	2.81/4	60	60	1.28	0.46	330.19
CKDGKL-192/6-12	6	6	6.6	4.13	384.9	192	3.418	3.21/4	60	60	1.29	0.45	328.80
CKDGKL-200/6-12	6	6	6.6	3.96	400.94	200	3.387	3.34/4	60	60	1.25	0.47	344.84
CKDGKL-240/6-12	6	6	6.6	3.3	481.13	240	3.918	4.01/4	60	60	1.40	0.42	378.17
CKDGKL-10/10-5	10	10	11	32.1	31.49	10	0.354	0.63/4	95	95	0.85	0.99	202.65
CKDGKL-17/10-5	10	10	11	19.26	52.49	17	0.593	1.05/4	95	95	0.85	0.76	176.09
CKDGKL-20/10-5	10	10	11	. 16.05	62.98	20	0.708	1.26/4	95	95	0.85	0.73	169.51
CKDGKL-24/10-5	10	10	11,	91.67	28.87	24	0.849	0.58/4	95	95	1.15	1.64	268.69
CKDGKL-25/10-5	10	10	11	12.84	78.73	25	0.880	1.57/4	95	95	0.84	0.68	161.46

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DRY AIR CORE REACTOR APPLICATIONS

- Shunt reactors
- Thyristor controlled reactors
- Current-limiting reactors
- Smoothing reactors
- Filter reactors
- Damping reactors
- Test reactors
- Line traps

1. Shunt reactor: A shunt reactor is connected in parallel to the power system. The shunt reactor compensates for capacitive VARs that exist on lightly loaded transmission lines or underground cables. This ensures that operating voltages are maintained within acceptable levels and that the system is operating efficiently.



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2. Thyristor controlled reactor: A thyristor-controlled reactor [TCR] is a reactor connected in series with a bidirectional thyristor valve. The thyristor valve is phase-controlled, which allows the value of delivered reactive power to be adjusted to meet varying system conditions.

3. Current-limiting reactor: A current limiting reactor is connected in series with the power system. It is designed to reduce short-circuit currents, which result from plant expansions and power source additions, to levels that can be adequately handled by existing transmission and distribution equipment.



Model	The system rated voltage [kV]	Equipment rated voltage (KV)	highest voltage for equipment (kV)	Rated inductance (mH)	Rated reactance (Ω)	Rated current (A)	Power Rating (kVAr)	loss (kW)	Short circuit current/ duration (kA/s)	Coil lightning impulse voltage (kV)	Insulator lightning impulse voltage (kV)	Outer diameter (m)	height (m)	weight (kg)
XKDGKL-10-2000-0.73	10.0	10.5	12.0	0.73	0.23	2000.00	920	10.28	50/4	95	95	1.73	0.65	806
XKDGKL-10-2500-0.59	10.0	10.5	12.0	0.59	0.18	2500.00	1155	11.87	75/4	95	95	1.93	0.59	966
XKDGKL-10-2000-0.92	10.0	10.5	12.0	0.92	0.29	2000.00	1155	11.54	62.5/4	95	95	1.69	0.73	928
XKDGKL-10-3000-0.49	10.0	10.5	12.0	0.49	0.15	3000.00	1380	14.10	75/4	95	95	1.94	0.68	1041
XKDGKL-10-2500-0.73	10.0	10.5	12.0	0.73	0.23	2500.00	1439	13.47	75/4	95	95	2.03	0.63	1117
XKDGKL-10-3000-0.61	10.0	10.5	12.0	0.61	0.19	3000.00	1733	15.38	75/4	95	95	2.11	0.68	1221
XKDGKL-10-4000-0,37	10.0	10.5	12.0	0.37	0.12	4000.00	1850	17.04	75/4	95	95	1.92	0.74	1285
XKDGKL-10-3000-0.74	10.0	10.5	12.0	0.74	0.23	3000.00	2081	18.20	75/4	95	95	2.22	0.70	1305
XKDGKL-10-4000-0.46	10.0	10.5	12.0	0.46	0.14	4000.00	2307	19.49	75/4	95	95	2.00	0.76	1441
XKDGKL-10-4000-0.55	10.0	10.5	12.0	0.55	0.17	4000.00	2770	22.19	75/4	95	95	2.06	0.78	1543
XKDGKL-10-3000-1.02	10.0	10.5	12.0	1.02	0.32	3000.00	2881	19.95	75/4	95	95	2.37	0.70	1669
KDGKL-35-2000-0.32	35.0	35.0	40.5	0.32	0.10	2000.00	400	5.92	75/4	200	200	1.17	0.84	584
KKDGKL-35-1500-2.14	35.0	35.0	40.5	2.14	0.67	1500.00	1516	13.02	75/4	200	200	1.97	0.93	1241

