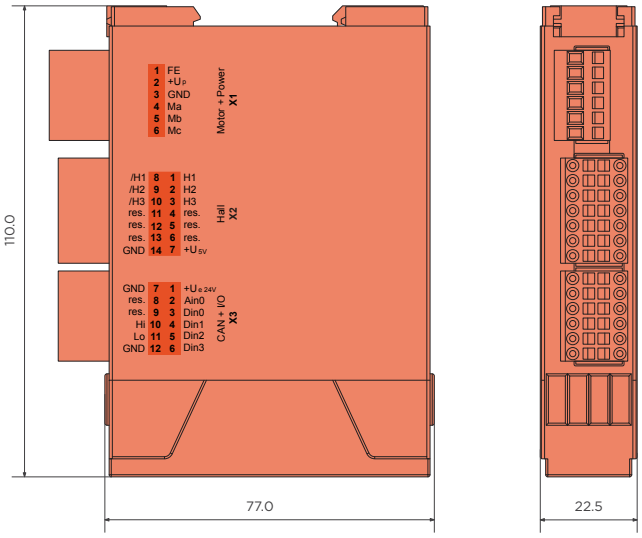
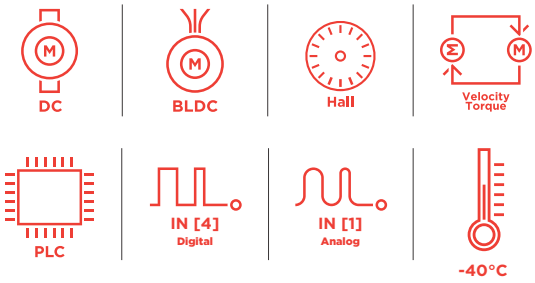
SVTE-A-B40-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

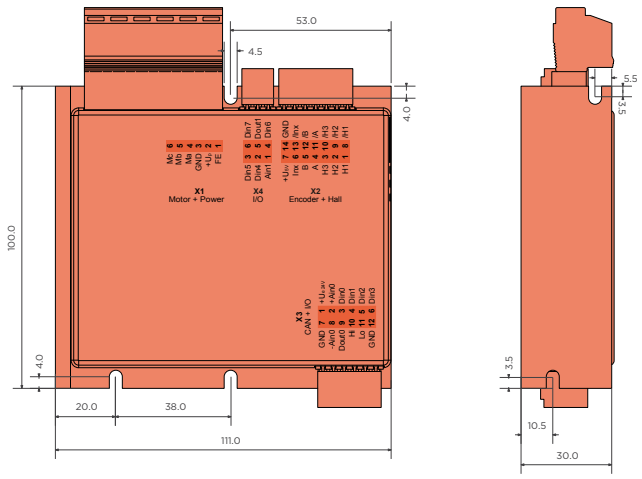
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	30
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Galvanically isolated		no
	Hall sensors		
13	Input voltage (24VDC tolerant)	VDC	0..5
14	Signal type		differential, open collector, single ended, 5VDC pull up intern 920 Ohm
	Digital input		
15	Number		4 (Din0..3)
	Analog inputs		
16	Number		1 (Ain0)
	Environment		
17	Operating temperature	°C	-40...+70

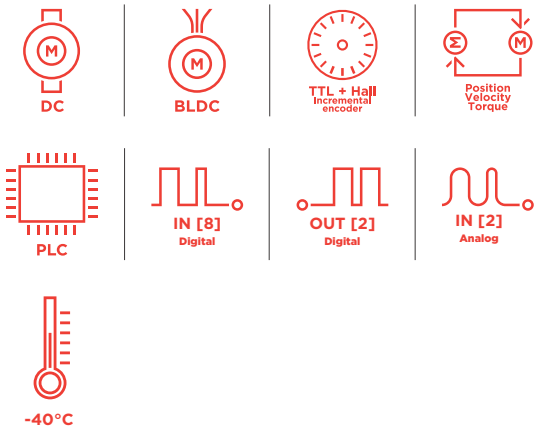
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	res.	Reserved
5	res.	Reserved
6	res.	Reserved
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	res.	Reserved
12	res.	Reserved
13	res.	Reserved
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	Ain0	Analog input 0
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	res.	Reserved
9	res.	Reserved
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground

SVTE-A-E25-CanOpen
Servo Drives

60VDC | 35A
DC motors, BLDC motors





CANopen

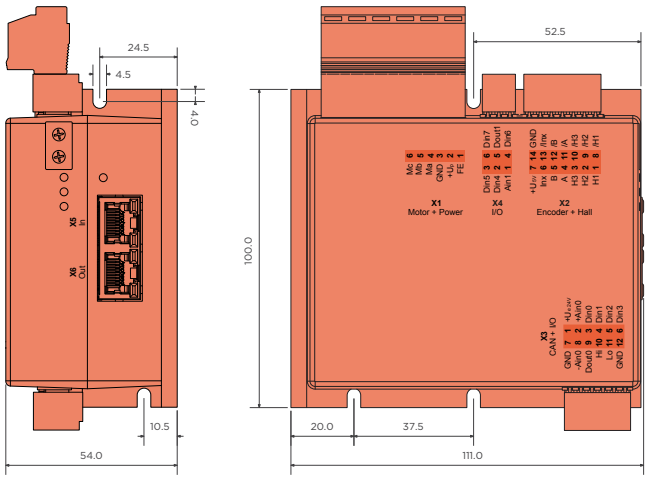
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	100
4	Continuous output current @ Up=24VDC	A	35
5	Continuous output current @ Up=48VVDC	A	26
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	111 x 100 x 30
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		yes
	Incremental encoder		
14	Input voltage (24VDC tolerant)	VDC	0..5
15	Signal type		differential, open collector, single ended
	Hall sensors		
16	Input voltage (24VDC tolerant)	VDC	0..5
17	Signal type		differential, open collector, single ended
	Digital input		
18	Number		8 (Din0..7)
	Digital output		
19	Number		2 (Dout0..1)
20	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
21	Number		2 (Ain0..1)
22	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
23	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
24	Operating temperature	°C	-40...+70

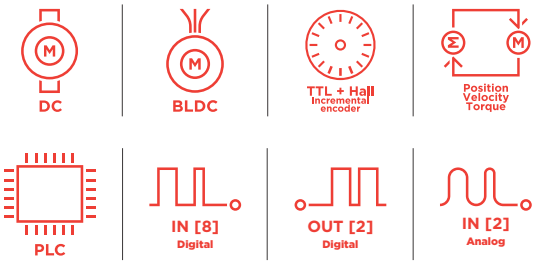
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	Din7	Digital input 7

SVTE-A-E25-EtherCAT
Servo Drives

60VDC | 35A
DC motors, BLDC motors





CANopen | EtherCAT

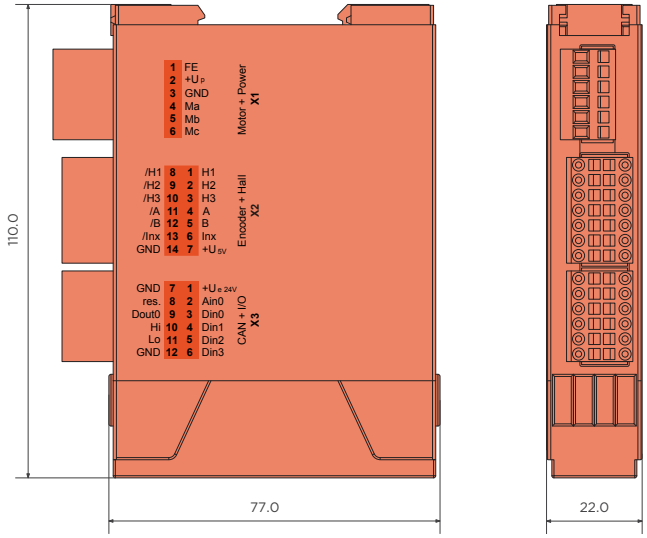
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	100
4	Continuous output current @ Up=24VDC	A	35
5	Continuous output current @ Up=48VDC	A	26
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	111 x 100 x 54
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		yes
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
19	Input voltage (24VDC tolerant)	VDC	0..5
20	Signal type		differential, open collector, single ended
	Hall sensors		
21	Input voltage (24VDC tolerant)	VDC	0..5
22	Signal type		differential, open collector, single ended
	Digital input		
23	Number		8 (Din0..7)
	Digital output		
24	Number		2 (Dout0..1)
25	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
26	Number		2 (Ain0..1)
27	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
28	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
29	Operating temperature	°C	-25...+70

