

AiC-D-60SA AiC-D-60MA AiC-D-60LA Ai-M-60LA AiC-60LA *The above specifications are subject to change and some models may be discontinued without notice. *Be sure to follow cautions written in the instruction manual, user manual and the technical descriptions (catalog, homepage).

Ai-M-60S

Ai-M-60M

AiC-60S/ AiC-60M

| Power su Allowable Power consumptic Max. RUN STOP cur Rotation s Resolution Status ind Positionin Speed filt I/O voltag I/O External p Operation Index step | pply voltage range STOP ^{X1} Max. during operation ^{X2} 4 current ^{X3} rent ^{X4} speed a ^{X4} licator g range er ^{X4} e level Input Output oower supply mode | 24/DC== 90 to 110% of the rated Max. 10W Max. 60W 1.7A/Phase 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 11 • Power/Warning indica • In-Position indicator: • | voltage Max. 1 3.5A/F N current (fa 000, 1600, 2 tor: green L yellow LED indicator: g 47,483,647 tory default) VDC veral input: 9 | 2W 20W hase ictory defau 000, 3200, ED een, yellow , 10, 20, 40 | ult: 50%) 3600, 500 Alarm ind Servo Or / LED | Max. 15 Max. 24 0, 6400, 7 licator: rei /Off indic | W 0W 7200, 100 d LED ator: orar | 00PPR | | | | |
|--|---|---|---|--|--|--|--|---------------------------------|--|--|--|--|
| Allowable Power consumptic Max. RUN STOP cur Rotation s Resolution Status inc Positionin Speed filt I/O voltag I/O External p Operation Index step | voltage range STOP*1 Max. during operation*2 4 current ⁸³ rent ⁸⁴ speed a ⁸⁴ licator g range e ⁸⁴ e level Input Output Oower supply mode | 90 to 110% of the rated Max. 10W Max. 60W 1.7A/Phase 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica • In-Position indicator: • In-Position indicator: • RS485 DATA IN/OUT -2,147,483,648 to +2,1· 0 (disable), 2, 4, 6, 8 (far (H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive input: 20, get | Voltage Max. 1 3.5A/F N current (fa 1000, 1600, 2 ttor: green L yellow LED indicator: g 47,483,647 ttory default) VDC heral input: 9 | 2W 20W hase ictory defau 000, 3200, ED een, yellow , 10, 20, 40 | ult: 50%) 3600, 500 Alarm ind Servo Or (LED | Max. 15 Max. 24 0, 6400, 7 licator: rea | W 0W 7200, 100 d LED ator: orar | 00PPR | | | | |
| Power consumptic Max. RUN STOP cur Rotation s Resolution Status inc Positionin Speed filt //O voltag //O voltag //O peration Index set | STOP*3 Max. during operation*2 operation*2 t current*3 rent*4 speed *** grange er*4 e level Input Output ower supply mode | Max. 10W Max. 60W 1.7A/Phase 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica • In-Position indicator: • In-Position indicator: • RS485 DATA IN/OUT -2,147,483,648 to +2,1 0 (disable), 2, 4, 6, 8 (far [H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | Max. 1 Max. 1 3.5A/F N current (fa 100, 1600, 2 tor: green L yellow LED indicator: g 47,483,647 ctory default) VDC ereal input: 9 | 2W 20W hase ictory defau 000, 3200, ED een, yellow , 10, 20, 40 | ult: 50%) 3600, 500 Alarm ind Servo Or (LED | Max. 15 Max. 24 0, 6400, 7 licator: red | W 0W 7200, 100 d LED ator: orar | 00PPR | | | | |
| Consumptic Max. RUN STOP cur Rotation s Resolution Status ind Positionin Speed filt I/O voltag I/O External p Operation Index ste | ng Max. during joperation*2 4 current*3 rent*4 speed n*4 g range er*4 e level Input Output Dower supply mode | Max. 60W 1.7A/Phase 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica • In-Position indicator: • RS485 DATA IN/OUT -2,147,483,648 to +2,1 0 (disable), 2, 4, 6, 8 (far (H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | Max. 1 3.5A/F N current (fa 100, 1600, 2 ator: green L yellow LED indicator: g 47,483,647 ctory default) VDC neral input: 9 | 20W hase ictory defau 000, 3200, ED een, yellow , 10, 20, 40 | Ilt: 50%) 3600, 500 Alarm ind Servo Or (LED | Max. 24 | 0W 7200, 100 d LED ator: orar | 00PPR | | | | |