BK Shunt Reactor series table

XK Current Limiting Reactor series table

Model	The system rated voltage (kV)	Equipment rated voltage (kV)	highest voltage for equipment (kV)	Rated inductance (mH)	Rated reactance (Ω)	Rated current (A)	Power Rating (kVAr)	loss (kW)	Coil lightning impulse voltage (kV)	Insulator lightning impulse voltage (kV)	Outer diameter (m)	height (m)	weigh (kg)
BKDGKL-5000/35	35.0	35.0	40.5	260.00	81.68	247.40	4999	21.00	200	200	3.22	2.27	4618
BKDGKL-10000/35	35.0	35.0	40.5	129.87	40.80	494.90	9993	33.19	200	200	3.10	2.22	6203
BKDGKL-15000/35	35.0	35.0	38.0	77.03	24.20	787.30	15000	49.80	200	200	3.11	2.69	8029
BKDGKL-20000/35	35.0	35.0	38.0	65.00	20.42	990.00	20014	51.45	200	200	3.31	2.47	9514
BKDGKL-21000/35	35.0	35.0	38.0	65.00	20.42	1004.00	20584	54.75	200	200	3.24	2.74	11326
BKDGKL-15000/66	66.0	66.0	72.5	280.75	88.20	412.40	15001	45.18	325	325	3.08	3.47	9067
BKDGKL-20000/66	66.0	66.0	72.5	231.00	72.57	525.00	20002	57.89	325	325	2.70	3.47	11662
BKDGKL-30000/66	66.0	63.0	72.5	140.38	44.10	825.00	30016	76.76	325	325	3.30	3.38	12082
3KDGKL-40000/66	66.0	63.0	72.5	105.30	33.08	1100.00	40028	86.97	325	325	3.51	3.39	16880
BKDGKL-40000/110	110.0	110.0	126.0	73.00	22.93	1320.00	39960	82.62	650	650	3.39	3.22	18989

TECHNICAL PARAMETERS

PK smoothing reactor series table

Model	Equipment rated voltage (kV)	highest voltage for equipment (KV)	Rated inductance (mH)	The rated dc current (A)	Maximum continuous dc (A)	The total harmonic current (A)	loss (kW)	Transient fault current (kA)	Single pole coil lightning impulse voltage (kV)	insulator lightning impulse voltage (kV)	Outer diameter (m)	Height (m)	Weight (kg)
PKDGKL-800-5000-50	800	816	50	5000.00	5046	309	345.10	40	2100	1950	4.71	4.09	65502
PKDGKL-800-5000-75	800	816	75	5000.00	5046	309	426.47	40	2100	1950	4.97	4.19	79750
PKDGKL-800-6250-50	800	816	50	6250.00	6296	386	431.09	40	2100	1950	5.22	4.35	94092
PKDGKL-800-6250-75	800	816	75	6250.00	6296	386	534.67	40	2100	1950	5.81	4.63	122535
PKDGKL-1100-5000-50	1100	1120	50	5000.00	5046	309	348.45	40	2600	2580	5.21	4.09	76072
PKDGKL-1100-5455-75	1100	1120	75	5455.00	5523	230	390.00	40	2600	2580	5.7	4.6	105000
PKDGKL-1100-6250-50	1100	1120	50	6250.00	6296	386	435.27	40	2600	2580	5.62	4.35	94910
PKDGKL-1100-6250-75	1100	1120	75	6250.00	6296	386	539.86	40	2600	2580	5.81	4.63	123601

