

LBT Series Dynamic Switching Unit

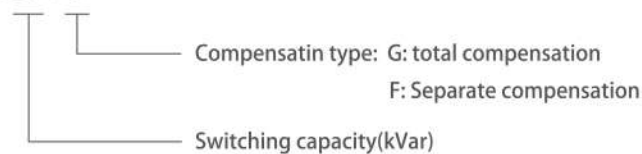
Overview

LBT series dynamic switching unit refers to a kind of contactless rapid switch with high reliability, and it is used in dynamic power factor compensation equipment. It is especially applicable to switching occasions requiring rapid and no-wear switching. It is usually applied into occasions where reactive change is frequent, such as lifting equipment, elevator and electric welding machine.



Naming Meaning

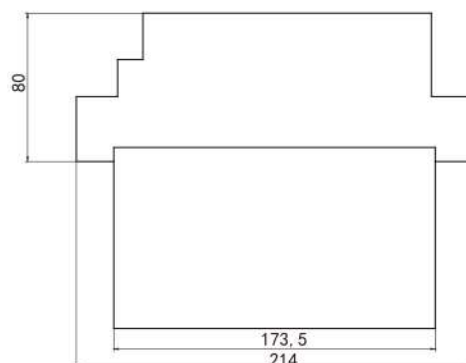
LBT 50 / G



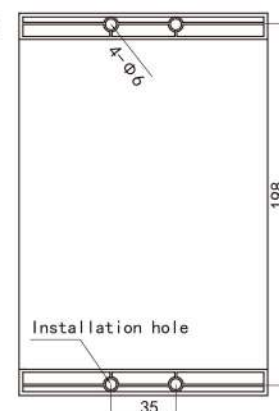
Main Technical Parameters

Item	Parameter
Working power source	AC220V±20%
Switching capacity	15~50kVar
Control voltage	5~15V DC
Switching time	≤20ms
Contact voltage resistance	1600V
Cooling mode	active air cooling
Environmental temperature	-25°C~+70°C
Environmental humidity	≤85%
Allowable maximum altitude	≤2,000m (5,000m can be customized)
Service life	10 ⁶ times
External dimension	External dimension: 116 (width) × 214 (height) × 186 (depth) (unit: mm)
nstallation hole dimension	nstallation hole dimension: 35 (width) × 198 (height)

Vertical view



Back view



Configuration and model selection

Common Configuration and Model Selection of Harmonic Elimination Type Compensation Cabinet (Three-phase Common Compensation)
 $U_n=400V$, $F_n=50Hz$, and $P=7\%$ (reactance rates: P5.5, P12.5; see the following contents for reference)

Transformer Capacity (kVA)	Compensation Capacity (kVar)	Number of Compensation Ways	Reactive Compensation Controller	Knife Switch (A)	SLG+LBT Model Selection		Recommended Cabinet Body Dimension W×D×H (mm)
					SLG	LBT	
630	200	6	WGK-31-501-10B	400	4×SLG25-P7/400	4×LBT25/G	1000×800×2200
					2×SLG50-P7/400	2×LBT50/G	
800	240	6		630	6×SLG40-P7/400	6×LBT40/G	1000×800×2200
1000	300	6		630	6×SLG50-P7/400	6×LBT50/G	1000×800×2200
1250	360	9		800	9×SLG40-P7/400	9×LBT40/G	1000×800×2200
1250	400	8		800	8×SLG50-P7/400	8×LBT50/G	1200×1000×2200
1600	240×2	12	WGK-31-501-12B	630×2	12×SLG40-P7/400	12×LBT40/G	1000×800×2200 (×2)
2000	300×2	12		630×2	12×SLG50-P7/400	12×LBT50/G	1000×800×2200 (×2)
2500	360×2	18	WGK-31-501-10B	800×2	18×SLG40-P7/400	18×LBT40/G	1000×800×2200 (×2)
2500	400×2	16		800×2	16×SLG50-P7/400	16×LBT50/G	1200×1000×2200 (×2)

Welcome your inquiry for other specifications!

*It is suggested that main and auxiliary cabinets should be separated in case that the compensation capacity exceeds 300kvar.

Common Configuration and Model Selection of Harmonic Elimination Type Compensation Cabinet
 (Three-phase Common Compensation + Single-phase Separate Compensation)

$U_n=400V$ (single-phase 230V), $F_n=50Hz$, and $P=7\%$ (reactance rates: P5.5, P12.5; see the following contents for reference)

Transformer Capacity (kVA)	Compensation Capacity (kVar)	Reactive Power Compensation Controller	Common Compensation Part		Separate Compensation Part		Recommended Cabinet Body Dimension W×D×H (mm)
			SLG	LBT	SLG	LBT	
315	100(30)	WGK-31-502-12B	2×SLG15-P7/400	2×LBT15/G	3×SLG10-P7/230	1×LBT30/F	1000×800×2200
			2×SLG20-P7/400	2×LBT20/G			
630	180(60)	WGK-31-502-12B	4×SLG15-P7/400	4×LBT15/G	3×SLG20-P7/230	1×LBT60/F	1000×800×2200
			2×SLG30-P7/400	2×LBT30/G			
800	240(90)	WGK-31-502-12B	5×SLG30-P7/400	5×LBT30/G	3×SLG10-P7/230	1×LBT30/F	1000×800×2200
					3×SLG20-P7/230	1×LBT60/F	
1250	360(120)	WGK-31-502-12B	6×SLG40-P7/400	6×LBT40/G	6×SLG20-P7/230	2×LBT60/F	1200×1000×2200

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