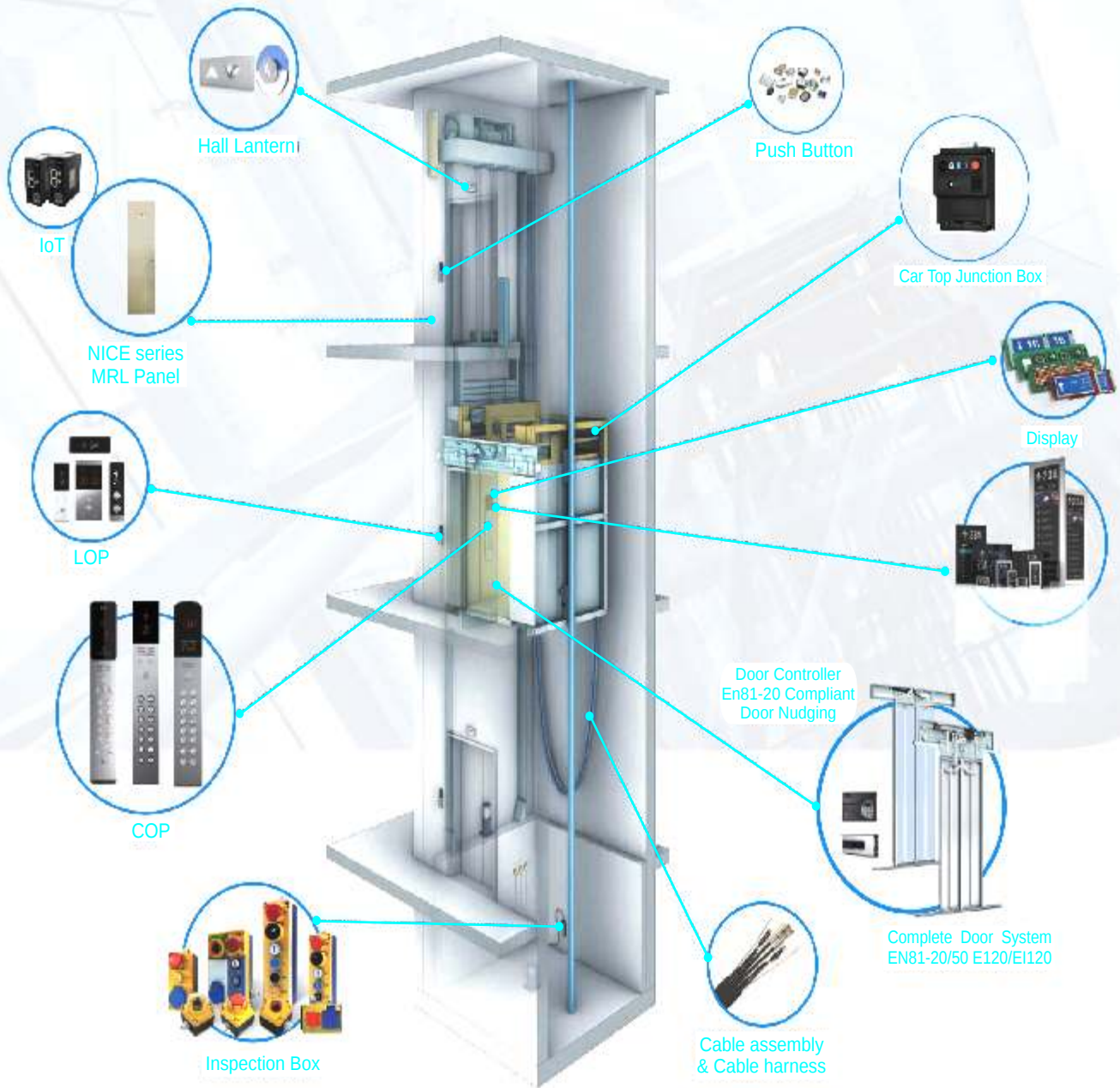


SR INDUSTRIES

Elevator Electrical & Door Products



COP/LOP, Fixtures, Travelling cables, Doors



Control System



Electrical System



Door System



Cable System



Encoders



Sensors

NICE100+

Economic Integrated Solution for Open Loop Geared Elevator

Main Features

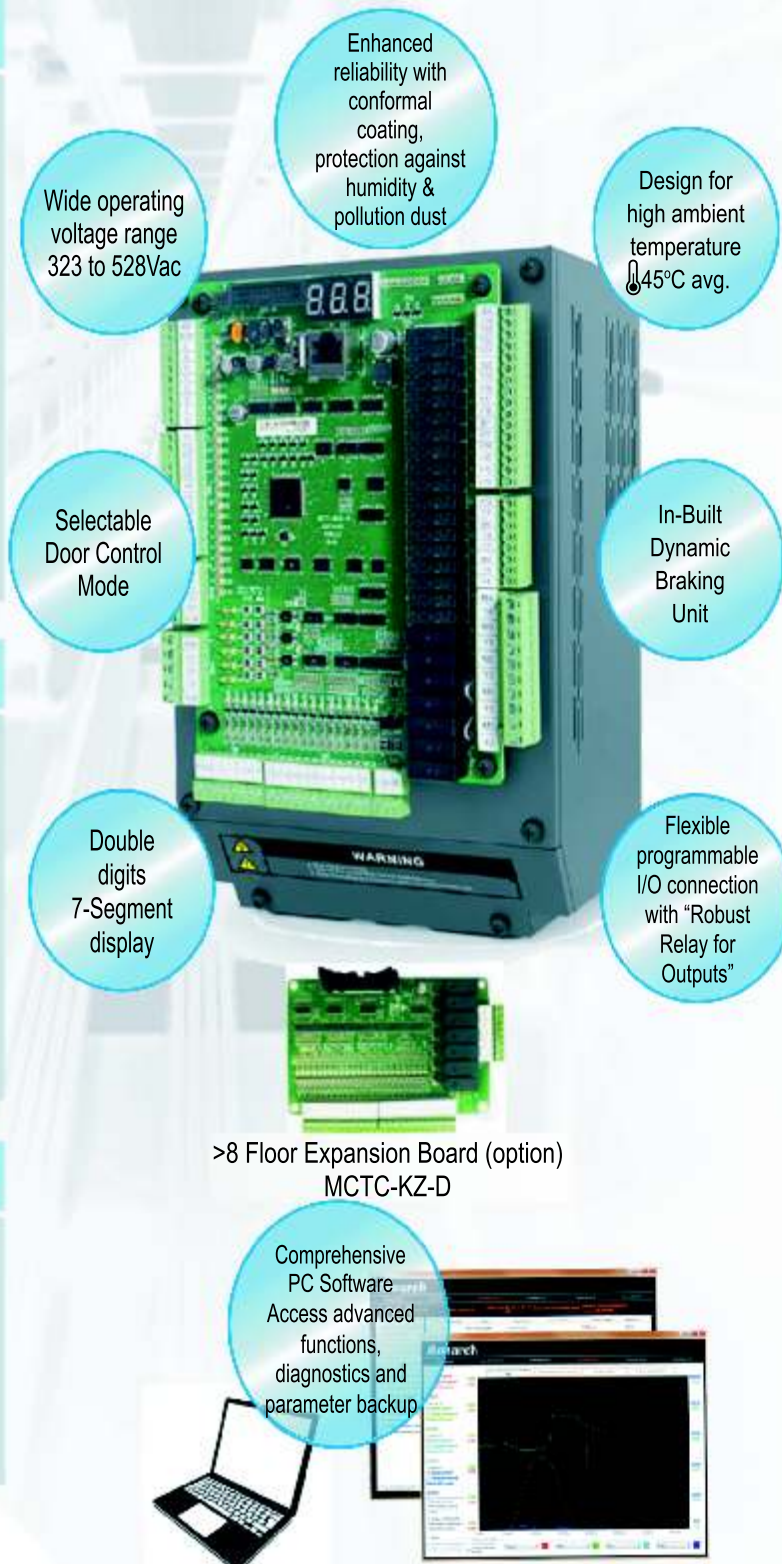
- Maximum speed 1.0m/sec
- Selectable door control mode (Auto, Manual, Semi-Auto)
- Standard 6 floors full collective, expansion option to 12 floors full collective
- Programmable I/O's
- Robust and reliable Relay based outputs
- Comprehensive trip diagnostics
- Rescue Function Ready with external single phase 220V UPS

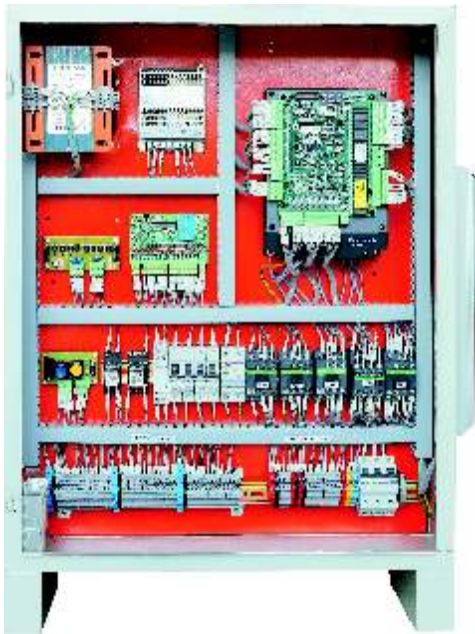
Performance Functions

- Smooth ride performance
- Integrated brake and motor output motor contractors for safety
- Quick and Easy setup with factory default settings
- 6-Independent S-Ramps
- Levelling controls with Slip Comp, Auto Torque Boost and DC Injection

Designed in accordance with

- EMC Directive 2004/18/EC
EN 61800-3
EN 55011
- LVD Directive 2006/95/EC & 93/68/EEC
EN 61000-6-2
EN 61800-5-1





SR - FORTUNE

Open Loop Integrated Controller

Mid Rise Elevator 1.0mps upto 12 Stops

Product Specs	VF Controller with NICE100+
NICE100+ Drive KW	3.7 KW, 5.5KW, 7.5KW, 11 KW, 15kw
Number of Stops	8 Stops Down Collective, 6 Stops Full Collective, 12 Stops Full Collective with extension Card
Speed	Up to 1 mps
Controller Type	Auto Door / Manual Door / Semi Auto Door
Display Output	7 Segment, Binary, Gray Code
Motor Suitable	Geared AC Induction Motor
Overall Cabinet Size	(1060 x 600 x 300) / (880 x 600 x 270) / (700 x 600 x 270)
DBR	Separately housed in a DBR box mounted on top of Cabinet
Cabinet Locks	2Nos Chrome Plated Aesthetic Locks
Cover Plate	Cover Plate provided for Legs for Aesthetic Looks
ARD Interface	Provided as Constant (Contactors SC and UPC provided)
Power supply for 24V DC	SMPS type, MESH type Input : 230V AC, Output : 24V DC, 5Amps
Safely Interface	110V AC Safety Chain
Field terminations for Power Terminals	Screw terminals (Connectwell / Elmex make) provided of 4.0 / 6.0 sq mm wire capacity
Field terminations for Control Terminals	Screw terminals (Connectwell / Elmex make) provided of 2.5 sq mm wire capacity
Transformer	Primary : 230VAC 1Phase, 440 VAC 2 Phase
MCB Protection	MCB1 - 2Pole for Transformer MCB2 - 1Pole for 110V Safety Chain and Contractors, 230 VAC Field MCB3 - 1Pole for 110V Brake MCB4 - 1Pole for 230VAC Door Drive
Fuse protection	Glass Fuse, 5Amps for 24V DC Control
Three Phase Power Failure Relay	Multispan Unit
Controller Inspection	Panel with U, D button and Toggle switch
Landing door Jumper Protection	Protection provided through connectors on CIS panel
Line (Input) Choke	Provided as a Optional
DBR Rating	3.7 / 5.5 / 7.5 / 11 KW : 1 / 1.5 / 2.5 / 4 KW DBR KW rating will increase depend on Number of Stops

NICE1000+ Nxt Gen

Integrated Elevator Controller - Parallel/ Semi-serial connection



Features Highlights

- 26-bit serial encoder
- Compact in size
- IP20 enclosure

Integrated elevator solution ≤ 1.75 m/sec



Drive features

- Supports startup with single-phase 220~480 Vac supply
- Supports synchronous (PM gearless) machines and asynchronous (geared) machines
- Advanced direct to floor technology
- Onboard motor & DBR thermostat PTC inputs
- Double door independent control mode
- Standard Modbus 485 RTU allows for interfacing with third-party IoT devices
- Rapid commissioning through a step-by-step sequence
- Anti-rollback without any external load cell (gearless machines)
- Flexible programmable I/O's
- Static auto tuning for asynchronous and synchronous machines (without brake opening)
- 30% size reduction compared to NICE1000+
- CANbus serial interface for Monarch AD20 door drive

NEW



**CAR serialiser board
(MCTC-CTB-OVS-N)**



Wif dongle

NEW



{Extension Relay Board}
MCTC-MCB-H-N-R
{Y6~Y22} x 17; No dry contact
for 7-segment display

Enhanced reliability with conformal coating
protects against humidity and dust pollution

Operation in high 50°C avg ambient temperature

Wide operating voltage range 323 to 528 Vac

11/2 digit 7 segment display

Conventional parallel wiring : 8 floors - full collective
12 floors - down collective

Semi-serial wiring : 14 floors - full collective
16 floors - down collective

NEW



**CANbus MRL lift
monitoring board
(MCTC-MB-A2)**

NEW



Mobile phone application
for software updates,
lift monitoring and
commissioning



SEAD10-ZX-GHS-01

Feature Highlights

- Double-click CAR call cancellation
- Real time clock (RTC)
- Duplex onboard group control (CANbus serial communication)
- Independent OPEN/CLOSE commands for double doors
- Selectable door control mode (manual, semi-automatic, automatic)
- Selectable freeman's operation mode
- Single-phase 220 Vac UPS (quasi & sine wave) rescue mode operation ready with automatic light load search
- Comprehensive trip diagnostics
- Output frequency 0.0~99.0 Hz

NICE 1000+

A simple and cost effective Integrated Solution for elevators to 1.5 m/s

Simplex and Duplex applications with closed loop geared and gearless PM machines

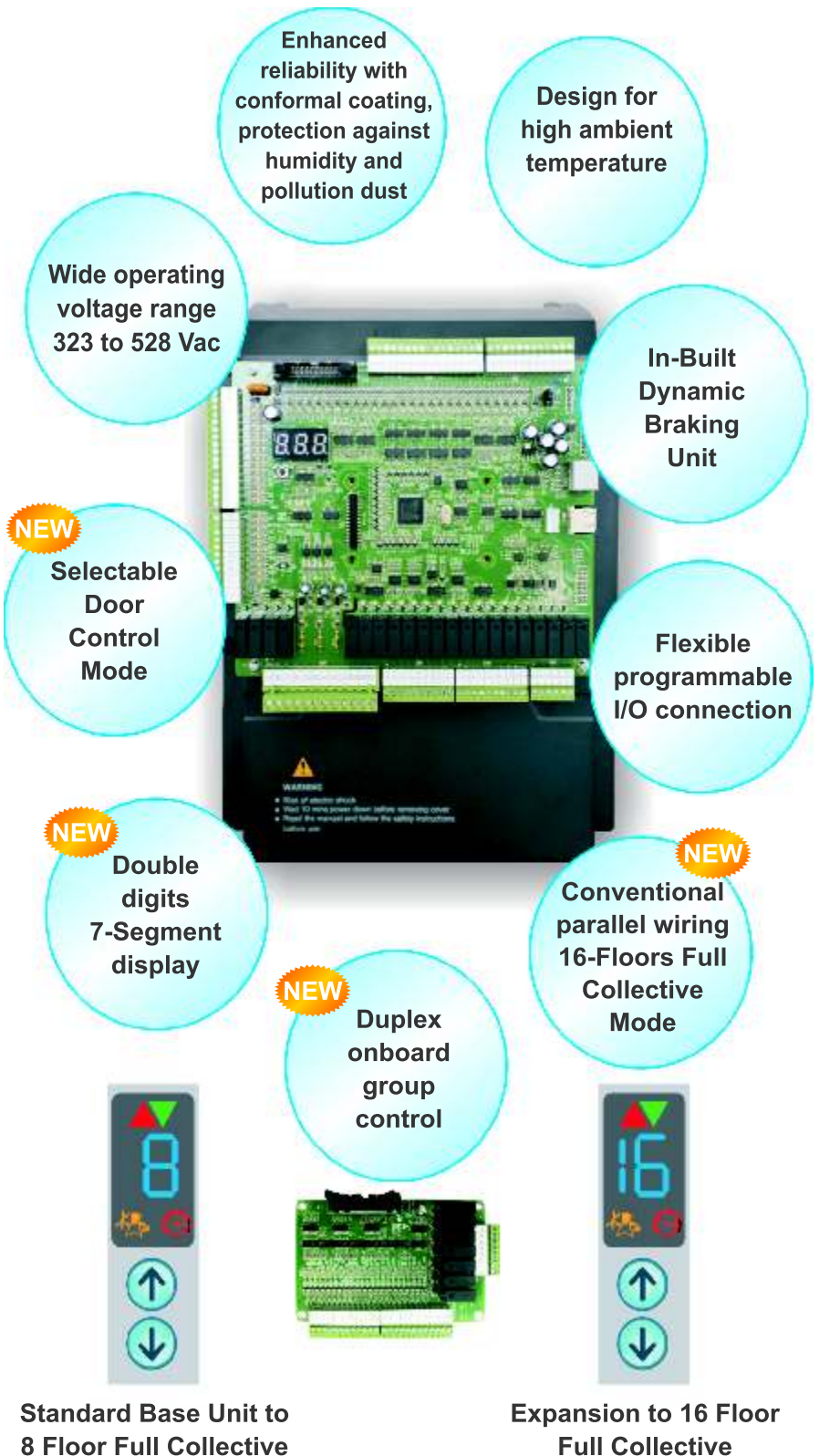
16 floors full collective using low cost conventional parallel wiring

Smooth Ride

- "Direct To Floor" technology, Waiting time optimises
- 4-Independent S-Ramps
- Default factory setting user friendly factory, gets you started quickly
- Anti-Rollback without any external load cell (Gearless Machine)
- Pre-torque function (Analog signal from load cell for Geared Machine)

Features Highlight

- Standard 8 Floors full collective, expansion option to 16 Floors **NEW** (Conventional Parallel Wiring)
- Maximum speed 1.5m/sec **NEW**
- Duplex onboard group control **NEW** (CANbus serial communication)
- Double digits 7-segment display **NEW** (Parallel connection)
- Selectable door control mode **NEW** (Manual, Semi-Auto, Auto)
- Selectable Fireman operation
- Synchronous (PM gearless Machine) or Asynchronous (Geared Machine)
- Single-Phase 220V UPS recue mode operation ready
- Comprehensive trip diagnostics
- Output frequency 0.0~100.0Hz
- High ambient temperature  45°C_{avg})





SR - PARA

Parallel Integrated Controller

Distance Base Direct Landing Close Loop

High Rise Elevator upto 1.5mps & upto 16 Stops

Product Specs	VF Controller with NICE1000+
NICE1000+ Drive KW	3.7 KW, 5.5KW, 7.5KW, 11KW, 15KW, 18.5KW, 22KW, 30kw, 37KW, 45KW, 55KW
Number of Stops	16 Stops Full Collective
Speed	Up to 1.5 mps
Controller Type	Auto Door / Manual Door / Semi Auto Door
Display Output	7 Segment, Binary, Gray Code
Motor Suitable	Geared AC Motor / Gearless AC Motor
Overall Cabinet Size	(1060 x 600 x 300) / (1690 x 350 x 300) / (880 x 600 x 270) / (700 x 600 x 270)
DBR	Separately housed in a DBR box
Cabinet Locks	2Nos Chrome Plated Aesthetic Locks
Cover Plate	Cover Plate provided for Legs for Aesthetic Looks
ARD Interface	Provided as Constant (Contactors SC and UPC provided)
Power supply for 24V DC	SMPS type, MESH Type Input : 230V AC, Output : 24V DC, 5Amps
Safety Interface	110VAC Safety Chain
Field terminations for Power Terminals	Screw terminals (Connectwell / Elmex make) provided of 4.0 / 6.0 sq mm wire capacity
Field terminations for Control Terminals	Screw terminals (Connectwell / Elmex make) provided of 2.5 sq mm wire capacity
Transformer	Primary : 230VAC 1Phase, 440 VAC 2 Phase
MCB Protection	MCB1 - 2Pole for Transformer MCB2 - 1Pole for 110V Safety Chain and Contractors, 230 VAC Field MCB3 - 1Pole for 110V Brake MCB4 - 1Pole for 230VAC Door Drive
Fuse protection	Glass Fuse, 5Amps for 24V DC Control
Three Phase Power Failure Relay	Multispan Unit
Controller Inspection	Panel with U, D button and Toggle switch
Landing door Jumper Protection	Protection provided through connectors on CIS panel
Line (Input) Choke	Provided as a Constant
DBR Rating	3.7 / 5.5KW : 1.5KW / 2KW 7.5KW / 11KW : 2.5KW / 3KW 15KW / 18.5KW : 4.5KW / 5KW DBR KW rating will increase depend on Number of Stops

NICE 3000+ High Performance Integrated Controller for Elevators



Power Rating

- 2.2 kW to 45kW, three-phase 380/400/415V
- 2.2 kW to 30kW, three-phase 220V
- 2.2 kW to 30kW, single-phase 220V

Applications

- Simplex, Duplex, 3~8 Group control elevator
- High speed, medium speed, low speed
- Superior elevator, passenger elevator, medical elevator, residential elevator, disabled elevator etc
- Elevator rated speed < 4.0 m/sec
- Floor level : Each CCB (Car Call Board) can adopt up to max. 16 floors, above 16 serial link additional CCB

Applicable Encoder Type

- MCTC-PG-E for absolute Sin/Cos encoder (ERN 1387, 5Vdc, 2048PPR)
- MCTC-PG-D for quadrature incremental encoder (UVW 8192, 5Vdc, 8192PPR)
- MCTC-PG-F1 for absolute SinCos ECN413 & Ecn 1313 with EnDat 2.0.
- MCTC-PG-A2 for Incremental encoder, single ended (A,B).