| Max. RUN STOP cur Rotation s Resolution Status inc Positionin Speed filtt I/O voltag I/O External p Operation Index step | 4 current ^{¥3} rent ^{¥4} pseed licator g range er ^{#4} e level linput Output Dower supply mode | 1.7A/Phase 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica • In-Position indicator: • In-Position indicator: • RS485 DATA IN/OUT -2,147,483,648 to +2,1 • 0 (disable), 2, 4, 6, 8 (far [H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | 3.5A/F N current (fa ator: green L yellow LED indicator: g 47,483,647 ctory default) VDC neral input: 9 | hase ictory defau 000, 3200, ED een, yellow , 10, 20, 40 | ult: 50%) 3600, 500 Alarm ind Servo Or (LED | 0, 6400, 7 licator: re /Off indic | 7200, 100 d LED ator: orar | 00PPR | | | | |
| STOP cur Rotation s Resolution Status ind Positionin Speed filtt I/O voltag I/O External p Operation Index step | rent ^{%4} speed ^{%4} licator g range er ⁸⁴ e level Input Output Dower supply mode | 20 to 100% of max. RU 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica • In-Position indicator: • RS485 DATA IN/OUT • 2,147,483,648 to +2,1 0 (disable), 2, 4, 6, 8 (far (H): 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | N current (fa 100, 1600, 2 ator: green L yellow LED indicator: g 47,483,647 ctory default) VDC neral input: 9 | 000, 3200, ED • een, yellow | alt: 50%) 3600, 500 Alarm ind Servo Or LED | 0, 6400, 7 licator: red l/Off indic | 200, 100 d LED ator: orar | 00PPR | | | | |
| Rotation s Resolution Status ind Positionin Speed filt I/O voltag I/O External p Operation Index step | speed m ⁸⁴ licator g range er ⁸⁴ e level Input Output bower supply mode | 0 to 3000rpm 500 (factory default), 10 • Power/Warning indica In-Position indicator: • RS485 DATA IN/OUT -2,147,483,648 to +2,1 0 (disable), 2, 4, 6, 8 (fac [H]: 5-300/DC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | 000, 1600, 2 ator: green L yellow LED indicator: g 47,483,647 ctory default) VDC neral input: § | 000, 3200, ED • reen, yellow | 3600, 500 Alarm ind Servo Or LED | 0, 6400, 7 licator: ree /Off indic | 7200, 100 d LED ator: orar | 00PPR | | | | |
| Resolution Status ind Positionin Speed filt //O voltag //O External p Operation Index step | n ^{*4} licator g range er ^{®4} e level Input Output power supply mode | 500 (factory default), 10 Power/Warning indica In-Position indicator; RS485 DATA IN/OUT -2,147,483,648 to +2,1 0 (disable), 2, 4, 6, 8 (far [H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, ger Exclusive output: 4, ger | 000, 1600, 2 ator: green L yellow LED indicator: g 47,483,647 ctory default VDC meral input: § | 000, 3200, ED een, yellow , 10, 20, 40 | 3600, 500 Alarm ind Servo Or (LED | 0, 6400, 7 licator: re I/Off indic | 7200, 100 d LED ator: orar | | | | | |
| Status ind Positionin Speed filtu I/O voltag I/O External p Operation Index step | g range er®4 er®4 Input Output ower supply mode | Power/Warning indica In-Position indicator: RS485 DATA IN/OUT -2,147,483,648 to +2,1• O (disable), 2, 4, 6, 8 (far (H]: 5-30VDC, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | ator: green L yellow LED indicator: g 47,483,647 ctory default) VDC meral input: § | ED • • reen, yellow , 10, 20, 40 | Alarm ind Servo Or LED | licator: re /Off indic | d LED ator: orar | | | | | |
| Status ind Positionin Speed filt I/O voltag I/O External p Operation Index step | g range er ^{®4} e level Input Output power supply mode | In-Position indicator: RS485 DATA IN/OUT -2,147,483,648 to +2,1 O (disable), 2, 4, 6, 8 (far [H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | yellow LED indicator: g 47,483,647 ctory default) VDC meral input: 9 | • een, yellow , 10, 20, 40, | Servo Or | /Off indic | ator: orar | | | | | |
| Positionin Speed filtu I/O voltag I/O External p Operation Index step | g range er ^{®4} e level Input Output power supply i mode | RS485 DATA IN/OUT -2,147,483,648 to +2,1- 0 (disable), 2, 4, 6, 8 (far [H]: 5-30VDC, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | traicator: g 47,483,647 ctory default) VDC meral input: 9 | een, yellow , 10, 20, 40 | / LED | | In-Position indicator: yellow LED Servo On/Off indicator: orange LED | | | | | |
| I/O voltag | e level Input Output ower supply mode | -2,147,483,048 to +2,17 0 (disable), 2, 4, 6, 8 (far [H]: 5-30VDC=, [L]: 0-2 Exclusive input: 20, get Exclusive output: 4, get | tory default) VDC veral input: 9 | , 10, 20, 40 | 00.00.40 | | | | | | | |