XK High Voltage Current Limiting Reactor series table

Model The system roted roted (kV) Equipment roted (kV) highest voltage (kV) Reled voltage (kV) Roted roted (mH) Roted roted (mH) Roted roted (k) Power Roting (k) Loss (kW) Short current (kV) Coil lightning undots (kV) Insulator lightning (kV) Outer lightning undots (kV) XKDGKL-500-3600-33.43 500.0 500.0 550.0 33.43 10.50 3600.00 307.42 40/4 1550 1550 3.77 XKDGKL-500-4000-33.43 500.0 500.0 550.0 33.43 10.50 4000.00 168012 346.41 40/4 1550 1550 3.77 XKDGKL-500-4000-33.43 500.0 500.0 550.0 38.20 12.00 2400.00 69116 186.15 40/4 1550 1550 3.41 XKDGKL-500-3000-38.2 500.0 500.0 550.0 38.20 12.00 2400.00 19198 266.07 40/4 1550 1550 3.41 XKDGKL-500-3000-38.2 500.0 500.0 550.0 38.20 12.00 2000.00 19198 <th></th>	
XKDGKL-500-4000-33.43 500.0 500.0 550.0 33.43 10.50 4000.00 168012 346.41 40/4 1550 1550 3.77 XKDGKL-500-4000-33.43 500.0 500.0 550.0 33.43 10.50 4000.00 168012 346.41 40/4 1550 1550 3.75 XKDGKL-500-2400-38.2 500.0 500.0 550.0 38.20 12.00 2400.00 69116 186.15 40/4 1550 1550 3.41 XKDGKL-500-3400-38.2 500.0 500.0 550.0 38.20 12.00 3000.00 107994 266.07 40/4 1550 1550 3.69 XKDGKL-500-3400-38.2 500.0 500.0 550.0 38.20 12.00 3600.00 15511 322.52 40/4 1550 1550 3.94 XKDGKL-500-2400-44.56 500.0 500.0 550.0 38.20 12.00 4000.00 191989 365.66 40/4 1550 1550 3.62 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 </th <th>Height Weigh (m) (kg)</th>	Height Weigh (m) (kg)
XKDGKL-500-2400-38.2 500.0 500.0 550.0 38.20 12.00 2400.00 69116 186.15 40/4 1550 1550 3.41 XKDGKL-500-2400-38.2 500.0 500.0 550.0 38.20 12.00 2400.00 69116 186.15 40/4 1550 1550 3.41 XKDGKL-500-3000-38.2 500.0 500.0 550.0 38.20 12.00 3000.00 107994 266.07 40/4 1550 1550 3.49 XKDGKL-500-4000-38.2 500.0 500.0 550.0 38.20 12.00 3600.00 155511 322.52 40/4 1550 1550 3.94 XKDGKL-500-4000-38.2 500.0 500.0 550.0 38.20 12.00 4000.00 191989 365.66 40/4 1550 1550 3.62 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 1550 3.62 XKDGKL-500-2800-44.56	4.34 2843
XKDGKL-500-3000-38.2 500.0 500.0 550.0 38.20 12.00 2400.00 69.118 168.13 40/4 1530 1530 3.41 XKDGKL-500-3000-38.2 500.0 500.0 550.0 38.20 12.00 3000.00 107994 266.07 40/4 1550 1550 3.69 XKDGKL-500-4000-38.2 500.0 500.0 550.0 38.20 12.00 3600.00 155511 322.52 40/4 1550 1550 3.94 XKDGKL-500-4000-38.2 500.0 500.0 550.0 38.20 12.00 4000.00 191989 365.66 40/4 1550 1550 4.12 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 1550 3.62 XKDGKL-500-2800-44.56 500.0 500.0 550.0 44.56 14.00 2800.00 109752 239.95 40/4 1550 1550 3.76	4.30 3206
