Bluelight SHENYANG Drive The Future



Intelligent Control Leads the Future

iBL6 is the new generation intelligent elevator integrated controller. It perfectly combines the functions of logical control and variable frequency drive. It has Advanced Technology, Optimal Performance, High Reliability, Easy to Use and many more properties.

1.Advanced Technology

- © Perfectly combine intellectual logic control and high performance VVVF drive control to achieve completely integration.
- O Advanced vector control technology, demodulates motor with high precision, takes full advantage of motor capacity, improves elevator performance and riding comfort.
- O Adopts advanced space vector PWM control method, improves great efficiency than traditional sine/cosine PWM method and saves more energy.

2.Optimal Performance

- © Generates optimized speed curve based on target floor to make lift direct-stop with high precision and efficiency.
- © CAN BUS technology satisfies serial communication in high speed and reliability. Simplifies system for wiring and extension.
- O Adopts wireless/LAN remote control interface, convenient for long distance control, maintenance and elevator monitoring.

3.Easy to Use

- performance.

4. High Reliability

- O Advanced double 32bit CPU and FPGA for complete elevator control to ensure high elevator safety and reliability.
- © Redundancy design and full software-hardware protection to guarantee elevator safety and reliability.
- O Professional EMC tested, fully enhance anti-electromagnetic interference ability and suitable for complicated job site.
- O Monitoring the cutting current from controller to main motor every time when elevator stops.

M Series Integrated Controller Dimension Table (400 v)

	Exterior Dimension						
Controller Model	W	Н					
BL6-UO4007-NM							
BL6-UO4011-NM	222	348					
BL6-UO4015-NM							

	Exterior Dimension					
Controller Model	W	Н				
BL6-UO4002-MW						
BL6-UO4003-MW	200	290	1			
BL6-UO4005-MW						
BL6-UO4007-MW						
BL6-UO4011-MW	225	348	2			
BL6-UO4015-MW						
BL6-UO4018-MW	200	410				
BL6-UO4022-MW	280	418	2			

Additional Type

- M: Modularized
- N: With plastic shall
- S: Small size
- H: For home lift
- W: With metal shell

© Supports two types auto-tuning (self-learn) methods, Rotating and Static, to compute motor parameters and initial angle. © Fuzzy logic control with non-load-compensator for easy lift start-up. Excellent comfort feeling even without lift weighting device. © When working with Bluelight Synchronous traction machine, controller can pre-define the machine type and automatically save the data. Spares the process of machine parameter inputting and auto-tuning, improves the tunning efficiency and maximize machine



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Specifications

	ecifications													
型号	BL6-U04000-00	4002	4003	4005	4007	4011	4015	4018	4022	4030	4037	4045	4055	4075
ma	ax motor power(kw)	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75
Rated output	rated outputcapacity(KVA)	4.0	5.9	9	12	18	22	27	32	43	53	63	78	106
	rated output current(A)	5.5	9	14	18	27	34	41	48	65	80	96	128	165
ă o	max output voltage(V)	3-phase, AC380 (Corresponding to the input voltage)												
utpu	rated frequency(Hz)	50												
	max output frequency(Hz)	120												
Input power	rated voltage (V)	3-phase, AC380												
	rated frequency (Hz)	50												
pov	rated input current (A)	10	12	17	22	32	41	49	58	78	96	115	147	190
ver	allowable voltage fluctuation	± 15%)											
	allowable freq fluctuation	±5%												
型号	BL6-U02000-00	2002 2003		2	2005 2			2011		15	2018		2022	
Ma	ax motor power(KW)	2.2		3.7	Ę	5.5	7.5		11	1	5	18.5 2		22
R	rated outputcapacity(KVA)	4		7		10	14		20	2	7	33		40
Rated	rated output current(a)	11		17		25	33		49	6	6	80		96
output	max output voltage(v)	3-pha	ase, AC	220 (Corr	espondi	ng to the	input vol	tage)						
Ĕ	rated frequency(hz)	50												
	max output frequency(hz)	120												
Input	rated voltage (v)	3-pha	ase, AC2	220										
ŭ p	rated frequency (hz)	50												
power	rated input current (a)	15		21		27	40		52	6	8	92	1	10
¥	allowable voltage fluctuation	+10%	, -15%											
	allowable freq fluctuation	± 5%												
	elevator control mode	Simplex Collective, Duplex Collective, 3~8 units Group Control												
μ. Σ	elevator speed range	0.25~	4m/s											
Basic	applicable highest floor	64 Dagaa	ngar Ha	anital Dar	oromio	Coodo V		0.5						
features	applicable elevator type			spital, Par				.01						
ure	applicable motor communication mode			lachine, C		Taction	viacinne							
05		≤3mm		communi	CallOIT									
	leveling accuracy control mode			WM(SVP		and loop	vector co	ntrol						
	carrier frequency			-	-	iseu loop	VECIOI CO							
	speed control range	8KHz (6~15KHz Adjustable)												
	speed control accuracy	1:1000 ±0.05% (25℃±10℃)												
	speed response	30Hz												
	torque limit	Yes (S	Set by par	ameter)										
Ū	torque accuracy	±5%												
Drive	frequency control range	0~120	Hz											
fea	frequency accuracy	Digital	Ref: ±0	.01%(-10	°C ~+40°	C)								
features	frequency ref resolution	Digital	Ref: 0.0	1Hz										
S	output freq resolution	0.01Hz	Z											
	overload capacity	150%	rated cur	rent 60s;	180% ra	ated curre	nt 10s							
	start up torque	180% rated current 0Hz												
	accel/decel time	0.001~600s												
	main control function	Start without load compensation, battery operation, Auto tunning, Load compensation, Cooling fan control, Base block, Torque limit, CAN communication Ref, Acceleration/ Deceleration time, S curve acceleration/ deceleration, Monitor of main machine for which electric current can be effectively interdict or not when the car stop, Internal brake,PGfreq dividing output, Automatic fault retry, Automatic fault reset, Parameter copy												