| I/O voltag | er e level Input Output ower supply mode | (disable), 2, 4, 6, 8 (rad [H]: 5-30VDC:, [L]: 0-2 Exclusive input: 20, ger Exclusive output: 4, ger | VDC vral input: 9 | , 10, 20, 40 | -2,147,483,648 to +2,147,483,647 | | | | | | | |
| I/O voltag I/O External p Operation Index step | ower supply | Exclusive input: 20, ger Exclusive output: 4, ger | neral input: 9 | | U (disable), 2, 4, 6, 8 (factory default), 10, 20, 40, 60, 80, 100, 120, 140, 160, 180, 200 ms | | | | | | | |
| I/O External p Operation Index step | Output ower supply mode | Exclusive output: 4, get | ierai input. 3 | 1 | | | | | | | | |
| External p Operation Index step | ower supply mode | Exclusive output. 4, gel | oral outcut | 10 | | | | | | | | |
| Operation Index step | mode | Exclusive output: 4, general output: 10 | | | | | | | | | | |
| Index step | inoue | VEA (Uelduit. 24VDU): 2, GEA (GND): 2 | | | | | | | | | | |
| ITIUEX SIE | a numbore l | Jug / Continuous / Index / Program mode | | | | | | | | | | |
| Ľ | Stop | 256 stops | | | | | | | | | | |
| | Step | ADC (mayo choolute pr | oition) INC | (maya inar | omontol n | noition) | IOM /han | an anarah) | | | | |
| Program function | Control command | List international position, into (international position, now (intersection), ICS (jump input condition), IRD (waiting input), OPC (on/off of output port), OPT (on pulse from output port), JMP (jump), REP (start repetition), RPE (end repetition), END (end program), POS (position set), TIM (timer), CMP (compare output) | | | | | | | | | | |
| | Start | Power ON program aut | o-start funct | ion | | | · · · | | | | | |
| l l | Home search | Power ON home searc | h auto-start | unction | | | | | | | | |
| Home sea | arch mode | Home, limit home, zero | home, torqu | e home | | | | | | | | |
| Communication | | RS485 Speed ^{®4} : 9600, 19200, 38400, 57900, 115200 (factory default) [bps] | | | | | | | | | | |
| Multiaxial | control | 31-axis | | | | | | | | | | |
| ID setting | switch | 16-bit rotary switch (0 to F), 1-bit piano switch | | | | | | | | | | |
| Alarm output | | Over current, over speed, position tracking, over load, over heat, motor connection, encoder connection, regenerative voltage, motor misalignment, command speed, input voltage, in-position, memory, emergency stop, program mode, index mode, home search mode | | | | | | | | | | |
| Warning o | output | +software limit, +hardware limit, -software limit, -hardware limit, over load | | | | | | | | | | |
| Insulation | resistance | Over 100MΩ (at 500VDC megger) | | | | | | | | | | |
| Dielectric | strength | 1,000VAC 60Hz for 1 min | | | | | | | | | | |
| Vibration | | 1.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours | | | | | | | | | | |
| Shock | | 300m/s ⁻ (approx. 30G) in each X, Y, Z direction for 3 times | | | | | | | | | | |
| Environ- | Ambient temp. | 0 to 50°C, storage: -10 | to 60°C | | | | | | | | | |
| ment , | Ambient humi. | 35 to 85%RH, storage: | 10 to 90%R | H | | | | | | | | |
| Approval | | CE | | | | | | | | | | |
| Protection structure | | IP20 (IEC standard) | | | | | | | | | | |
| Weight ^{**5} | | Approx. 460g (approx. 3 | 300g) | | | | | | | | | |
| %1: Base %2: Max. may i %3: RUN also. %4: Setta %5: The v %Environ | d on the ambie power consum ncrease. The c current varies of ble with the deo veight includes ment resistance | nt temperature 25°C, an ption during operation. I apacity of power supply depending on the input i dicated program. packaging. The weight e is rated at no freezing | nbient humio When chang should be o RUN freque in parenthes or condens | ity 55%RH ing the load ver 1.5 to 2 ncy and ma is is for uni ation. | , and STO d rapidly, ir 2 times of r x. RUN cu t only. | P current nstantane max. powe irrent at th | 50%. ous peak er consur ne momen | current nption. nt varies | | | | |
| Dir | nension | I S | | | | | | (unit: mm) | | | | |
| r | | 144 | •1 | | | | | | | | | |
| r | | 144 | | | | | | | | | | |

