

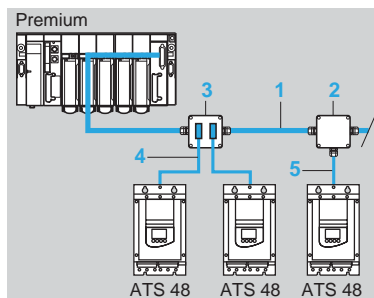
## Soft starters

### Altistart 48 soft start - soft stop units

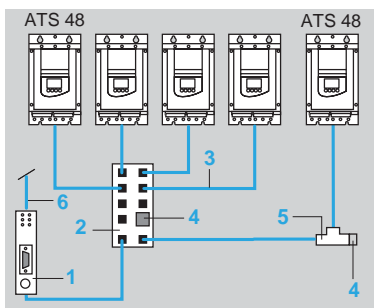
Options: Communication modules

#### Presentation

The Altistart 48 can be connected directly to the Modbus bus using an RJ45 connector and communicates using the RS 485 serial link (2-wire) and the Modbus RTU protocol. The communication function provides access to the configuration, adjustment, control and signalling functions of the starter.



- 1 Modbus cable **TSX SCA ●00**
- 2 Junction box **TSX SCA 50**
- 3 Subscriber sockets **TSX SCA 62**
- 4 Modbus drop cable **VW3 A8 306**
- 5 Modbus drop cable **VW3 A8 306 D30**



- 1 Communication module
- 2 Modbus hub **LU9 GC3**
- 3 Modbus drop cable **VW3 A8 306 R●●**
- 4 Line terminator **VW3 A8 306 RC**
- 5 Modbus T-junction box **VW3 A8 306 TF3**
- 6 To other buses or networks

The Altistart 48 can be connected to other buses or networks using the communication modules and accessories below.

#### References

Communication modules	Cables to be connected	Reference	Weight kg	
<b>Ethernet/Modbus bridge</b> with 1 x Ethernet 10baseT port (RJ45 type)	To be connected using cable VW3 P10 306 R10	<b>174 CEV 300 10</b>	0.500	
<b>FIPIO/Modbus gateway</b>	To be connected using cables VW3 A8 306 R●●	<b>LUF P1 ▲</b>	0.240	
<b>DeviceNet/Modbus gateway</b>	To be connected using cables VW3 A8 306 R●●	<b>LUF P9 ▲</b>	0.240	
<b>Profibus DP/Modbus gateway</b>	To be connected using cable VW3 P07 306 R10	<b>LA9 P307</b>	0.240	
Connection accessories	Connectors	Reference	Weight kg	
<b>Junction box</b> (to be connected with cable VW3 A8 306 D30)	3 screw terminals	<b>TSX SCA 50</b>	0.520	
<b>2-channel subscriber sockets</b> (to be connected with cable VW3 A8 306)	2 15-way female SUB-D connectors and 2 screw terminals	<b>TSX SCA 62</b>	0.570	
<b>Modbus hub</b>	8 RJ45 connectors	<b>LU9 GC3 ▲</b>	0.500	
<b>Line terminator</b>	–	<b>VW3 A8 306 RC</b>	–	
<b>Modbus T-junction box</b>	–	<b>VW3 A8 306 TF3</b>	–	
Connecting cables	Connectors	Reference	Weight kg	
<b>For bus and networks</b>				
<b>Modbus</b>	3	1 RJ45 connector and one end stripped	<b>VW3 A8 306 D30</b>	0.150
	3	1 RJ45 connector and 1 15-way male SUB-D connector	<b>VW3 A8 306</b>	0.150
<b>FIPIO,</b>	0.3	2 RJ45 connectors	<b>VW3 A8 306 R03</b>	0.050
<b>DeviceNet</b>	1	2 RJ45 connectors	<b>VW3 A8 306 R10</b>	0.050
<b>Modbus</b>	3	2 RJ45 connectors	<b>VW3 A8 306 R30</b>	0.150
<b>Profibus DP</b>	1	2 RJ45 connectors	<b>VW3 P07 306 R10</b>	0.050
<b>Ethernet</b>	1	2 RJ45 connectors	<b>VW3 P10 306 R10</b>	0.050

▲ To be launched 3rd quarter 2002.



