




Technical data

													
Classification	Type	Fixed (Z) type				Drawout (D) type				Direct-drawout (DB) type - for MCSG			
		LVC-3Z -42ED	LVC-6Z -42LD	LVC-3Z -44ED	LVC-6Z -42LD	LVC-3D -42ED	LVC-6D -42LD	LVC-3D -44ED	LVC-6D -42LD	LVC-3DB -42ED	LVC-6DB -42LD	LVC-3DB -44ED	LVC-6DB -42LD
Type of magnetizing		Continuous	Latch	Continuous	Latch	Continuous	Latch	Continuous	Latch	Continuous	Latch	Continuous	Latch
Rated voltage	Ur [kV]	3.6	7.2	3.6	7.2	3.6	7.2	3.6	7.2	3.6	7.2	3.6	7.2
Rated insulation													
	Dielectric strength (60Hz) Ud [kV/min]	20				20				20			
	Impulse withstand Up [kVp]	60				60				60			
Rated frequency	fr [Hz]	50/60				50/60				50/60			
Rated operational current	Ie [A]	200		400		200		400		200		400	
Short-time withstand current													
	30 sec Ik [A]	2500				2500				2500			
	1sec Ik [A]	6300				6300				6300			
Rated peak withstand current	Ip [kA peak]	16.4				16.4				16.4			
Rated short-circuit time	tk [s]	1				1				1			
Rated short-circuit breaking current	Isc [kA]	3.2				3.2				3.2			
Rated short-circuit making current	Ima [kA]	3.2				3.2				3.2			
Switching frequency	[op./hour]	1200	300	1200	300	1200	300	1200	300	1200	300	1200	300
Switching category (AC3)													
	100 closing operations [A]	3200				3200				3200			
	25 opening operations [A]	3200				3200				3200			
Thermal current	Ith [A]	200		400		200		400		200		400	
Mechanical life		3,000,000	500,000	3,000,000	500,000	3,000,000	500,000	3,000,000	500,000	3,000,000	500,000	3,000,000	500,000
Electrical life		300000				300000				300000			
Short-circuit breaking capacity (O-3min-CO-2min-CO)	[A]	4000				4000				4000			
Application conditions													
	Altitude without Derating	Lower than 1000m				Lower than 1000m				Lower than 1000m			
	Ambient	-5 to +40°C				-5 to +40°C				-5 to +40°C			
	Relative humidity	Less than 90% (Avg. 1 Month)				Less than 90% (Avg. 1 Month)				Less than 90% (Avg. 1 Month)			
Weight	[kg]	24				41				56			
Auxiliary contact ratings													
	Arrangement	3a3b	2a2b	3a3b	2a2b	2a2b				2a2b			
	Current [A]	10(A600)				10(A600)				10(A600)			
	Voltage [V]	600Max ~ 48Min				600Max ~ 48Min				600Max ~ 48Min			
Max. Applicable Capacity													
	Motors [kW]	750	1500	1500	3000	750	1500	1500	3000	750	1500	1500	3000
	Transformers [kVA]	1000	2000	2000	4000	1000	2000	2000	4000	1000	2000	2000	4000
	Capacitors [kVA]	750	1500	1200	2000	750	1500	1200	2000	750	1500	1200	2000

Power fuse

Power fuses can be installed into combination(G, GB) type contactors for the protection of equipments and systems from short-circuit.

Fuse ratings are selected properly after system analysis and some accessories such as fuse link clips should be selected by the fuse rating.