XKDGKL-500-3600-38.2 500.0 500.0 550.0 38.20 12.00 3600.00 155511 322.52 40/4 1550 1550 3.94 XKDGKL-500-3600-38.2 500.0 500.0 550.0 38.20 12.00 3600.00 155511 322.52 40/4 1550 1550 3.94 XKDGKL-500-4000-38.2 500.0 500.0 550.0 38.20 12.00 4000.00 191989 365.66 40/4 1550 1550 4.12 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 1550 3.62 XKDGKL-500-2800-44.56 500.0 500.0 550.0 44.56 14.00 2800.00 109752 239.95 40/4 1550 1550 3.76	4.31 1961
XKDGKL500-4000-38.2 500.0 12.00 4000.00 191989 365.66 40/4 1550 1550 4.12 XKDGKL500-200-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 3.62 XKDGKL500-2800-44.56 500.0 500.0 550.0 44.56 14.00 2800.00 109752 239.95 40/4 1550 3.76	4.30 2462
XKDGKL-500-2400-44.56 500.0 500.0 500.0 500.0 500.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 1550 3.62 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2400.00 80634 202.55 40/4 1550 1550 3.62 XKDGKL-500-2400-44.56 500.0 500.0 550.0 44.56 14.00 2800.00 109752 239.95 40/4 1550 1550 3.76	4.30 3059
KIDGKI-500-2800-44.56 500.0 500.0 550.0 44.56 14.00 240.00 60504 202.55 40/4 1550 1550 3.76	4.31 3463
	4.31 2123
XKDGKL-500-3000-44.56 500.0 500.0 550.0 44.56 14.00 3000.00 125990 287.70 40./4 1.550 1.550 3.90	4.34 2590
	4.33 2698
XKDGKL-500-3600-44.56 500.0 500.0 550.0 44.56 14.00 3600.00 181426 343.49 40/4 1550 1550 4.16	4.30 3435
XKDGKL-500-4000-44.56 500.0 500.0 550.0 44.56 14.00 4000.00 223983 394.94 40/4 1550 1550 4.31	4.34 3792
XKDGKL-500-2400-57.3 500.0 500.0 550.0 57.30 18.00 2400.00 103688 223.06 40/4 1550 1550 3.96	4.32 2552
XKDGKL-500-3000-57.3 500.0 500.0 550.0 57.30 18.00 3000.00 162012 318.93 40/4 1550 1550 4.32	4.34 3168
XKDGKL-500-3600-57.3 500.0 500.0 550.0 57.30 18.00 3600.00 233297 390.68 40/4 1550 1550 4.58	4.34 3918
XKDGKL-500-4000-57.3 500.0 500.0 550.0 57.30 18.00 4000.00 288021 444.09 40/4 1550 1550 4.74	4.34 4403
XKDGK1-500-2400-66.85 500.0 500.0 550.0 66.85 21.00 2400.00 120969 240.12 40/4 1550 1550 4.27	4.33 2820
XKDGKL-500-3000-66.85 500.0 500.0 550.0 66.85 21.00 3000.00 189014 335.88 40/4 1550 1550 4.54	4.34 3516