Connection Connectors of Driver





| 'R | | Green | Power indicator | Turns ON when the unit operates normally after supplying power. |
|--------------------|-----------------------|--|---------------------------|---|
| | Front | | Warning indicator | Flashes when limit signal is input or over load status is maintained |
| | | Red Alarm indicator When alarm occurs, it flashes in various ways deper on the situation. Refer to [®] Control Input/Output > [©] Output > 3. Alarm/Warning [°] . | | When alarm occurs, it flashes in various ways depending on the situation. Refer to ' Control Input/Output > Output > 3. Alarm/Warning'. |
| 2 | | Yellow | In-Position indicator | Turns ON when motor is placed at command position after positioning input. |
| RVO | | Orange | Servo On/Off indicator | Turns ON when Servo is operating, turns OFF when servo is not operating. |
| D IN ^{≋1} | Right | Yellow | RS485 Data | Flashes when receiving data. |
| OUT ^{*1} | UT ^{*1} side | Green | I/O display | Flashes when sending data. |
| Although | DC 40E / | OLIT in dia | approated DVD I | N/TVD OUT aparatas parmally if DC495 IN is communicating |

Manual

INF

SEI

For the detail information and instructions, please refer to user manual, user manual for communication, libra manual, and quick manual and be sure to follow cautions written in the technical descriptions (catalog, home Visit our homepage (www.autonics.com) to download manuals.

Troubleshooting Stalled

- When driver communication is failed
 ①Check whether the connection between driver and communication cable is correct.
 ③Check whether the port and communication speed is set correctly in the dedicated communication p
 When operation of motor is unstable
 ③Check whether driver and motor are connected correctly.
 ③Check whether operation command is set correctly (e.g. speed, accel/deceleration speed).

