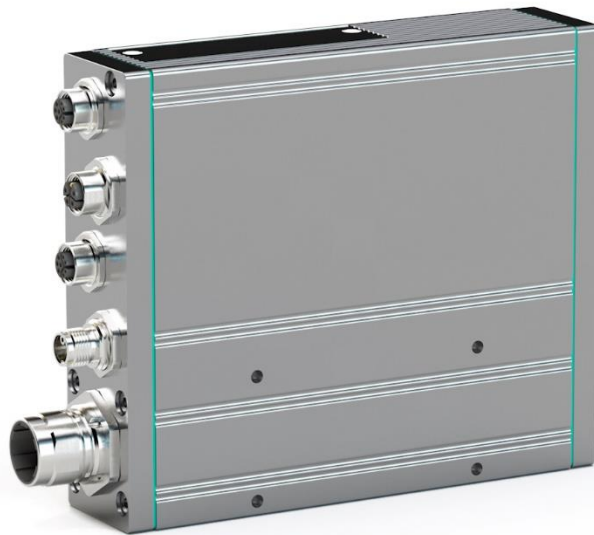


Servo Drives Series D1150

Decentralised Drives IP 65

ENG

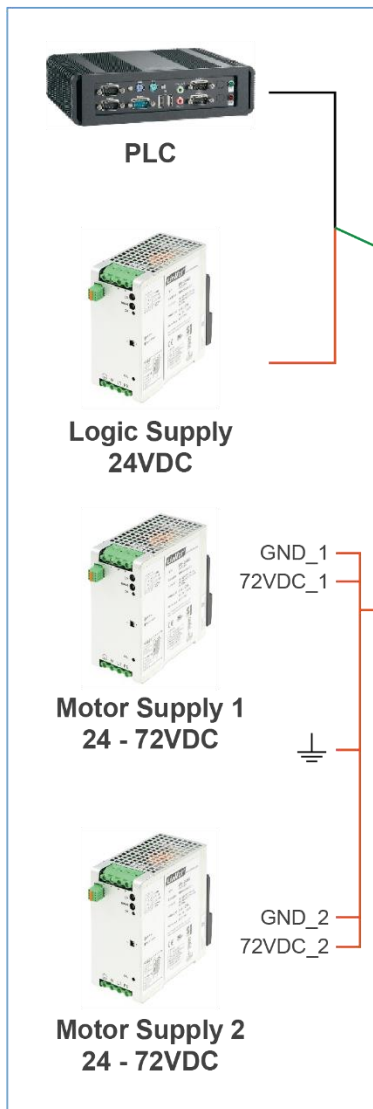


Content

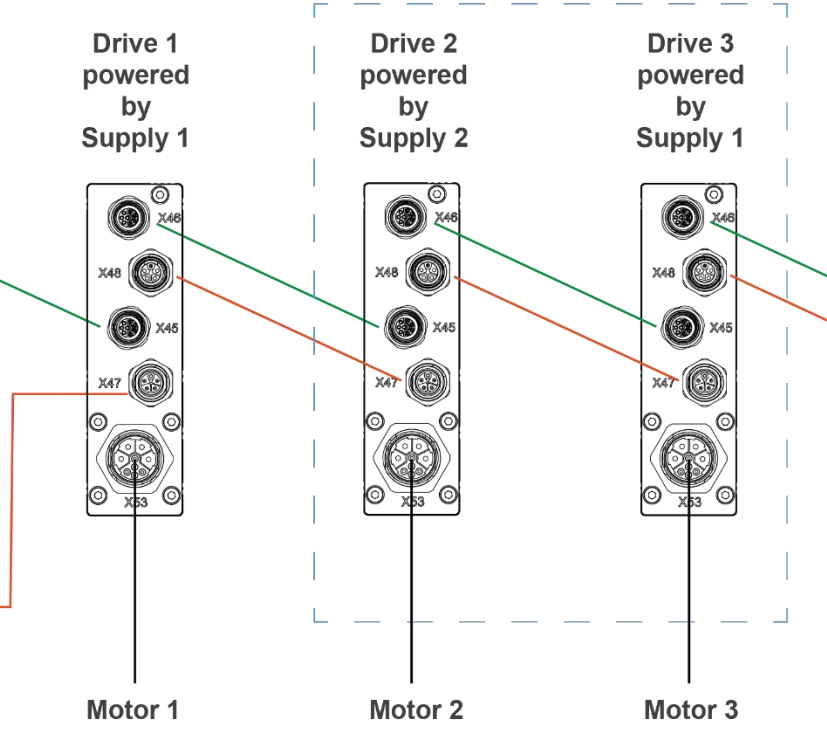
1	System Overview	3
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1 System Overview

Control cabinet



Daisy Chaining



Caution!