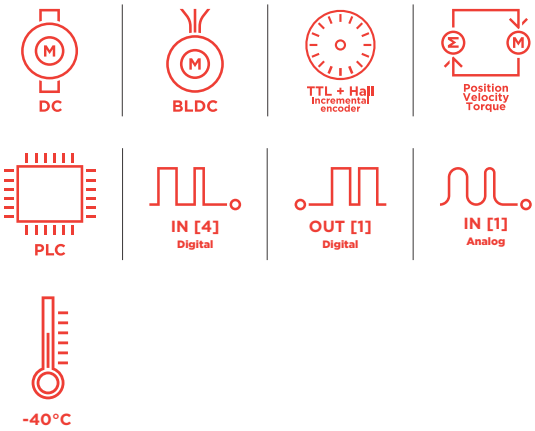
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	Din7	Digital input 7
X5	EtherCAT - In port	
X6	EtherCAT - Out port	

SVTE-A-E40-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

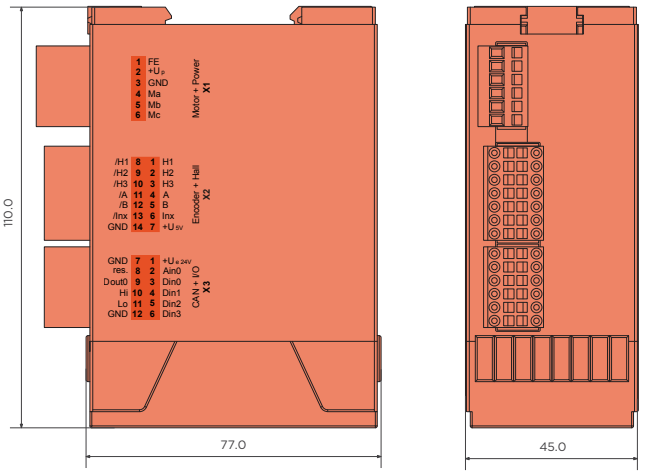
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	30
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		yes
	Incremental encoder		
14	Input voltage (24VDC tolerant)	VDC	0..5
15	Signal type		differential, open collector, single ended
	Hall sensors		
16	Input voltage (24VDC tolerant)	VDC	0..5
17	Signal type		differential, open collector, single ended
	Digital input		
18	Number		4 (Din0..3)
	Digital output		
19	Number		1 (Dout0..1)
20	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
21	Number		1 (Ain0..1)
22	Signal type		0..10 VDC, 12 Bit, single ended
	Environment		
23	Operating temperature	°C	-40...+70

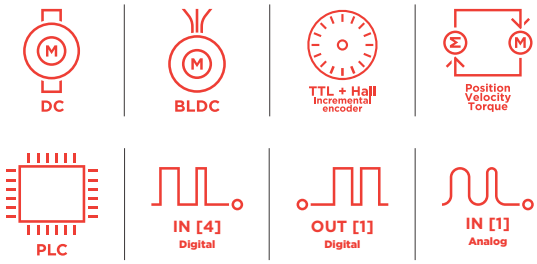
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	Ain0	Analog input 0
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	res.	Reserved
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground

SVTE-A-E40-EtherCAT
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen | EtherCAT

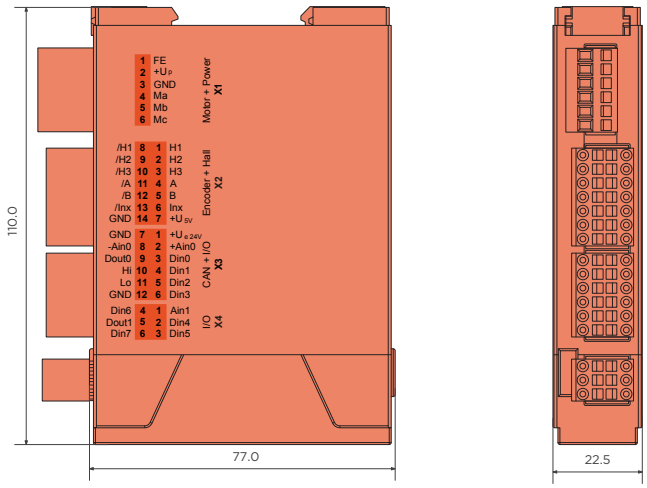
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	30
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 45 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
19	Input voltage (24VDC tolerant)	VDC	0..5
20	Signal type		differential, open collector, single ended
	Hall sensors		
21	Input voltage (24VDC tolerant)	VDC	0..5
22	Signal type		differential, open collector, single ended
	Digital input		
23	Number		4 (Din0..3)
	Digital output		
24	Number		1 (Dout0..1)
25	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
26	Number		1 (Ain0..1)
27	Signal type - Ain0		0..10 VDC, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-25...+70

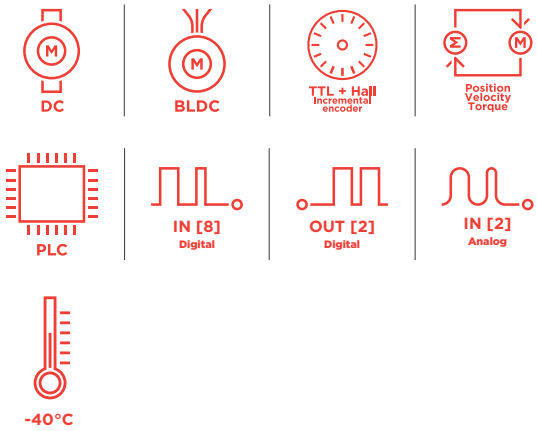
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	Ain0	Analog input 0
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	res.	Reserved
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X5	EtherCAT - In port	
X6	EtherCAT - Out port	

SVTE-A-E45-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

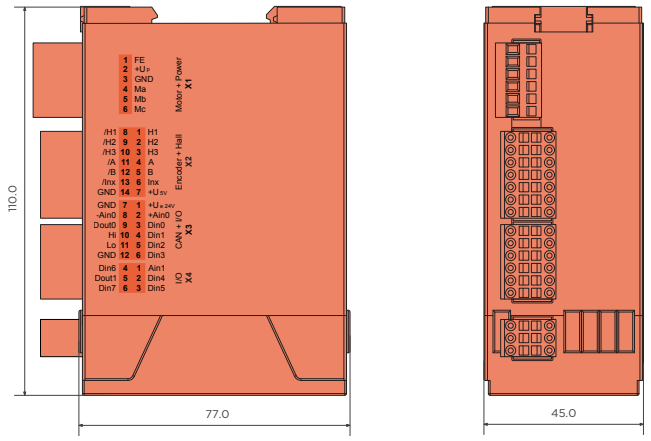
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage (24VDC tolerant)	V	0..5
15	Signal type		differential, open collector, single ended
	Hall sensors		
16	Input voltage (24VDC tolerant)	V	0..5
17	Signal type		differential, open collector, single ended
	Digital input		
18	Number		8 (Din0..7)
	Digital output		
19	Number		2 (Dout0..1)
20	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
21	Number		2 (Ain0..1)
22	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
23	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
24	Operating temperature	°C	-40...+70

