



DCL铝壳直流支撑电容

DC-LINK CAPACITOR__ DCL (C30SERIES)

主要特点

- 可承受高有效值电流
- 可承受高峰值电流
- 自感低
- 可靠性高, 使用寿命长
- 无极性介质

Highlight Features

- High Irms rating
- High Ipeak rating
- Low self-inductance
- High reliability and life expectancy
- Non-polar

应用领域

- 大功率变频器
- 风电变流器、光伏逆变器
- 中频逆变器
- UPS/SVG/APF
- 低容量、大电流需求的场合替代铝电解电容

Applications

- DC-linking and DC-filtering in frequency converter
- DC-linking in wind power converter
- DC-Linking in PV inverter
- UPS/SVG/APF
- Alternating aluminum electrolytic capacitors (lower capacitance, higher current)



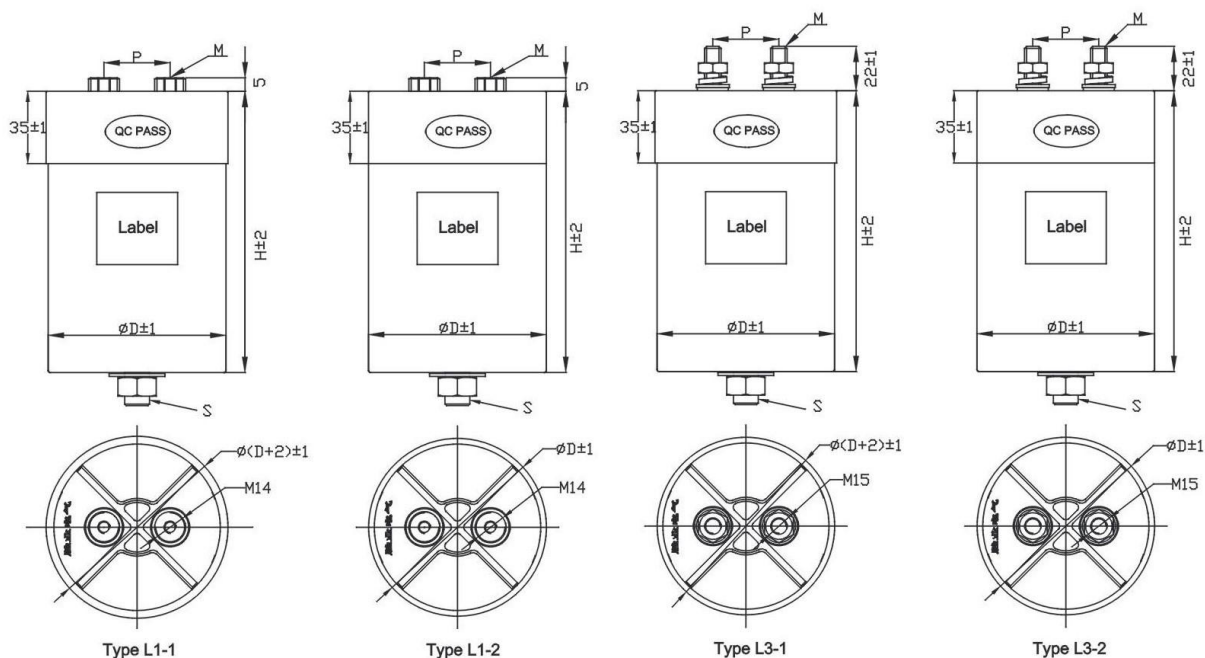
技术参数 Parameters

容量范围 Rated capacitance	160μF ~ 3200μF (25°C)
额定电压 Rated d.c. voltage	600VDC ~ 2200VDC
容量偏差 Tolerance	±10% (standard), ±5% (upon request)
电介质 Dielectric	Metallized polypropylene, Segmented MKP (upon request)
介质损耗 Dissipation factor	Tand≤0.0002 (100Hz , 25°C)
时间常数 Insulation resistor(RC)	≥20,000s (500Vdc , 25°C)
运行温度 Operating temperature (T _{min} /T _{max})	-40°C/+85°C
储存温度 Storage temperature (T _s)	-40°C/+85°C
海拔高度 Altitude	≤2000m
预期寿命 Life expectancy	100,000 hours at U _{NDC} and Ths≤70°C
极间耐压 Test voltage between terminals	1.5 U _{NDC} / 10s at 25°C
极壳耐压 Test voltage terminal to case	U _{NDC} ≤1500Vdc, 3000Vac/10s , at 50Hz 25°C U _{NDC} > 1500Vdc, (√2U _{NDC} +1000)Vac/10s, at 50Hz 25°C
过电压 Over voltage	1.1U _{NDC} (30% of on-load-duration) 1.15U _{NDC} (30 min / day) 1.2U _{NDC} (5 min / day) 1.3U _{NDC} (1 min / day)
结构 Construction	Dry, Filling with epoxy resin, UL94V-0, Anti-flaming, Non-inductive
外壳 Case	Aluminum case
参考标准 Reference standards	IEC61071-2007, UL94V-0, GB/T17702-2013
安全认证 Safety Approvals	UL (Certificate NO.E185116) TUV (Certificate NO.B160273204023)