NICE3000 is the ideal integrated solution for elevator control, suitable for a diverse range of geared and gearless machines, providing the best riding comfort with high safety integrity

Technical Features

- Redundancy control through Multi-CPU's, equipped with CANbus, Modbus and GSM communication technology
- Based on displacement calculation methods derive N velocity profile to achieve optimum direct-to-point distance control
- Simple 2 wire serial communications to commission duplex group control
- Group control with less than 8 elevators is based on fuzzy logic control theory
- In-built real-time clock to facilitate time-sharing control and elevator management
- Flexible emergency back up power; 220Vac power input makes emergency evacuation easy
- Automatic identification operation between short-floors
- Handheld Operation Tools: Mini Keypad, PDA, PC to facilitate easy commissioning
- 60 fault codes to facilitate easy diagnostics





SR - SERIAL

Serial Integrated Controller

Distance Base Direct Landing Close Loop

High Rise Elevator upto 2.0mps & upto 40 Stops

Product Specs	VF Controller with NICE3000+
NICE3000+ Drive KW	3.7 KW, 5.5KW, 7.5KW, 11KW, 15KW, 18.5KW, 22KW, 30kw, 37KW, 45KW, 55KW
Number of Stops	40 Stops Full Collective
Speed	Up to 4 mps
Controller Type	Auto Door
Display Output	Serial Output
Motor Suitable	Geared AC Motor / Gearless AC Motor
Overall Cabinet Size	(1060 x 600 x 300) / (1690 x 350 x 300) / (880 x 600 x 270) / (700 x 600 x 270)
DBR	Separately housed in a DBR box
Cabinet Locks	2Nos Chrome Plated Aesthetic Locks
Cover Plate	Cover Plate provided for Legs for Aesthetic Looks
ARD Interface	Provided as Constant (Contactors SC and UPC provided)
Power supply for 24V DC	SMPS type, MESH Type Input : 230V AC, Output :
Safety Interface	110VAC Safety Chain
Field terminations for Power Terminals	Screw terminals (Connectwell / Elmex make) provided of 4.0 / 6.0 sq mm wire capacity
Field terminations for Control Terminals	Screw terminals (Connectwell / Elmex make) provided of 2.5 sq mm wire capacity
Transformer	Primary : 230VAC 1Phase, 440 VAC 2 Phase
MCB Protection	MCB1 - 2Pole for Transformer MCB2 - 1Pole for 110V Safety Chain and Contractors, 230 VAC Field MCB3 - 1Pole for 110V Brake MCB4 - 1Pole for 230VAC Door Drive
Fuse protection	Glass Fuse, 10Amps for 24V DC Control
Three Phase Power Failure Relay	Multispan Unit
Controller Inspection	Panel with U, D button and Toggle switch
Landing door Jumper Protection	Protection provided through connectors on CIS panel
Line (Input) Choke	Provided as a Constant
DBR Rating	3.7 / 5.5KW : 5KW / 5KW 7.5KW / 11KW : 6KW / 6KW 15KW / 18.5KW : 6KW / 9KW DBR KW rating will increase depend on Number of Stops

VITA Hydraulic



- Hydraulic Controllers
- Any valve configuration (1, 2, 3 or 4 AC / DC)
- Contactors for all valves
- Direct start / YΔ / Soft-starter
- Suitable for Bucher / HAHNE, Blain, GMV, Morris
- No limit on pump power
- Simplex
- Up to 8 floors
- Re-levelling
- Full collect / Down collect
- Modular Design for maximum flexibility
- Plug & Play pre-wired for both parallel
- 16 Bit Powerful Processor

NICE900 Door Machine Integrated Controller



Power Rating

- 200W, 400W, 750W,
- 1 Phase, 220V-Input supply 50Hz/60Hz
- 3 Phase, 220V-Output motor supply

Applications

- Lift car door
- Subway car door
- And various door control applications

Applicable Motor Type

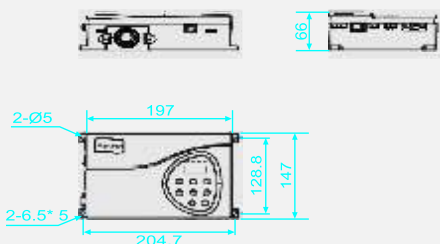
- Asynchronous motor
 - a. Open loop vector control
 - 1. Without encoder (using slow down, end stop limit switches)
 - 2. Low PPR encoder (Minimum 10 PPR)
 - b. Closed loop vector control
 - 1. with encoder feedback (512 to 10000 PPR)
- Synchronous motor
 - Closed loop control with ABZ encoder

NICE900 is a compact, simple to use and cost effective integrated controller specially designed for various car door controls such as lift door and subway car door. It drives both asynchronous and synchronous motors (without encoders) and supports speed control mode and distance control mode (with encoder).

Technical Features

- Excellent Performance based on advance vector control technology
 - 1. Motor parameter auto-tuning
 - 2. Enhanced accuracy control via innovative sync machine angle identification technology
 - 3. Outstanding encoder original point identification technology, adaptable to general ABZ incremental encoder.
 - 4. Adopt best quality advance devices on NICE 900 integrated controller like latest 32bits DSP, up to 150 Mhz
- Compact Design: 2 in 1, an integrated controller with both controller and inverter functions, which is applicable to both asynchronous and synchronous motors
- Simple to Use and Easy to install: On board keypad for simple set up and maintenance

Physical Dimensions:



1. NICE-D-A-SOP2: 0.2kW
2. NICE-D-A-SOP4: 0.4kW
3. NICE-D-A-SOP7: 0.75kW

NICE - D - A - S OP2

Aonurh® NICE Series

Dedicated Door Drive

Housing Enclosure Type

A: Plastic



Motor Power
OP2: 200W
OP4: 400W
OP7: 750W

Voltage Rating:
S: Single Phase 220V

220V Single Phase Drive Ratings (-15% to 20% : Øph, 187Vac to 264Vac)

Model	Input Current (A)	Output Current (A)	Nominal Power (W)	Output Voltage (V)	Output Frequency (Hz)
NICE-D-A-SOP2	2.7	1.3	200	0 ~ 220	0 ~ 99
NICE-D-A-SOP4	5.4	2.3	400		
NICE-D-A-SOP7	8.2	4.0	750		

MD500L for Elevator

Elevator Application Features

- Integrated brake control
- Default factory setting user friendly factory, gets you started quickly.
- Smooth ride performance
- 4-Independent S-Ramps
- Programmable DC-injection braking

Open Loop Inverter
Sensorless Technology

Operation in
high
ambient
temperature
 $45\text{ }^{\circ}\text{C}_{\text{avg}}$

Wide
operating
voltage
range 323 to
528Vac

Enhanced
reliability with
conformal
coating,
protection
against humidity
and pollution
dust

Cooling fan removable
for easy maintenance



*1PC-Based
Software
simplified
start up &
backup



Inverter Key Features

- Simplified parameter for easy start up
- Comprehensive trip diagnostics
- Automatic torque boost
- Slip compensation
- Flexible programmable I/O connection
- Output frequency 100Hz
- In-Built Dynamic braking unit

Simplified
elevator
control
parameter for
easy start up

MD320L for Elevator

Elevator Application Features

- Smooth Ride performance
- Integrated brake control
- Default factory setting user friendly factory, gets you started quickly.
- Smooth ride performance
- 4-Independent S-Ramps
- Programmable DC-injection braking

Close Loop Inverter
Sensorless Technology

Operation in
high
ambient
temperature
 $45\text{ }^{\circ}\text{C}_{\text{avg}}$

Wide
operating
voltage
range 323 to
528Vac

Enhanced
reliability with
conformal
coating,
protection
against humidity
and pollution
dust

Cooling fan removable
for easy maintenance



*1PC-Based
Software
simplified
start up &
backup

Inverter Key Features

- Simplified parameter for easy start up
- Comprehensive trip diagnostics
- Automatic torque boost
- Slip compensation
- Flexible programmable I/O connection
- Output frequency 100Hz
- In-Built Dynamic braking unit
- Short-floor function
- Direct approach function
- Light load direction sensing
- 60 Vdc rescue function
- 220 Vac UPS (sine & quasi square type)

Simplified
elevator
control
parameter for
easy start up





**Power may fail
But Sr Industries
will take you to
Safer exit**

SR POWER

Advanced Lift ARD



**Advanced, Compact and
Durable Lift safety Product**

**The safest power backup solution for lift transport comes to you now
with one compact economical ARD system with built in SMF batteries**



SR INDUSTRIES

Address : Plot No. B62/1, Dombivli MIDC, Phase-II, Dombivli East,
Near CNG Pump, Sagaon, Thane - 421204, MAHARASHTRA

E-mail : srindustries77@rediffmail.com / sales.srindustries77@rediffmail.com

Contact : +91 9004960595 / 8355883060

Advantages of SR POWER

- Almost Independent of lift controllers.
- Lesser wires are inter-connecting from controller to ARD.
- No need of Separate emergency lights in the elevator car. ARD will provide car light.
- Built in Voice Annunciator to avoid panic situations.
- Door Type cabinet for easy access inside the ARD for troubleshooting.
- Can be connected to single / 3 phase sites.
- IGBT based charging for longer battery life.
- Digital Signal processing for constant pure sine wave output.
- IGBT Technology for higher reliability of ARD.

Applications of SR POWER

MRL | Gearless | Geared and Hydraulic Motors

Specification of SR POWER

Model	ARD - 2PH	ARD - 1PH	ARD - 3PH
Rating	Available for Motors 5 to 20HP	Available for Motors 5 to 10HP	Available for Motors 5 to 50HP
AC Input	415±8% 3Phase	220±8% 1Phase	415±1% 3Phase
Frequency	50Hz±1Hz	50Hz±1Hz	50Hz±1Hz
DC Bus	48V to 72 V	24V to 72 V	72V to 240 V
Charging Time	10 to 12 Hrs for full capacity	10 to 12 Hrs for full capacity	10 to 12 Hrs for full capacity
Charger Type	Conventional	DSP	IGBT
Technology	MOSFET PWM	Micro Controller PWM	IGBT PWM
Output Voltage	460 AC - 2PH	230 AC - 1PH	415AC - 3PH
Wave Form	Square /Sine Wave	Sine Wave	Sine Wave
Harmonic Distortion	Less then 3% on Linear Load	Less then 3% on Linear Load	Less then 3% on Linear Load
Efficiency	>90%	>90%	>90%
Power Factor	0.8	0.8	0.8
Crest Factor	3:1	3:1	3:1
Phase Displacement			120° +1°
Audible Noise	Less than 50dB at 1Mtr	Less than 50dB at 1Mtr	Less than 50dB at 1Mtr

GENERAL SPECIFICATIONS

Dimensions (L x W x H) mm without batteries

ARD - 2PH: 410mm x 230mm x 440mm
 ARD - 1PH: 230mm x 410mm x 370mm
 ARD - 3PH: 350mm x 650mm x 750mm

Operating Temperature

0° to 50° for all models

Humidity:

Max 95% non condensing for all models

PROTECTIONS

- Auto shutoff facility available for all models and capacities
- Output Overload & short Circuit, Output, under & over Voltage Battery low

INDICATIONS

Mains on : Available on all models
 ARD on : Available on all models
 Battery low : Available on all models
 Floor : Available on all models
 Over load : Available on all models

CHANGE OVER:

Automatic on all models
 Change Over Delay
 ARD 2PH : 12 Seconds
 ARD 1PH : 4mills seconds
 * ARD 3PH : 12 Seconds



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 Near CNG Pump, Sagaon, Thane - 421204, MAHARASHTRA
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 Contact : +91 9004960595 / 8355883060

ELECTRICAL ACCESSORIES

Item	Model No	Description
	Weton U-Type Photoelectric Switch Model No.: E3S-GS3B4 (PNP Output) E3S-GS3E4 (NPN Output)	Electrical Specification : Supply Voltage : 12-24Vdc, Current consumption $\leq 40\text{mA}$ Output Type : PNP Open collector output type NPN Voltage output type Environmental Specifications : Operating temperature : 0 to +80°C Storage temperature : -20 to +80 °C
	Wire wound type DBR	Electrical Specification : Wire wound type DBR for Elevator Drives Rating from 3.7KW to 22KW
	Aluminum type DBR	Electrical Specification : Aluminum type DBR for Elevator Drives Rating from 3.7KW to 22KW
	Limit Switches (ESBEE Make)	No & NC type for Elevator application
	Door PM Motor (Monarch Make)	Available : • 2.7 Nm (Suitable for 700 mm to 800 mm Door Opening) • 5.5 Nm (Suitable for 900 mm to 1100 mm Door Opening) • 7 NM (Suitable for 1200 mm to 2200 mm Door Opening)
	Intercom (BST Make)	Available : • Two way System • Three way System • Five way System • Operating Voltage 12V & 24V DC
	Elevator Access Control System (Biometric, RFID & Passwords Based)	Available : • Finger Print • RFID • Password
	Sin Cos Encoder (Suitable for Gearless motor) Weton make Fenac make	Electrical Specification : • Rotating speed $\leq 2000\text{ rpm}$ • Supply Voltage : 5Vdc ($\pm 5\%$) • Resolution : 2,048PPR
	Rotary Incremental Encoder (Suitable for Geared motor) Weton make Fenac make	Electrical Specification : • Hole Diameter : 30~45 mm, • Voltage 10~30V Open Collector • 10~30V, 15V Push-Pull • Resolution : 1024 and 4096 PPR

ACCESSORIES

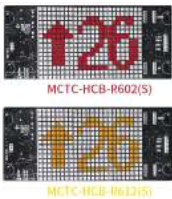
A wide range of optional cards and accessories are available for users to integrate with existing elevator system and other vender supplier equipments.

Item	Model No	Description	Compatibility			
			NICE3000+	NICE1000+	NICE100+	MD500L
	LED Remote Keypad Model No.: MCTC-MDKE	Hot pluggable, high-brightness 5-Digits LED display keypad, show parameters of running speed, bus voltage etc. Allows user for parameter set up & maintenance.	✓	✓	✓	✓
	SinCos Encoder Card Model No.: MCTC-PG-E & PG-E6	Hardware Configuration: 5Vdc Supply, female 15-way D-type connector Function Configuration: Weton SinCos EI58C9.25/ERN1387 encoder with C,D signals. Fitted to main control board. For Gearless PM Motor. Quadrature incremental encoders (A+, A-, B+, B- signals, 5VHTL). Fitted to main control board. For Geared motor.	✓	✓		
	SinCos Encoder Card Model No.: MCTC-PG-F1	Hardware Configuration: 5Vdc Supply, female 15-way D-type connector Function Configuration: For SinCos ECN1313/ECN413 encoder with EnDat2.0/2.1 serial communications. Fitted to main control board. For Gearless PM Motor	✓	✓		
	Quadrature Encoder Card Model No.: MCTC-PG-D	Hardware Configuration: 5Vdc Supply, female 15-way D-type connector Function Configuration: For quadrature incremental encoder (A+, A-, B+, B-) with UVW communication signals. Fitted to main control board. For Gearless PM Motor.	✓	✓		
	Asynchronous encoder card, Terminal block Model No.: MCTC-PG-A2	Hardware Configuration: 12Vdc Supply, terminal block connector Function Configuration: For incremental encoder, single ended (A, B). Fitted to main control board. Fitted to main control board. For Geared motor.	✓	✓		
	External Braking Unit Model : No MDBU-35A/B/C/D, MDBU-70A/B/C/D, MDBU-200A/B/C/D/E	External braking unit for integrated controller rating above 30kW Input voltage: 220Vac, 380Vac, 440Vac, 460Vac, 690Vac (Remarks: In-built braking unit for integrated controller ≤ 30kW)	✓	✓		
	Group Control Board Model : No MCTC-GCB-A	Hardware Configuration: 1 group of RS232, 1 group of RS485, 4 groups of CAN communication port, operational panel circuit Function Configuration: Minimum wait time basis allocation mode, efficiency preference mode based on fuzzy logic control, password protection, group control home landing setting, peak service, energy-saving, re-enforce simplex-mode over group control, service floor and separate wait function. For 3~4 elevators coordination (for duplex-standard inbuilt for NICE 3000+)	✓			

ACCESSORIES

			Compatibility			
Item	Model No	Description	NICE3000+	NICE1000+	NICE100+	MD500L
	Car Top Board Model No.: MCTC-CTB-A (Horizontal connector)	Hardware Configuration: 8 digital signal input terminals, 9 relay output terminals, 1 analogue voltage signal input terminal, 1 onboard RS485 and CAN communication port, 2 parallel interface expansion port Function Configuration: Through-Door open control, analogue torque compensation, over-load signal, full-load signal, bidirectional arrival chime signal, serial-link with car display board and command button	✓			
	Model No.: MCTC-CTB-B (Vertical connector)		✓			
	Car Call Board Model No.: MCTC-CCB-A	Hardware Configuration: 24 digital input terminals, 20 digital output terminals Function Configuration: 16 Floor buttons and 8 functional signals. e.g. : Door OPEN/CLOSE, door open delay, non-stop mode , attendant mode, reversing direction, independent mode, fireman mode, arrival gong signal output.	✓			
	Car Call Board Model No.: MCTC-CCB-B	Hardware Configuration: 39 digital input terminals, 35 digital output terminals Function Configuration: 31 Floor buttons and 8 functional signals, e.g. : Door OPEN/CLOSE, door open delay, non-stop mode , attendant mode, reversing direction, independent mode, fireman mode, arrival gong signal output.	✓			
	Non-Display Floor Call Board Model No.: MCTC-HCB-B	Hardware Configuration: No dot-matrix display, compatible with original HCB-F/H with 4 digital input/output Function Configuration: Travel UP & DOWN button indicator output, over-load indicator, double button control, hall call button input, fire emergency input, lock input, HPB serial change to parallel & 7-segment function	✓			
	Arrival voice synthesizer Model No.: MCTC-CHM-B	Allows user to preset standard messages and announce to the passenger by a voice synthesizer	✓			
	Advanced Door Open Board Model No.: MCTC-SCB-A	To facilitate for advanced door-open function. When the lift is running automatically and the speed is slower than 0.3 m/sec in the stopping cycle and the door-zone signal is valid, SCB-A shorts the door lock signal through the advanced door-open contactor, and pre-opens the door thereby enhancing the efficiency.	✓	✓		
		Software Characteristic: Access Rights Login, offers control over individual car, ability to view lift controller system version, travel counts, ability to upload and download parameters value of the lift controller and drive, real-time elevator current condition and information to expedite troubleshooting and reduce downtime	✓	✓		

ACCESSORIES

			Compatibility			
Item	Model No	Description	NICE3000+	NICE1000+	NICE100+	MD500L
	Hall Call Board, Vertical Model No: MCTC-HCB-R600 (Red Colour dot-matrix) MCTC-HCB-R610 (Amber Colour dot-matrix) MCTC-HCB-R630 (White Colour dot-matrix)	Hardware Configuration: 5x7 high contrast dot-matrix LED display, 1 over/full load illuminant block, 4 digital inputs/outputs Function Configuration: Travel UP & DOWN button indicator output, directional dot-matrix output, over-load indicator, double button control, hall call button input, fire emergency input, lock input	✓			
	Hall Call Board, Vertical Model No: MCTC-HCB-R612 (Amber Colour dot-matrix) MCTC-HCB-R602 (Red Colour dot-matrix)	Hardware Configuration: Horizontal and Vertical display modes, overall size 157mmx65mmx22mm 6 blocks of 8x8 dot matrix large display area Function Configuration: Up and down button input, Elevator lock, fireman service input Button to set floor, support 56 stops call Maintenance display "INS", Display or "FULL LOAD" under full load condition, Display or "OVERLOAD" under overload condition.	✓			
	Hall Call Board, Vertical Model No: MCTC-HCB-U673 (Blue background white letters) MCTC-HCB-U633 (Black background white letters)	Hardware Configuration: Overall dimension : 76mmx140mmx6.4mm Function Configuration: Serial Monochrome LCD Display	✓			
	Hall Call Board, Vertical Model No: MCTC-HCB-T640 (4.3 inch TFT LCD Display)	Hardware Configuration: Wildscreen 4.3 inch TFT LCD display, Resolution : 480x272 Display mode : Vertical Display Display area size : 95mm x 54mm Function Configuration: Background picture/arrows/floor info/function can be changed through TGUS upper computer software	✓			
	Hall Call Board, Vertical Model No: MCTC-HCB-T647 (7 inch TFT Colour LCD Display)	Hardware Configuration: Wildscreen 7 inch TFT LCD display Display mode : Horizontal / Vertical Display Display area size : 154mm x 86mm Function Configuration: Background pictures/arrows/floor info/functions can be changed through TGUS PC software Passed rigorous tests of <TFT Products Reliability test standard	✓			
	Hall Call Board, Vertical Model No: MCTC-HCB-T649 (9.7 inch TFT Colour LCD Display)	Hardware Configuration: Wildscreen 9.7 inch TFT LCD display Display mode : Horizontal / Vertical Display Display area size : 196mm x 147mm Function Configuration: Background pictures/arrows/floor info/functions can be changed through TGUS PC software Passed rigorous tests of <TFT Products Reliability test standard	✓			

