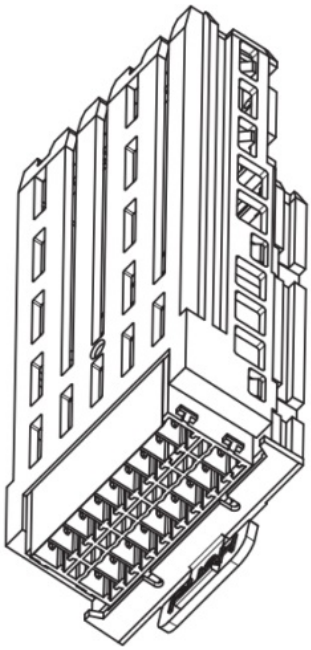
Schneider Electric VW3A3203 Extension Module Owner's Manual

Schneider Electric

Extension module
of Digital and Analog I/O
VW3A3203



Contents

1 Extension Module
2 Documents / Resources
2.1 References
3 Related Posts

Extension Module

DANGER

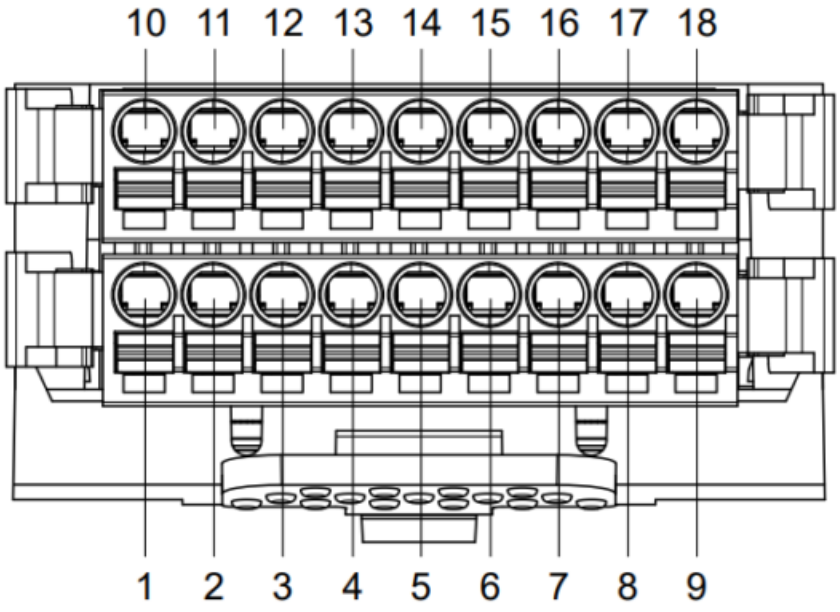
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only appropriately trained persons who are familiar with and fully understand the contents of the present manual and all other pertinent product documentation and who have received all necessary training to recognize and avoid hazards involved are authorized to work on and with this equipment.
- Installation, adjustment, repair, and maintenance must be performed by qualified personnel.
- Verify compliance with all local and national electrical code requirements as well as all other applicable regulations with respect to grounding of all equipment.
- Before performing work and/or applying voltage on the equipment, follow the instructions given in the appropriate installation manual.
  Failure to follow these instructions will result in death or serious injury.

Electrical equipment should be installed, operated, serviced, and maintained only by qualifed personnel.
No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this product.
© 2024 Schneider Electric. All Rights Reserved.

MANUFACTURER
Schneider Electric Industries SAS
35 rue Joseph Monier
Rueil Malmaison 92500 France

UK REPRESENTATIVE
Schneider Electric Limited
Stafford Park 5
Telford, TF3 3BL United Kingdom



