Sicher Elevator Co., Ltd.

GRPS20/GRPN20

Product Configuration Table

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| NO. | | Components Name | | Type | Brand | Supplier | Origin |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Traction System** | | | | | | | |
| 1 | | Machine | Traction machine | Gearless | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| Rotary encoder | ERN1387 | HEIDENHAIN | Germany HEIDENHAIN | Germany |
| **Control System** | | | | | | | |
| 1 | | Drive System | | RH6000 | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 2 | | CPU control board | | MCTC-MCB | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 3 | | CCBS | | MCTC-CTB | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 4 | | CEB | | MCTC-CCB | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 5 | | FCB | | MCTC-HCB | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 6 | | Main contactors | | 3RT | SIEMENS | Germany SIEMENS | Jiangsu |
| 7 | | Aux contactor | | 3RT | SIEMENS | Germany SIEMENS | Jiangsu |
| 8 | | Brake contactor | | 3RT | SIEMENS | Germany SIEMENS | Jiangsu |
| **Door Operator System** | | | | | | | |
| 1 | | Door Operator | | — | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| Landing door device | | — | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| **Safety components** | | | | | | | |
| 1 | | Safety curtain for door | | 957 | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 2 | | Governor | | OX | Aodepu | Ningbo Aodepu | Zhejiang |
| 3 | | Safety gear | | AQ | Tong’an | Hebei Tong’an | Hebei |
| 4 | | Buffer | | OH | Aodepu | Ningbo Aodepu | Zhejiang |
| **Other components** | | | | | | | |
| 1 | Car frame & counterweight | | | — | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 2 | Car | | | — | SRH | Sicher Elevator Co., Ltd. | Zhejiang |
| 3 | Car door | | | — | SRH | Sicher Elevator Co., Ltd. | Zhejiang |

Sicher Elevator Co., Ltd. carries out global purchasing and the rights to adjust some suppliers or places of origin in need of technical renovation, are reserved on the premise of product quality assurance.