SEAD10 Series

Standard Series

Feature & Specification

- Mounting: Surface type
- Material Opt'onal: Hairline St/steel
Mirror St/steel

- Optional Button:



< MCRD10-AM-SC-01 >

- Emergency Light: MA1C03
- Keyswitch: S18030A22
- Toggle Switch: Optional
- LED Colour: ■ ■ □



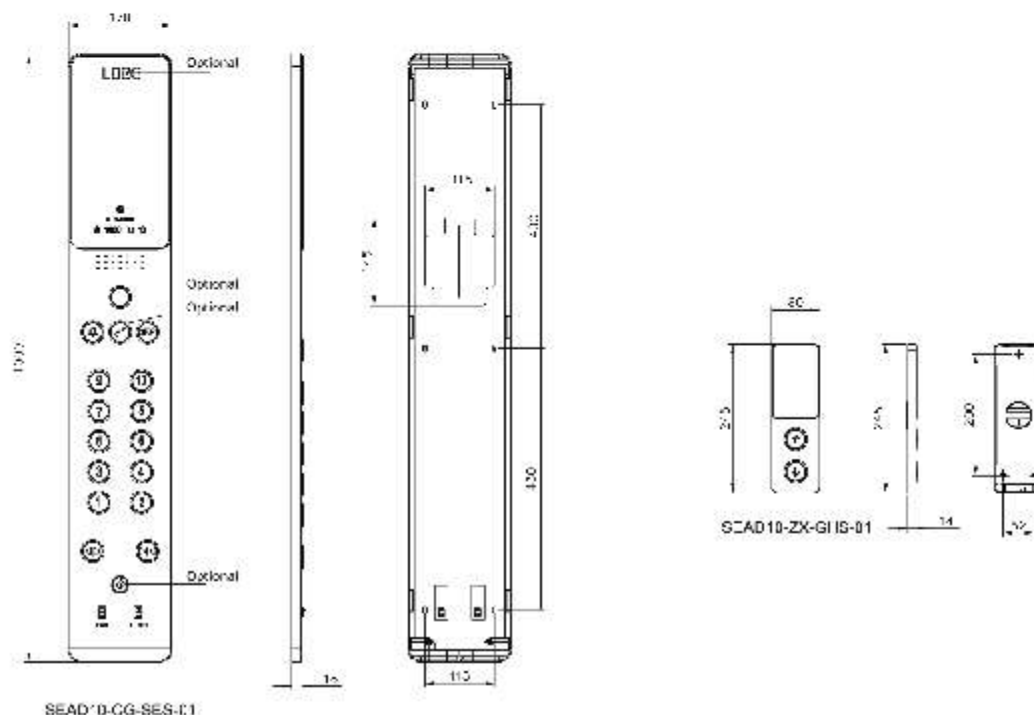
SEAD10-CG-SES-01



SEAD10-ZX-GHS-01

Display	Type	SEAD10-CG-SES-01	SEAD10-ZX-GHS-01
Parallel		BVL131/BVD291	BVL121/BVD231
RS485 Monarch Protocol		R600 / R610 / R630	R60M / R61M / R63M

Figure & Installation Dimension(mm)



BCGCM001 Series



BCGCM001 | BXGFM019

Feature & Specification

- Mounting: Surface type
- Material Optional: Mirror St/steel
Hairline St/steel

Optional Button:



< B1MSC037 >

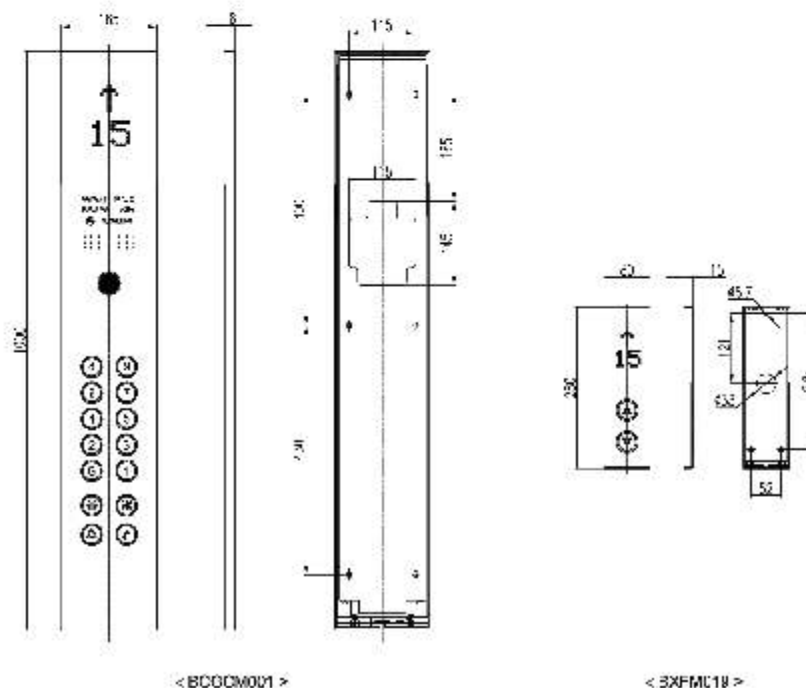


< B1MSC012 >

- Emergency Light: MA1C03
- Keyswitch: A4P72774
- Toggle Switch: Optional
- LED Colour: ■ ■ ■

Display	Type	BCGCM001	BXGFM019
Parallel		BVL131/BVD291	BVL121/BVD231
RS485 Monarch Protocol		R600 / R610 / R630	R60M / R61M / R63M

Figure & Installation Dimension(mm)



BCGBF001 Series



Feature & Specification

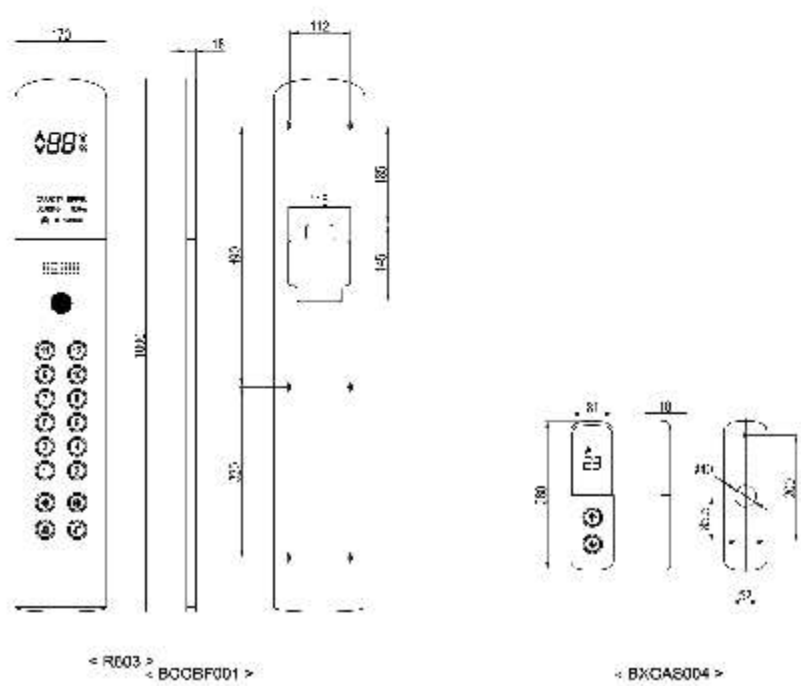
- Mounting: Surface type
- Material Optional: Hairline St/steel
Mirror St/ Steel
- Optional Button:




< EAMSG007 >
< DAMSG002 >
- Emergency Light: MA1C03
- Keyswitch: A4P72774
- Toggle Switch: Optional
- LED Colour: ■ ■ □

Display	Type	BCGBF001	BXGAS004
Parallel		BVL131/BVD291	BVL121/BVD231
RS485 Monarch Protocol		R600 / R610/ R630	R60M / R61M / R63M

Figure & Installation Dimension(mm)



BCG311 Series



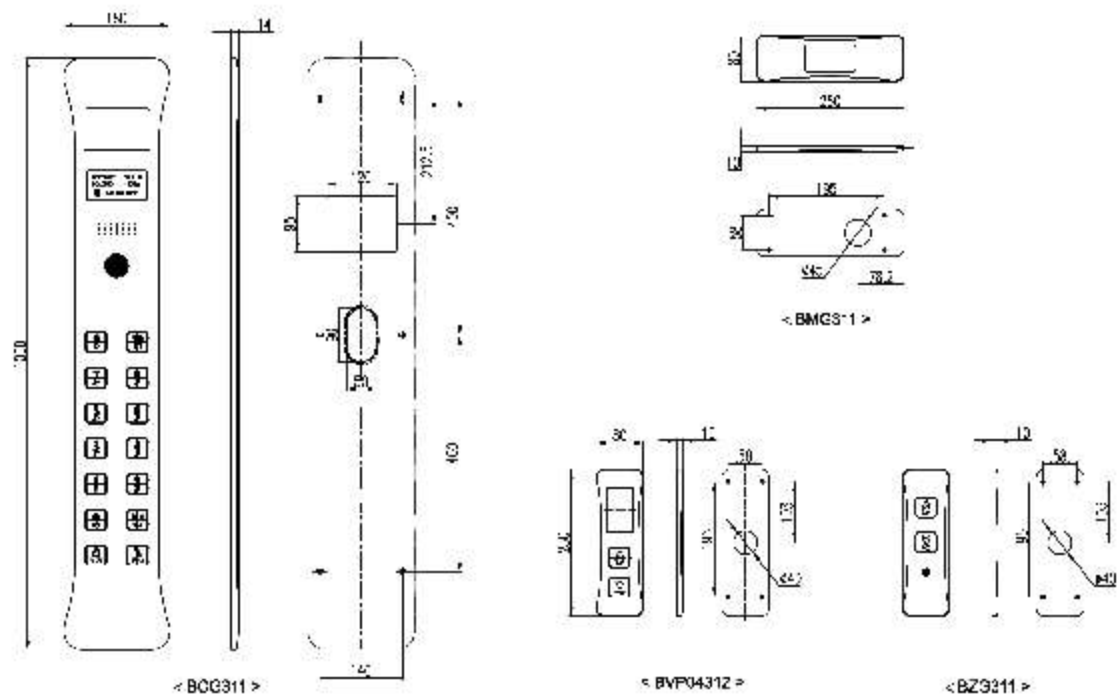
Feature & Specification

- Mounting: Surface type
- Material Optional: Mirror St/steel, Hairline St/steel
Cold hairline St/ Steel , Titanium hairline St/steel
- Optional Button:
 

< MA1Z30 >
- Emergency Light: MA1C03
- Keyswitch: A4P56470
- Toggle Switch: Optional
- LED Colour: ■ ■ ■

Display	Type	BCG311	BXG311	/	BZG311	BMG311
Parallel		BVL131/BVD262	BVL121/BVD231	/	/	BVD261
RS485 Monarch Protocol		/	/	/	/	/

Figure & Installation Dimension(mm)



KCG351 Series



Feature & Specification

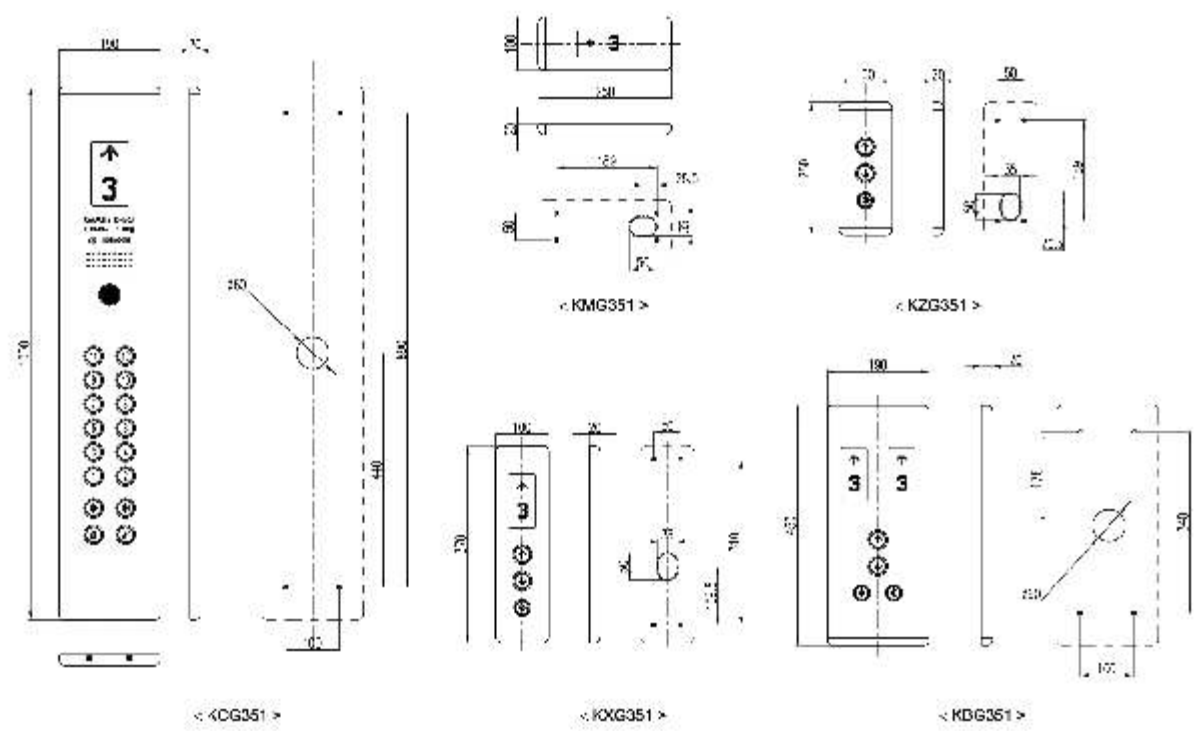
- Mounting: Surface type
- Material Optional: Mirror St/steel
Hairline St/steel , Texture St/steel
- Optional Button:



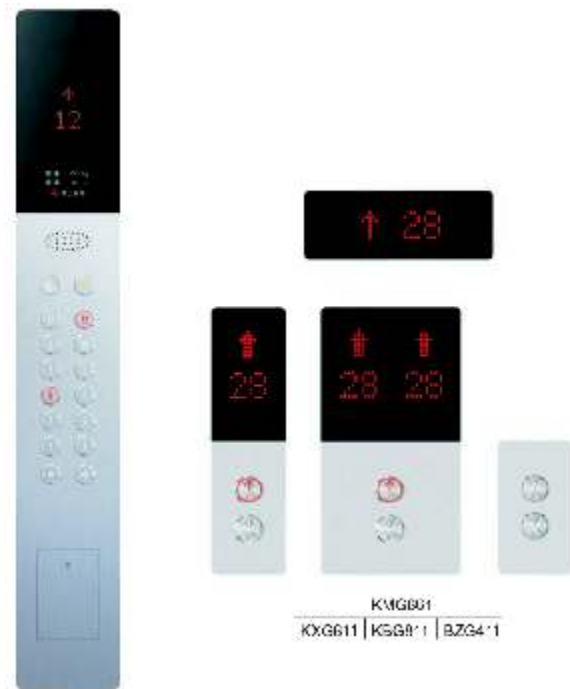
- Emergency Light: MA1C03
- Keyswitch: A4P72774
- Toggle Switch: Optional
- LED Colour: ■ ■ ■

Display	Type	KCG351	KXG351	KBG351	KZG351	KMG351
Parallel		BVL131/BVD291	BVL121/BVD231	BVL121/BVD231	/	BVD262
RS485 Monarch Protocol		R600/ R610/ R630	R60M/ R61M/ R63M	R60M/ R61M/ R63M	/	/

Figure & Installation Dimension(mm)



BCKAP002 Series



Feature & Specification

- Mounting: Flush mount
- Material Optional: Mirror St/steel
Hairline St/steel
- Optional Button:



< BAMSC007 >

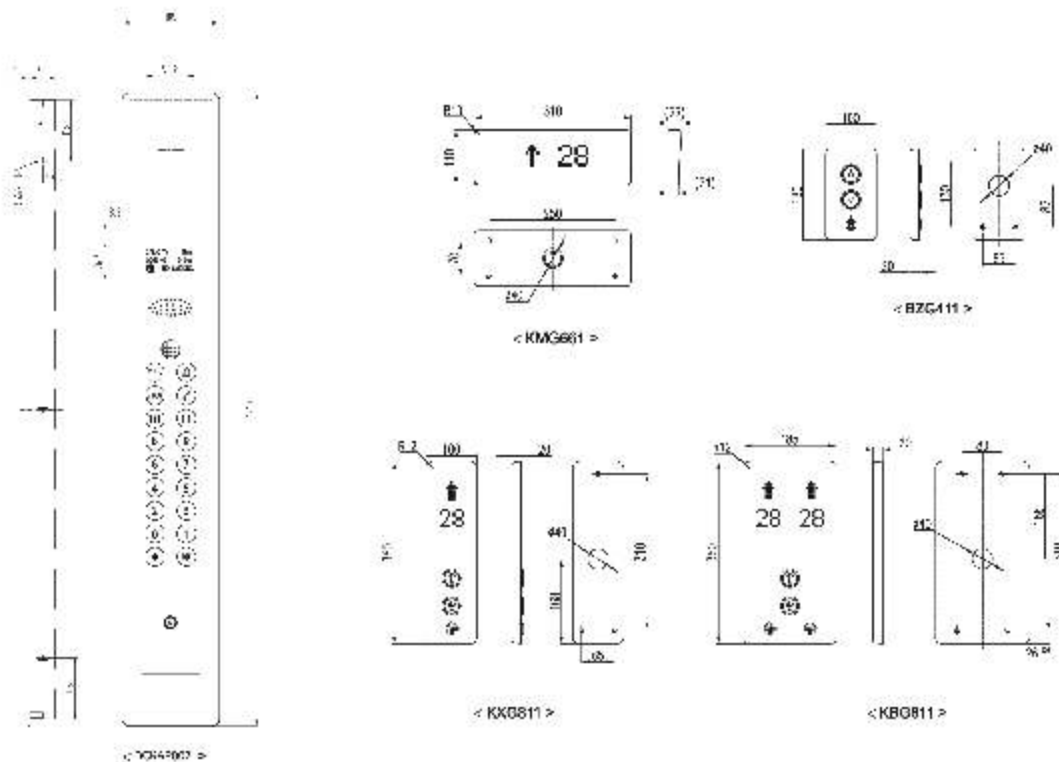


< BAMSS002 >

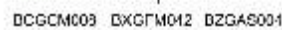
- Emergency Light: MA1C03
- Keyswitch: A4P72774
- Toggle Switch: Optional
- LED Colour: ■ ■ ■

Display	Type	BCKAP002	KXG811	KBG811	BZG411	KMG661
Parallel		BVD291	BVD201	BVD201	/	BVD262
RS485 Monarch Protocol		R600/ R610/ R630/ D634/ U673/ T647	R60M/ R61M/ R63M D634/ U673/ T640	R60M/ R61M/ R63M D634/ U673/ T640	/	/

Figure & Installation Dimension(mm)