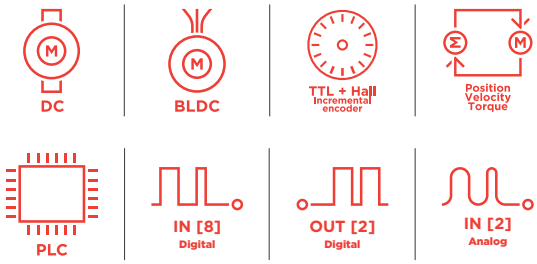
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	Din7	Digital input 7

SVTE-A-E45-EtherCAT
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen | EtherCAT

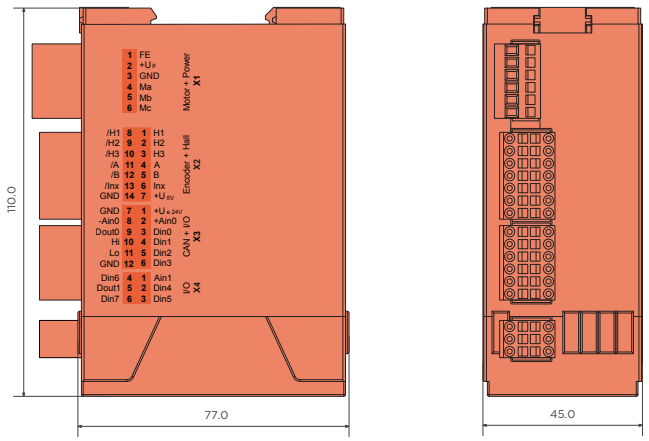
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 45 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
19	Input voltage (24VDC tolerant)	VDC	0..5
20	Signal type		differential, open collector, single ended
	Hall sensors		
21	Input voltage (24VDC tolerant)	VDC	0..5
22	Signal type		differential, open collector, single ended
	Digital input		
23	Number		8 (Din0..7)
	Digital output		
24	Number		2 (Dout0..1)
25	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
26	Number		2 (Ain0..1)
27	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
28	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
29	Operating temperature	°C	-25...+70

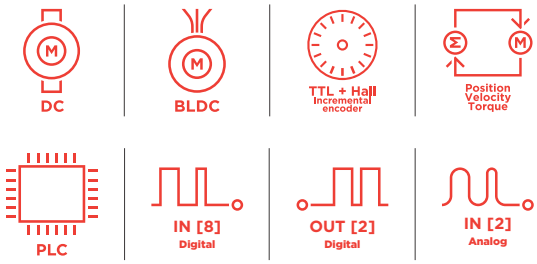
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	Din7	Digital input 7
X5	EtherCAT - In port	
X6	EtherCAT - Out port	

SVTE-A-E45-Profinet
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen | PROFINET

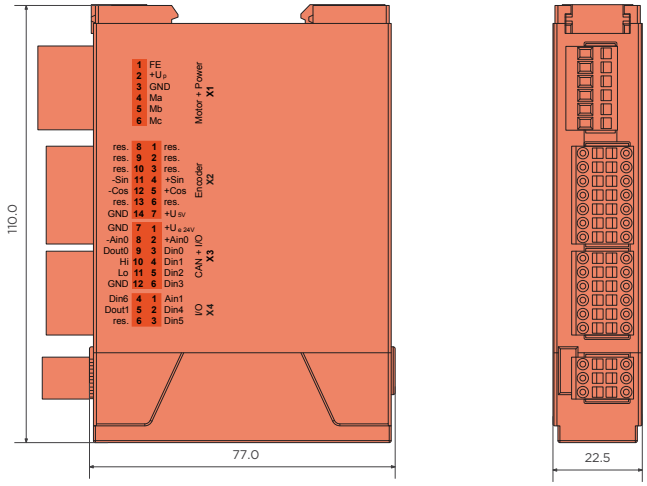
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 45 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Profinet		
14	Type		Slave
15	Physical layer		100 Base-Tx
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (PORT1,PORT2)
	Incremental encoder		
18	Input voltage (24VDC tolerant)	VDC	0..5
19	Signal type		differential, open collector, single ended
	Hall sensors		
20	Input voltage (24VDC tolerant)	VDC	0..5
21	Signal type		differential, open collector, single ended
	Digital input		
22	Number		8 (Din0..7)
	Digital output		
23	Number		2 (Dout0..1)
24	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
25	Number		2 (Ain0..1)
26	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
27	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-25...+40

