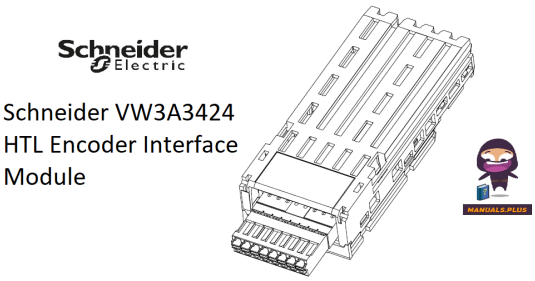
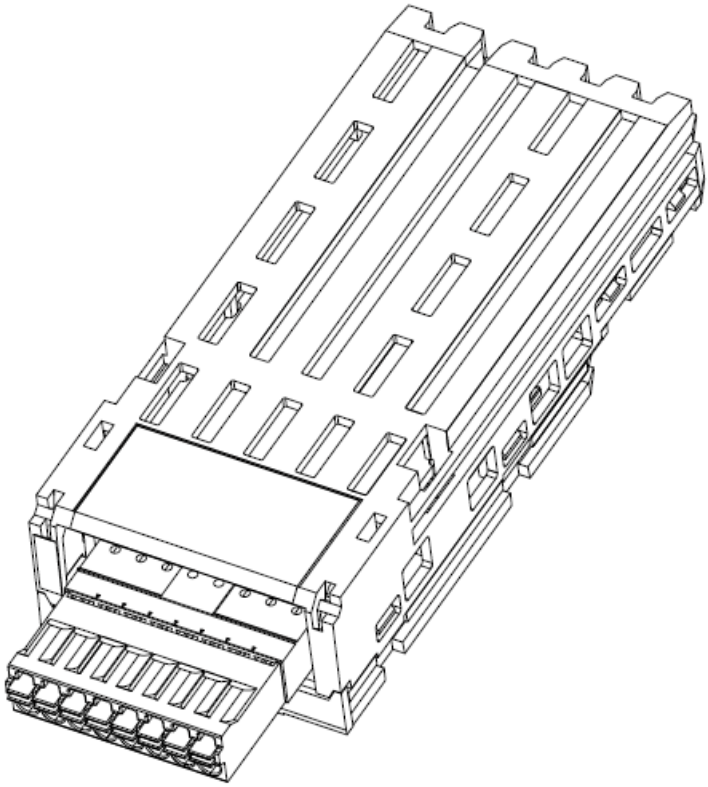


Schneider VW3A3424 HTL Encoder Interface Module User Guide

Contents

Schneider VW3A3424 HTL Encoder Interface Module

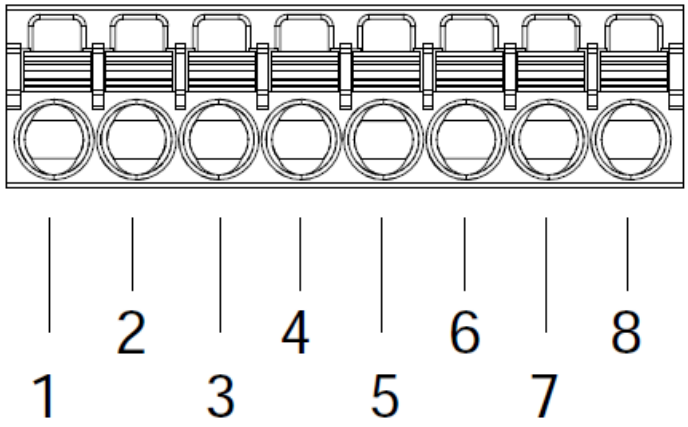


DANGER HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- 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.

Maximum Encoder Cable Length				
Encoder Supply	Minimum Cable Cross Section	Total Encoder Consumption		
		100 mA	175 mA	200 mA
12 Vdc	0.2 mm² (AWG 24)	100 m	50 m	50 m
	0.5 mm² (AWG 20)	250 m	150 m	100 m
	0.75 mm² (AWG 18)	400 m	250 m	200 m
	1 mm² (AWG17)	500 m	300 m	250 m
	1.5 mm² (AWG15)	500 m	500 m	400 m
15 Vdc	0.2 mm² (AWG 24)	250 m	150 m	–
	0.5 mm² (AWG 20)	500 m	400 m	–
	0.75 mm² (AWG 18)	500 m	500 m	–
24 Vdc	0.2 mm² (AWG 24)	500 m	–	–



PIN	SIGNAL	FUNCTION	ELECTRICAL CHARACTERISTICS
1	A+	Channel A	Incremental Signal: +12Vdc or +15Vdc or +24Vdc Input Impedance: 2kΩ Max Frequency: 300kHz Low level: ≤2Vdc High level: ≥9Vdc
2	A-	Channel /A	
3	B+	Channel B	
4	B-	Channel /B	
5	V+	Software configurable encoder supply voltage	+12Vdc / 200mA or +15Vdc / 175mA or +24Vdc / 100mA
6	V+		
7	0V	Reference potential for encoder supply	–
8	0V		
SHIELD		Overall cable shielding for signal lines	The shield has to be connected to the drive cabling plate

Encoder can be configured in [Complete settings] → [Encoder configuration].
For more information, refer to the ATV900 Programming Manual (NHA80757).