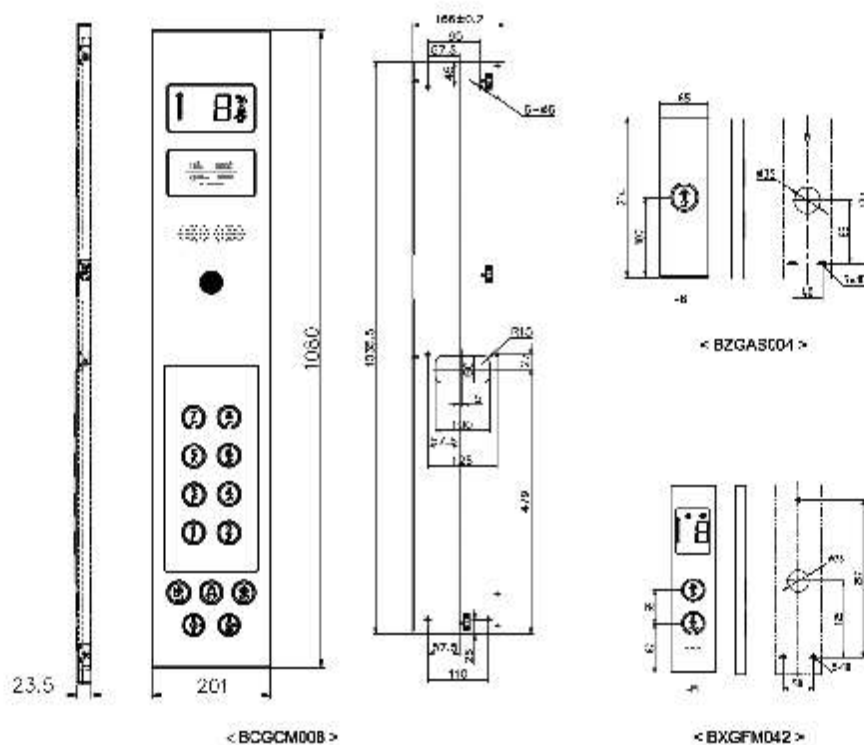


EN81-20/50



● LED Colour: ☐

Figure & Installation Dimension(mm)



BCG451 Series



Feature & Specification

- Mounting: Surface type
- Material Optional: Black PC + Hairline St/steel
Black PC + Mirror St/steel
- Optional Button:



< BAMS007 >

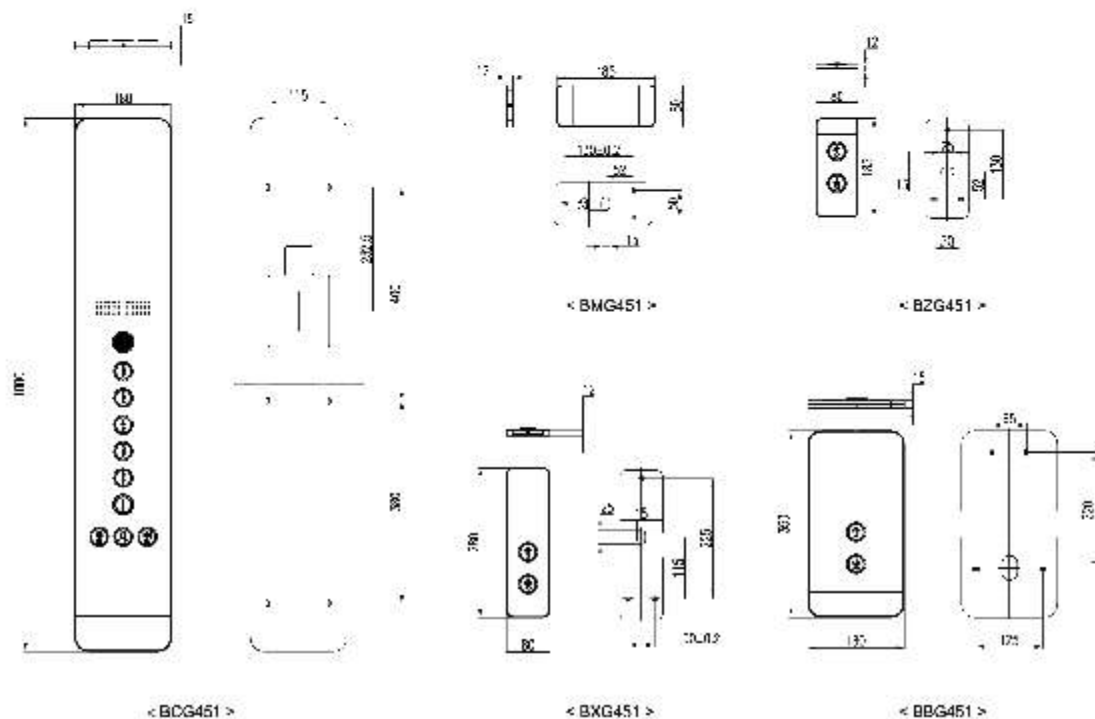


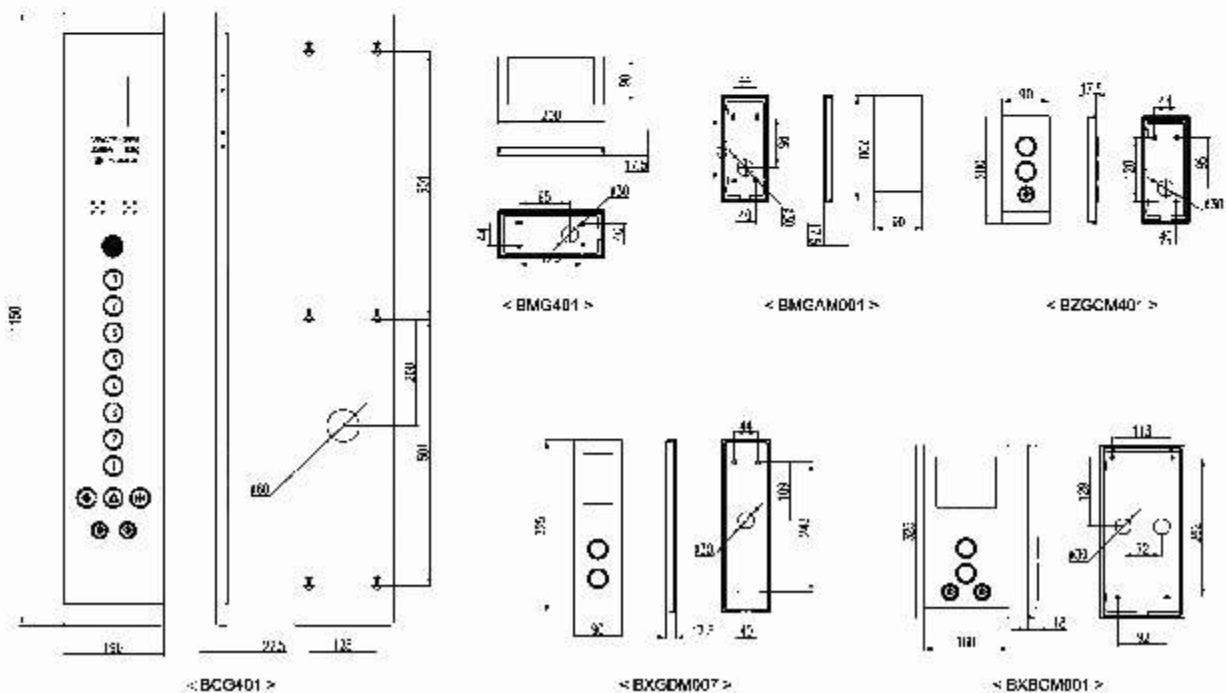
< MA2J00 >

- Emergency Light: MA1C03
- Keyswitch: A4P72774
- Toggle Switch: Optional
- LED Colour: ■ ■ ■

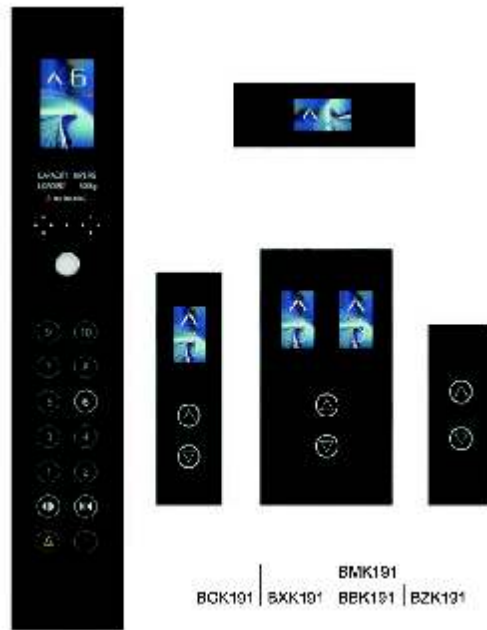
Display \ Type	BCG451	BXG451	BBG451	BZG451	BMG451
Parallel	BVL131/BVD291	BVL121/BVD231	BVL121/BVD231	/	BVD261
RS485 Monarch Protocol	R500 / R610 / R630	R60M / R61M / R63M	R50M / R61M / R63M	/	/

Figure & Installation Dimension(mm)





BCK191 Series



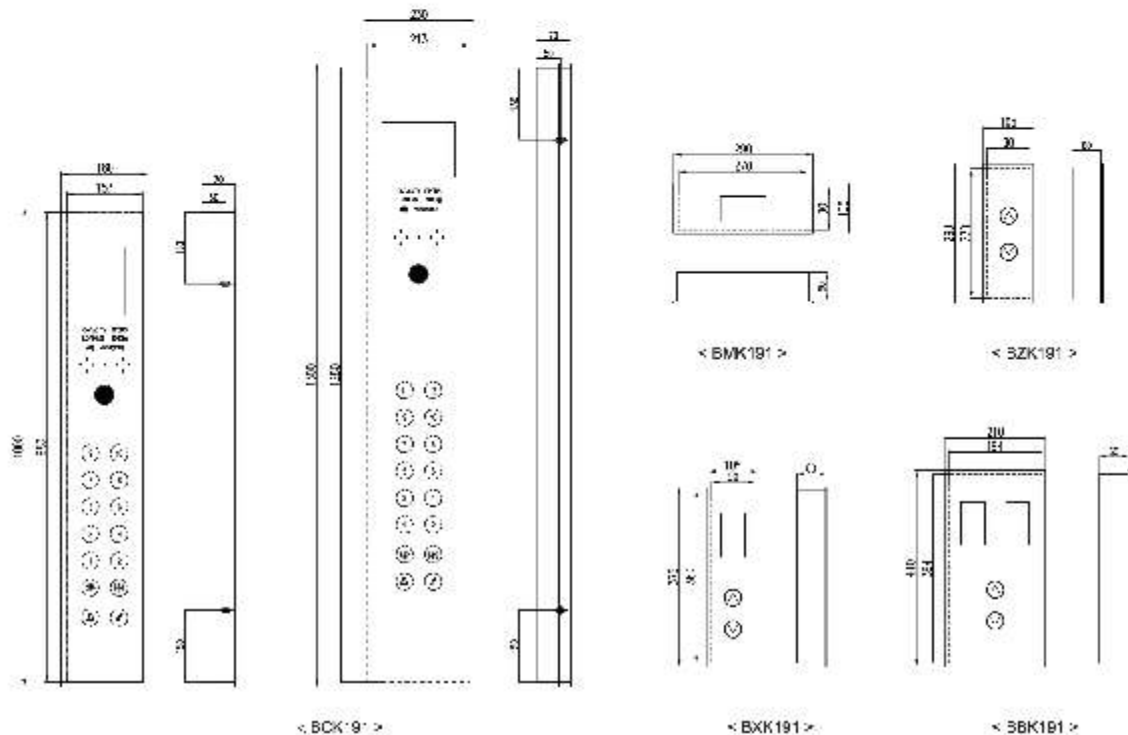
Feature & Specification

- Mounting: Flush type
- Material Optional: White Glass
Black Glass
- Optional Button: 

- Emergency Light: MA1C03
- Keyswitch: BAS12G
- Toggle Switch: /
- LED Colour: ■ ■ ■

Display	Type	BCK191	BXK191/BBK191	BZK191	BMK191
Parallel		BVD291/BVP07013	BVD231/ BVP04316	/	BVD262/BVP04316
RS485 Monarch Protocol		R600 / R610 / R630 / T647	R60M / R61M / R63M / T640	/	/

Figure & Installation Dimension(mm)





SR INDUSTRIES

TFT Touch Series

Multimedia displays

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2018-04-08

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TFT Touch Series



BVT1042
10.4" display



BVT12101
12.1" display



BVT15002
15.0" display



BVT13301
13.3" display



BVT29001
29" display



BVT38001
38" display

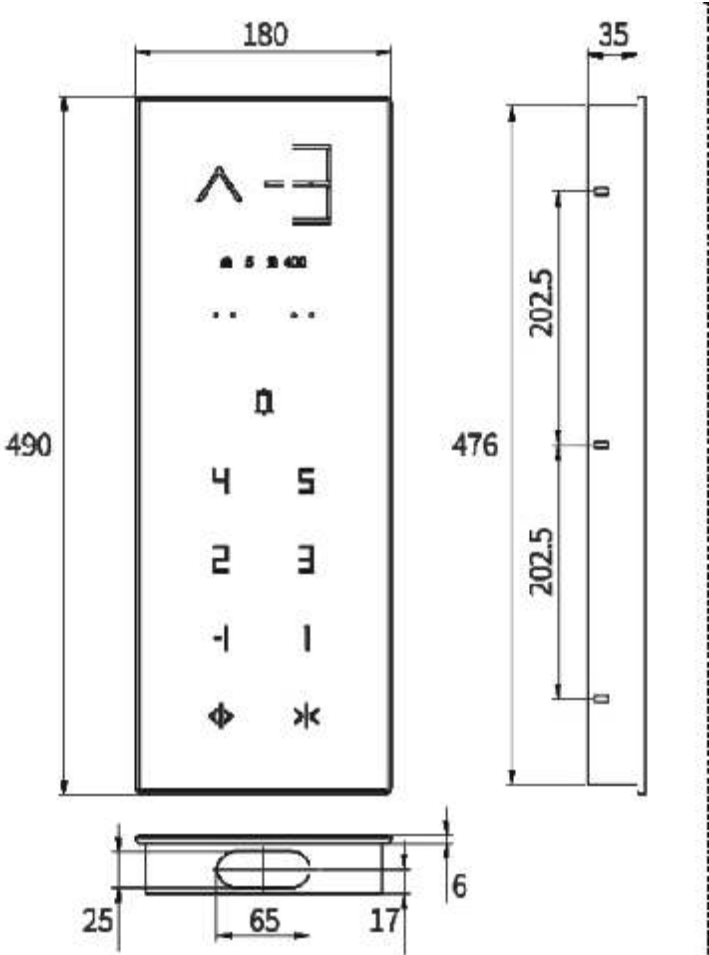
BCKCM/BXGCM Series

COP: BCKCM005

○ Appearance



○ Dimensions



490 x 180 x 35 (mm)

○ Configurations

Panel Material	Frame	Number of Landings	Display Module	Button	One-Touch Dialing	Installation Mode
Tempered glass	ABS spray painting	6	5-Inch TFT	Touch button	Help button (optional)	Embecced

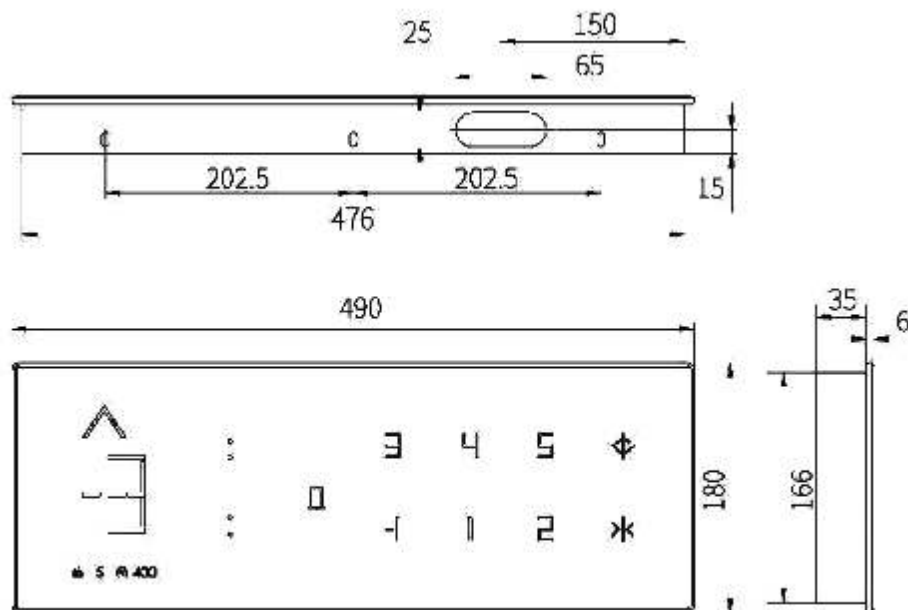
BCKCM/BXGCM Series

COP: BCKCM006

Appearance



Dimensions



180 x 490 x 35 (mm)

Configurations

Panel Material	Frame	Number of Landings	Display Module	Button	One-Touch Dialing	Installation Mode
Tempered glass	ABS spray painting	6	5-inch TFT	Touch button	Help button (optional)	Embedded

BCKCM/BXGCM Series

LOP1: BXGCM001

Appearance



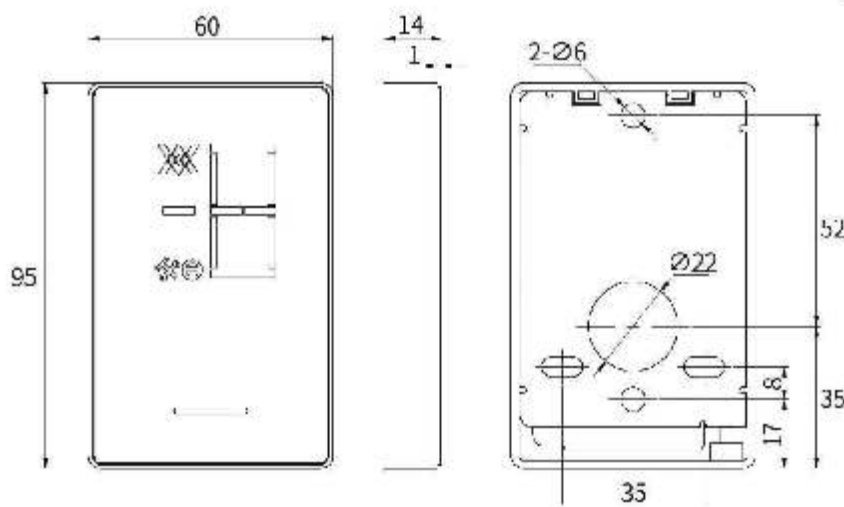
Black



Black - Chinese Style



Dimensions



95 x 60 x 14 (mm)

Configurations

Panel Material	Frame	Display Module	Button	Installation Mode
Tempered glass	ABS spray painting	Segment display	Touch button	Wall-mounted

BCKCM/BXGCM Series

LOP2: BXGCM002

Appearance

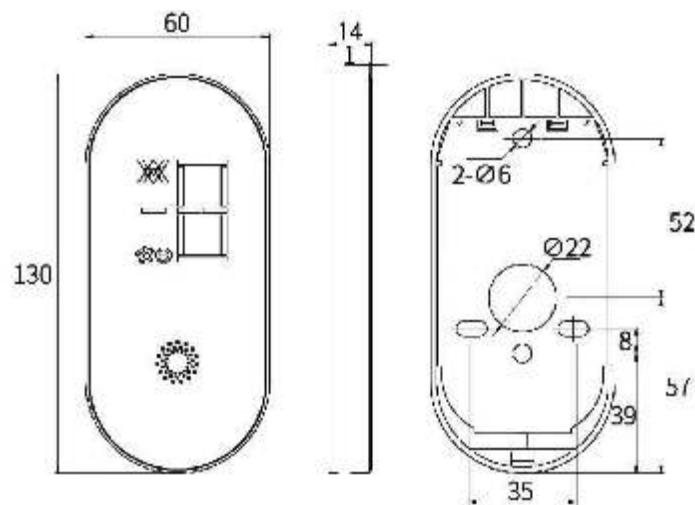


Black



Black - Chinese Style

Dimensions



130 x 60 x 14 (mm)

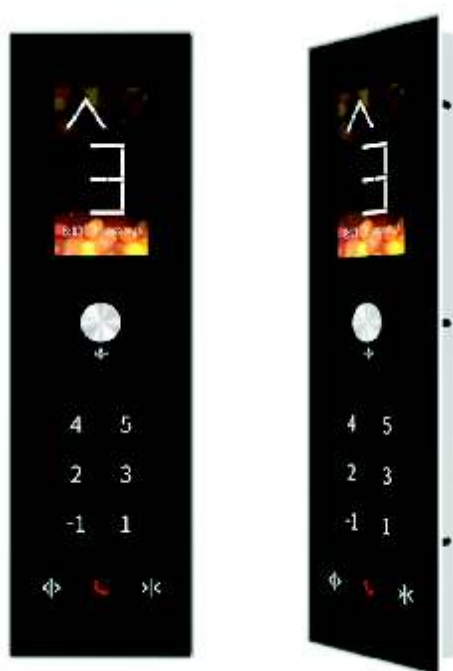
Configurations

Panel Material	Frame	Display Module	Button	Installation Mode
Tempered glass	ABS spray painting	Segment display	Touch button	Wall-mounted