Combination drawout (G) type				Combination direct-drawout (GB) type - for MCSG				IEC60470 (ed 2000-05)
LVC-3G -42ED	LVC-6G -42LD	LVC-3G -44ED	LVC-6G -42LD	LVC-3GB -42ED	LVC-6GB -42LD	LVC-3GB -44ED	LVC-6GB -42LD	
Continuous	Latch	Continuous	Latch	Continuous	Latch	Continuous	Latch	4.1 Rated Voltage (Ur)
3.6	7.2	3.6	7.2	3.6	7.2	3.6	7.2	
20				20				4.2 Rated insulation level
60				60				
50/60				50/60				4.3 Rated frequency (fr)
200		400		200		400		4.101 Rated operational current (Ie)
2500				2500				4.5 Rated short-time withstand current (Ik)
6300				6300				
16.4				16.4				4.6 Rated peak withstand current (Ip)
1				1				4.7 Rated duration of short-circuit (Tt)
3.2/40 (with fuses)				3.2/40 (with fuses)				4.107 Coordination with short-circuit protective devices
3.2/40 (with fuses)				3.2/40 (with fuses)				4.107 Coordination with short-circuit protective devices
1200	300	1200	300	1200	300	1200	300	4.102 Rated duties
3200				3200				4.103, 4.104 Rated load and overload characteristics, by utilization category
3200				3200				
200		400		200		400		4.4.101 Thermal current (Ith)
3,000,000	500,000	3,000,000	500,000	3,000,000	500,000	3,000,000	500,000	4.106 Electrical endurance
300000				300000				
4000				4000				
Lower than 1000m				Lower than 1000m				
-5 to +40°C				-5 to +40°C				
Less than 90% (Avg. 1 Month)				Less than 90% (Avg. 1 Month)				
46				62				
2a2b				2a2b				
10(A600)				10(A600)				
600Max ~ 48Min				600Max ~ 48Min				
750	1500	1500	3000	750	1500	1500	3000	
1000	2000	2000	4000	1000	2000	2000	4000	
750	1500	1200	2000	750	1500	1200	2000	

Power fuse ratings

Standard	Type	Rated voltage(kV)	Rated current(A)	Diameter (mm)	Fuse clip code	Application	
DIN type	LFL-3/6G-□B	3.6/7.2	5, 10, 20, 30, 40, 50, 63, 75, 100, 125	45	4	All application including transformers, motors and capacitors	
	LFL-3G-□B	3.6	160, 200				
	LFL-6G-□B	7.2	160, 200				
KS type	General use	LFL-3/6G-□	5(T1.5), 10(T3), 20(T7.5), 30(T15), 40(T20), 50(T30), 60(T30)	50	5	General use transformers capacitors.	
			75(T50), 100(T75)	60	6		
		LFL-3G-□	150(T100), 200(T150)	60	6		
		300(T250), 400(T300)	77	7			
	LFL-6G-□	150(T100), 200(T150)	77	7			
	For motors	LFL-3M-□	3.6	M20, M50, M100	60	6	Motors capacitors.
				M150, M200	77	7	
M300, M400				87	8		
LFL-6M-□	7.2	M20, M50	60	6			
		M100, M150, M200	77	7			
		M300, M400	87	8			

Note) Fuses, types LFL-6G-300 and LFL-6G-400, are not able to built in vacuum contactors. Refer to the power fuse catalog for more detail.

Ordering information

Contactor

LVC·3Z·42E D

Control voltage(kV)		Fuse checker		PT		Position Switch		FUSE Clip		FUSE type	
D1	DC 110	0	Without	0	Without PT	0	Without	0	-	0	LFL-3/6G-5~100
A1	AC 110	1	With	1	1EA of 100Var	1	With	4	φ 45		LFL-3G-150~400
A2	AC 220	1	With	2	2EA of 100Var	1	With	5	φ 50		LFL-6G-150, 200
				3	1EA of 200Var			6	φ 60		LFL-3/6G-5B~100B
				4	2EA of 200Var			7	φ 77		LFL-3M-20~400
								8	φ 87		LFL-6M-20~200
									1		LFL-3/6G-125B
											LFL-3G-160B, 200B
										LFL-6G-160B, 200B	
										LFL-6M-300, 400	