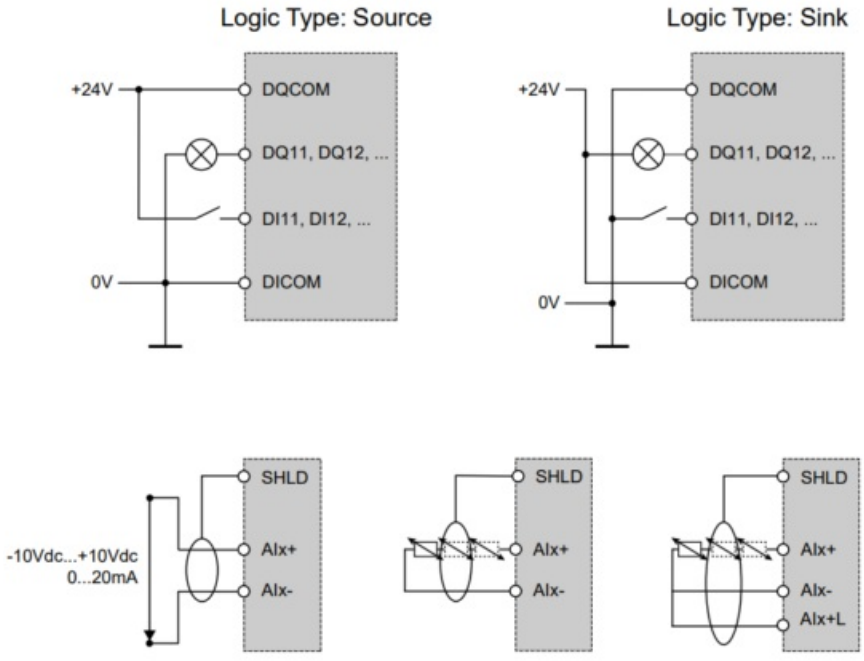
Minimum wire size: 0.2 mm² (AWG 24)

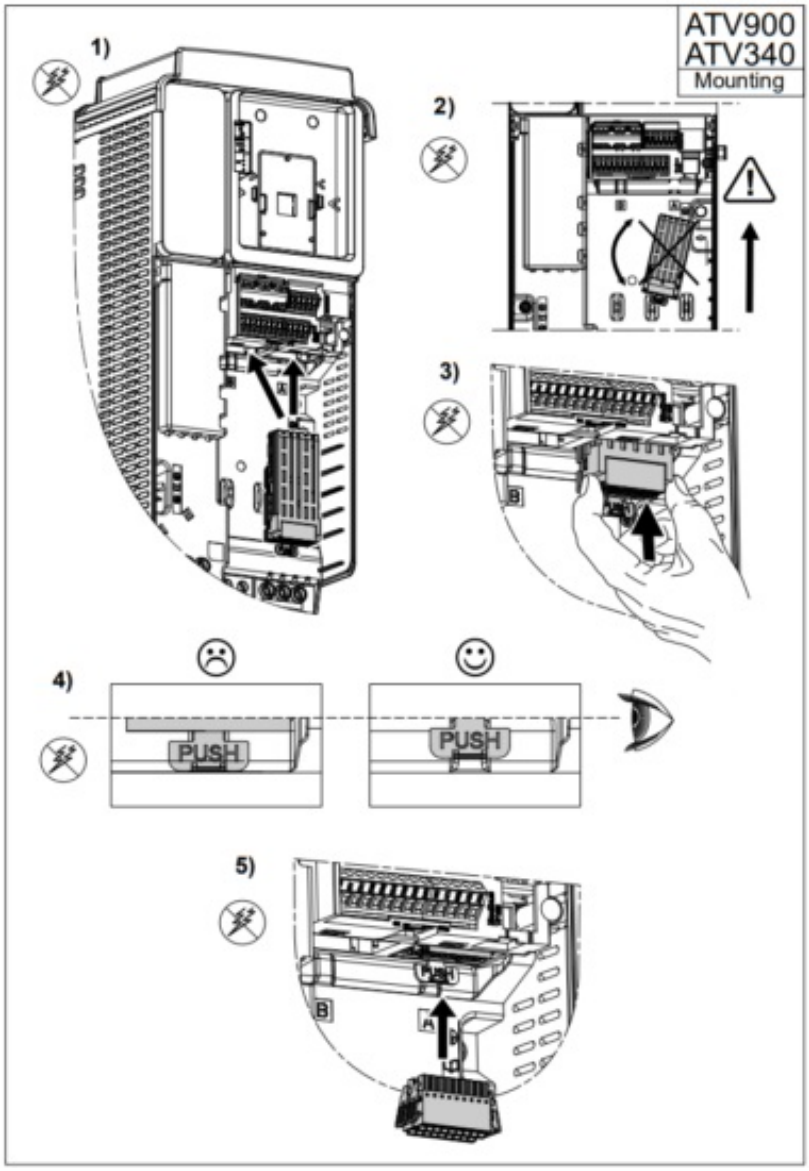
Maximum wire size: 1.0 mm² (AWG 16)
Stripping length: 10 mm