MAGO10 Series

COP: MAGO10-CK-GCK-01

○ Appearance

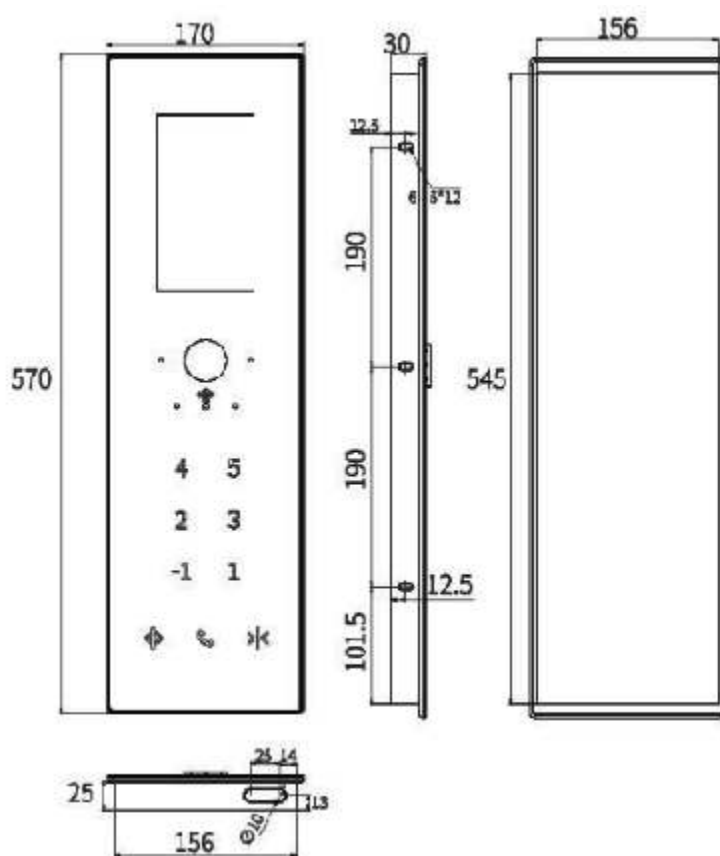


Touch
button



One-touch
dialing

○ Dimensions



570 x 170 x 30 (mm)

Configurations

Panel Material	Frame	Number of Landings	Display Module	Button	Installation Mode	One-Touch Dialing
Tempered glass	ABS spray painting (Silver)	6	7-inch TFT	Touch button	Embedded	Help button (Optional)

MAGO10 Series

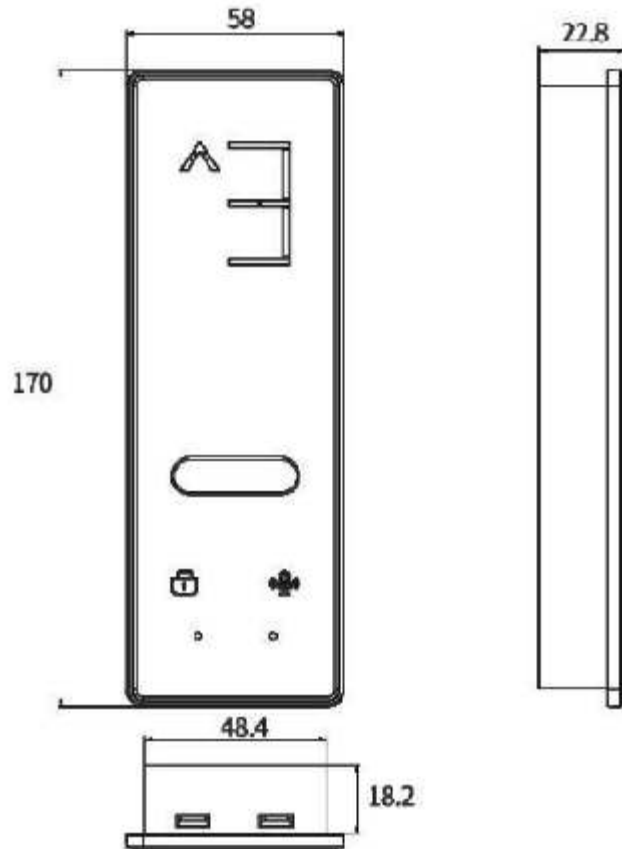
LOP2: MAGO10-ZX-KBF-01

Appearance



Child safety
lock

Dimensions



170 x 58 x 22.8 (mm)

Configurations

Panel Material	Frame	Display Module	Button	Installation Mode	Remote Controller
Tempered glass	ABS spray painting (Silver)	White segment display	Touch button	Embedded	Optional

MAGO10 Series

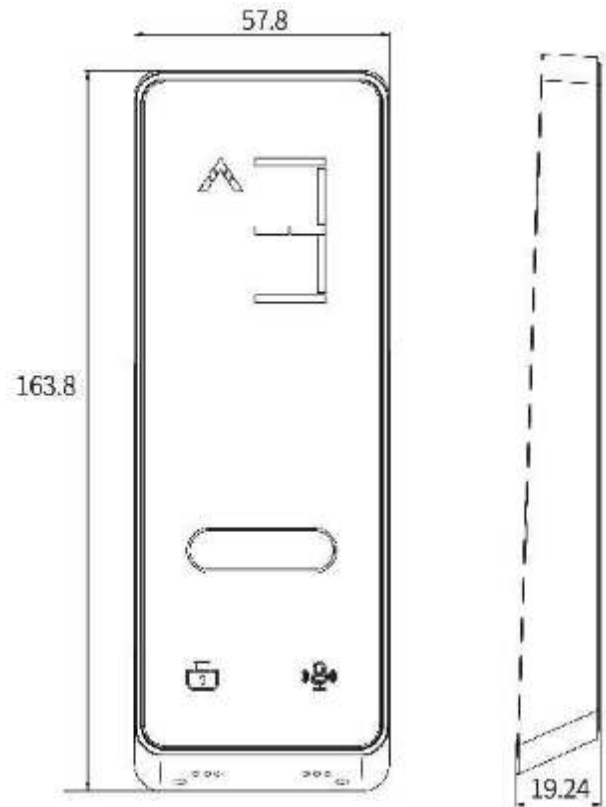
LOP2: MAGO10-ZX-GKS-01

Appearance



Child safety
lock

Dimensions



163.8 x 57.8 x 19.24 (mm)

Configurations

Panel Material	Frame	Display Module	Button	Installation Mode	Remote Controller
Tempered glass	ABS spray painting (Silver)	White segment display	Touch button	Wall-mounted	Optional

MAGO10 Series

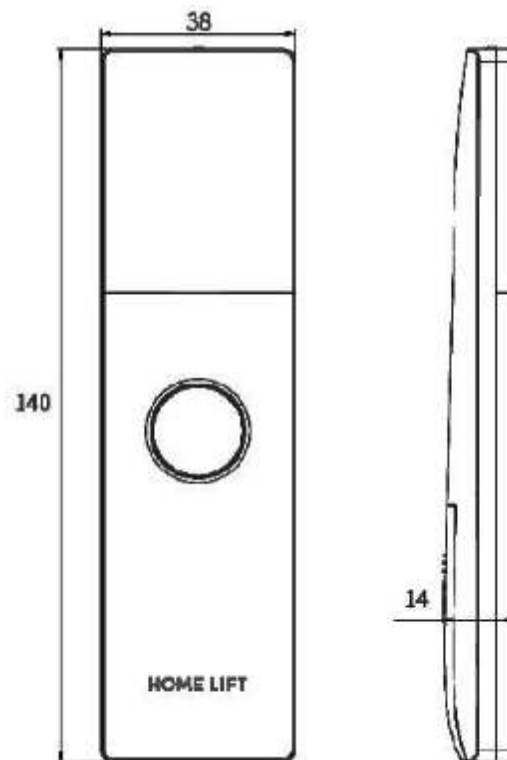
Remote controller: MAGO10-UC-01

Appearance



Remote control

Dimensions



140 x 38 x 14 (mm)

Configurations

Panel Material	Frame	Button	Remote Control Distance
ABS injection molding	Display window made of dark gray acrylic	Physical button	5 m

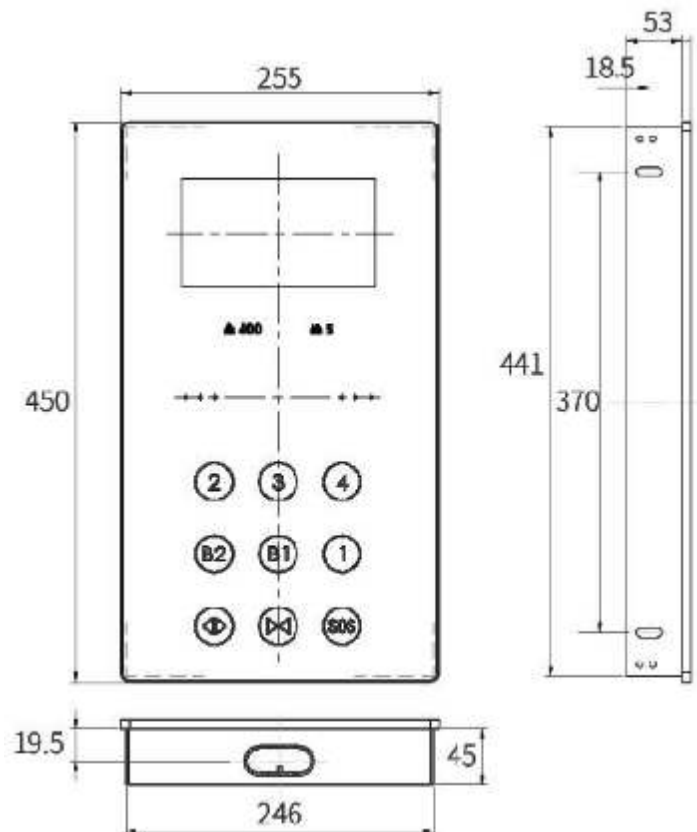
BCKCF/BXG Series

COP: BCKCF006

Appearance



Dimensions



450 x 255 x 53 (mm)

Configurations

Panel Material	Frame	Number of Landings	Display Module	Button	One-Touch Dialing	Installation Mode
Tempered glass	Aluminum alloy	6	7-inch TFT	Touch button	Help button (optional)	Embedded

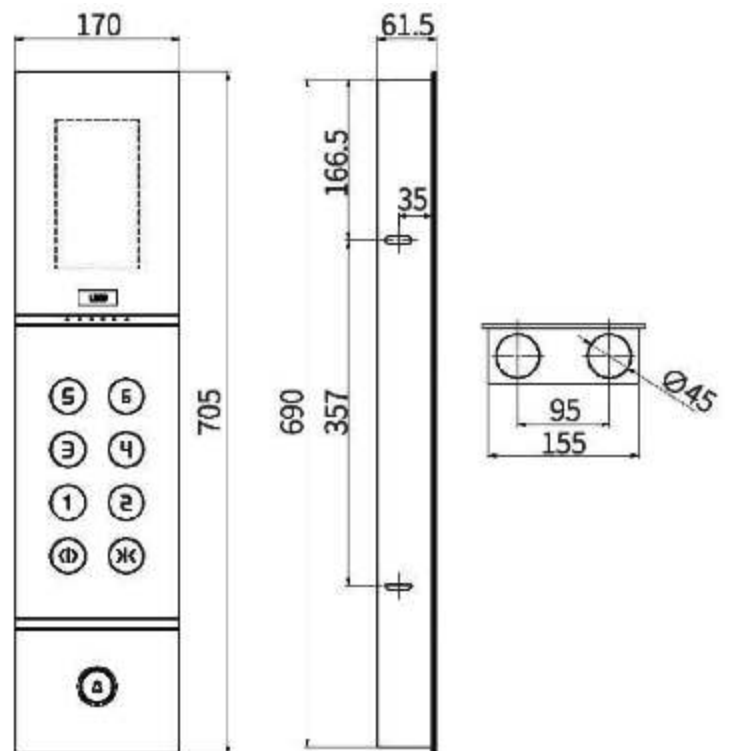
MCTC/BXGFM Series

MCTC00-CK-GCP-01

Appearance



Dimensions



705 x 170 x 61.5 (mm)

Configurations

Panel Material	Number of Landings	Display Module	Button	Installation Mode	One-Touch Dialing
Black tempered glass	6	7-inch TFT	Touch button	Embedded	Help button (optional)

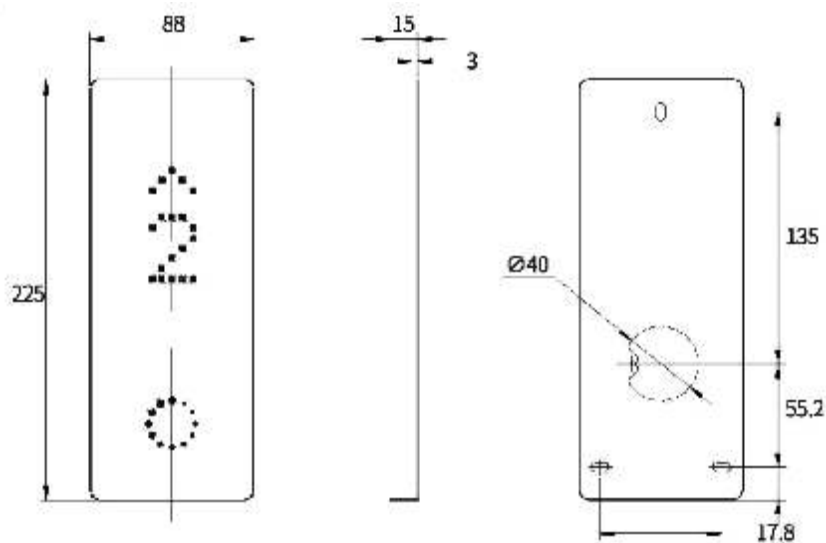
MCTC/BXGFM Series

BXGFM048

Appearance



Dimensions



225 x 88 x 15 (mm)

Configurations

Panel Material	Display Module	Button	Installation Mode
Black tempered glass	4.3-inch TFT/dot matrix	Touch button	Wall-mounted

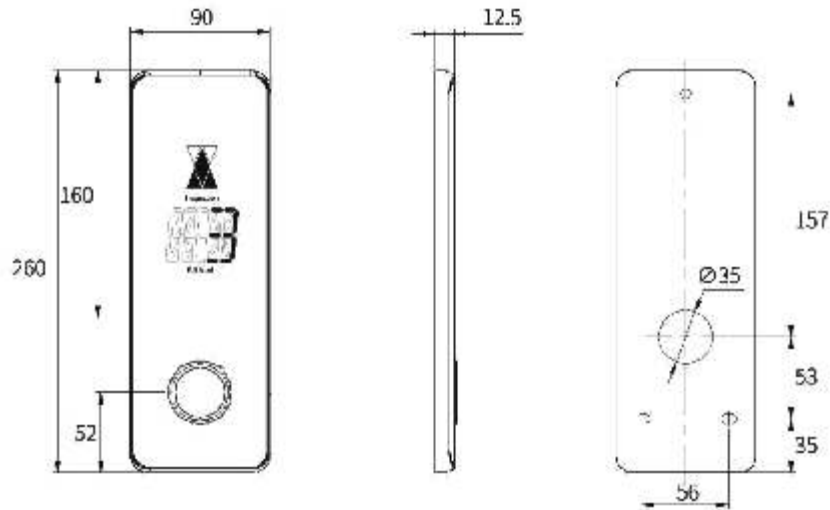
MCTC/BXGFM Series

BXGFM034

Appearance



Dimensions



260 x 90 x 12.5 (mm)

Configurations

Panel Material	Display Module	Button	Installation Mode
PC+ stainless steel	Segment/Dot matrix display	Physical button	Wall-mounted

Display Series

Dot Matrix Display



BVD291



BVD231



MCTC-HCB-R600 (Red)
MCTC-HCB-R610 (Orange)
MCTC-HCB-R630 (White)



MCTC-HCB-R60M (Red)
MCTC-HCB-R61M (Orange)
MCTC-HCB-R63M (White)

Segment Display



BVC100A



BVL121



BVL131

LED Display

4.3" LED segment display



MCTC-HCB-D634 (White)
MCTC-HCB-D614 (Orange)
MCTC-HCB-D604 (Red)

6.4" LED segment display



MCTC-HCB-D635 (White)
MCTC-HCB-D605 (Red)
MCTC-HCB-D615 (Orange)



BVLSV032-485



MCTC-HCB-D63L-485

LCD Display

4.3" LCD segment display



MCTC-HCB-U673
(White text with Blue background)

MCTC-HCB-U633
(White text with Black background)

6.4" LCD segment display



MCTC-HCB-U671
(White text with Blue background)

MCTC-HCB-U631
(White text with Black background)

TFT/ Media Display



BVP04316
(4.3")



MCTC-HCB-T647/S
(7")



MCTC-HCB-M61B/S
(12.1")



MCTC-HCB-M61C/S
(15")

Button Series



BAMSC007



MORD10-AM-SC



MA1Z00



BAS101



BAS181



BAMSS002



BAS240



BAMSC043



MA1800



BATFC001



MA2J00

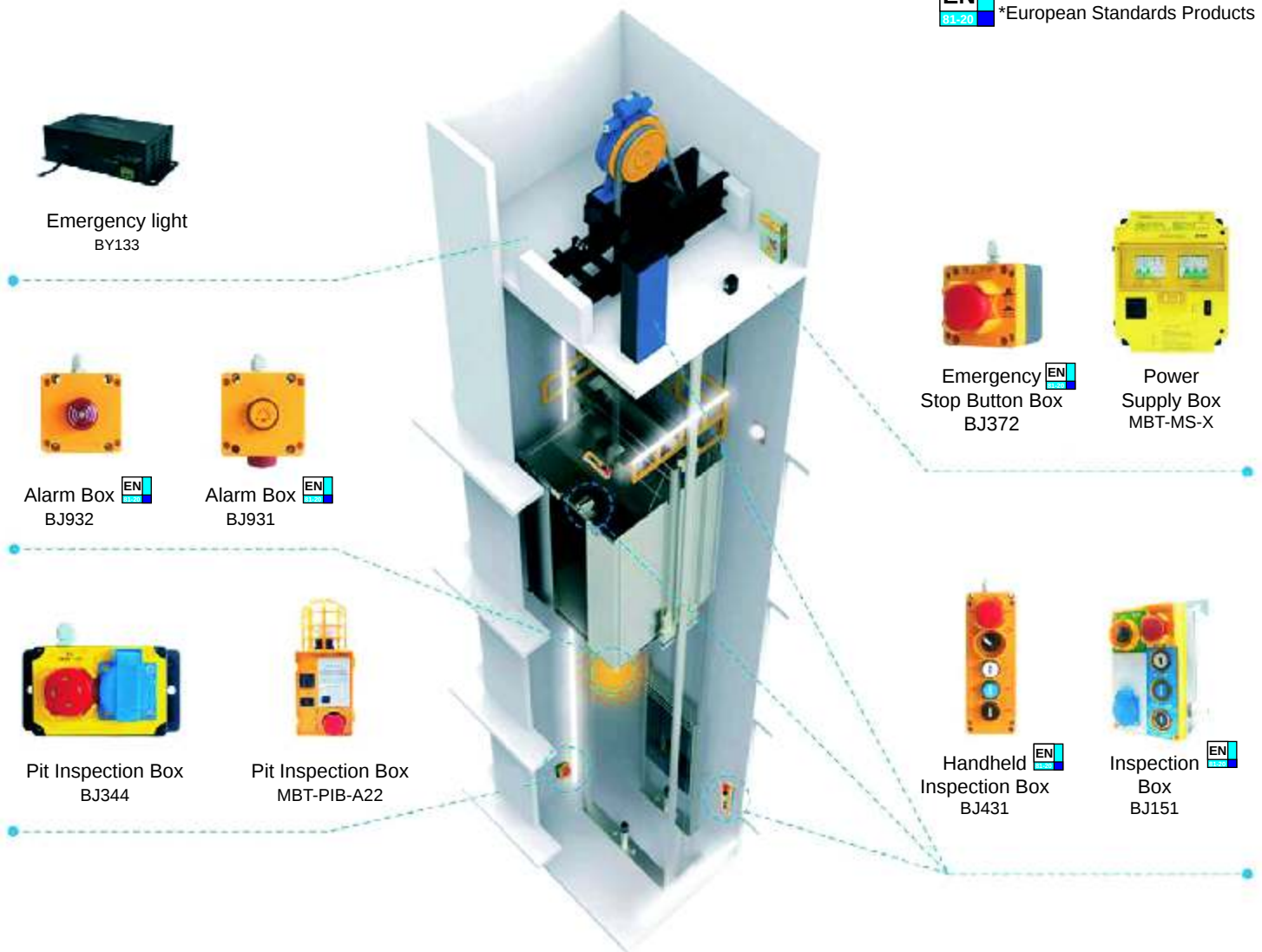


BAS230

Hoistway Fixture Series



*European Standards Products



For low rise elevator- PVC

Structure and Schematic Drawing



Product Information

Cable Structure	Conductor comply with GB/T 3956 sheet 3 or IEC60228 class 5 Insulation comply with GB/T 5023 sheet 1 PVC/D insulation Color Code: GB/T 5023.1, over six cores:black skin with white nubmer – yellow green wire Sheath comply with GB/T 5023.1 sheet 2 PVC/TW2		
Technical Characteristics	Rate voltage U_0/U : 300/500V (450/750V) Voltage Test: 2000V(2500V) Work temperature scope: -15°C~+0°C Maximum conductor temperature: 70°C Flame resistance: IEC 60332-1 Environmentally friendly: RoHS	Mechanical Properties Type	Free suspension length $\leq 45m$ (55m) Travelling height $\leq 80m$ (100m) Running speed $\leq 2.5m/s$ (4m/s) Acceleration speed $< 0.8m/s^2$ TWB、TWBP、H05VH6-F、H07VH6-F
Standards & certification	GB/T 5023.6, JB/T 8734.6, IEC60227, EN50214, Q31/0115000467C003 alternative		
Application	Power and signal controlling between travelling car and cabinet		

Cable parameters

ID	Specification	Dimension(W*H)	Data elements	Reference Weight	Loop Size
4318011327	18*0.75	51.5*4.5	NA	414	300*50
4324013024	24*0.75	67.3*4.5	NA	540	300*50
4324014445	24*1	70.0*4.8	NA	638	330*50
4303013275	3*2.5	15.5*6.2	NA	174	380*50
4323114350	3*2.5+12*1-4*2P*0.34	66.8*6.0	2P*0.34AL	710	300*50
4319114477	3*1.5+10*0.75-3*2P*0.5	57.0*5.8	2P*0.5AL	512	290*50
4322114478	4*2.5+13*1-2*2P*0.34+TV	70.0*7.0	2P*0.34AL TV	820	350*50
4426114480	15*1.13*2.5-4*2P*0.5	83.3*5.9	2P*0.5AL	885	295*50
4330003040	30*0.75	38.7*8.2	NA	616	410*50
4341103157	3*0.75(+2*2P*0.75+TV)	60.7*9.0	2P*0.75AL TV	847	450*50
4354106236	60*0.75(+12*2P*0.5)	77.0*8.5	2P*0.5AL	1150	430*50

*G: yellow/green earth connection wire

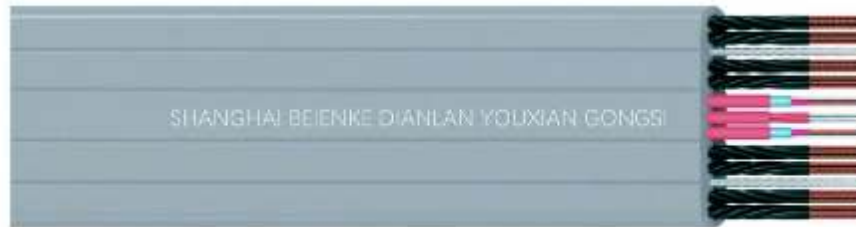
*LAN cable: Cat5e, Cat6, Cat7 alternatives; TV: 75Ω coaxial cable; F0: multi mode G62.5/125 or 50/125, single mode G652D

*Cu: copper braiding; Al: aluminium foil braiding; alternative

*Out of list demands please contact ENK technical dep.