| ILA | Power connector (CN1) | %Set Node ID of the driver. %Depending on the I switch setting of the SW2, it is possible to connect max. 31-axis. | |
|--|---|---|--|
| | Pin arrangement Pin No. Function | Setting switch Setting SW2 1 OFF SW2 1 ON Setting SW2 1 OFF SW2 1 ON | |
| | D 2 GND | 0 Disable 16 8 8 24 | VEX 0 (24) 10KL |
| | 1 1 24VDC | 6 ¹⁸ 9 1 1 (factory default) 17 9 9 25 | Posset o |
| | Motor+Encoder connector (CN2) | | Kesel - 3 |
| | Pin arrangement Pin No. Function Pin No. Function | $\begin{array}{ c c c c c c } \hline & & & & & & \\ \hline & & & & & \\ \hline & & & &$ | Start o-(4) |
| PR | 1 GND 8 +5VDC | ID Selection SW1 6 6 22 E 14 30 | Stop of 5 |
| ED | 2 Encoder A 9 Encoder A | CM2: ID potting/Terminating registence DIP switch | |
| | | Set Node ID of the driver. | EMG • 6 |
| 200 mg | | Set to use terminating resistance. | Step0/ 7 |
| 200 ms | 7 6 2 1 6 Notor A 13 Motor B | No. Function ON OFF (factory default) | +Run/+Jog Sten1/ |
| | 7 Motor A 14 Motor B | ON 1 2 1 ID setting ID: 16 to 31 ID: 1 to 15 | -Run/-Jog |
| | | Use terminating resistance (120Ω) Do not use terminating resistance | Step2/SSP0 - 9 |
| | I/O connector (CN3) Pin arrangement Pin No I/O Euloction Pin No I/O Euloction | | |
| | | Control Input/Output | Step3/SSP1 0 10 |
| earch), | 2 — N·C 27 Input IN1 | ON, [H]: photocoupler power ON / OFF, [L]: photocoupler power OFF | Step4/MSP0 - 11 |
| PT (on | 3 Input Reset 28 Input IN2 | ○ Input | |
| uuon), | 4 Input Start 29 - N·C | 1. Exclusive input (20) Signal name Descriptions Pin No Signal name Descriptions Pin No | Step5/MSP1 0 12 |
| | 5 Input Stop 30 Input IN3 | Reset Reset command 3 MD0/HMD0 Operation mode designate 0 / 13 | MD0/HMD0 - (13) |
| | 6 Input EMG 31 Input IN4 | Home search mode designate 0 | |
| | 7 Input Step0/+Run/+Jog 32 Input IN5 | Stant Drive stan command 4 MD1/HMD1 Home search mode designate 1 | |
| | RE E III 8 INPUT Step1/-Run/-Jog 33 Input IN6 | | Pause - (15) |
| | 10 Input Step2/SSP0 34 Input IN8 | Command 6 Serve On/On Serve On/On 10 | \times |
| encoder | 11 Input Step3/SSP1 35 Input INV6 | StepU/+Run/+Jog Step designate 0 / +Run / +Jog 7 Home Home search 17 Step1/-Run/-Jog Step designate 1 / -Run / -Jog 8 Alarm Reset Alarm reset command 18 | Servo On/Off o 16 |
| e. | 12 Input Step5/MSP1 37 Input GEX | Step2/SSP0 Stat cross designate 2 / 9 +Limit +direction limit sensor 19 | Home • 17 |
| | 13 Input MD0/HMD0 38 Output Alarm | Sten3/SSP1 Step designate 3 / 10 Limit direction limit sensor 20 | \times |
| | 14 Input MD1/HMD1 39 Output Compare1 | Start speed designate 1 10 Limit direction mit denote 20 | Alarm Reset 0 18 |
| 2 hours | 15 Input Pause 40 Output Compare2 | Step4/MSP0 Otep designate 0 11 ORG Home signal 21 | +Limit - (19) |
| | R R I 16 Input Servo On/Off 41 Output OUTO | Step5/MSP1 Step designate 5 / Max speed designate 1 12 SD Deceleration (Deceleration (Deceleration 22 | \times |
| | 17 Input Home 42 Output OUT1 | 2. General input (9) | -Limit 0 20 |
| | 18 Input Alarm Reset 43 Output OUT2 | Signal name Descriptions Pin No. | |
| | 19 Input +Limit 44 Output OUT3 | 3. Example of input circuit connection | |
| | 20 Input -Limit 45 Output OUT4 | -All input circuits are insulated with photocoupler, and separate | SD •(22) |
| rent | 21 Input ORG 46 Output OUTS | external power (default: 24VDC) is necessary. | |
| on. aries | 22 Input SD 47 Output OUTO | -Case of using external power 24VDC does not require N _L . | INO to $2 \circ \begin{pmatrix} 20 \\ -28 \end{pmatrix}$ |
| | 23 Output III-Position 46 Output OUT7 | that I _F (forward current of primary LED) of photocoupler Input R | 10kΩ |
| | 25 Input GEX 50 Output OUT9 | signal Driver | N·C 0-29 |
| | | Output | |
| t: mm) | RS485 communication cable connector (CN4) | 1. EXClusive output (4) Signal name Descriptions Pin No Signal name Descriptions Pin No | |
| | Pin arrangement Pin No. I/O Function Pin No. I/O Function | In-Position Drive ending pulse 23 Compare1 (Trigger) Comparison output1 39 | GEX 0 (25) |
| | | Alarm Alarm output 38 Compare2 (Trigger) Comparison output2 40 | ¥ |
| | d bd b 2 — N·C 6 Input/Output RS485 DATA- | -In-Position -In-Position output represents output condition of positioning completion signal. | In-Position • 23 |
| | 3 Input/Output RS485 DATA+ 7 - N·C | -If the gap between target position and real position is under In-Position setting value after position command pulse has finished. In-Position output turns to [H] and In-Position indicator turns ON | 二日二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二 |
| | 8 − N·C | -In reverse, when the gap is over In-Position setting value, In-Position output turns to [L] and In-Position | Alarm 0 |
| | | -For accurate drive, check the In-Position output again and execute the next drive. | |
| | Connector specifications | Refer to example of output circuit connection. | Compare1 0 39 |
| | | Setting Value Setting Value | Compare 2 9 40 |
| | Specifications | Least Response Laccurate Response | |