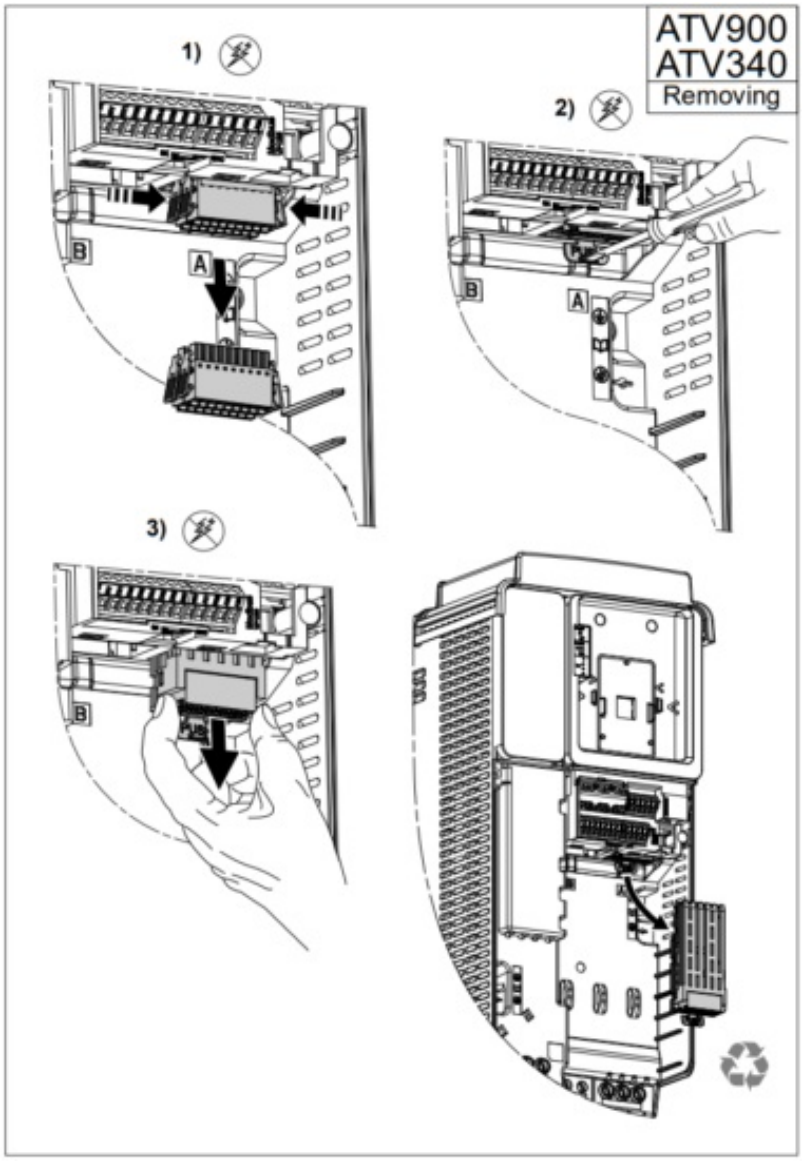
Note: Only one VW3A3203 can be installed for one drive