For middle rise elevator- PVC

Structure and Schematic Drawing



Product Information

Cable Structure	Conductor comply with GB/T 3956 sheet 3 or IEC60228 class 5 Insulation comply with GB/T 5023 sheet 1 PVC/D insulation Color Code: GB/T 5023.1, oversize cores: black skin with white number / yellow green wire Sheath comply with GB/T 5023.1 sheet 2 PVC/TM2		
Technical Characteristics	Rate voltage U_0/U : 300/500V (450/750V) Voltage Test: 2000V(2500V) Work temperature scope: -20°C~40°C Maximum conductor temperature: 70°C Flame resistance: IEC 60332-1 Environmentally friendly: RoHS	Mechanical Properties	Free suspension length $\leq 80m$ Travelling height $\leq 150m$ Running speed $\leq 4m/s$ Acceleration speed $\leq 1.2m/s^2$
		Type	1VVBG, 1VVBPG, H05VVD3F-6-- , H07VVD3H6-F
Standards & certification	GB/T 5023.6, JB/T8734.6, EC60227, EN50214, Q31/0115000467C003 alternative		
Application	Power and signal controlling between travelling car and cabinet		

Cable parameters

ID	Specification	Dimension (W*H)	Data elements	Support elements	Reference Weight	Loop Size
4405003007	6*0.75(-2*G)	24.5*45.0	NA	2* $\sqrt{1.59}$	198	350*50
4412003014	12*0.75(+2*G)	41.0*45.0	NA	2* $\sqrt{1.59}$	344	350*50
4419014326	18*0.75(+2*G)	57.5*44.6	NA	2* $\sqrt{1.59}$	453	330*50
4424003023	24*0.75(+2*G)	70.6*45.0	NA	2* $\sqrt{1.59}$	605	350*50
4403014211	3*2.5(+2*G)	21.9*46.2	NA	2* $\sqrt{1.59}$	265	380*50
4430003041	30*0.75(+2*G)	48.9*48.2	NA	2* $\sqrt{3.0}$	765	450*50
4413214916	28*0.75(+2*2P*0.75+CA-6)(-2*G)	63.7*48.8	2P*0.75Cu Cat.5	2* $\sqrt{3.0}$	958	450*50
4434104023	30*0.75(+2*2P*0.75)(+2*G)	57.3*48.2	2P*0.75AL	2* $\sqrt{2.5}$	776	450*50
4434203203	30*0.75(+2*2P*0.75)(+2*G)	57.3*48.2	2P*0.75Cu	2* $\sqrt{2.5}$	818	450*50
4435104194	30*0.75(+2*2P*0.75+TV)(-2*G)	65.1*49.0	2P*0.75AL TV	2* $\sqrt{3.0}$	950	500*50
4435003047	36*0.75(+2*G)	51.7*48.9	NA	2* $\sqrt{2.5}$	789	500*50
4440103149	36*0.75(+2*2P*0.75)(+2*G)	65.1*49.0	2P*0.75AL	2* $\sqrt{3.0}$	978	500*50
4440203212	36*0.75(+2*2P*0.75)(+2*G)	64.1*48.9	2P*0.75Cu	2* $\sqrt{3.0}$	953	500*50
4411103152	36*0.75(+2*2P*0.75+TV)(-2*G)	70.9*49.0	2P*0.75AL TV	2* $\sqrt{3.0}$	1081	500*50
4441003280	36*0.75(+2*2P*0.75+TV)(+2*G)	68.7*49.0	2P*0.75Cu TV	2* $\sqrt{3.0}$	1051	500*50
4440003231	40*0.75(+2*G)	58.5*48.0	NA	2* $\sqrt{2.5}$	870	450*50
4414106230	40*0.75(+2*2P*0.5)(+2*G)	68.5*48.0	2P*0.5AL	2* $\sqrt{2.5}$	970	450*50
4448106238	40*0.75(+2*2P*0.75+4*G50/125)(+2*G)	79.6*48.0	2P*0.5A G50/125	2* $\sqrt{2.5}$	1130	450*50

*G: steel rope support elements

*LAN cables: Cat.5e, Cat.5, Cat.6 alternative; TV: 75 Ω coaxial cables; PD: multi mode 60/125 or 50/125, single mode 60/125

*Cu: copper braiding; AL: aluminum foil braiding; alternative

*Our on list demands please contact B&K technical dept

For high speed & high rise elevator- PVC

Structure and Schematic Drawing



Product Information

Cable Structure	Conductor comply with GB/T 3956 sheet 3 or IEC60228 class 5		
	Insulation comply with GB/T 5023 sheet 1 PVC/D insulation		
Technical Characteristics	Color Code: GB/T 5023.1, over six cores: black skin with white number + yellow green wire		
	Sheath comply with GB/T 5023.1 sheet 2 PVC/TM4		
Technical Characteristics	Rate voltage U_0/U : 300/500V (450/750V) Voltage Test: 2000V(2500V) Work temperature scope: -20°C~40°C Maximum conductor temperature: 70°C Flame resistance: IEC 60332-1 Environmentally friendly: RoHS	Mechanical Properties	Free suspension length $\leq 220m$ Travelling height $\leq 400m$ Running speed $\leq 12m/s$ Acceleration speed $< 1.2m/s^2$
		Type	Power and signal controlling between travelling car and cabinet
Standards & certification	JB/T8734.6, IEC60227, EN50214, Q31/0115000467C003 alternative		
Application	TWBG, TWBPG, THWBPG, H05VVD3H6-F, H05V3V3D3H6-F, H07VVD3H6-F		

Cable parameters

ID	Specification	Dimension (W*H)	Data elements	Support elements	Reference Weight	Loop Size
4448115195	29*0.75+5*2P*0.75+8*2+TV(+2*G)	105.6*9.5	2P*0.75AL	2* $\varnothing$ 3.0	1570	550*50
4471000300	48*0.75+10*2-2*6P*0.75+TV(+2*G)	117.9*12.7	6P*0.75AL	2* $\varnothing$ 5.0	2560	650*50
4455115238	62.5+40*0.75+2*2P*0.75+1*2P*0.75+1*2(+2*G)	108.8*10.4	2P*0.75AL	2* $\varnothing$ 4.0	2035	550*50
4457104485	40*0.75+4*2P*0.75+CAT5e+TV(+2*G)	96.7*9.1	2P*0.75AL	2* $\varnothing$ 4.0	1570	650*50
4460006233	60*0.75(+2*G)	80.5*8.5	NA	2* $\varnothing$ 4.0	1300	480*50
4464106237	60*0.75(+2*2P*0.5)(+2*G)	88.0*8.5	2P*0.5AL	2* $\varnothing$ 4.0	1400	480*50
4468106239	60*0.75(+2*2P*0.75+4*G50/125)(+2*G)	97.0*8.8	2P*0.34AL TV	2* $\varnothing$ 4.0	1550	500*50

*G: steel rope support elements

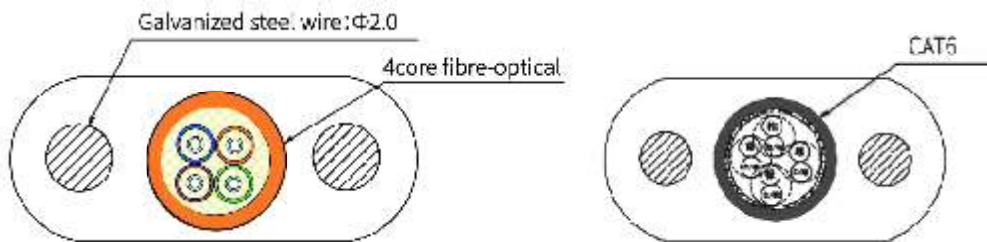
*LAN cable: Cat5e, Cat6, Cat6 alternative; coaxial cable: FO: multi-mode 6G25/125 or 50/125, single-mode 6G520

*Our copper braiding: AL: aluminum foil braiding; alternative

*Our on-list demands please contact BNL technical dept

Elevator modification traveling cable-PVC

Structure and Schematic Drawing



Product Information

Cable Structure	Conductor comply with GB/T 3956 sheet 3 or IEC60228 class 5 Insulation comply with GB/T 5023 sheet 1 PVC/D insulation Sheath comply with GB/T 5023.1 sheet 2 PVC/TM2 Color Code: GB/T 5023.1, over six cores:black skin with white rubber + yellow green wire		
Technical Characteristics	Rate voltage U ₀ /U:300/500V (450/750V) Voltage Test:2000V(2500V) Work temperature scope:-20°C~40°C Max. conductor temperature:70°C Flame resistance: IEC 60332-1 Environmentally friendly:RoHS	Mechanical Properties	Free suspension length≤80m Travelling height≤150m Running speed≤4m/s Acceleration speed<1.2m/s ²
		Type	TVVBG, TVVBPG
Standards & certification	GB/T 5023.6, IEC60227, EN50214, Q31/0115000467C003 alternative		
Application	Power and signal controlling between travelling car and cabinet,mainly focus on elevator modification or function compensation		

Cable parameters

ID	Specification	Dimension (W*H)	Data elements	Reference Weight	Loop Size
4401504174	SYV-75-4	17.9Å10.0	TV	274	500Å50
4401504632	SYV-75-4-P	17.9Å10.0	TV	220	500Å50
4406004456	CAT 5e	17.7Å9.0	Cat5e	202	450Å50
4408004631	CAT 6	17.7Å9.0	Cat5e	202	450Å50
4404004633	4*62.5/125(4*Å1b)	15.7Å7.8	G62.5/125	167	300Å50
4410004444	2*1.0-CAT5e	23.4Å9.0	Cat5e	274	450Å50
4411304367	2*2.5-CAT5F+TV	35.4Å8.9	Cat5e TV	389	445Å50
4403004060	2*1.0-TV (SYV75-5)	22.7Å8.4	TV	253	420Å50
4413204470	(2*2F)*0.75+Cat5e+TV	39.0Å8.7	2P0.75ÅCat5e TV	420	435Å50

*LAV cable:Cat5e, Cat6, Cat7 alternative; TV:75Ω coaxial cable; FO:multi mode G62.5/125 or 50/125, single mode G652D

*Cu: copper braiding; Al: aluminum foil bining; alternative

*Out of list demands please contact BNK technical dept.

Hall Lanterns Series



BFK212



BFG371



BFG153



BFG531

Intercom Series



BH211 Five Way Intercom

- Input: DC 12V/24V
- 5-way single control intercom
- Communication distance is up to 500m
- Sound $\geq 70\text{dB}$
- Maximum audio current $\leq 200\text{mA}$
- Working Temperature: $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$



BH201 Group call Intercom

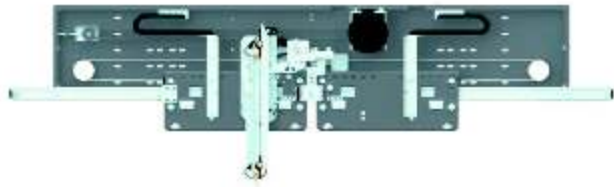
- Input: DC 12V~24V
- 5-way group call Intercom
- Communication distance is up to 1000 m
- Sound $\geq 70\text{dB}$
- Maximum audio current $\leq 250\text{mA}$
- Working Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$



Door System



Heavy duty J2500 Center opening 2-panel Card door

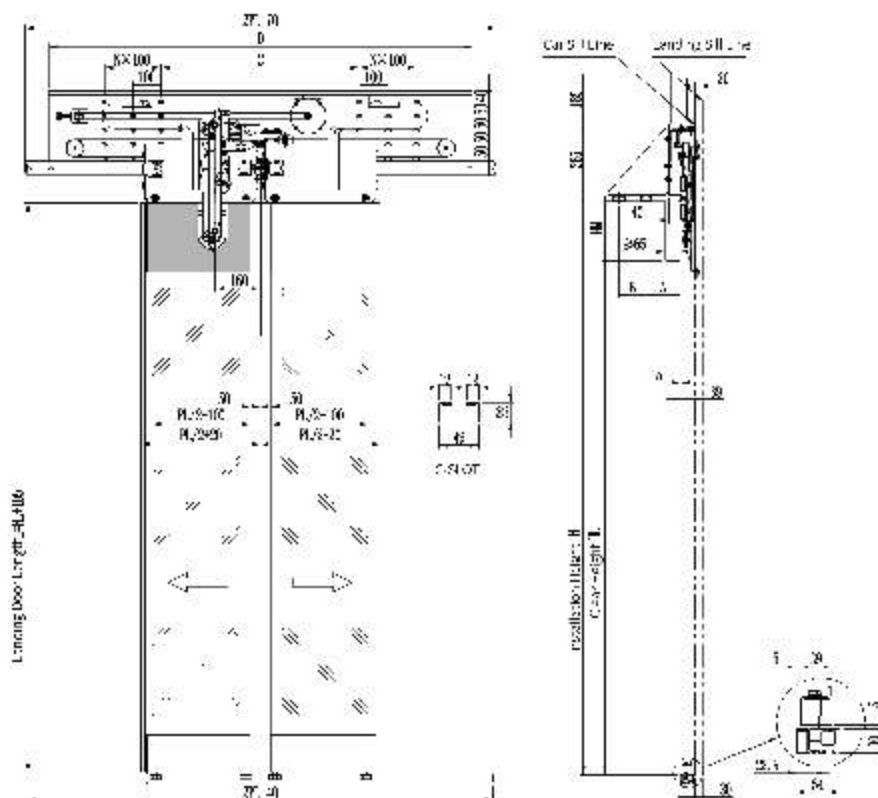


Features

- Card door system with gateballs located on both sides of the door vane and synchronous transmission for simple mechanical structure, reduced mechanical failures and greatly improved reliability of products. Light weight and easy installation and maintenance.
- Closed-loop control, real-time control of running speed and position and functions of traditional travel switch, bow-shaped metal part and cam switch integrated on software.
- Excellent auto-tuning function and built-in optimized operation curve for greatly reduced debugging.
- Great part commonality for low inventory needs and operating costs.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Motor model	YCT-25ST-13	Door drive	NICE900/ BG22L
Rating	2.3 Nm/ 47 W	Door height	HL+105 mm
Max. drag	160 kg	Door panel type	1.0/ 1.2 mm /0.6mm SS cladding optional
Max. opening	600~1200 mm	Sil width	54 mm (standard aluminium sil)
Noise level	≤58 dB	IP rating	IP20



Heavy duty T2200 Center opening 2-panel Landing door



Features

In line with the requirements of GB/T 7588-2020 and EN81-20/50 standards.

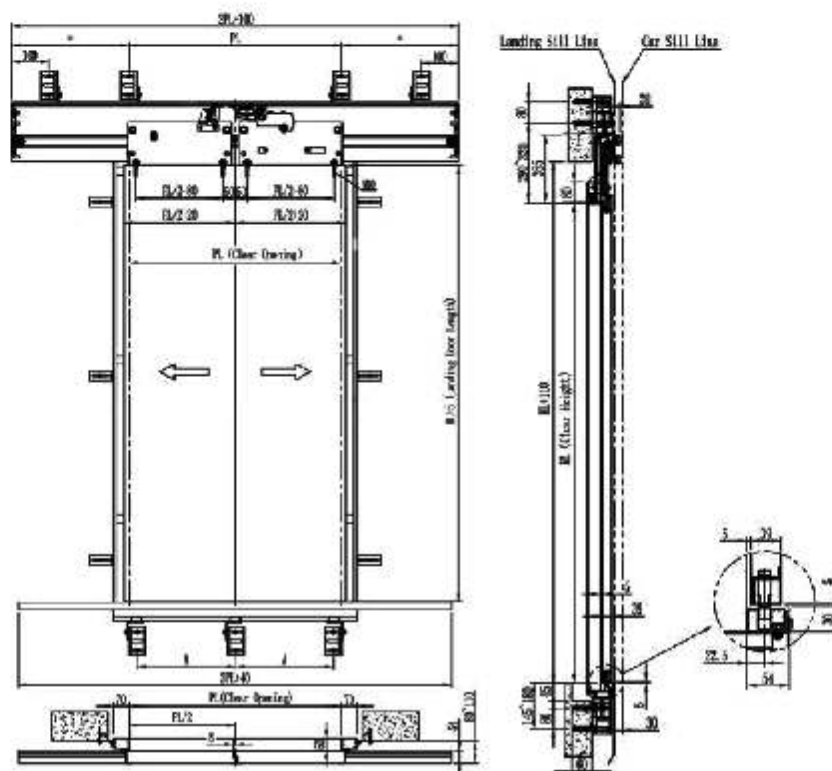
In compliance with the trend of energy conservation and environmental protection.

European interfaces for door vanes with gateballs located bilaterally for European market needs.

Ease of installation and adjustment for the landing door device and spring lock used for better performance.

Technical Specifications

HL	2000~2500 mm	PL	500~1200 mm
Door jamb	50*70 mm	Door height	HL+05 mm
Sil width	34 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Heavy duty J2500 Side opening 2-panel Car door

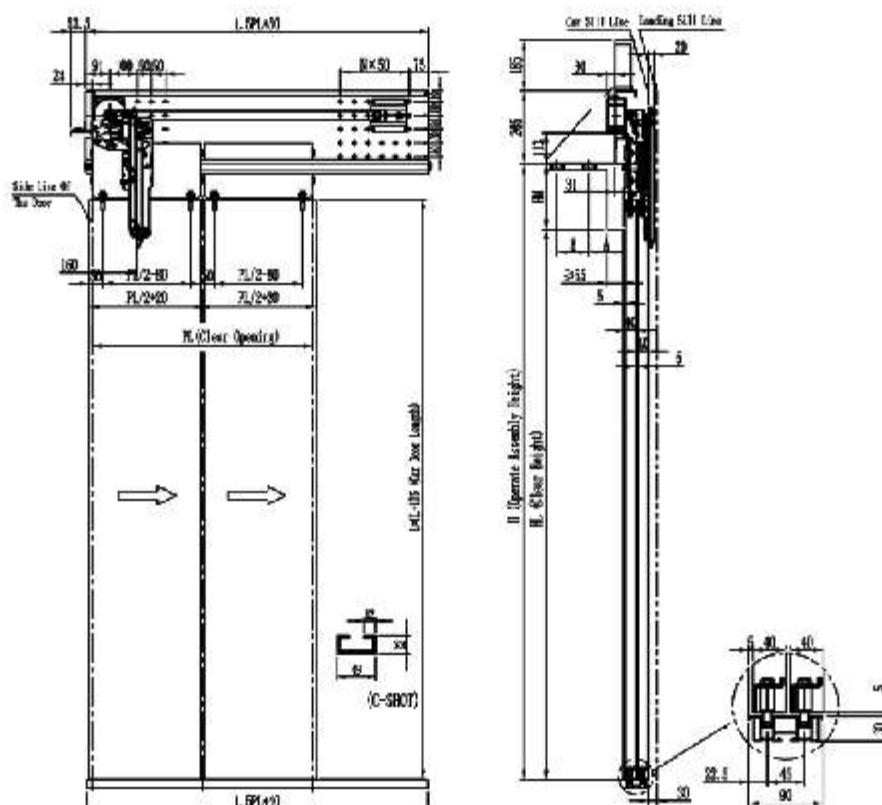


Features

- Car door system with gatebells located on both sides of the door vane and synchronous transmission for simple mechanical structure, reduced mechanical failures and greatly improved reliability of products. Light weight and easy installation and maintenance.
- Closed-loop control, real-time control of running speed and position and functions of traditional travel switch, bow-shaped metal part and cam switch integrated on software.
- Excellent auto-tuning function and built-in optimized operation curve for greatly reduced debugging.
- Great part commonality for low inventory needs and operating costs.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Motor model	YCT125ST-13	Door drive	NICE900/ BG221
Rating	2.3 Nm/ 47 W	Door height	HL+105 mm
Max. drag	160 kg	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
Max. opening	600~1200 mm	Sil width	90 mm (standard aluminium sil)
Noise level	≤58 dB	IP rating	IP20



Heavy duty T2200 Side opening 2-panel Landing door



Features

In line with the requirements of GB/T 7536-2020 and EN81-20/50 standards.