| | Type Specifications Manufac | ure 0 (factory default) 0 8 0 Command | |
| | Type Specifications Manufac Connector Connector terminal Housing Manufac 3930-1020 (5569-02A2) — — Molex | ure Prast Response Accurate Response 0 1 1 9 1 2 2 10 2 2 | OUT0 to 9 0 41 |
| | Type Specifications Manufactor Connector Connector terminal Housing CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM | ure Prast Response Accurate Response 0 1 1 9 1 1 2 10 2 position 3 3 11 3 In-Position | OUTO to 9 0 41 |
| | Type Specifications Manufact Connector Connector terminal Housing CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — Molex | ure Prast Response Accurate Response 0 (factory default) 0 8 0 1 1 9 1 2 2 10 2 3 3 11 3 4 4 12 4 6 6 12 6 | OUTO to 9 0 41 |
| | Type Specifications Manufact Connector Connector terminal Housing CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex Motor+Encoder 5557-14R 5556T — Molex | ure Prast Response Accurate Response 0 1 1 9 1 2 2 10 2 10 0 3 3 11 3 1 1 9 1 4 4 12 4 6 6 6 14 6 (Fast response) Time 6 6 14 6 (Accurate Response) In-Position Time | OUTO to 90 |
| - | Type Specifications Manufact CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex ON3 Driver 10250-52A2 PL — | Image: Participation of the second | OUTO to 9 0 41 OUTO to 9 0 50 Cautions during Use |
| 25.5 | Specifications Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex CN1 Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — 10350-52F0-008 JON U/O connector 10150-3000PE — 10350-52F0-008 3M | Image: Participation of the second | Cautions during Use Cautions in 'Cautions dur |
| 25.5 | Specifications Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex CN1 Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — Molex I/O connector 10150-3000PE — — 3M CN4 Driver KRM-U-02-8-8-4-7M5 — — KINNEX. | ure ^{rast Response} 0 (factory default) 0 8 0 1 1 9 1 | Cautions during Use Cautions in 'Cautions dur Otherwise, It may cause unexpecte 24/DC power supply should be ins |
| 25.5 | Type Specifications Connector Connector terminal Housing Manufact CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN2 Driver 5557-14R 5556T — Molex CN3 Driver 10250-52A2 PL — — 10350-52F0-008 3M CN4 Driver KRM-U-02-8-8-4-7M5 — — KINNEXJ %Above connectors are suitable for AiC Series. You can use equivalent or substitute connectors. — — KINNEXJ | ure Past Response O (factory default) O (factory default) O (a default) | Cautions during Use Cautions in 'Cautions dur Otherwise, It may cause unexpecte 2. 24VDC power supply should be ins power supply device. |
| 25.5 | Type Specifications Connector Connector terminal Housing Manufactor CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CH1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 5557-14R 5556T — Molex CN3 Driver 10250-52A2 PL — — 3M CN4 Driver 10150-3000PE — — — KINNEX/ XAbove connectors are suitable for AiC Series. You can use equivalent or substitute connectors. Cable (sold connectors). — — | ure Prast Response O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) | OUT0 to 9 o data OUT0 to 9 o data Outrons during Use I. Follow instructions in 'Cautions dur Otherwise, It may cause unexpecte 2. 24VDC power supply should be ins power supply device. 3. Re-supply power after min. 1 sec fr |
| Mounting | Type Specifications Connector Connector terminal Housing Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN2 Driver 3557-14R 5556T — Molex CN3 Driver 10250-52A2 PL — — 3M I/O connector 10150-3000PE — — 3M CN4 Driver KRM-U-02-8-8-4-7M5 — — KINNEX/ %Above connectors are suitable for AiC Series. You can use equivalent or substitute connectors. Cable (sold separately) Type Type | ure Prast Response O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) O (factory default) | OUT0 to 9 o data OUT0 to 9 o data outrons during Use I. Follow instructions in 'Cautions dur Otherwise, It may cause unexpecte 2. 24VDC power supply should be ins power supply device. 3. Re-supply power after min. 1 sec fr 4. In case communication is unstable |
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| Mounting hole | Type Specifications Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — Molex CN4 Driver 10250-52A2 PL — — Molex VO connector 10150-3000PE — 10350-52F0-008 3M CN4 Driver KRM-U-02-8-8-4-7M5 — — — KINNEX X-Above connectors are suitable for AiC Series. You can use equivalent or substitute connectors. Cable (sold separately) | ure Prast Response 1 1 9 1 2 2 10 2 3 3 11 3 4 4 12 4 6 6 14 6 7 7 15 7 3 Atarm/Warning • Alarm • Alarm status, output is [H], and in case of alarming status, output is [L]. • Alarm Inis • Alarm reset, driver returns to the normal status, output is [L]. • When supplying alarm reset, driver returns to the normal status. vultu is [L]. • When supplying alarm reset, driver returns to the normal status. vultu is [L]. • When supplying alarm reset, driver returns to the normal status. vultu is [L]. • Warning • Output circuit connection. • Motor Maintain stop torgot torgot transpeed is over 4.000rpm • Marming • Over current error When motor speed is over 4.000rpm Motor Maintain stop torgot vulture to be onnection error occurs at driver • Over load error When motor speed is over 4.000rpm voure | OUT0 to 9 o difference Outon Outon Outon Supply Supply Cautions during Outon |
