



SabMatic^{sarl}
Electronic Power Technology

ARD

Automatic Rescue Device for Elevators

Applicable for all kind of elevators with Permanent Magnet Synchronous Motor (PMSM) and Induction Motor.



TECHNICAL SPECIFICATIONS

MODEL	ARD-15	ARD-25
MOTOR CAPACITY	15HP/11KW	25HP/18.5KW
INPUT DC VOLTAGE	60V DC	
INPUT AC VOLTAGE	220V AC	
OUTPUT INVERTER VOLTAGE	400V Three Phase 50 Hz Pure Sinewave	
PHASE DISPLACEMENT	120°	
OUTPUT CURRENT	6 Amps	10 Amps
HARMONIC DISTORTION	<3% on Linear load	
BATTERY CHARGER	Switching Floating Type	
BATTERY TYPE	Sealed LEAD-ACID Maintenance Free	
DIMENSION (LxWxD)mm	430x380x155 mm	

www.sabmatic.com

A complete Backup solution for rope lift system

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USER MANUAL

Emergency Device for Evolution Elevator

Sabmatic.Trading L.L.C.
www.sabmatic.com

(ARD-9805-V1)

CAUTION

- ◆ Thank you for using our product. For the sake of your normal use and ensure the safety of elevator and this product, please read the user manual completely before attempting to install.
- ◆ Please carefully check the model and parameters on the nameplate of this product with relevant parts of elevator. If there is any non-identical please contact with engineering dept of our company immediately to consult the solution instead of installation and adjustment. (TEL: +97142676214)
- ◆ Don't touch the high voltage part in the product during adjusting.
- ◆ If this product hasn't put in use over six months from the date of ex-Works (for example, when it has not been unpacked or the elevator hasn't put in use though this product has been installed), Please charge the batteries according to below method.

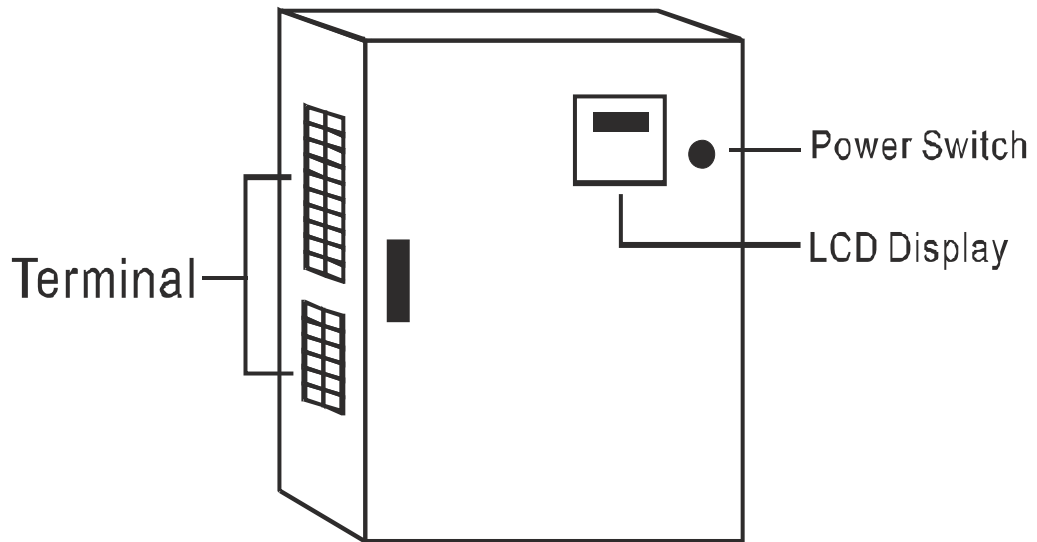
Connecting input power in 3ph/380Vac or 3ph/220Vac can be charging automatically.

- ◆ This manual is subject to change without notice.

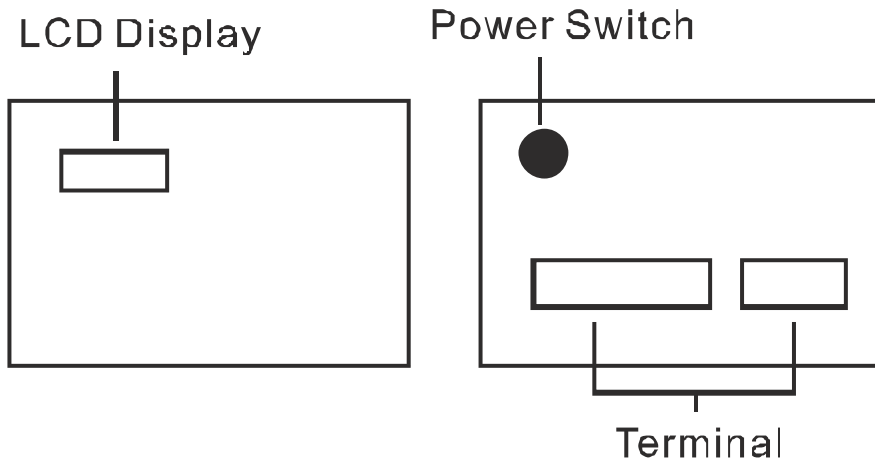
1. Summarization

ARD series (Automatic Rescue Device) is an elevator safety device for emergency rescue when a power failure occurs.

