

Issue 2004-06-16

Abbreviated BSP-Numbering system
AUMA MATIC BASIC types AMB and
Basic Compact (AUMA Actuators Inc.)

Only for internal use

EWB-34 SHORT GB-01

Distributor:

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Issue 1 dated 2003-03-06				
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In general:

Deviations to the regulations in EWH-01:

- This document is not released by AL-QW
- In case of revisions single pages can be exchanged
- The summary of changes to the previous issue is attached as appendix 1
- All pages of the document are informal with the 'auma' logo
- The procedure is copied according to the distributor
- The document is not signed by SCK, SCM and WOF

Notes:

1. The wiring diagrams BSP and the ordering codes are valid for the version AUMA MATIC BASIC and Basic Compact (AUMA Actuators Inc.)

Types: AMB 01.1 and AMB 02.1 (AUMA MATIC BASIC)
 AMB Ex 01.1 and AMB Ex 02.1 (AUMA MATIC BASIC Ex)

= Wiring diagram number				Explanations
1. Digit: Housing				
	Housing	Wall Bracket XM connection	XA connection	
1	Water tight	-	Plug / Socket	
3	Ex	-	Plug / Socket	
5	Water tight	Plug / Socket	Plug / Socket	
6	Water tight	Plug / Socket & Terminals	Terminals	
8	Water tight	Plug / Socket & Terminals	Plug / Socket	
9	Factory Mutual	-	Plug / Socket	
D	ExII C	Plug / Socket, Wire Bung & Terminals	Terminals	
E	ExII C	-	Terminals	

= Wiring diagram number		Explanations
2. Digit: Customer connections		
1	Plug / socket without torque switch bypass	
3	Terminals without torque switch bypass	
9	Special	
A	Plug / socket with by-pass of torque switches, both directions	
2	Integral Circuit Breaker, plug / socket with by-pass of torque switches, both directions	
7	Integral Disconnect Switch, plug / socket with by-pass of torque switches, both directions	

= Wiring diagram number		Explanations
	3. Digit: Type of motor	
1	3-phase AC motors	
3	Single phase motors type SK	SG.1 actuator
7	Single phase motors type CSIR 230V (Leeson)	Integral capacitors
8	Single-phase motors type PSC (ME and Leeson)	Integral capacitors
9	Single-phase motors type CSIR 115V (Leeson)	Integral capacitors

= Wiring diagram number		Explanations
	4. Digit: Relay Interface	
0	Version B01 Without relay interface - Inputs (not potential-free): OPEN, STOP, CLOSE - Outputs (not potential-free): OPEN, CLOSE	For potential-free signals of the end positions additional limit switches are required!
1	Version B02 With relay interface - Inputs (not potential-free): OPEN, STOP, CLOSE - Outputs (not potential-free): OPEN, CLOSE - Outputs (potential-free): - Thermoswitch tripped (NC contact) - Torque switch tripped in mid-travel (change-over contact)	For potential-free signals of the end positions additional limit switches are required!
2	Version B03 With relay interface - Inputs (potential-free): OPEN, STOP, CLOSE - Outputs (not potential-free): OPEN, CLOSE	For potential-free signals of the end positions additional limit switches are required!
3	Version B04 With relay interface - Inputs (potential-free): OPEN, STOP, CLOSE - Outputs (not potential-free): OPEN, CLOSE - Outputs (potential-free): - Thermoswitch tripped (NC contact) - Torque switch tripped in mid-travel (change-over contact)	For potential-free signals of the end positions additional limit switches are required!
C	Motor Integral Controls	
D	Triple Play CD 215 Modbus	
E	Triple Play CDN 455 DeviceNet	
F	Triple Play CDN 455 Modbus	
G	Triple Play CDN 455 Analog Control	

= Wiring diagram number		Explanations
	5. Digit: Input signals	
1	OPEN-STOP-CLOSE-EMERGENCY STOP	
1	OPEN-CLOSE-EMERGENCY STOP	
5	OPEN-CLOSE	Basic Compact
6	Triple Play	

= Wiring diagram number		Explanations
	6. Digit: Output signals	
1	OPEN-CLOSE-LOCAL-REMOTE	Digit 11 = 2 required
2	OPEN-CLOSE-Thermo Switch Tripped-Torque Fault	
3	None	
5	Triple Play	