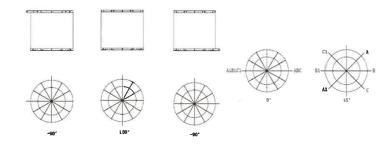
4. Smoothing reactor: A smoothing reactor is connected in series with the DC high voltage line as either part of the converter station or back-to-back interconnection between different transmission networks. It reduces the harmonic current [ripple], limits the inrush current during fault conditions, limits the DC phase current rate of rise and improves the dynamic stability of the power system.

5. Filter reactor: A filter reactor can be connected in either parallel or series with a capacitor bank. The resulting tuned circuit which reduces the harmonic current and controls the amplitude of the ripple current.



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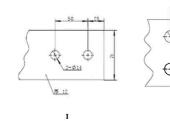
Line Angle of terminals

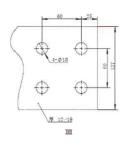


Π

准;订至未在明进出线夹角时,进出线接100°供费;三相曼放时,相同夹角接65"供费。

The shape and size of the terminal



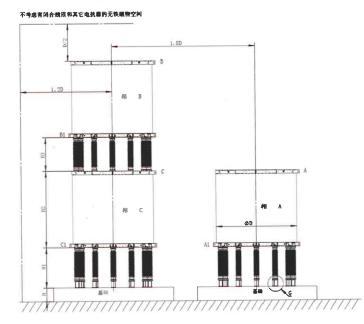


注: 法线电子材质为相材。

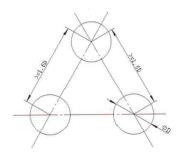
6. Damping reactor: A damping reactor is connected is series with one or more capacitor banks. It is designed to limit the capacitor switching inrush current while also capable to withstand the rated current and fault current in the event of a short circuit.



Two phases stacked and one phase on the ground



Three–phase \triangle layout



Outdoor shunt reactor installation drawing



7. Test reactor: Test reactors are installed in high-voltage and high-power laboratories. The typical applications include: current limiting, synthetic testing of circuit-breakers, inductive energy storage, and simulation circuits.

8. Line trap: Line traps are connected in series with high voltage and ultra-high voltage ac power lines. They are designed to introduce a high impedance in the carrier frequency range of 40 KHZ to 500 KHZ, with negligible impedance at the power frequency. The high impedance ensures that the carrier signals are not lost or attenuated into the substation.



OPERATING CONDITIONS

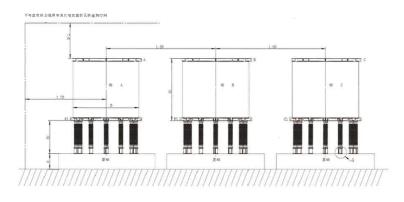
- 1. Location: Indoor or outdoor
- 2. Ambient temperature: -40°C +50°C (according to customer's requirement)
- 3. Altitude: < 3000m°C (according to customer's requirement)
- 4. Maximum wind speed: 45m/s (according to customer's requirement)
- 5. **Relative humidity:** < 90%
- 6. Seismic capacity: horizontal 0.30g (according to customer's requirement)

Vertical 0.15g (according to customer's requirement)

- 7. Note the type of ventilation when using indoor.
- 8. Installation location must be clean, no harmful gas, steam, electric conductivity, or explosive dust.

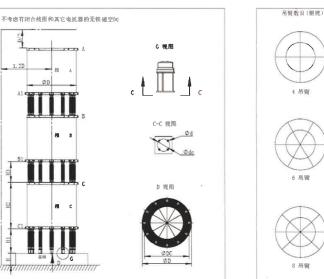
NOTE: If you have any special requirements, please contact TEE directly.

Three-phase side-by-side layout



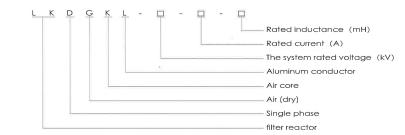
Three-phase stacked



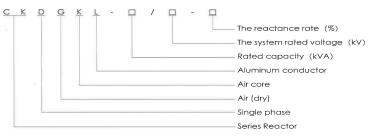


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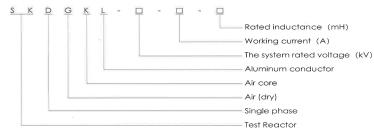
4、LK Filter Reactor