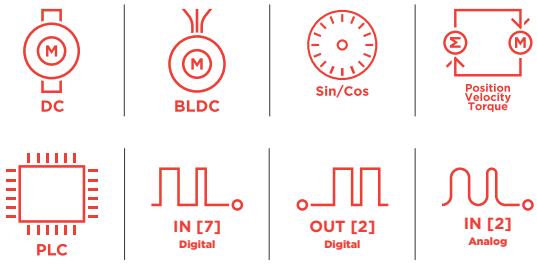
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
8	/H1	Hall sensor 1 inverted
9	/H2	Hall sensor 2 inverted
10	/H3	Hall sensor 3 inverted
11	/A	Inc. encoder, A channel invert
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	Din7	Digital input 7
X5	Profinet - PORT1	
X6	Profinet - PORT2	

SVTE-A-E47-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

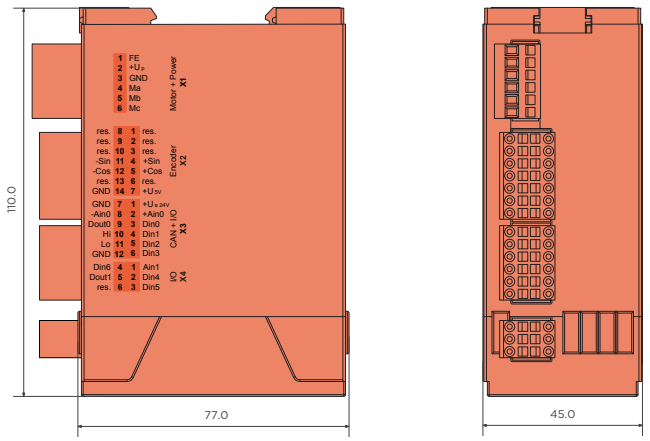
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Encoder		
14	Input voltage	VDC	1 V peak-peak, differential
15	Signal type		sin / cos, analog, differential
16	Resolution		13 bit per sine period
	Digital input		
17	Number		7 (Din0..6)
	Digital output		
18	Number		2 (Dout0..1)
19	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
20	Number		2 (Ain0..1)
21	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
22	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
23	Operating temperature	°C	-40...+70

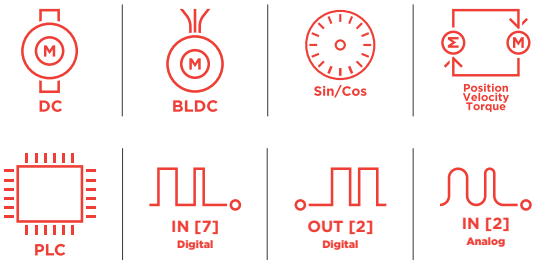
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Encoder sin/cos	
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	+Sin	Sine + signal
5	+Cos	Cosine + signal
6	res.	Reserved
7	+U5V	5V output voltage for sensor supply Sensors: encoder
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	-Sin	Sine - signal
12	-Cos	Cosine - signal
13	res.	Reserved
14	GND	Ground for sensor supply Notice: don´t connect with system GND
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	res.	Reserved

SVTE-A-E47-EtherCAT
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen | EtherCAT