| Mounting hole | Type Specifications Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — Molex CN4 Driver 10250-52A2 PL — — — Molex CN4 Driver KRM-U-02-8-8-4-7M5 — — — KINNEX X-Above connectors are suitable for AiC Series. You can use equivalent or substitute connectors. Cable (sold separately) | ure Prast response Accurate response Command 1 1 9 1 Command 2 2 10 2 Command 3 3 11 3 Command 4 4 12 4 Command 5 5 13 5 Command 6 6 14 6 Command Command 7 7 15 7 Command Command Command 4 4 12 4 Command Command Command Command 6 6 14 7 Command | OUT0 to 9 o 41 OUT0 to 9 o 41 OUT0 to 9 o 41 OUT0 to 9 o 41 Otherwise, It may cause unexpecte Follow instructions in 'Cautions dur Otherwise, It may cause unexpecte 24VDC power supply should be ins power supply device. Re-supply power after min. 1 sec fr In case communication is unstable peripheral device, use ferrite core a It is recommended to use 485 conv (Autonics product, SCM-38I, recorr The thickness of cable should be s the motor cable. Keep the distance between power Motor vibration and noise can occu OChange motor installation metho @Use the unit out of the dedicated to changing motor, it is recommended 0Unwinding bolts and connection @Strange sound from ball bearing Damage and stress of lead cable Connection error with motor Inconsistency between the axis of declination) of the load, etc. This product does not prepare pro This unit may be used in the follow Olndoors (in the environment com |
| Aounting hole | Type Specifications Manufac CN1 Driver 3930-1020 (5569-02A2) — — Molex Power CHD1140-02 CTD1140 — HANLIM CN2 Driver 35318-1420 — — Molex CN3 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — Molex CN4 Driver 10250-52A2 PL — — — Molex CN4 Driver KRM-U-02-8-8-4-7M5 — — — KINNEX X-Above connectors are suitable for AiC Series. You can use equivalent or substitute connectors. Cable (sold separately) | ure Prast response Accurate response Command position 1 1 9 1 Command position 2 2 10 2 Command position 3 3 11 3 Command position 4 4 12 4 Command position 5 5 13 5 Command position 7 7 15 T Command position Accurate response) In-Position In-Position In-Position • Alarm • This function stops motor to protect driver, depending on the error status such as over current or over speed. -In case of normal status, output is [H], and in case of alarming status, output is [L]. • When supplying alarm reset, driver returns to the normal status. * Refer to example of output circuit connection. • Warning • This function notices dangers with the alarm indicator prior to motor stop with limit signal or over load alarm. • When turing out from the alarming condition, driver returns to the normal status automatically. • Warning • Over current error • Over speed error When one over current flows at motor RUN element • Over speed error When more position rounnand value and current positio | Cautions during Use Follow instructions in 'Cautions dur Otherwise, It may cause unexpecte 24VDC power supply should be ins power supply device. Re-supply power after min. 1 sec fr In case communication is unstable peripheral device, use ferrite core a It is recommended to use 485 conv (Autonics product, SCM-38I, recorr The thickness of cable should be s the motor cable. Keep the distance between power Motor vibration and noise can occu Change motor installation metho Use the unit out of the dedicated to changing motor, it is recommended For using motor, it is recommended Connection error with motor Inconsistency between the axis of declination) of the load, etc. This product does not prepare prot This unit may be used in the follow Olndoors (in the environment com @Altitude max. 2,000m |
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| Allounting hole l) (green) ce ained ing after ervo hicating. ary page). | Type Specifications Connector Connector Connector terminal Housing Manufac CN1 Driver 3330120 (5569402A2) — — Molex CN2 Driver 35318-1420 — — Molex CN3 Driver 10250-52A2 PL — — 10350-52F0-008 3M CN4 Driver 10140-02-8-8-47M5 — — — Notex CA4 Driver KANU02-8-8-47M5 — — — INNEX XAbove connectors are suitable for AIC Series. You can use equivalent or substitute connectors. Cable color Dot line color-numb Type Model Imack-1 26 Red-3 Black-1 Pin No. Cable color Dot line color-numbers Pin No. Cable color Dot line color-numbers 1 Black-1 26 Red-3 Black-1 Black-1 2 Black-1 26 Black-1 Black-1 Black-1 Black-1 2 Drine color-numbers < | Image: transmit response Declarat response 1 | OUT0 to 9 o OUT0 to 9 te 0 to 10 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 to 0 te 0 d OUT0 to 9 te 0 te 0 d OUT0 to 9 te 0 te 0 d OUT0 te 0 te |