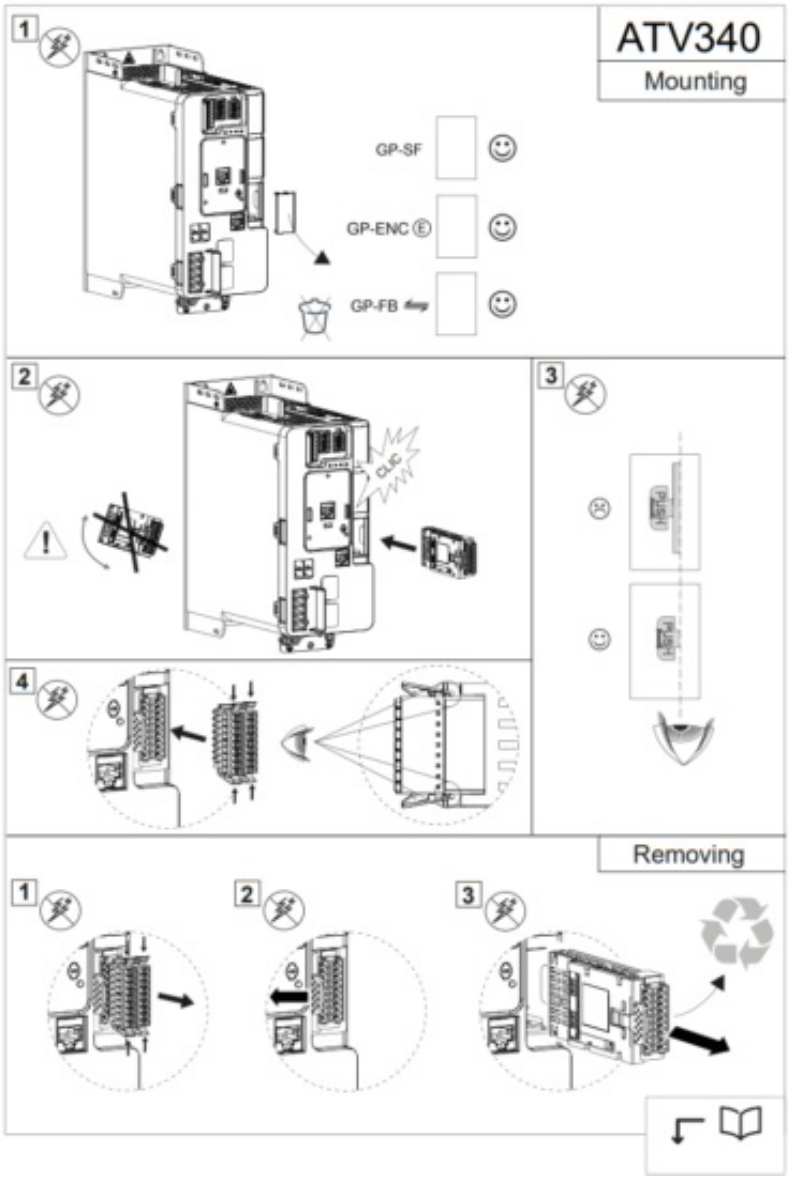
<table>
<tr><th>PIN</th><th>SIGNAL</th><th>FUNCTION</th><th>ELECTRIC CHARACTERISTICS</th></tr>
<tr><td>1</td><td>SHLD</td><td>Shield connection AI4</td><td rowspan="9">Software-configurable Voltage, current, PT100,PT1000, KTY84, PTC measurement:
Voltage differential input circuit:
• Range: -10Vdc…+10Vdc
• Impedance: 20kΩ
• Resolution: 11bit + sign bit
• Accuracy: ± 0.6% for a temperature variation of 60 °C
• Linearity: ± 0.15% of maximum value
Current measurement:• Range: X-Y mA by programming X and Y from 0 to 20 mA
• Impedance: 250 Ω
• Resolution: 10bit
• Accuracy: ± 0.6% for a temperature variation of 60 °C
• Linearity: ± 0.15% of maximum value
• Sampling period: 1ms
PTx measurement: Type of PTx and mode selected via parameter PT100, PT1000, PTC, KTY84
• PT100:
– 1 or 3 thermal sensors mounted in series (configurable by software)
– Thermal sensor current: 7,5 mA maximum
– Range: -20…200°C
– Accuracy: +-3°C final for a temperature variation of 60°C
• PT1000, KTY84:
– 1 or 3 thermal sensors mounted in series (configurable by software)
– Thermal sensor current: 1mA maximum
– Range: -20…200°C
– Accuracy: +-3°C final for a temperature variation of 60°C
• PTC:
– 3 or 6 thermal sensors mounted in series (configurable by software)
– Thermal sensor current: 1mA maximum
– Nominal value: <1.5 kΩ
– Overheat trigger threshold: 3 kΩ
– Overheat reset threshold: 1.8 kΩ
– protected for low impedance: <50 Ω
– detection of high impedance: >100kΩ</td></tr>
<tr><td>2</td><td>AI4+</td><td rowspan="2">Differential Analog Input 4 Depending on SW configuration Differential Voltage measurement PTx measurement 0…20mA measurement
AI4- reference potential for AI4+ AI4- must be connected to Drive COM</td></tr>
<tr><td>3</td><td>AI4-</td></tr>
<tr><td>4</td><td>AI4+L</td><td>3 wire PTx compensation connection</td></tr>
<tr><td>5</td><td>SHLD</td><td>Shield connection AI5</td></tr>
<tr><td>6</td><td>AI5+</td><td rowspan="2">Differential Analog Input 5 Depending on SW configuration Differential Voltage measurement PTx measurement 0…20mA measurement
AI5- reference potential forAI5+ AI5- must be connected to Drive COM</td></tr>
<tr><td>7</td><td>AI5-</td></tr>
<tr><td>8</td><td>AI5+L</td><td>3 wire PTx compensation connection</td></tr>
</table>