Specifications (Cont' d)

	oc input control power	Isolated external DC24V								
Con	relay output power	Isolated internal DC24V								
	low opto-isolated inputs	26-chanel switches: rated load: 7mA/DC24V, upper freq100Hz								
	high opto-isolated inputs									
ntrol	nigh opto-isolated inputs	3-chanel switches: rated load: 8mA/AC110V, upper freq100Hz								
Control input/output		12-chanel switches								
	programmable relay output	9 channels: 1NO, contactor capacity: 5A/30VDC, 5A/250VAC								
put		3 channels: 1NO, contactor capacity: 8A/30VDC, 10A/250VAC								
	CAN communication interface	2chanels:Duplex/ group control,HOP/COP,remote Wireless monitoring								
	RS-232communication interface	1chanel: Digital operator/ PC monitoring/ Programmable interface								
Display	digital operator	LCD display in Chinese/English								
	monitoring software interface	Display parameters, elevator running status, digital wave								
	over current	Stop when current exceed 200% rated output current								
Main	FUSE	Stop at fuse brake at main circuit								
prot	overload protection	Stop at 150% rated current 60s/180% rated current 10s								
protection function	overvoltage protection	Stops at DC bus voltage over 720V(400V drive) or 410V(200V DRIVE)								
	undervoltage protection	Stops at DC bus voltage under 380V(400V drive) or 190V(200V drive)								
	heatsink overheat protection	Protect by themistors								
ă	igbt internal protection	IGBT over current/ overheat/ short circuit/under voltage protection								
	motor protection	Protect by electric thermal devices								
	impact restraining circuit	Protect by contactor feedback								
	over speed protection	Protect at speed exceed the maximum allowable setting								
	speed deviation protection	Protect at speed deviation exceeds allowable value								
	pg fault protection	Protect at PG disconnection/ phase error								
Main	auto-tuning protection	Protect at auto-tunning fault.								
	open-phase protection	Protect at input/output phase lost								
protectior	door interlock fault	Protect at door interlock circuit open when running								
ction	safety circuit fault	Protect at safety circuit open when running								
fun	brake circuit fault	No brake open feedback signal after output brake open command								
function	leveling zone fault	Protect at leveling zone signal fault								
	output contactor fault	Protect at output contactor fault								
	running time protection	Protect at signal running time exceeds limit								
	floor counting fault	Protect at floor counter fault								
	Communication interference fault	Protect at communication interference fault								
	Hoistway parameter learning fault	Hoistway parameter learning fault protection								
Str	protection degree	C: Closed IP20; O: Open IP00								
Structure	cooling	Forced air cooling								
Ire	installation	Hanging installation								
Using ambience	ambient temperature	−10°C~+40°C								
	humidity	5~95%RH, non-condensing								
	storage temperature	−20°C~+60°C								
	application situation	In doors, without direct sunlight, dust, corrosive/explosive gases, oil fog, vapor, water dripping, or salty substances								
	altitude	1000M以下								
	vibration	10~20Hz, <9.8m/S ² ; 20~50Hz, <2m/S ² ;								