		PUSH PULL			OPEN COLLECTOR					
PIN	**TWISTED WIRE PAIR**	**A/AB/B DIFFERENTIAL**	**AB SINGLE ENDED**	**A SINGLE-ENDED**	**A/AB/B DIFFERENTIAL**	**AB PNP**	**AB NPN**	**A PNP**	**A NPN**	**I/O**
1	1	R	R	R	R	R	R**	R	R**	I
2		R	R*	R*	R	R*	R	R*	R	I
3	2	R	R	–	R	R	R**	–	–	I
4		R	R*	–	R	R*	R	–	–	I
5	3	R	R	R	R	R	R	R	R	O
6	Opt.	–	–	–	–	–	R**	–	R**	O
7	3	R	R	R	R	R	R	R	R	O
8	Opt.	–	R*	R*	–	R*	–	R*	–	O
SHIELD		R	R	R	R	R	R	R	R	–

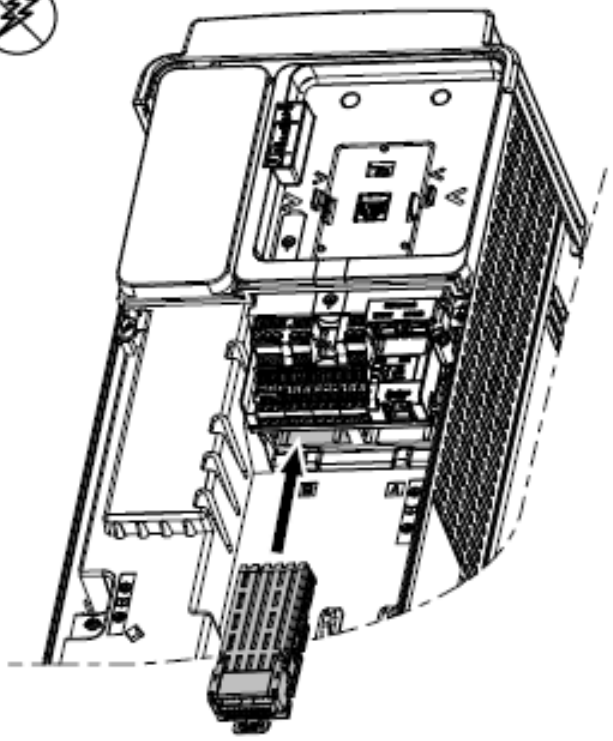
R: Required *: The inputs have to be wired to the 0V pins

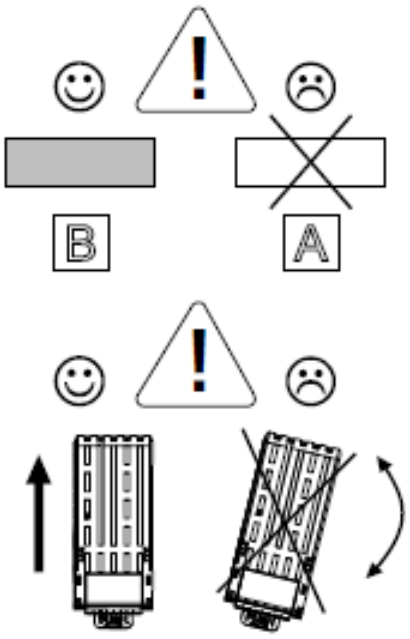
– : Not required **: The inputs have to be wired to the V+ pins Opt. : Optional

R: Required *: The inputs have to be wired to the 0V pins
– : Not required **: The inputs have to be wired to the V+ pins
Opt. : Optional

ATV900
Mounting

1





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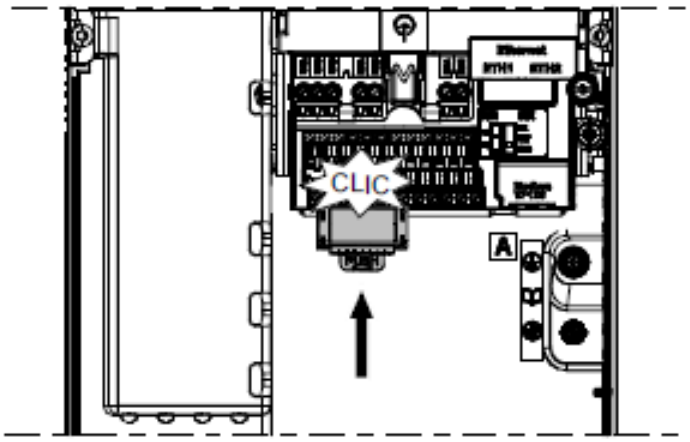