9	**DQ12**	Digital Output 12 (Open collector output)	The levels of the digital 24 Vdc output signals DQ, comply with IEC/ EN61131-2 standard • Logic Type selected via DQCOM wiring • Output voltage: ≤ 30Vdc • Switching current: ≤ 100mA • Voltage drop at 100mA load: ≤ 3Vdc • Sampling period: 1ms
10	**DICOM**	Digital input common Reference potential for the digital inputs	The levels of the digital 24 Vdc input signals DI, comply with IEC/ EN61131-2 standard • Logic Type selected via DICOM wiring • Positive logic (Source) : State 0 if ≤ 5Vdc, state 1 if ≥11Vdc • Negative logic (Sink) : State 0 if ≥16Vdc, state 1 if ≤ 10Vdc • Maximum voltage: 30Vdc • Input current (typical): 2.5mA • Sampling period: 1ms
11	**DI11**	Digital input 11	
12	**DI12**	Digital input 12	
13	**DI13**	Digital input 13	
14	**DI14**	Digital input 14	
15	**DI15**	Digital input 15	
16	**DI16**	Digital input 16	
17	**DQCOM**	Digital output common Reference potential for the digital outputs	The levels of the digital 24 Vdc output signals DQ, comply with IEC/ EN61131-2 standard • Logic Type selected via DQCOM wiring • Output voltage: ≤ 30Vdc • Switching current: ≤ 100mA • Voltage drop at 100mA load: ≤ 3Vdc • Sampling period: 1ms
18	**DQ11**	Digital Output 11 (Open collector output)	




ATV900
ATV340
Mounting
1)
2)
3)
4)
PUSH
PUSH
5)
B
A


ATV900
ATV340
Removing
1)
2)
3)
A
B



www.se.com

EAV76404-02

EAV7640402

Documents / Resources

	Schneider Electric VW3A3203 Extension Module [pdf] Owner's Manual VW3A3203 Extension Module, VW3A3203, Extension Module, Module

References

- User Manual

Manuals+, **Privacy Policy**

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.