(1)



(2)

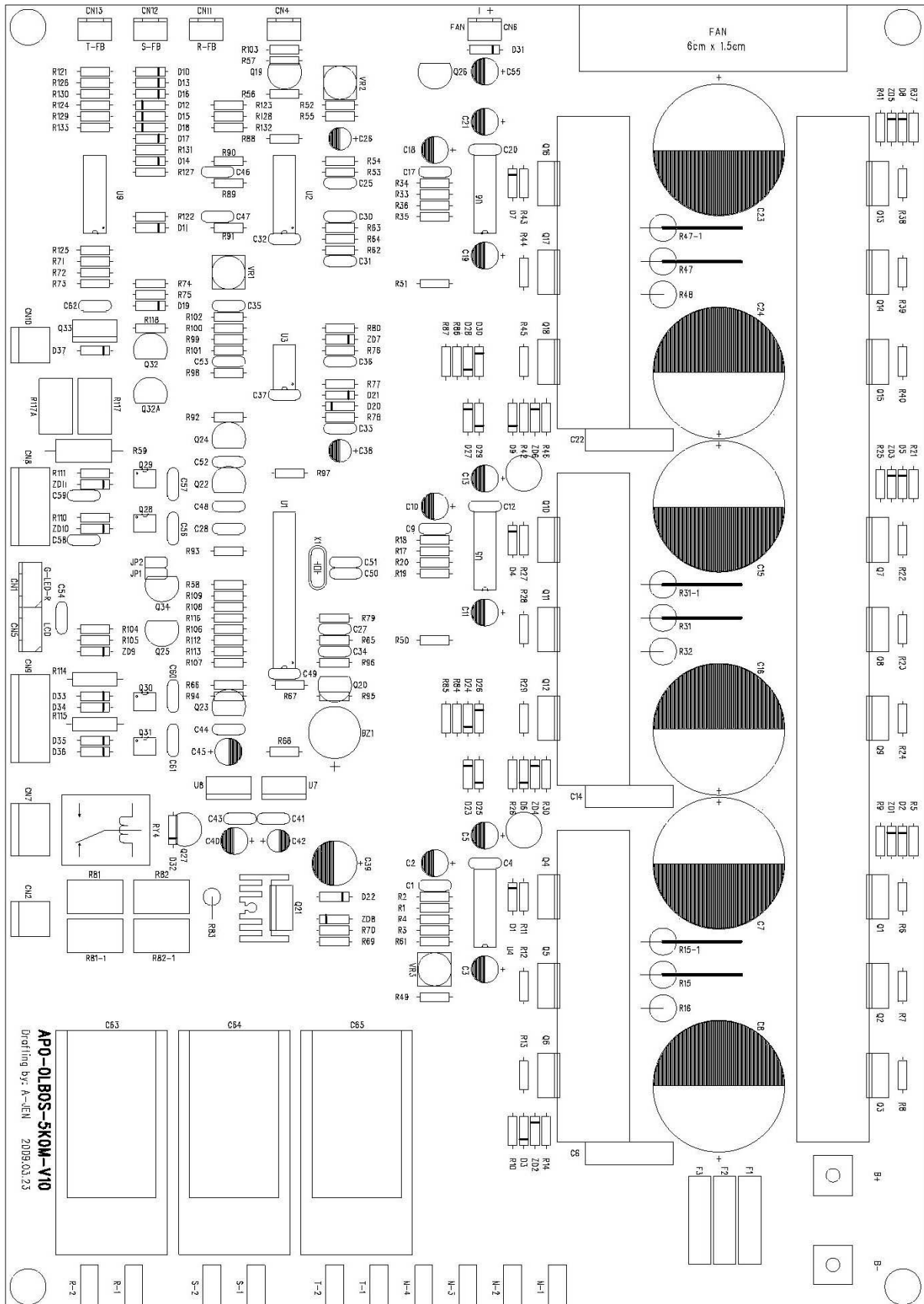


2. Operation principle

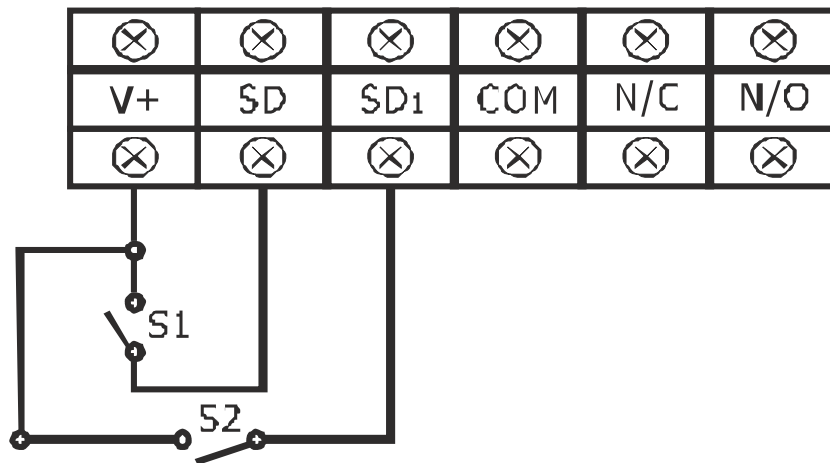
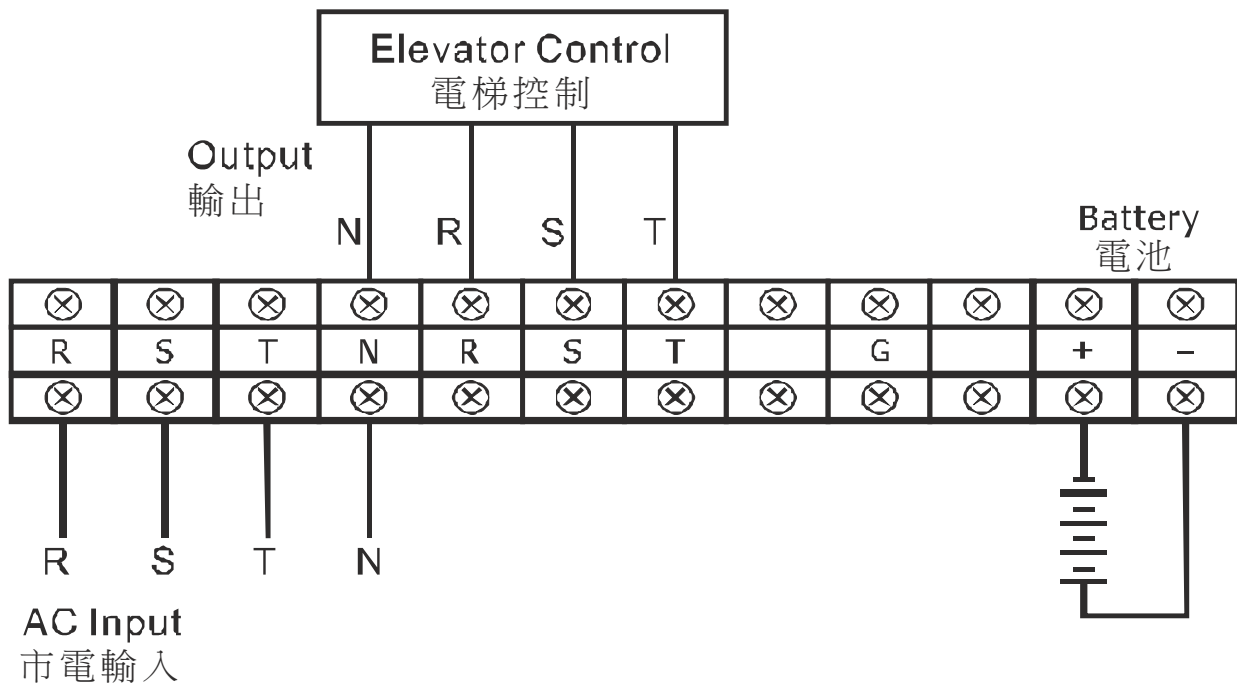
VR1 = output voltage adjust

VR2 = over load adjust

VR3 = charger adjust



3. Installation



P.S.:

S1 & S2: the external switch

1. S1: Open door switch: As the S1 in close circuit, ARD will shutdown the elevator immediately; and restart the elevator automatic when main power is back.
2. S2: level switch: once the elevator reaches the level and the S2 in close circuit, ARD will shutdown the elevator after 10sec-delay; and restart the elevator automatic when the main power is back.
3. COM, NO & NC: user can install assessors to our ARD like alarm beeper.. etc.

4. LED Display

WELCOME LBOS SERVICE		Twinkle every 1 sec. Enter next display after 5 time twinkle.
MAIN ON BATTERY CHARGE	BATTERY CHARGE	
MAIN OFF INVERTER MODE	INVERTER MODE	Battery Normal
WARNING! BATTERY LOW	BATTERY LOW	
WARNING! BATTERY LOW SD	BATTERY LOW SHUTDOWN	Waiting Main On
WARNING! OVER LOAD	OVER LOAD	Reduce Load
WARNING! OVER LOAD SD	OVER LOAD SHUTDOWN	Over Load 100% Shutdown Over Load 150% Shutdown SW OFF/ON Restart
WARNING! OUTPUT SHORT	OUTPUT SHORT	SW OFF/ON Restart
WARNING! LBOS INT SD	SHUTDOWN	Waiting Main On
WARNING! AFTER 10SEC SD	SHUTDOWN AFTER 10SEC	Waiting Main On
WARNING! AFTER 180SEC SD	SHUTDOWN AFTER 180SEC	Waiting Main On
WARNING! OUTPUT ERROR	OUTPUT ERROR	Inverter Fault
WARNING! OVER TEMP	HIGH TEMPERATURE	