Not compliant with Power-over-Ethernet (PoE) standard.



The number of devices for "daisy chain" depends on the current load of the individual linear motors and the connectors / cables.

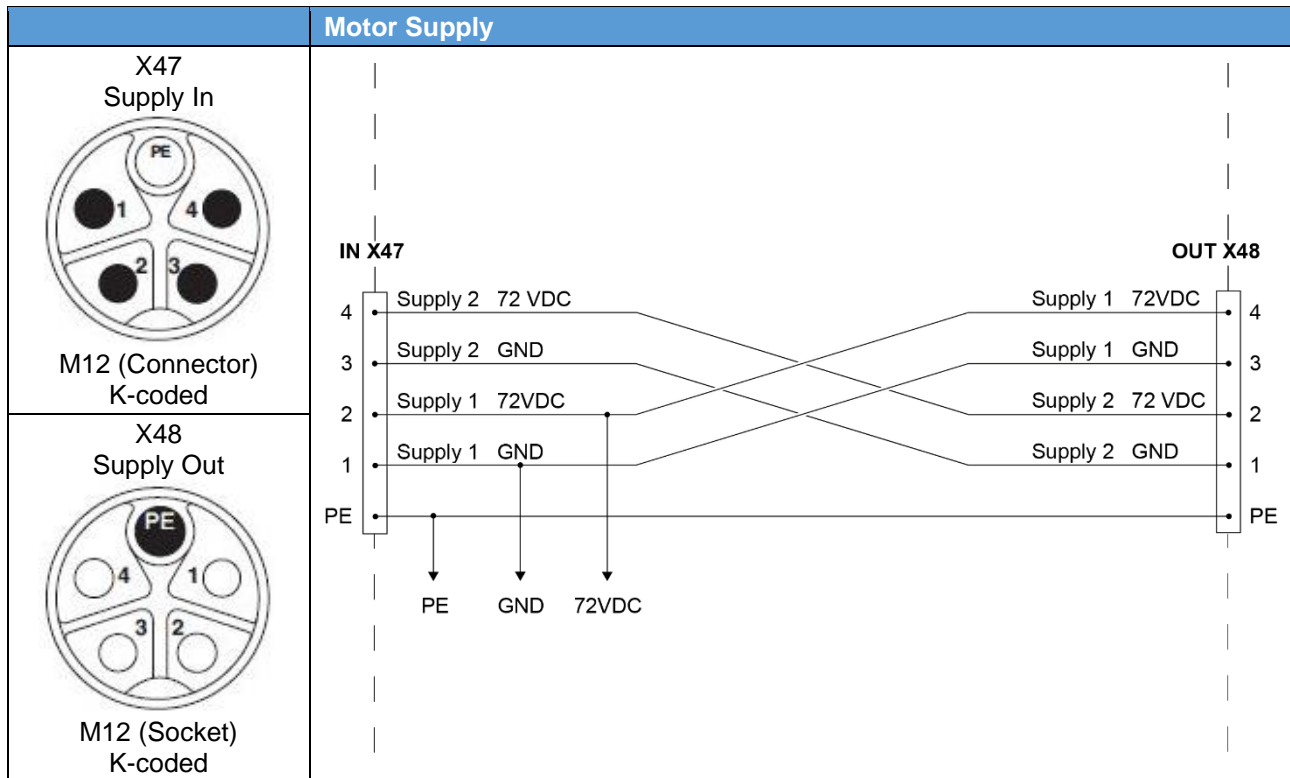
There are two separate supply lines in the plug / connection cable for the motor supply.

With several axes, the current load can thus be distributed over two power supply units and twice the number of drives can be connected in series. With only a few axes and lower power requirements, the two supply lines can also be supplied by only one power supply unit.

The supply lines are internally crossed in the drive, so that with a 1:1 cabling the drives are always supplied alternately from supply 1 and supply 2.

