## Legend for AUMA MATIC

| Legend for actuator |  |  |
| :---: | :---: | :---: |
| S1 | TSC | Torque switch, closing, clockwise rotation |
| S2 | TSO (DOEL) | Torque switch, opening, counterclockwise rotation |
| S3 | LSC (WSR) | Limit switch, closing, clockwise rotation |
| S4 | LSO (WOEL) | Limit switch, opening, counterclockwise rotation |
| $\begin{aligned} & \mathrm{S} 1 / 2 \\ & \mathrm{~S} 2 / 2 \end{aligned}$ | DSR 1 <br> DOEL 1 | Torque switches, in tandem arrangement with DSR/DOEL (TSC/TSO) |
| $\begin{aligned} & S 3 / 2 \\ & S 4 / 2 \end{aligned}$ | WSR 1 <br> WOEL 1 | Limit switches, in tandem arrangement with WSR/WOEL (LSC/LSO) |
| $\begin{aligned} & S 3 / 3 \\ & S 4 / 3 \end{aligned}$ | WSR 2 <br> WOEL 2 | Limit switches, in triple arrangement with WSR/WOEL (LSC/LSO) |
| $\begin{aligned} & \mathrm{S} 3 / 4 \\ & \mathrm{~S} 4 / 4 \end{aligned}$ | WSR 3 <br> WOEL 3 | Limit switches, in quadruple arrangement with WSR/WOEL (LSC/LSO) |
| S5 | BL | Blinker transmitter |
| $\begin{aligned} & \text { S6 } \\ & \text { S7 } \end{aligned}$ | WDR WDL | Limit switches, DUO, for 2 intermediate positions, adjustable |
| $\begin{aligned} & S 6 / 2 \\ & S 7 / 2 \end{aligned}$ | WDR 1 <br> WDL 1 | Limit switches, DUO, for 2 intermediate positions in tandem arrangement with WDR/WDL (LSA/LSB) |
| B1/B2 | EWG/RWG IWG | 3-wire or 4-wire system/electronic position transmitter 3-wire or 4-wire system/inductive position transmitter |
| B3/B4 | EWG/RWG IWG | 2-wire system/electronic position transmitter 2-wire system/inductive position transmitter |
| F1 | TH | Thermoswitch |
| F1/2 | TH | Thermoswitches (signalisation) |
| R1 | H | Heater in switch compartment |
| R2 | $f 1$ | Potentiometer |
| R2/2 | f2 | Potentiometer in tandem arrangement with R 2 |
| R2/3 | f3 | Potentiometer in triple arrangement with R 2 |
| R3 | PTC 1 | PTC thermistor |
| R3/2 | PTC 2 | PTC thermistor (indication) |
| R4 | H | Motor heater |

## Legend for AUMA MATIC

| A1.0 | Interface board |
| :---: | :---: |
| K5-8 | Output contact; running indication via output contacts (opening and closing) in combination with blinker (S5) and signal board for running indication (A91) |
| A1.1 | Special interface board |
| A1.6 | Timer board |
| R10 | Direction OPEN, pause time |
| R11 | Direction OPEN, running time |
| R12 | Direction CLOSE, pause time |
| R13 | Direction CLOSE, running time |
| A1.8 | Profibus board, Modbus board |
| A2 | Logic board |
| K9 | Output contact/collect |
| A4 | Overvoltage protection thyristors |
| A5 | Thyristor board |
| A7 | Positioner board |
| A8 | Power supply board |
| F3, F4 | Secondary fuses |
| A9 | REMOTE change-over MANUAL - AUTOMATIC |
| A9.1 | External release of local operation |