Wiring diagram number		Explanations
	7. Digit: Input range	
1	24V DC external supply / 230V contactors	Only with B02 or B03 or B04
2	110 – 125V AC internal supply / 115V contactors	
3	230 – 240V AC internal supply / 230V contactors	
4	24V DC external supply / 115V contactors	Only with B02 or B03 or B04
5	110V AC external supply / 115V contactors	Only with B02 or B03 or B04

Wiring diagram number		Explanations
-	8. Digit: -	
	Always choose this	

Wiring diagram number	Explanations
9. Digit: Power supply - Without power supply 2 230 – 240 V / Control Power 230 V 5 230 – 240 V, Phase Monitoring / Control Power 230 V 6 230 – 240 V / Control Power 115 V 3 380 ... 690 V / Control Power 230 V 3 380 ... 690 V / Control Power 115 V 4 380 ... 690 V, Phase Monitoring / Control Power 230 V 4 380 ... 690 V, Phase Monitoring / Control Power 115 V 4 230/380/440/460, Phase Monitoring / Control Power 115 V 4 115 V / Control Power 115 V	

Wiring diagram number		Explanations
	10. Digit: Motor controls	
A	with thyristor unit (module) for 3-ph AC motors	208 – 240V max. 0.37kW (0.5hp) 380 – 500V max. 1.5kW (2hp)
F	with contactors up to 7.5 kW	380 – 690V max. 7.5kW (10hp) 208 – 240V max. 3.0kW (4hp)
H	with contactors up to 7.5 kW, with auxiliary contacts - for each contactor 1 NO and 1 NC, wired to customer's plug/socket connector	380 – 690V max. 7.5kW (10hp) 208 – 240V max. 3.0kW (4hp)
I	With contactors up to 7.5 kW, with auxiliary contacts - for each contactor 2 NO, wired to customers's plug/socket connector	380 – 690V max. 7.5kW (10hp) 208 – 240V max. 3.0kW (4hp)

Wiring diagram number		Explanations
	11. Digit: Selector Switch	
0	No switch	
1	Three position switch with no auxiliary contacts	
2	Three position switch with auxiliary contacts	NO contact in both local and remote
H	Two position switch with auxiliary contacts	NO contact in both local and remote

Wiring diagram number	Explanations
12. Digit: Pushbuttons and indication lights 0 without pushbuttons and indication lights 7 pushbuttons OPEN, STOP, CLOSE 8 pushbuttons OPEN, STOP, CLOSE indication lights OPEN: green, CLOSE: yellow 3 pushbuttons OPEN, STOP, CLOSE indication lights OPEN: red, CLOSE: green A pushbuttons OPEN, CLOSE, LOCK-OUT STOP indication lights OPEN: green, CLOSE: yellow B pushbuttons OPEN, STOP, CLOSE indication lights OPEN: green, FAULT: red, CLOSE: yellow C pushbuttons OPEN, CLOSE J pushbuttons OPEN, STOP, CLOSE indication lights OPEN: red, FAULT: yellow, CLOSE: green P pushbuttons OPEN, LOCK-OUT STOP, CLOSE indication lights OPEN: red, FAULT: yellow, CLOSE: green Q pushbuttons OPEN, STOP, CLOSE indication lights OPEN: green, CLOSE: red S special	Only with B01 or B03 Only with B02 or B04

Wiring diagram number	Explanations
13. Digit: Heater and blinker transmitter B No Blinker Switch Control Unit Heater – powered by the customer C Blinker Switch – not wired to customer connections Control Unit Heater – not powered by the customer D Blinker Switch – not wired to customer connections Control Unit Heater – not powered by the customer E No Blinker Switch Control Unit Heater – not powered by the customer H Blinker Switch – wired to customer connections Control Unit Heater – not powered by the customer P Blinker Switch – wired to customer connections Control Unit Heater – powered by the customer T Motor heater not powered by the customer and Blinker switch wired to customer connections Control Unit Heater – not powered by the customer	

Wiring diagram number		Explanations
14. Digit: Motor protection		
1	Thermoswitch	
2	Thermoswitch and thermal overload relay	