2 Connector Configuration / Interfaces

2.1 X47 / 48



Motor Supply: 72VDC nominal, 24...85VDC (External Fuse: 16AT (16A slow blow) / min. 100VDC)

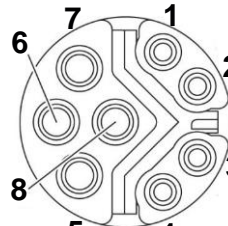
Motor Supply 1: First supply line Motor supply Drive and internal connection X47 - X48

Motor Supply 2: Second supply line, internal connection X47 - X48

Absolute max. Rating: 72VDC +20%.

If motor supply voltage exceeds 90VDC, the drive will go into error state.

2.2 X45 / 46

Logic Supply / IO Connection				
<p>X45 In X46 Out</p>  <p>M12 (f) Y-coded</p>	1	TD+	Transmission Data +	
	2	TD-		Transmission Data -
	3	RD+		Receiver Data +
	4	RD-		Receiver Data -
	5	+24VDC	Supply	Logic Supply 22-26 VDC
	6	GND	Supply	Ground
	7	+24VDC	Supply	Logic Supply 22-26 VDC
	8	GND	Supply	Ground

Supply 24V / typ. 150 mA

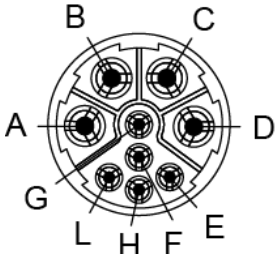
Fieldbus Pin 1-4:

Only use Ethernet cables of category 5 (or higher) for the connection of fieldbus devices.


The permissible power length between two EtherCAT devices must not exceed 100 m.

Pre-assembled cables from third-party manufacturers are recommended for connecting devices.

2.3 X53

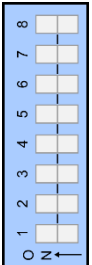
C-Connector		
	<p>A B C D E F G H L Housing</p>	<p>Phase 1+ Phase 1- Phase 2+ Phase 2- +5V GND Sensor Sine Sensor Cosine Temp. Sensor Shield</p>

2.4 X19

System		
 <p>RJ-45</p>	<p>1 2 3 4 5 6 7 8 Case</p>	<p>(Do not connect) (Do not connect) RS232 Rx GND GND RS232 Tx (Do not connect) (Do not connect) Shield</p>

Use isolated USB-RS232 converter (Art.-No. 0150-2473) for configuration over RS232.

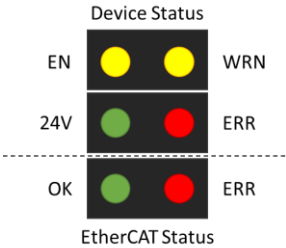
2.5 S1 - S2

Address Selectors (Feldbus)		
	<p>S1 (5..8)</p> <p>S2 (1..4)</p>	<p>Bus ID High (0 ... F). Bit 5 is the LSB, Bit 8 the MSB.</p> <p>Bus ID Low (0 ... F). Bit 1 is the LSB, Bit 4 the MSB.</p>