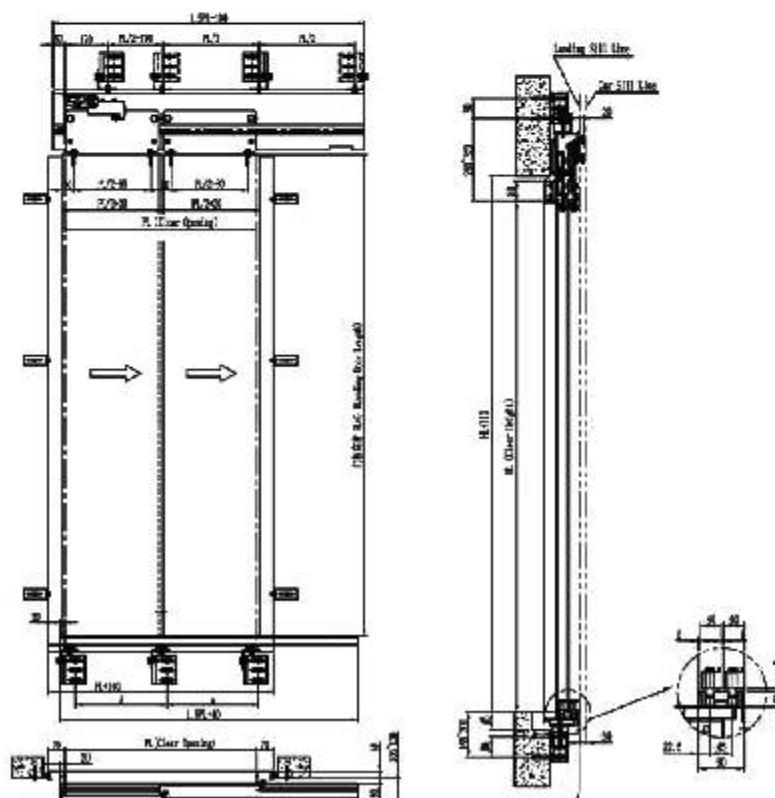
In compliance with the trend of energy conservation and environmental protection.

European interfaces for door vanes with gateballs located bilaterally for European market needs.

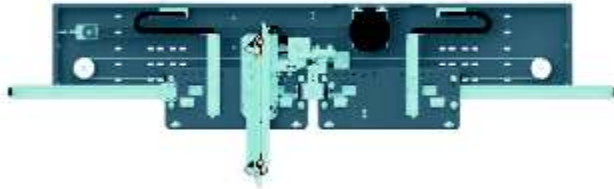
Ease of installation and adjustment for the landing door device and spring lock used for better performance

Technical Specifications

HL	2300~2500 mm	PL	500~1200 mm
Door jamb	50*70 mm	Door height	HL+05 mm
Sil width	90 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Fireproof J2511 Center opening 2-panel Car door

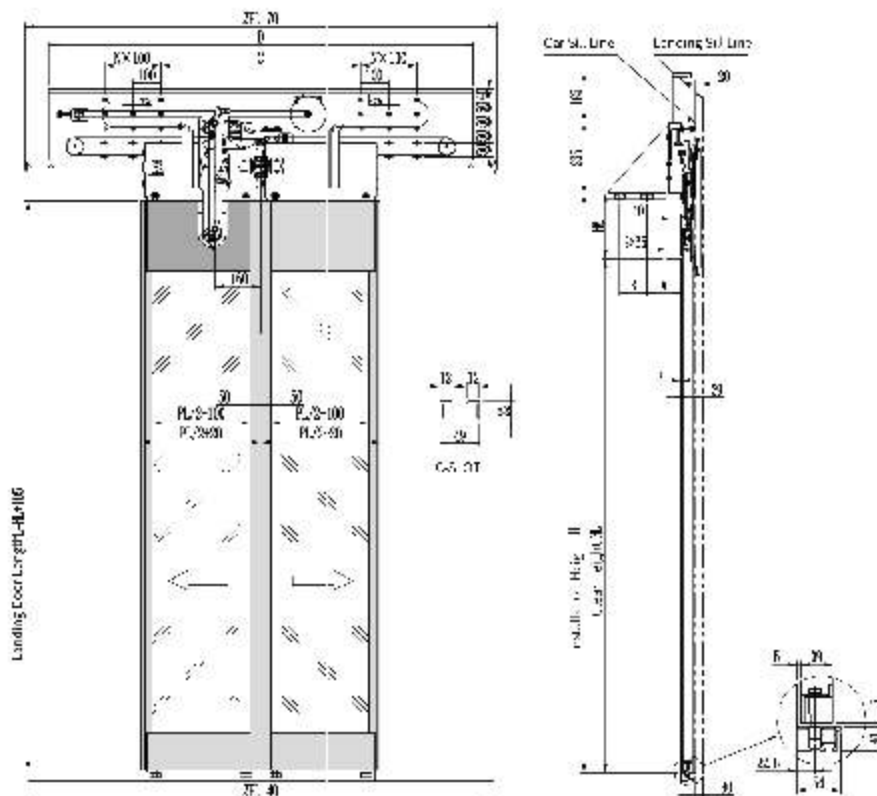


Features

- Car door system with gateballs located on both sides of the door vane and synchronous transmission for simple mechanical structure, reduced mechanical failures and greatly improved reliability of products. Light weight and easy installation and maintenance.
- Closed-loop control, real-time control of running speed and position and functions of traditional travel switch, bow-shaped metal part and cam switch integrated on software.
- Excellent auto-tuning function and built-in optimized operation curve for greatly reduced debugging.
- Great part commonality for low inventory needs and operating costs.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Motor model	YCT125ST-13	Door drive	NICE900/ BG221
Rating	2.3 Nm/ 47 W	Door height	HL±105 mm
Max. drag	160 kg	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
Max. opening	600~1200 mm	Sil width	54 mm (standard aluminium sil)
Noise level	≤58 dB	IP rating	IP20



Fireproof T2203 Center opening 2-panel Landing door



Features

In line with GB/T27903 E120/EI120 and EN81-58 E120/EI120 fire test requirements.

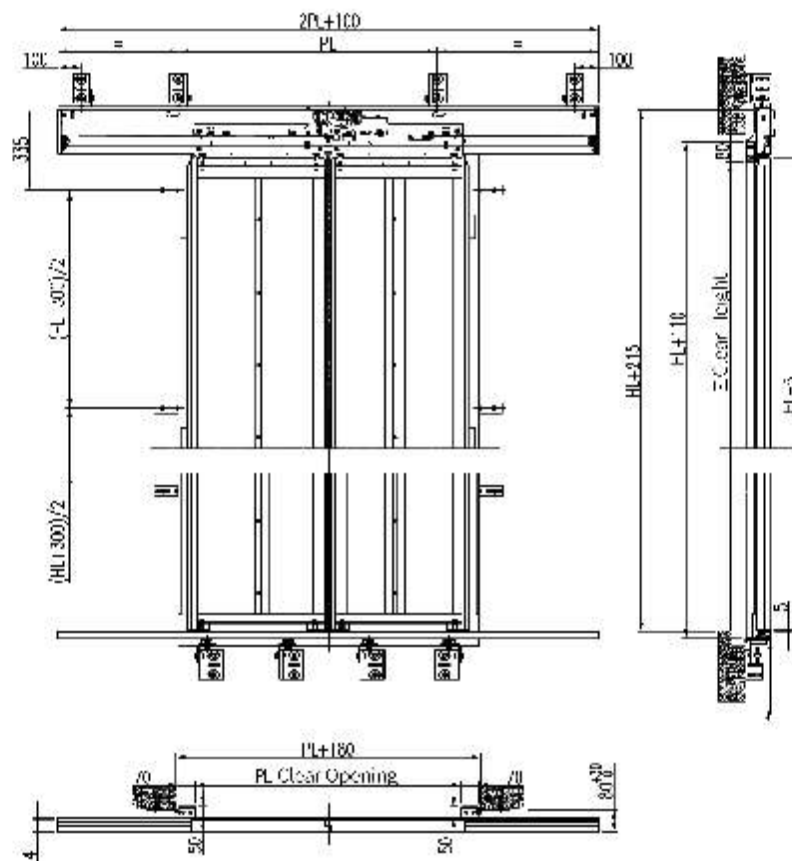
In compliance with the requirements of GB/T 7588-2020 and EN81-20/50 standards.

European interfaces for door vanes with gateballs located bilaterally for smooth door open/close.

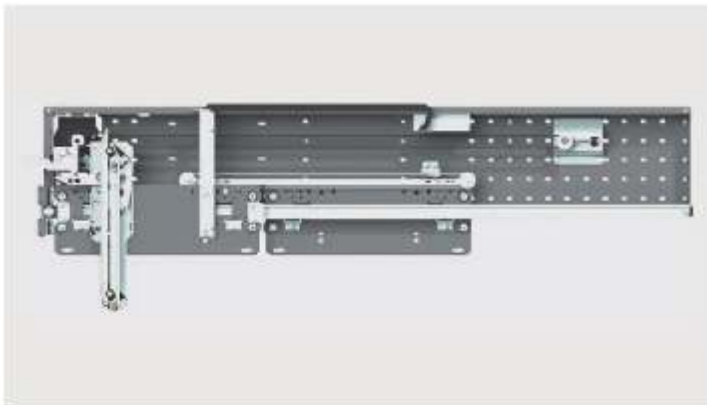
The landing door device is easy to install and adjust. The closing spring is used to meet the self-closing demand.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Door jamb	50*70 mm	Door height	HL+05 mm
Sil width	54 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Fireproof J2511 Side opening 2-panel Car door



Features

Car door system with gateballs located on both sides of the door vane and synchronous transmission for simple mechanical structure, reduced mechanical failures and greatly improved reliability of products. Light weight and easy installation and maintenance.

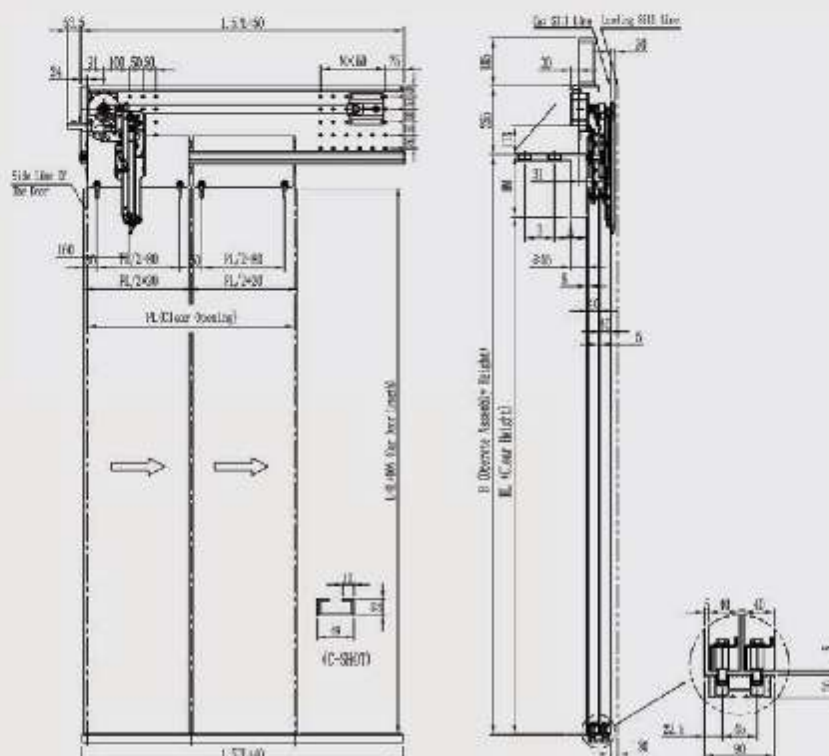
Closed-loop control, real-time control of running speed and position and functions of traditional travel switch, bow-shaped metal part and cam switch integrated on software.

Excellent auto-tuning function and built-in optimized operation curve for greatly reduced debugging.

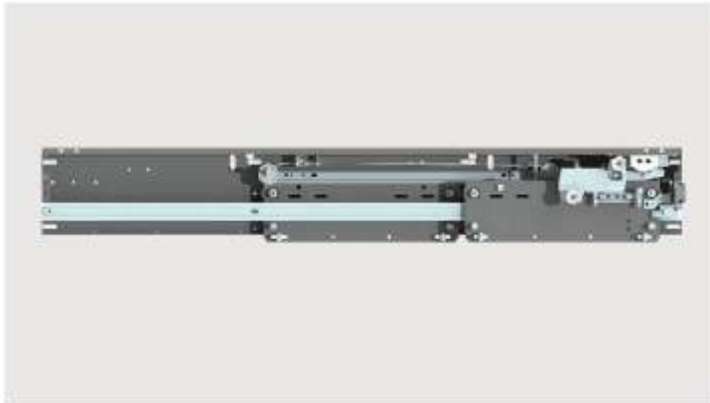
Great part commonality for low inventory needs and operating costs.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Motor model	YCT125ST-13	Door drive	NICE900/ BG221
Rating	2.3 Nm/ 47 W	Door height	HL+105 mm
Max. drag	160 kg	Door panel type	1.0/ 1.2 mm (0.6mm SS c(ladding optional)
Max. opening	600~ 1200 mm	Sil width	90 mm (standard aluminum sil)
Noise level	≤58 dB	IP rating	IP20



Fireproof T2203 Side opening 2-panel Landing door



Features

In line with GB/T27903 E120/EI120 and EN81-58 E120/EI120 fire test requirements.

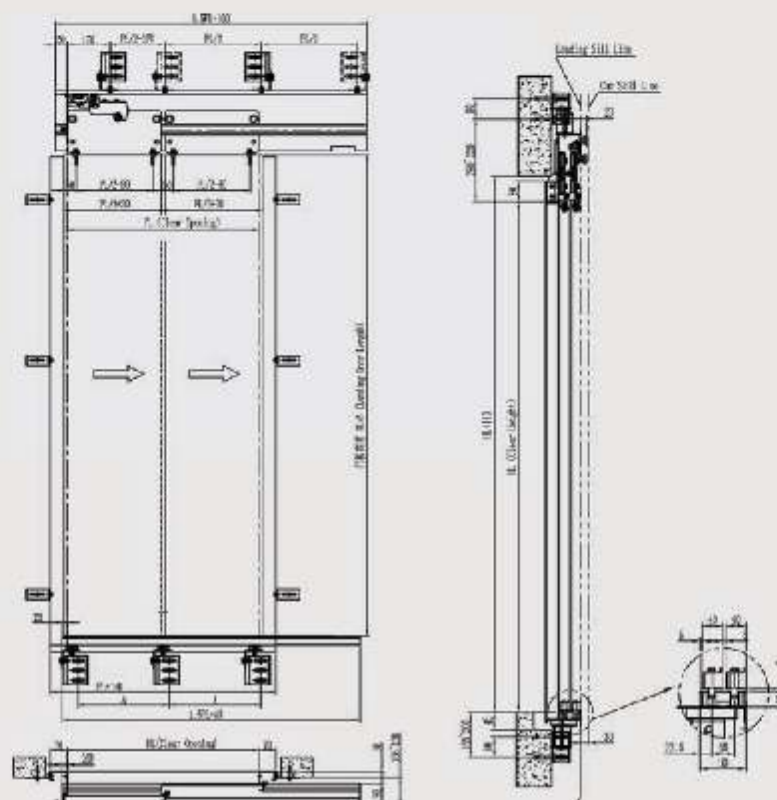
In compliance with the requirements of GB/T 7588-2020 and EN81-20/50 standards.

European interfaces for door vanes with gateballs located bilaterally for smooth door open/close.

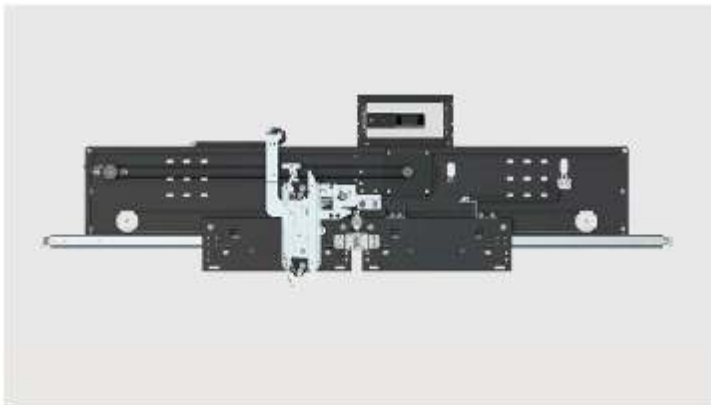
The landing door device is easy to install and adjust. The closing spring is used to meet the self-closing demand.

Technical Specifications

HL	2000~2500 mm	PL	600~1200 mm
Door jamb	50*70 mm	Door height	HL+65 mm
Sil width	90 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Heavy duty J2230 Center opening 2-panel Car door

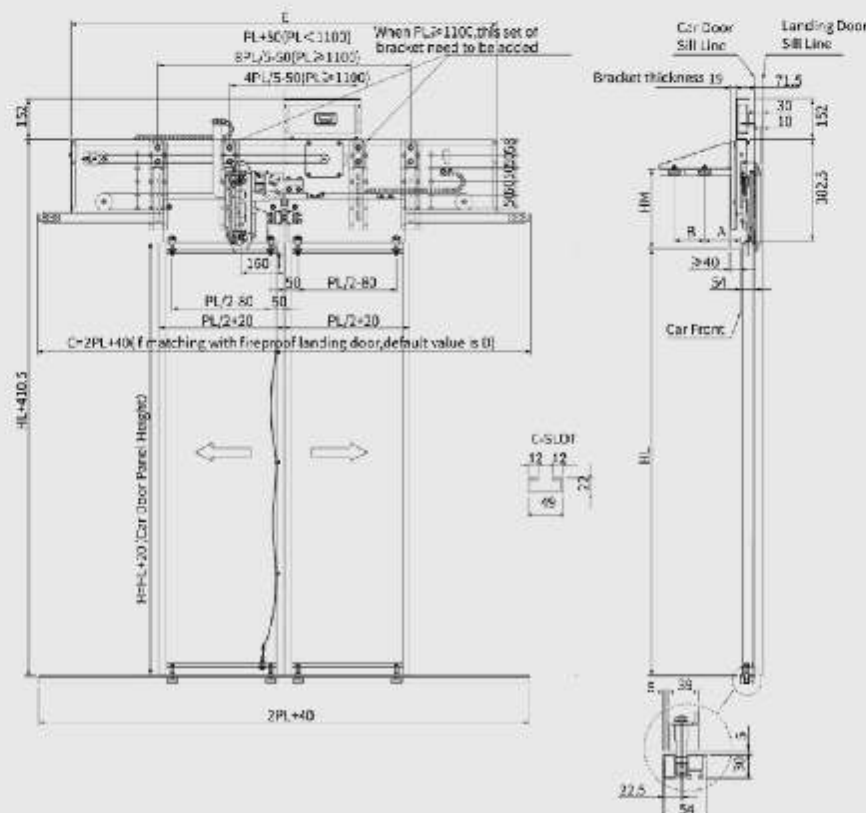


Features

- Classic outward door operator with precise jam-free action and release mechanism at power-off for no passenger entrapment
- Low-speed and high-torque ultra-thin motor for energy-saving and efficient operation and quick and accurate torque control
- Integrated disengagement prevention structure for more reliable performance
- Simple structure with broad compatibility
- Intelligent door control, for easy commissioning

Technical Specifications

HL	2000~2500 mm		PL	600 mm, 650 mm, 1250 mm, 1300 mm
Motor model	YCT140-2	YCT140-2.7	Door drive	AD20/ NICE900
Rating	1.8 Nm/ 47 W	2.7 Nm/ 85 W	Door height	HL+20 mm
Max. drag	160 kg	250 kg	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
Max. opening	600~900 mm	950~1300 mm	Sill width	54 mm (standard aluminium sill)
Noise level	≤55 dB		IP rating	IP20