[^0]AM 01.1/AM 02.1

## Legend for AUMA MATIC

| A11 | PTC tripping board |
| :---: | :---: |
| A13 | Fieldbus connection board |
| A13.1 | Profibus DP and PTC tripping device |
| A13.2 | Profibus DP and PTC tripping device and reset contact |
| A17 | Galvanic isolator |
| A20/A21 | Signal and control board |
| S11/S11/2 | Selector switch LOCAL - OFF - REMOTE |
| S11/3 | Selector switch LOCAL - OFF - REMOTE 3 ${ }^{\text {rd }}$ level with spring return for test/reset/PTC tripping device |
| S12.1 | Push button OPEN |
| S12.2 | Push button STOP |
| S12.3 | Push button CLOSE |
| S12.5 | Push button EMERGENCY - STOP |
| H1 | Indication light CLOSE |
| H2 | Indication light OPEN |
| H3 | Indication light FAULT |
| K3, K4 | Control relay for reversing contactors: |
| F1, F2 | FF fuse for semiconductors |
| A22 | Galvanic isolator and REMOTE change-over MANUAL - AUTOMATIC |
| A24 | Board for storing the collective fault signal 3 s |
| A25 | Signal and control board with EMERGENCY - STOP |
| A32 | Overvoltage board for Profibus/Modbus |
| A33 | External change-over LOCAL - REMOTE, without selector switch |
| A35 | Heater monitoring |
| A66 | REMOTE change-over for MANUAL - FIELDBUS |
| A67 | Profibus with electronic blinker transmitter |
| A88 | Heater system board |
| A91 K10, K11 | Signal board for running indication <br> Signal board for running indication (opening and closing) in combination with blinker transmitter (S5) |
| B5 | Adjustment board for position transmitter |
| $\mathrm{C}_{\text {B }}$ | Permanent split capacitor (1 to 3 units) |
| F1', F2' | Primary fuses for power supply |
| F7 | Thermal overload relay |
| K1, K2 | Reversing contactors |
| Q1 | Disconnect switch |
| Q2 | Motor protection switch |
| R5 | Heater in AUMA MATIC |
| U1-U4 | Semiconductors (thyristors) |
| V14 | LED, (phase sequence), phase failure, motor protection tripped |
| V15 | LED, torque switch operated in mid-travel |
| V21 | Stepping mode active in direction CLOSE |
| V22 | Stepping mode active in direction OPEN |
| V35 | LED, command CLOSE available from control room |
| V36 | LED, command OPEN available from control room |
| V37 | LED, STOP command available from control room |
| V38 | LED, command EMERGENCY available from control room |
| XK | Customer connection |
| XA | Actuator connection |
| XM | Connection for AUMA MATIC (wall bracket) |

[^1]
## Legend for AUMA MATIC

| Supplementary information |  |
| :---: | :---: |
| Information A | Running indication is possible for installed blinker transmitter (S5) (opening and closing) <br> Running direction CLOSE: Sockets $X_{K} 6-X_{K} 7$ <br> Running direction OPEN: Sockets $X_{k} 6-X_{k} 8$ <br> Contacts remain closed in end position. For switching off/on the running indication (blinker transmitter), refer to operation instructions. |
| Information B | The valve manufacturer specifies the type of seating in the end positions. Setting is performed using programming switches S1-2 and S3-2 (refer to operation instructions). Tripping of a torque switch in mid-travel leads to switching off and generates a fault signal. For torque seating, the limit switches are used for signalliing. They have to be set as to ensure that the respective switch trips shortly before reaching the end position. If the torque switch trips before the limit switch, the actuator is switched off and a fault signal generated. |
| Information D | The following fault signals are recorded and can be sent as potential-free collective fault signal to the control room. <br> - Mains failure <br> - Phase failure <br> - Motor protection tripped <br> - Torque switch tripped in mid-travel (on/off switch refer to operation instructions). |
| Information E | Input signals according to DIN 19240. <br> Nominal operating current of inputs $X_{k} 2 ; X_{k} 3$ and $X_{k} 4$ amounts to $10-15 \mathrm{~mA}$. Should the internal 24 VDC power supply be used for remote control, switching is only possible via potential-free contacts. |
| Information F | In case of wrong phase sequence, the running direction is adjusted by automatic phase inversion. During phase failure, the multi-turn actuator is at standstill. The failure is indicated at LED V14 of the interface board. |
| Information G | Potential-free contacts can be used for signals. The internal control voltage ( $X_{\kappa} 11 /+24 \mathrm{~V}$ or $X_{k} 5 /-24 \mathrm{~V}$ ) must not be used for external lights, relays etc. |


[^0]:    We reserve the right to alter data according to improvements made. Previous documents become invalid with the issue of this document.

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