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| **Standard Function** | | |
| **Travel Function** | VVVF drive | Motor rotating speed can be precisely adjusted to get smooth speed curve in lift start, travel and stop and gain the sound comfort. |
| VVVF door operator | Motor rotating speed can be precisely adjusted to get the more gentle and sensitive door machine start/stop |
| Independent running | The lift cannot respond to outer calling,but only respond to the command inside the car through the action switch |
| Automatic pass without stop | When the car is crowded with the passenger or the load is close to preset value,the car will automatically pass the calling landing in order to keep maimum travel efficiency |
| Automatically adjust door opening time | Door-open time can be automatically adjusted according to the difference between landing calling or car calling |
| Reopen with hall call | In the door shutting process,press reopen with hall call button can restart the door |
| Express door closing | When the lift stops and opens the door, press door-shut button,the door will be closed immediately |
| Car stops and door open | The lift decelerates and levels,the door only opens after the lift comes to a complete stop |
| Car arrival gong | Arrival gong in the car top announces that the passengers arrive |
| Command register cancel | If you press the wrong floor coomand button in the car, twice continuous pressing of the same button can cancel the registered command |
| Direct parking | It completely accords with distance principle with no crawling in the leveling. It greatly enhances the travel efficiency |
| **Safety function** | Photocell protection | In the door open and shut period, infrared light that covers the whole door height is used to probe the door protection device of both the passengers and objects |
|  | Designated stop | If the lift cannot open the door in the destination floor out of some reason,the lift will close the door and travel to the next designated floor |
| Overload holding stop | When the car is overload,the buzzer rings and stops the lift in the same floor |
| Anti-stall timer protection | The lift stops operation due to slippery traction wire rope |
| Start protection control | If the lift does not leave door zone within the designated time after it gets started,it will stop the operation |
| Inspection operation | When the lift enters into inspection operation,the car travels at inching running |
| Fault self-diagnosis | The controller can record 62 latest troubles so as to quickly remove the trouble and restore the lift operation |
| Repeated door closing | If the lift can not close the door due to certain obstacle or interference, the lift will reopen or re-shut the door until sundries results in more safe and reliable lift travel |
| Up/down over-run and final limit protection | The device can effectively prevent from the lift's surging to the top or knocking the bottom when it is out of control.It results in more safe and reliable lift travel |
| Down over-speed protection device | When the lift downs 1.2 times higher than the rated speed, this device will automatically cut off control mains,stop the motor running so as to stop lift down at over-speed. If the lift continues to down at over-speed, and the speed is 1.4 times higher than rated speed, safety tongs act to force the lift stop in order to ensure the safety |
| Upward over-speed protection device | When the lift up speed is 1.2 times higher than rated speed, the device will automatically decelerate or brake the lift |
| **Man-machine interface** | Micro-touch button for car call and hall call | Novel micro-touch button is used for operation panel command button in the car and landing calling button |
| Floor and direction indicatior inside car | The car shows the lift floor location and current travel direction |
| Floor and direction indicator in hall | The landing shows the lift floor location and current travel direction |
| **Emergency function** | Emergency car lighting | Emergency car lighting automatically activated once power failure |
| Inching running | When the lift enters into emergency electric operation,the car travels at low speed inching running |
| Five way intercom | Communication amid car,car top,lift machine room,well pit and rescue duty room through walkie-talkie |
| Fire emergency return | If you start key switch in main landing or monitor screen,all the callings will be cancelled.The lift directly and immediately drives to the designated rescue landing and automatically opens the door |
| **Energy-saving function** | Car ventilation, light automatic shut off | If there is no calling or command signal within the stipulated time, the car fan and lighting will be automatically closed in order to save the energy |
| Remote shut-off | The lift can be called to main landing(after finishing the service) through the key switch and automatically exists the service |
| **Optional Function** | | |
| **Emergency function** | Leveling when power failure | In normal power failure, the chargeable battery supplies the lift power. The lift drives to the nearest landing |
| Bell | In emergency conditions,if bell button above car operation panel is continuously pressed,electric bell rings on top of the car |
| **Travel Function** | Anti-nuisance | In the light lift load,when three more commands appear, in order to avoid the unnecessary parking, all the registered calling sin the car will be cancelled |
| Open the door in advance | When the lift decelerates and enters into door open zone, it automatically opens the door to enhance the travel efficiency |
| Group control function | When three or more same model lifts can unanimously respond the calling signal through the computer dispatch.In this way, it reduces the passenger' waiting time to the greatest extent and enhances the travel efficiency as well |
| Duplex control | Two sets of same model lifts can unanimously respond the calling signal through the computer dispatch.In this way,it reduces the passengers' waiting time to the greatest extent and enhances the travel efficiency as well. |
| On-duty peak service | Within the preset on-duty time,upward transport from the home landing is extremely busy.The lifts are continuously dispatched to the home landing in order to satisfy on-duty peak service |
|  | Off-duty peak service | Within the reset off-duty period,the lifts are continuously dipatched to top floor in order to satisfy off-duty peak service |
| Door open time extending | Press special button in the car, the lift door keeps open for certain period of time |
| **Man-machine interface** | Voice announcer | When the lift normally arrives,voice announcer informs the passengers about the relevant information |
| The second operation box | It is used in the large loading weight lifts or the lifts with crowded passengers so that more and more passengers can use the car |
| Operation box for handicapped | It is convenient for the wheelchair passengers and those who have vision problems |
| Intelligent calling service | The car command or hoist-way calling can be locked or connected through special interlligent Input |
| IC card control function | All(patial)landings can only input car commands through IC card after the authorization |
| **Monitor function** | Remote monitor | The lift long-distance monitor and control can be fulfilled through moderm and telephone.It is convenient for the factories and service units to timely know the travel conditions of every lift and promptly take the correspinding measures |
| Camera function in the car | The camera is installed in the car to monitor the car conditions |