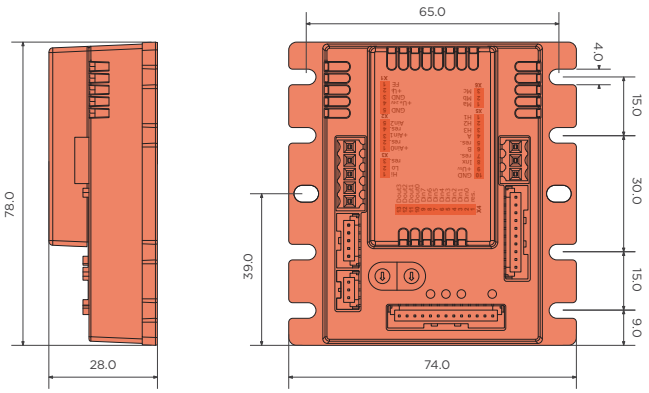
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	110 x 45 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Encoder		
19	Input voltage		sin / cos
20	Signal type		1 VDC peak-peak, differential
21	Resolution		13 bit per sine period
	Digital input		
22	Number		7 (Din0..6)
	Digital output		
23	Number		2 (Dout0..1)
24	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
25	Number		2 (Ain0..1)
26	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
27	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-25...+70

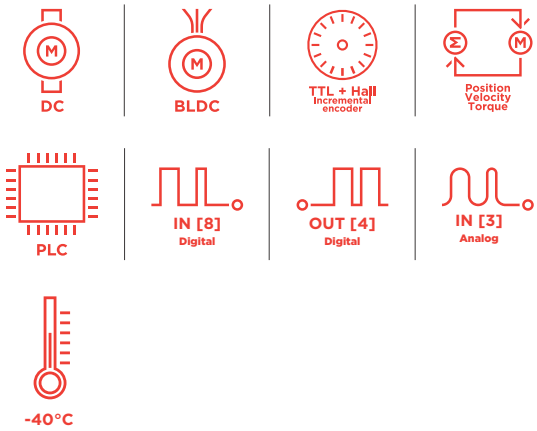
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
X2	Encoder sin/cos	
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	+Sin	Sine + signal
5	+Cos	Cosine + signal
6	res.	Reserved
7	+U5V	5V output voltage for sensor supply Sensors: encoder
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	-Sin	Sine - signal
12	-Cos	Cosine - signal
13	res.	Reserved
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital input 6
5	Dout1	Digital output 1
6	res.	Reserved
X5	EtherCAT - PORT1	
X6	EtherCAT - PORT2	

SVTE-A-E50-CanOpen
Servo Drives

60VDC | 7.5A
DC motors, BLDC motors





CANopen

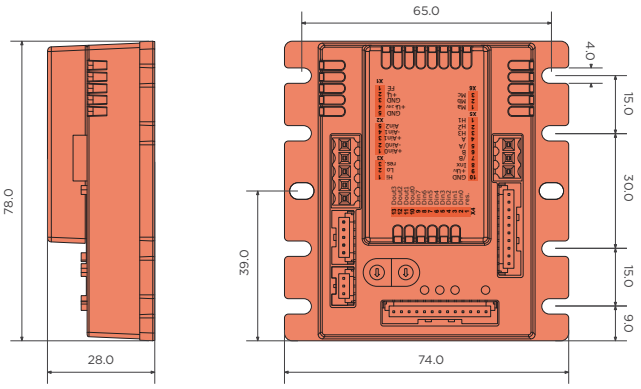
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	25
4	Continuous output current @ Up=24VDC (certified UL)	A	7.5
5	Continuous output current @ Up=60VDC (certified UL)	A	7
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		Yes
8	BLDC motors		Yes
9	Stepper motors		No
	Mechanical		
10	Size LxWxH	mm	78 x 74 x 28
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage	VDC	0..5
15	Signal type		open collector, single ended
	Hall sensors		
16	Input voltage	VDC	0..5
17	Signal type		open collector, single ended
	Digital input		
18	Number		8 (Din0..7)
	Digital output		
19	Number		4 (Dout0..3)
20	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
21	Number		3 (Ain0..2)
22	Signal type - Ain0..1		0..10V, 12 Bit, Single Ended
23	Signal type - Ain2		0..5V, 12 Bit, Single Ended
	Environment		
24	Operating temperature	°C	-40..+70°C