> 数据表

DATA SHEETS

外观尺寸 Outline Drawing



Type	D/mm	P/mm	Terminal		Bottom Stud	
			M/mm	Max T	S/mm	Max T
L1	86	32	M6*10	6Nm	M12*16	10Nm
L1	96	32	M6*10	6Nm	M16*25	12Nm
L1	116	50	M6*10	6Nm	M16*25	12Nm
L1	136	50	M6*10	6Nm	M16*25	12Nm

Type	D/mm	P/mm	Terminal		Bottom Stud	
			M/mm	Max T	S/mm	Max T
L3	86	32	M8*20	8Nm	M12*16	10Nm
L3	96	32	M8*20	8Nm	M16*25	12Nm
L3	116	50	M10*20	8Nm	M16*25	12Nm
L3	136	50	M10*20	8Nm	M16*25	12Nm

常用规格选型表 General Specifications Table

规格型号 Specification	C	φ D	H	ESR	Irms 10kHz 40℃	Irms 10kHz 55℃	Irms 10kHz 70℃	Rth	产品代码 Code
	μ F	mm	mm	m Ω	A	A	A	℃/W	
Un = 600 VDC									
DCLSY600-650	650	86	95	1.2	80	60	30	4.80	IO600L6500UKN4BFU3N
DCLSY600-750	750	86	125	3.5	45	36	20	3.50	IO600L7500UJN1BFD3N
DCLSY600-950	950	86	140	0.99	70	47	21	5.63	IO600L9500UKN4BFE3N
DCLSY600-1300	1300	86	180	1.34	74	52	20	4.18	IO600L1301UKN4BFI3N
DCLSY600-1500	1500	96	180	1.10	82	58	22	4.10	IO600L1501UKN4BGI3N
DCLSY600-2350	2350	116	180	0.70	105	75	28	3.78	IO600L2351UKN4BII3N
Un = 800 VDC									
DCLSY800-800	800	86	136	1.9	80	56	40	5.00	IO800L8000UKN4BFU3N
DCLSY800-1000	1000	86	180	1.4	70	50	18	4.20	IO800L1201UKN4BFI3N
DCLSY800-1200	1200	96	180	1.35	74	52	19	4.11	IO800L1201UKN4BGI3N
DCLSY800-1800	1800	116	180	1.30	78	55	20	3.78	IO800L1201UKN4BII3N



