| Technical data Actuator controls AUMA MATIC |  |  |  |  |  |  |  |  |  |  | AM 01．1／AM 02.1 Profibus DP |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Actuator controls AUMA MATIC AM 01．1／AM 02.1 for controlling multi－turn actuators of the SA／SAR type range and part－turn actuators of the SG／SGR type range for version with Profibus DP interface． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Features and functions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Voltage supply | Standard voltages： |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3－ph AC voltages／frequencies |  |  |  |  |  |  |  |  |  |  | 1－ph AC voltages／frequencies |  |  |
|  | Volt | 220 | 230 | 240 | 380 | 400 | 415 | 440 | 460 | 480 | 500 | Volt | 110，115，120 | 220，230，240 |
|  | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 60 | 60 | 60 | 50 | Hz | 60 | 50 |
|  | Special voltages： |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 3－ph AC voltages／frequencies |  |  |  |  |  |  |  | 1－ph AC voltages／frequencies |  |  |  |  |  |
|  | Volt |  | 525 |  | 75 | 660 |  | 690 | Vol |  | 208 |  |  |  |
|  | Hz |  | 50 |  | 0 | 50 |  | 50 | Hz |  | 60 |  |  |  |
|  | ```Permissible variation of the nominal voltage: \(\pm 10 \%\) Permissible variation of the mains frequency: \(\pm 5 \%\) Current consumption of the controls depending on the mains voltage: 100 to \(120 \mathrm{~V} \mathrm{AC}=\) max. 575 mA 208 to \(240 \mathrm{~V} \mathrm{AC}=\max .275 \mathrm{~mA}\) 380 to \(690 \mathrm{~V} \mathrm{AC}=\max .160 \mathrm{~mA}\)``` |  |  |  |  |  |  |  |  |  |  |  |  |  |
| External supply of the electronics （option） | 24 V DC $+20 \% /-15 \%$ ， Current consumption：Basic version approx． 200 mA ，with options up to 500 mA |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Switchgear | Standard |  | R fo C C | Reversing contactors ${ }^{11}$（mechanically and electrically interlocked） for motor power up to 1.5 kW ，nominal motor current up to 9 A （OPEN－ CLOSE duty）or 5.2 A （modulating duty） |  |  |  |  |  |  |  |  |  |  |
|  | Options： |  |  | Reversing contactors ${ }^{1}$（ （mechanically and electrically interlocked） for motor power up to 7.5 kW ，nominal motor current up to 20 A （OPEN－ CLOSE duty）or 18 A （modulating duty） |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | Thyristo for mot for motor for mot |  | $\begin{aligned} & \text { it (reco } \\ & \text { ower up } \\ & \text { jwer up } \\ & \text { ower wu } \end{aligned}$ | $\begin{aligned} & \text { omme } \\ & \text { up to } 1 . \\ & \text { lip to } 3 \\ & \text { ip to } 5, \end{aligned}$ | $\begin{aligned} & \text { ended } \\ & 1.5 \mathrm{~kW} \\ & 3.0 \mathrm{~kW} \\ & 5,5 \mathrm{~kW} \end{aligned}$ |  | $\begin{aligned} & \text { modula } \\ & 0 \vee A C \\ & 0 \vee A C \\ & 0 \vee A C \end{aligned}$ | ating | actua th int ternal | ars） <br> rnal fuses rnal fuses fuses required |  |
| Control and output signals | Via Profibus DP interface |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Profibus DP interface with additional inputs（option） | Profib trans | missio | $\begin{aligned} & \mathrm{PP} \text { inte } \\ & \text { ion via } \end{aligned}$ | terface ia fieldb | with | $4 \text { free }$ | $\text { e } 24$ ce. | $\mathrm{VDC}$ | inputs | and |  | $0 / 4$ | -20 mA inputs | ts．Signal |
| Local controls | Standard： |  |  | Selector switch LOCAL－OFF－REMOTE（lockable in all three positions） Push buttons OPEN－STOP－CLOSE |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 3 indication lights： <br> End position CLOSED（yellow），collective fault signal（red），end position OPEN（green） |  |  |  |  |  |  |  |  |  |  |
|  | Option： |  |  | Protection cover，lockable |  |  |  |  |  |  |  |  |  |  |
| Functions | Standard |  | Switch－off mode adjustable <br> Limit or torque seating for end position CLOSED |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Overload protection against excessive torques over the whole travel |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Phase failure monitoring with automatic phase correction Push－to－run operation or self－retaining in LOCAL |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | Push－to－run operation or self－retaining in LOCAL Positioner2）： <br> Nominal position value via Profibus DP interface Adjustable behaviour on loss of signal Adjustable sensitivity（dead band）and pause time |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Motor protection evaluation | Standard： |  | M <br> in | Monitoring of the motor temperature in combination with thermoswitches in the actuator motor |  |  |  |  |  |  |  |  |  |  |
|  | Options： |  |  | In combination with thermoswitches in the actuator，additional thermal overload relay in the controls <br> Additional PTC tripping device in combination with PTC thermistors in the actuator motor |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1）The reversing contactors are designed for a lifetime of 2 million starts．For applications requiring a high number of starts，we recommend the use of thyristor units． <br> 2）Requires position transmitter in actuator |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| We reserve the right to ater data according to improvements made．Previous documents become invalid with the issue of this document． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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3) For version in enclosure protection IP 68, higher corrosion protection KS or KX is strongly recommended.
4) Resistant to vibrations during start-up or for falures of the plant. However, a fatigue strength may not be derived from this.
5) Cable length between actuator and AUMA MATIC max. 100 m . Not suitable for version with potentiometer in the actuator. Instead of the potentiometer, an RWG has to be used in the actuator.
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