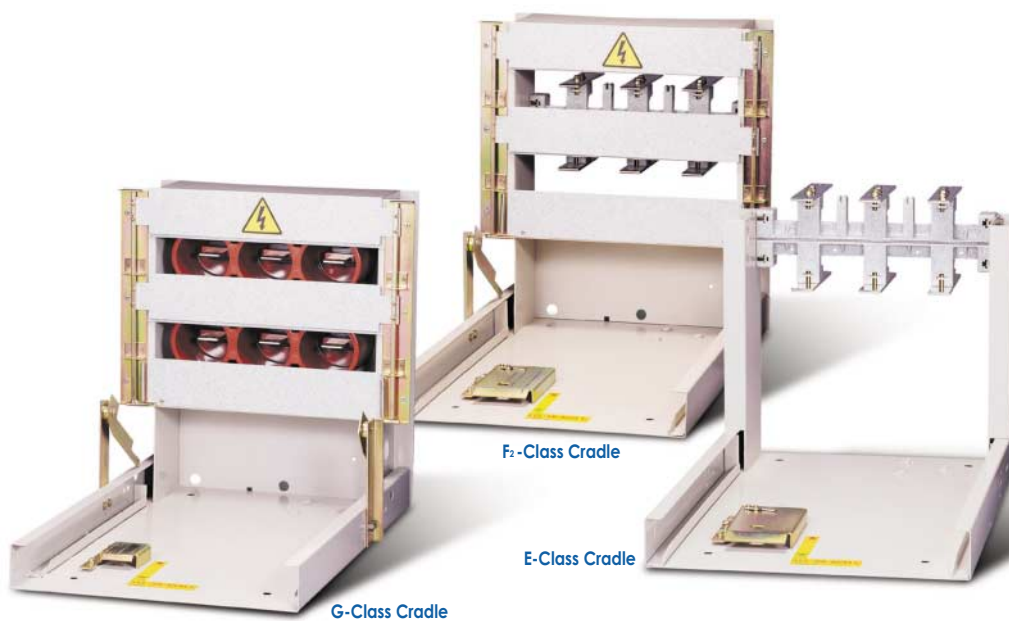
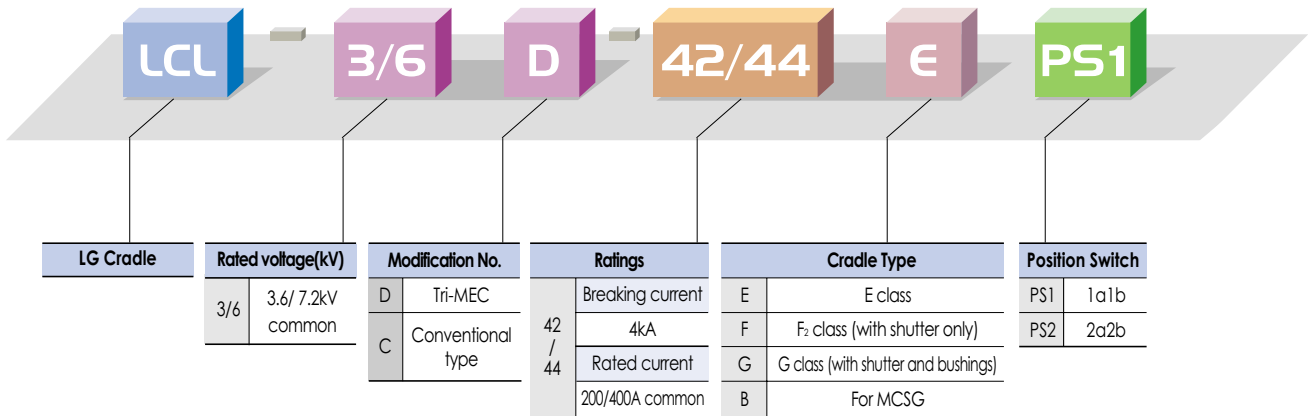
Note) Refer to the fuse rating on page 11

Contactor type

LVC 3 Z 4 2 E D

LG Vacuum Contactor	Rated voltage(kV)		Installation		Breaking current(kA)		Rated current(A)		Control method		Modification No.	
		3	3.6	Z	Fixed type	4	4	2	200	E	Continuous excitation	D
	6	7.2	D	Drawout type			4	400	L	Instantaneous excitation	C	Conventional type
			G	Combination drawout type (Fuse connectable)								
			DB	Direct-drawout type (For MCSG)								
			GB	Combination direct-drawout type (Fuse connectable and for MCSG)								

Cradle



External view



- ① Front cover
- ② Fuse checking window
- ③ Connector
- ④ Push button(Interlock lever)
- ⑤ Handle(Draw-in and Drawout)
- ⑥ ON/OFF indicator
- ⑦ Operation counter
- ⑧ Manual trip button
- ⑨ Drawout carrier
- ⑩ Direct drawout carrier
- ⑪ Interlock lever
- ⑫ Interlock button
- ⑬ Hole for Interlock lever insertion
- ⑭ Test/Run indicator
- ⑮ Cradle
- ⑯ CTD(Condensor trip device)
- ⑰ Fuse case