| 3 0 | utputs trigger pulse on set in | nterval and width. | | |
|---|--|--|-----------|-------------|
| ※Please refe | er to the user manual to lear | n how to set. | | |
| 5. General o | utput (10) | | | |
| Signal name | Descriptions | Pin No. | | |
| OUT0 to 9 | General output 0 to 9 | 41 to 50 | | |
| 6. Example of -All output cir -External pow with the ope I _c (collector of be around 10 | of output circuit connectio cuits are insulated with phol ver input is available from 5 ¹ n collector method. select R surrent of secondary LED) o DmA. VEX.0 7/ | n tocoupler. /DC to 80VDC L value that f photocoupler to | Output o[| N Driver |







Cautions during Use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, It may cause unexpected accidents.
- 24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
 Re-supply power after min. 1 sec from disconnected power.
- 4. In case communication is unstable due to the noise generated by supplied power or peripheral device, use ferrite core at communication line.5. It is recommended to use 485 converter with the separate power.
- (Autonics product, SCM-38I, recommended)
- 6. The thickness of cable should be same or thicker than the motor cable's when extending the motor cable.
- 7. Keep the distance between power cable and signal cable more than 10cm
- Motor vibration and noise can occur in specific frequency period
 Ochange motor installation method or attach the damper.
- ②Use the unit out of the dedicated frequence range when vibration and noise occurs due bot and and the second and additional independent and inside the second and inside the second and inside the second and inside the second and the se
- ①Unwinding bolts and connection parts for the unit installation and load connection ② Strange sound from ball bearing of the unit
 ③ Damage and stress of lead cable of the unit
- ④Connection error with motor
- © Inconsistency between the axis of motor output and the center, concentric (eccentric, declination) of the load, etc.
- 10. This product does not prepare protection function for a motor.
- 11. This unit may be used in the following environments. ①Indoors (in the environment condition rated in 'Specifications')
- ②Altitude max. 2,000m
- ③Pollution degree 2
 ④Installation category I

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