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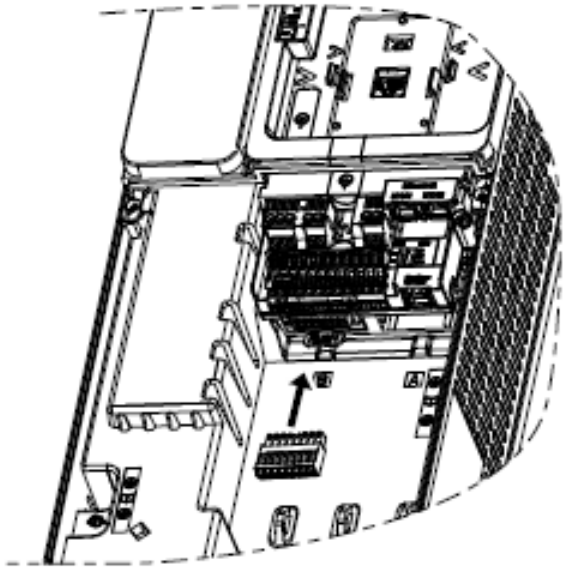

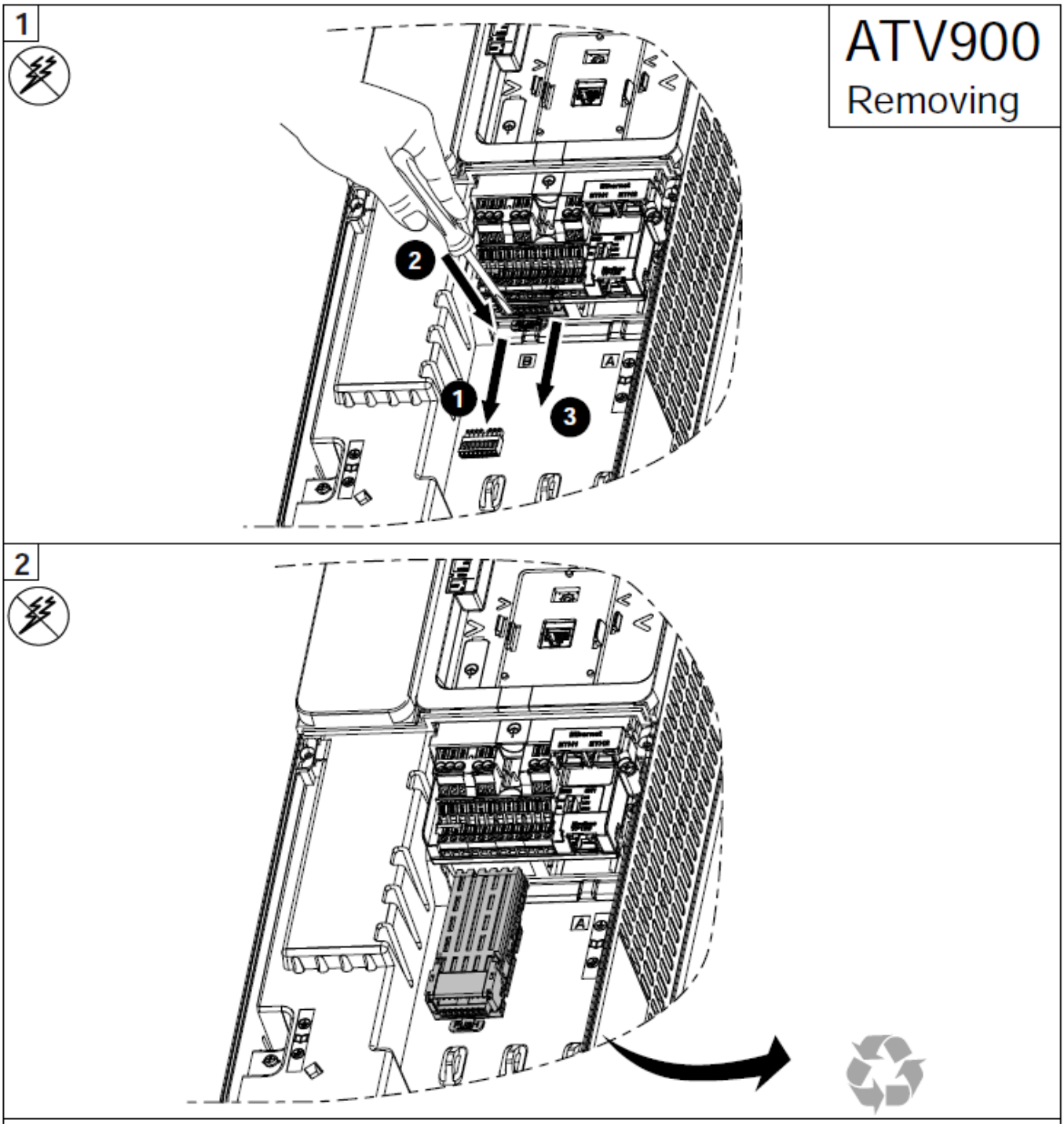

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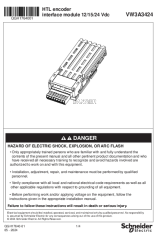
Documents / Resources



Schneider VW3A3424 HTL Encoder Interface Module [pdf] User Guide
VW3A3424 HTL Encoder Interface Module, VW3A3424, HTL Encoder Interface Module, Interface Module, Module

References

- **User Manual**