常用规格选型表 General Specifications Table

规格型号 Specification	C	φD	H	ESR	Irms 10kHz 40°C	Irms 10kHz 55°C	Irms 10kHz 70°C	Rth	产品代码 Code
	μ F	mm	mm	mΩ	A	A	A	°C/W	
Un = 900 VDC									
DCLSY900-470	470	86	125	4.80	39	27	11	4.27	IO900L4700UKN4BFD3N
DCLSY900-520	520	86	136	1.33	60	40	16	5.66	IO900L5000UKN4BFE3N
DCLSY900-600	600	86	150	2.00	53	35	13	5.30	IO900L6000UKN4BFI3N
DCLSY900-750	750	86	175	1.50	70	49	28	4.20	IO900L7500UJN1BFH3N
DCLSY900-960	960	86	230	2.30	62	44	18	3.40	IO900L9600UKN4BFK3N
DCLSY900-1000	1000	96	180	1.09	74	47	21	4.10	IO900L1001UKN4BGI3N
DCLSY900-900	900	116	125	1.20	86	60	20	3.48	IO900L1401UKN4BID3N
DCLSY900-1400	1350	116	180	0.90	94	66	27	3.74	IO900L1351UKN4BII3N
DCLSY900-1800	1800	116	230	1.20	93	65	24	2.94	IO900L1801UKN4BIK3N
Un = 1100 VDC									
DCLSY1100-170	170	76	96	2.40	57	47	33	5.60	I1100L1700UJN1BEU3S
DCLSY1100-210	210	86	85	4.00	30	25	14	6.00	I1100L2100UJN1BFU3N
DCLSY1100-420	420	86	136	2.05	62	42	21	4.10	I1100L4200UKN4BFU3N
DCLSY1100-420-S	420	86	155	1.30	75	50	25	3.90	I1100L4200UKN4BFF3N
DCLSY1100-650	650	86	175	1.50	70	50	18	4.00	I1100L6500UKN4BFH3N
DCLSY1100-750	750	86	230	1.80	70	49	17	3.40	I1100L7500UKN4BFK3N
DCLSY1100-600	600	96	96	1.60	68	46	27	4.30	I1100L6000UJN1BGF3N
DCLSY1100-900	900	96	230	1.60	70	49	18	3.80	I1100L9000UKN4BGK3N
DCLSY1100-400	400	116	96	1.00	77	55	50	5.00	I1100L4000UJN1BIU3N
DCLSY1100-1000	1000	116	180	1.18	85	60	22	3.50	I1100L1001UKN4BII3N
DCLSY1100-1400	1400	116	230	1.10	95	67	24	2.95	I1100L1401UKN4BIK3N
DCLSY1100-2000	2000	136	230	0.98	100	70	25	2.89	I1100L2001UKN4BKK3N
DCLSY1100-2900	2900	136	345	0.78	120	83	30	2.75	I1100L2901UKN4BKU3N
Un = 1200Vdc									
DCLSY1200-330	330	86	136	3.5	50	35	20	3.42	I1200L3300UKN4BFE3S
DCLSY1200-500	500	86	180	1.71	58	37	17	4.29	I1200L5000UKN4BFI3N
DCLSY1200-600	600	86	225	1.20	80	66	24	2.85	I1200L6000UKN4BFU3N
DCLSY1200-680	680	86	225	2.20	69	49	17	2.85	I1200L6800UKN4BFU3N
DCLSY1200-350	350	96	136	0.90	80	59	34	5.32	I1200L3500UKN4BGU3N
DCLSY1200-800	800	96	230	1.52	72	50	18	3.8	I1200L8000UKN4BGK3N
DCLSY1200-600-S	600	116	130	1.30	70	50	18	4.50	I1200L6000UKN4BIU3N
DCLSY1200-900	900	116	180	1.34	75	53	19	3.90	I1200L9000UKN4BII3N
DCLSY1200-1200	1200	116	230	0.96	95	59	26	2.89	I1200L1201UKN4BIK3N
DCLSY1200-1200-S	1200	116	248	0.80	120	90	48	2.70	I1200L1201UKN4BIU3N
DCLSY1200-1700	1700	136	230	1.53	83	58	21	2.89	I1200L1701UKN4BKK3N
Un = 1300 VDC									
DCLSY1300-160	160	86	100	2.90	45	31	12	5.25	I1300L1600UKN4BFA3N
DCLSY1300-330	330	86	180	2.60	52	37	14	4.27	I1300L3300UKN4BFI3N
DCLSY1300-400	400	96	180	1.86	56	36	16	4.16	I1300L4000UKN4BGI3N
DCLSY1300-500	500	96	230	2.90	57	40	15	3.22	I1300L5000UKN4BGK3N
DCLSY1300-600	600	116	180	1.12	77	49	22	3.74	I1300L6000UKN4BII3N
DCLSY1300-820	820	116	230	1.70	78	55	21	2.91	I1300L8200UKN4BIK3N
Un = 1500 VDC									
DCLSY1500-230	230	86	155	2.50	55	38	15	4.10	I1500L2300UKN1BFF3N
DCLSY1500-420	420	116	156	1.20	80	55	20	4.05	I1500L4200UKN1BIF3N
DCLSY1500-600	600	116	230	0.99	100	70	25	2.97	I1500L6000UKN1BIK3N
Un = 2200 VDC									
DCLSY2200-160	160	86	230	3.74	44	28	13	3.39	I2200L1600UKN4BFK3N
DCLSY2200-385	385	116	293	1.81	67	43	20	3.03	I2200L3850UKN4BIU3N

注：特殊规格，可按客户需求定制。

Note: Customized products are available upon request.