174 CEV 300 10



LUF P1

## Soft starters

### Altistart 48 soft start - soft stop units

Options: Remote terminal, line chokes, protective covers, documentation



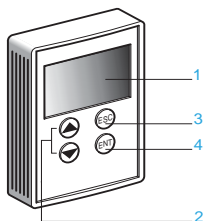
VW3 G48101

#### Remote terminal

The terminal can be mounted on the door of a wall-fixing or floor-standing enclosure. It has the same signalling display and configuration buttons as the terminal integrated in the starter. A switch to lock access to the menu is located at the rear of the terminal.

The option comprises:

- the remote terminal
- a mounting kit containing a cover, screws and an IP 54 seal on the front panel
- a 3 m connecting cable with a 9-way SUB-D connector for connecting to the terminal and an RJ45 connector for connecting to the Altistart 48



- 1 Information is displayed in the form of codes or values in three "7-segment" displays
- 2 Buttons for scrolling through the menus or modifying values
- 3 "ESC": Button for exiting the menus (cannot be used for validation purposes)
- 4 "ENT": Validation button for entering a menu or confirming the new value selected

#### Reference

Description	Reference	Weight kg
Remote terminal	VW3 G48101	0.200

#### Line chokes

The use of line chokes is recommended in particular when installing several electronic starters on the same line supply. The values of the chokes are defined for a voltage drop between 3% and 5% of the nominal line voltage. Install the line choke between the line contactor and the starter.

#### References

For starters	Value of the choke mH	Nominal current A	Degree of protection	Reference	Weight kg
ATS 48D17●	1.7	15	IP 20	VZ1 L015UM17T	2.100
ATS 48D22●	0.8	30	IP 20	VZ1 L030U800T	4.100
ATS 48D32● and 48D38●	0.6	40	IP 20	VZ1 L040U600T	5.100
ATS 48D47● and 48D62●	0.35	70	IP 20	VZ1 L070U350T	8.000
ATS 48D75● to 48C14●	0.17	150	IP 00	VZ1 L150U170T	14.900
ATS 48C17● to 48C25●	0.1	250	IP 00	VZ1 L250U100T	24.300
ATS 48C32●	0.075	325	IP 00	VZ1 L325U075T	28.900
ATS 48C41● and 48C48●	0.045	530	IP 00	VZ1 L530U045T	37.000
ATS 48C59● to 48M10●	0.024	1025	IP 00	VZ1 LM10U024T	66.000
ATS 48M12●	0.016	1435	IP 00	VZ1 LM14U016T	80.000

**Note:** Line chokes with IP 00 degree of protection must be fitted with a protective bar to protect personnel against electrical contact.

#### Protective covers for power terminals

To be used with tags closed

#### References

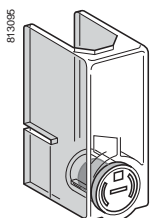
For starters	Number of covers per set	Reference	Weight kg
ATS 48C14● and ATS 48C17●	6 (1)	LA9 F702	0.250
ATS 48C21●, ATS 48C25● and ATS 48C32●	6 (1)	LA9 F703	0.250

(1) The starters have 9 unprotected power terminals.

**Note:**

#### Documentation

Description	Format	Reference	Weight kg
Altistart 48 user's manual	A5	VVD ED 301066	0.150
Modbus user's manual	A5	VVD ED 302023	0.150
Ethernet, FIPIO, DeviceNet, Profibus DP user's manuals	CD-ROM	DCI CD 398111	0.150



LA9 F702