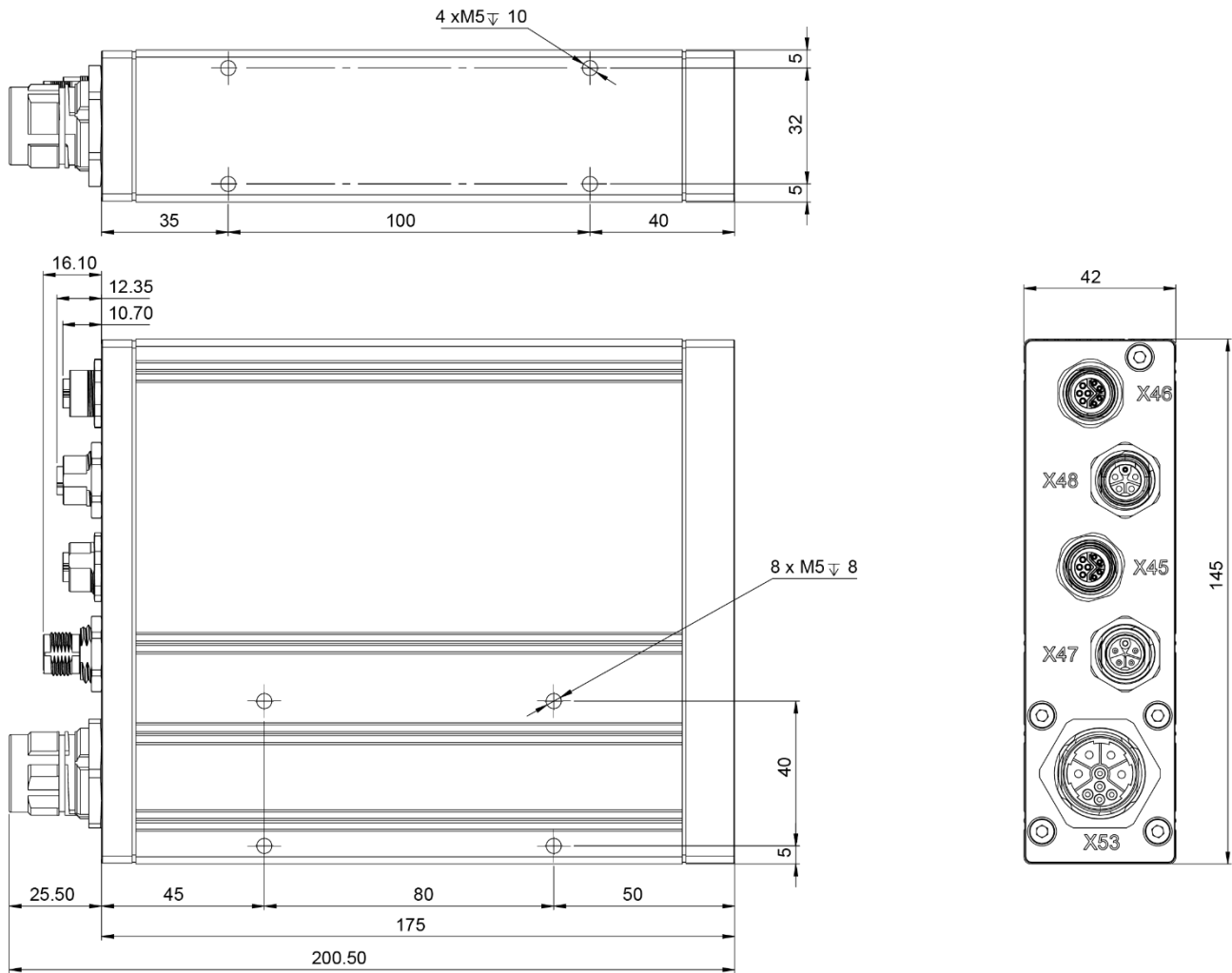
2.6 S5

Bootstrap		
S5	Bootstrap (Internal use only)	

2.7 LEDs

State Displays			
	<p>24V EN WRN ERR</p> <p>OK ERR</p>	<p>Green Yellow Yellow Red</p> <p>Green Red</p>	<p>24V Logic Supply OK Motor Enabled / Error Code (Low Nibble) Warning / Error Code (High Nibble) Error</p> <p>Feldbus OK Feldbus Error</p>

3 Dimensions



in mm

Item	Description	Availability
D1150-EC-XC-0S-000	EtherCAT Drive (72V/25A)	available
D1150-DS-XC-0S-000	EtherCAT CoE Drive (72V/25A)	available
D1150-SE-XC-0S-000	EtherCAT SoE Drive (72V/25A)	available
D1150-PN-XC-0S-000	ProfiNet Drive (72V/25A)	on request
D1251-EC-XC-0S-000	EtherCAT Drive (72V/25A)	on request
D1251-DS-XC-0S-000	EtherCAT CoE Drive (72V/25A)	on request
D1251-SE-XC-0S-000	EtherCAT SoE Drive (72V/25A)	on request
D1251-PN-XC-0S-000	ProfiNet Drive (72V/25A)	on request
D1251-PD-XC-0S-000	PROFIdrive Drive (72V/25A)	on request
D1251-IP-XC-0S-000	Ethernet/IP Drive (72V/25A)	on request
D1251-SC-XC-0S-000	Sercos III Drive (72V/25A)	on request
D1251-PL-XC-0S-000	POWERLINK Drive (72V/25A)	on request

Notes

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