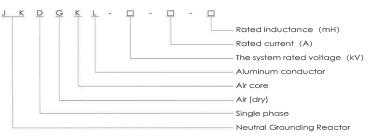
5、CK Series Reactor



6、SK Test Reactor



7、JK Neutral Grounding Reactor



MAIN ORDER PARAMETER

Smoothing Reactor

1.	System voltage
2.	Rated voltage
3.	The highest running voltage
4.	Rated reactance value
5.	Rated dc current
6.	The maximum dc current
7.	Harmonic current
8.	Type of insulation
9.	Temperature class of the insulation

10. Rated loss

11. The average temperature rise

12. Hot spot temperature rise

13. Sound level

14. Location indoor and outdoor

15. Installation method and terminal bus bar orientation

Shunt Reactor

- 1. Rated Frequency
- 2. System voltage
- 3. Rated voltage
- 4. Single phase related kVAr
- 5. The highest continuous operating voltage
- 6. Rated reactance value
- 7. Type of insullation
- 8. Tmperature class of the insulation

9. Rated loss

- 10. The average temperature rise
- 11. Hot spot temperature rise

12. Sound level

- 13. Location indoor and outdoor
- 14. Installation method and terminal bus bar orientation

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Current Limiting Reactor

1.	Rated Frequency
2.	System voltage
3.	Rated current
4.	Rated short time current and duration
5.	Rated reactance value
6.	Type of insullation
7.	Tmperature class of the insulation
8.	Rated loss
9.	The average temperature rise
10.	Hot spot temperature rise
11.	Sound level
12.	Location indoor and outdoor
13.	Installation method and terminal bus bar orientation

Filter Reactor

1.	System voltage
2.	Rated voltage
3.	Rated Frequency
4.	Rated current
5.	Harmonic current
6.	Rated inductance
7.	Rated quality factor
8.	Rated Short time current and duration
9.	Type of insullation
10.	Rated loss
11.	The average temperature rise
12.	Hot spot temperature rise
13.	Sound level
14.	Location indoor and outdoor
15.	Installation method and terminal bus bar orientation
16.	Inductance adjustable range and spep length

Series Reactor

1. Rated frequency

2. System Voltage

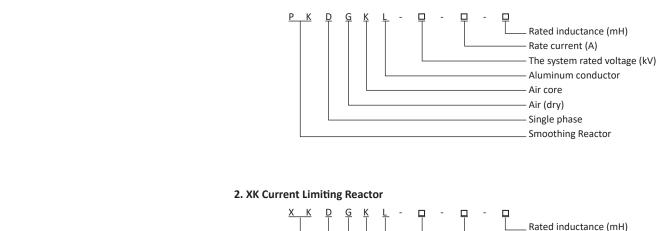
6. Rated current

Type of Insulation
Rated loss

4. Rated reactance rate

5. Single-phase rated kVAr

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14. Installation method and terminal bus bar

10. The average temperature rise

11. Hot spot temperature rise

3. Rated voltage of matched capacitor

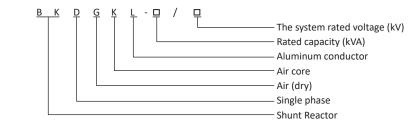
7. Rated short-time current and duration

^{14.} orientation

MAJOR TYPES OF REACTORS

- 1. Smoothing Reactor: PKDGKL system rated voltage rated current rated inductance
- 2. Current Limiting Reactor: XKDGKL system rated voltage rated current rated inductance
- 3. Shunt Reactor: BKDGKL rated kVAr / system rated voltage
- 4. Filter Reactor: LKDGKL system rated voltage rated current rated inductance
- 5. Series Reactor: CKDGKL rated kAVr / system rated voltage reactive rate %
- 6. Test Reactor: SKDGKL system rated voltage working current rated inductance
- 7. Neutral Ground Reactor: JKDGKL system rated voltage rated current rated inductance

3. BK Shunt Reactor



Rate current (A)

Air core

- Air (dry) - Single phase

Aluminum conductor

Current Limiting Reactor

The system rated voltage (kV)

1. PK series dry air core smoothing reactor Smoothing Reactor