Heavy duty T2230 Center opening 2-panel Landing door

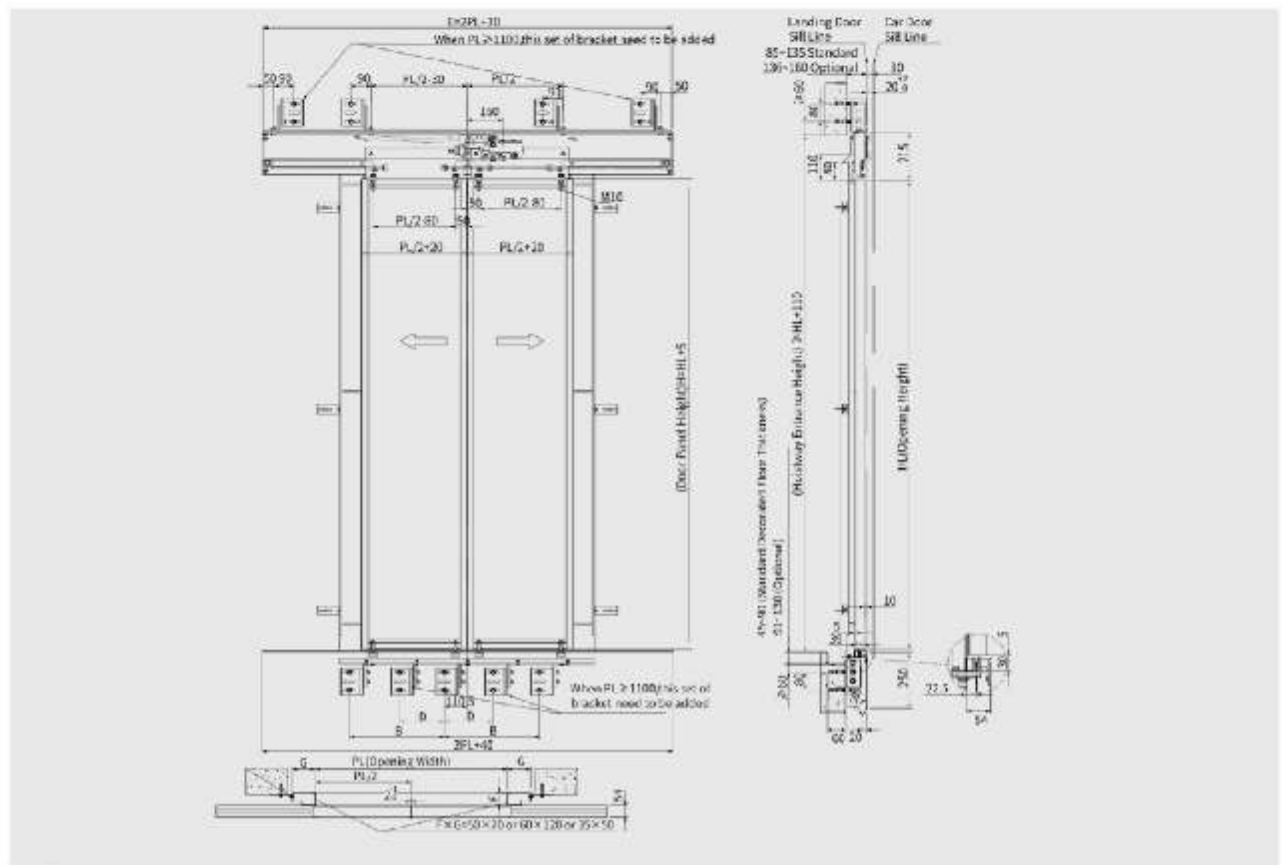


Features

- A compact and streamlined design, suitable for installation in narrow shaft and other scenarios with space limitations.
- Customer installation needs taken into full consideration in the structural design
- Lightweight design with standardized components for enhanced installation efficiency.

Technical Specifications

HL	2000~2500 mm	PL	600~1300 mm
Door jamb	60*120 mm (50*70 mm & 35*50 mm optional)	Door height	HL+05 mm
Sil width	54 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Heavy duty J2230 Side opening 2-panel Car door

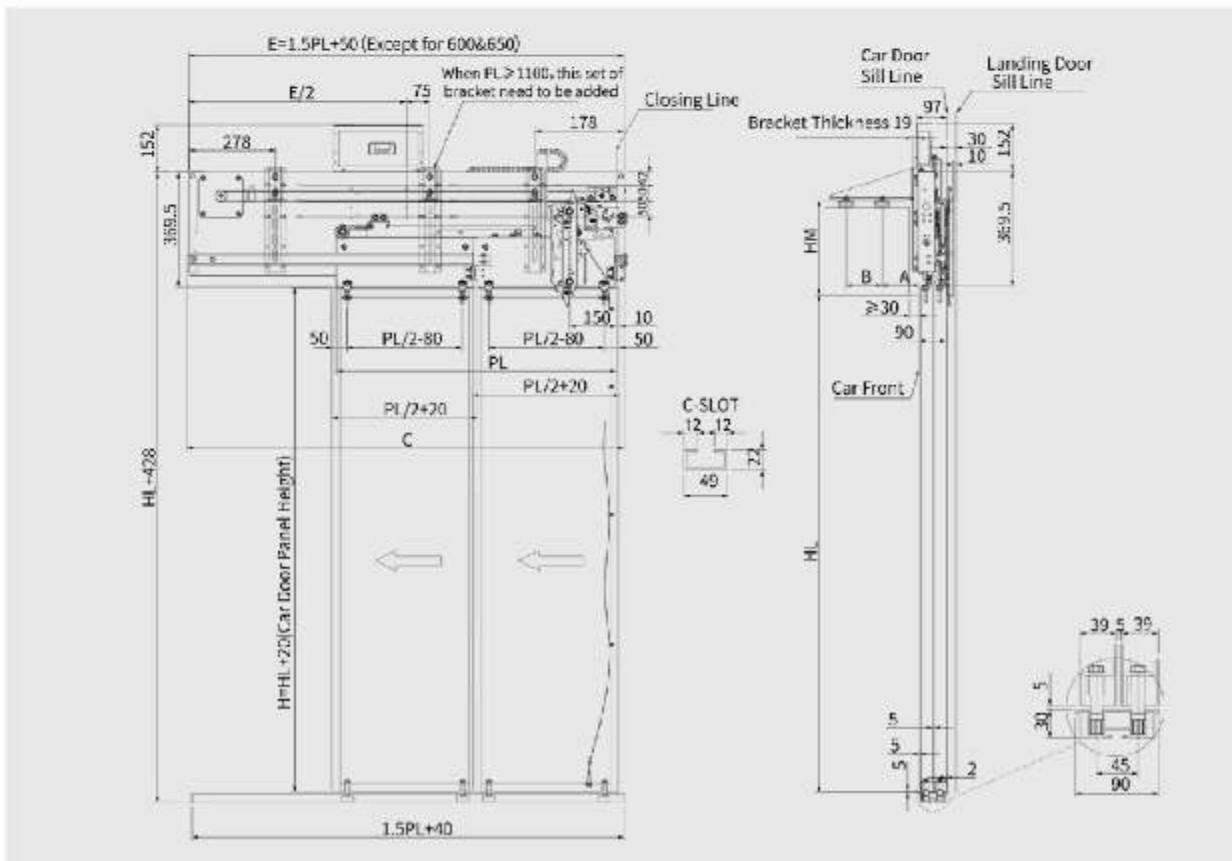


Features

- Classic outward door operator with precise jam-free action and release mechanism at power-off for no passenger entrapment.
- Low-speed and high-torque ultra-thin motor for energy-saving and efficient operation and quick and accurate torque control.
- Integrated disengagement prevention structure for more reliable performance.
- Simple structure with broad compatibility
- Intelligent door control, for easy commissioning

Technical Specifications

HL	2000~2500 mm		PL	600 mm, 650 mm,, 1250 mm, 1300 mm
Motor model	YCT140-2	YCT140-2.7	Door drive	AD20/ NICE900
Rating	1.8 Nm/ 47 W	2.7 Nm/ 65 W	Door height	1118~20 mm
Max. drag	160 kg	250 kg	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
Max. opening	600~900 mm	950~1300 mm	Sil width	50 mm (standard aluminium sil)
Noise level	<55 dB		IP rating	IP20



Heavy duty T2230 Side opening 2-panel Landing door

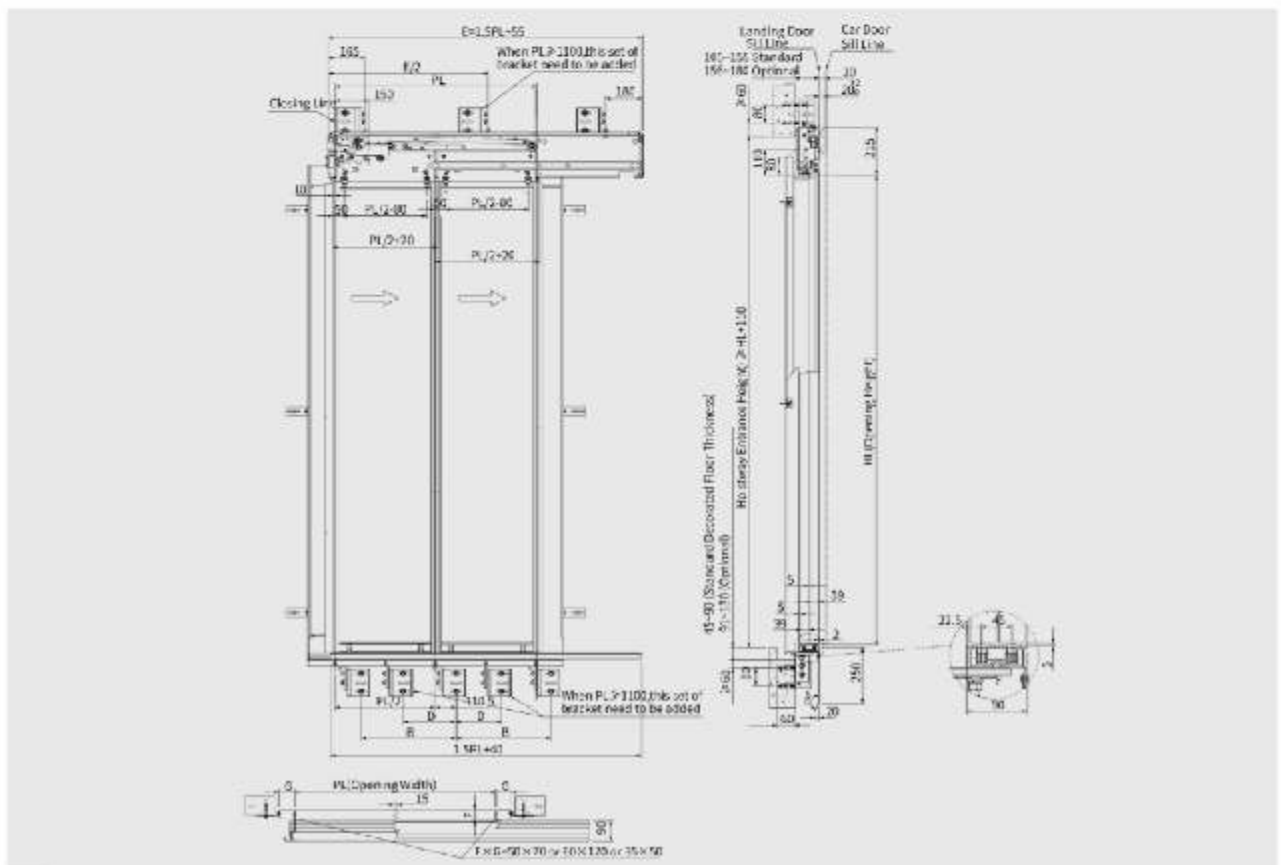


Features

- Classic outward door operator with precise jam-free action and release mechanism at power-off for no passenger entrapment.
- Low-speed and high-torque ultra-thin motor for energy-saving and efficient operation and quick and accurate torque control.
- Integrated disengagement prevention structure for more reliable performance.
- Simple structure with broad compatibility
- Intelligent door control, for easy commissioning

Technical Specifications

HL	2000~2500 mm	PL	600~1300 mm
Door jamb	60*120 mm (50*70 mm & 35*50 mm optional)	Door height	HL+05 mm
Sil width	90 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Economic model T2101 Center opening 2-Panel Landing door



Features

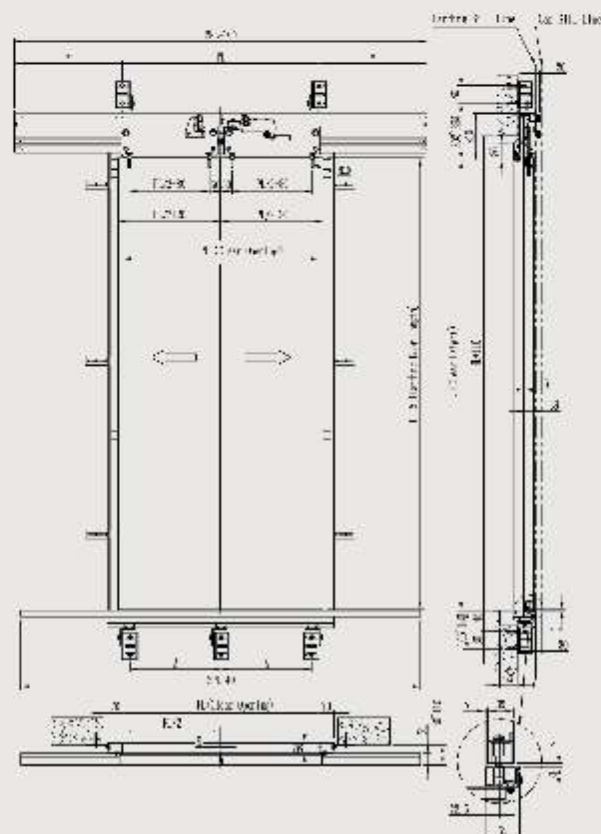
In line with the requirements of GB/T 7588-2000 and EN81-20/50 standards.

In compliance with the trend of energy conservation and environmental protection. European interfaces for door vanes with gateballs located bilaterally for European market needs.

Easy of installation and adjustment for the landing door device and spring lock used for better performance

Technical Specifications

HL	2000~2500 mm	PL	700 mm, 800mm, 900 mm
Door jamb	50*70 mm	Door height	HL+05 mm
Sil width	54 mm (standard aluminium sil)	Door panel type	1.0/ 1.2 mm (0.6mm SS cladding optional)
IP rating	IP20		



Door Drives

NICE900



Features

- DSP high-performance processor and advanced vector servo control technology used to drive AC asynchronous motor and permanent magnet synchronous motor
- Wide applications in elevator doors, cold storage doors and subway doors to realize speed control and distance control
- Intelligent protection function for cutting power off to avoid pinching your hands
- Easy commissioning: one button for auto-tuning

Rated Power	200 W	400 W	700 W
Output current	1.3 A	2.3 A	4.0 A
Working voltage	Single phase, 220 Vac $\pm 10\%$, 50/60 Hz		
Protection from	Over voltage, Under voltage, Obstruction, Phase short protection, Anti-pinch protection		
IP rating	IP20		

AD20



Features

- Integrates door open/close logic control and motor drive, and controls the entire door system with door open/close commands from the external system through CAN communication or I/O terminals
- Notably higher door open/close efficiency, boosting performance by 15% to 20% over other controllers
- Servo control, high speed loop bandwidth, and swift disturbance response
- Full plug connection, greatly saving time and minimizing the possibility of errors

Rated Power	200 W
Output current	1.1 A
Working voltage	Single phase, 220 Vac $\pm 10\%$, 50/60 Hz
Protection from	Over voltage, Under voltage, Inter phase short circuit, Anti-clamping upon power off
IP rating	IP20

BG221



Features

- Ultra-thin Design: The thickness is only 39 mm, which is suitable for ultra-thin door operator application
- Safe and Reliable: With 2 dozens of prewarning and protection functions, making product safer
- Simple Debugging: With one button self-learning function, easy debugging, the factory default can meet most of the field conditions, no need to debug.

Rated Power	200 W
Output current	1.7 A
Working voltage	Single phase, 220 Vac $\pm 20\%$, 50/60 Hz
Protection from	Over voltage, Under voltage, Obstruction, Overspeed warning, Communication error
IP rating	IP20

Door Motors

140ST-33



Features

- Ultra-thin structure flexible installation High efficiency, energy conservation and maximum load of 120 kg

Rated power	47 W
Rated voltage	90 V
Rated current	0.55 A
Rated torque	1.8 Nm
Rated speed	250 rpm
IP rating	IP44
Insulation class	F

125ST-13



Features

- Large start-up torque, high efficiency, energy conservation and maximum load of 160 kg

Rated power	47 W
Rated voltage	125 V
Rated current	0.45 A
Rated torque	2.3 Nm
Rated speed	195 rpm
IP rating	IP44
Insulation class	F

BPM23E-47



Features

- High IP rating, high efficiency, energy conservation and maximum load of 200 kg

Rated power	47 W
Rated voltage	78 V
Rated current	0.57 A
Rated torque	2.3 Nm
Rated speed	195 rpm
IP rating	IP54
Insulation class	F

140TAST-08



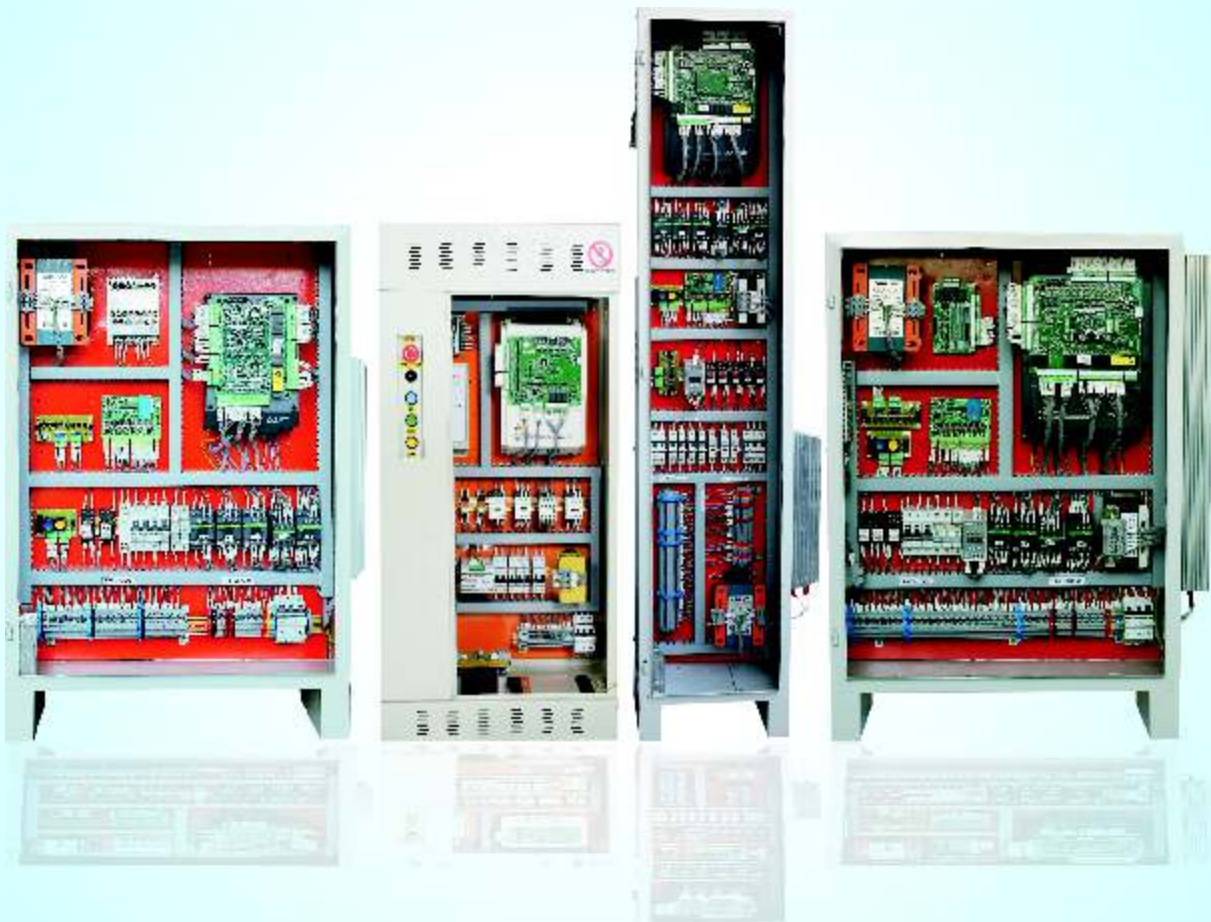
Features

- High efficient outer rotor structure with a maximum load of 300 kg

Rated power	86 W
Rated voltage	220 V
Rated current	1.0 A
Rated torque	5 Nm
Rated speed	155 rpm
IP rating	IP44
Insulation class	F



SR INDUSTRIES



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