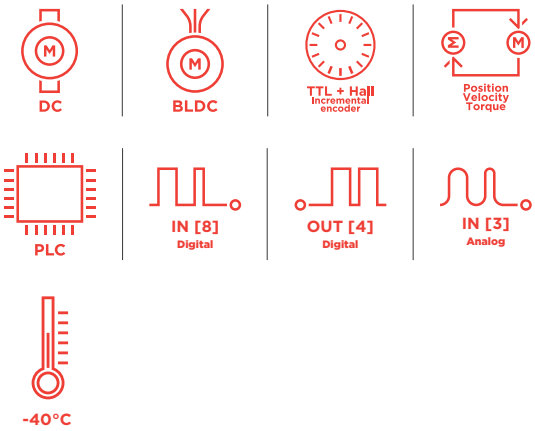
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	Ain0	Analog input 0
2	res.	Reserved
3	Ain1	Analog input 1
4	res.	Reserved
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	res.	Reserved
6	B	Inc. encoder, B channel
7	res.	Reserved
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C

SVTE-A-E55-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

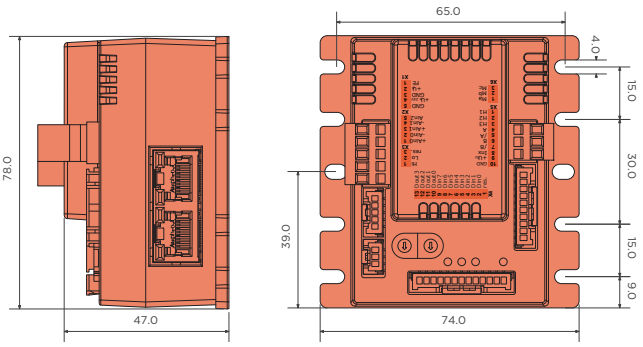
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Continuous output current @ Up=48VDC	A	8.5
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	78 x 74 x 28
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage (24VDC tolerant)	VDC	0..5
15	Signal type		differential, open collector, single ended, 2,5 kOhm input impedance
	Hall sensor		
16	Input voltage	VDC	0..5
17	Signal type		open collector, single ended, 5VDC pull up intern 920 Ohm
	Digital input		
18	Number		8 (Din0..7)
	Digital output		
19	Number		4 (Dout0..3)
20	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
21	Number		3 (Ain0..2)
22	Signal type - Ain0..1		+/- 10VDC, 12 Bit, differential, 200 kOhm input impedance
23	Signal type - Ain2		0..5 VDC, 12 Bit, single ended, 5VDC pull up intern 1,5 kOhm
	Environment		
24	Operating temperature	°C	-40...+70

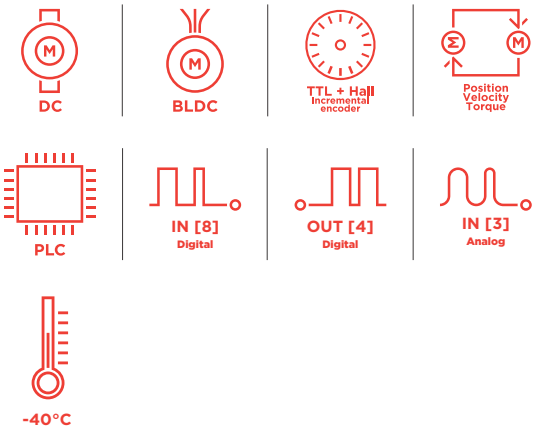
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C

SVTE-A-E55-EtherCAT
Servo Drives

60VDC | 8A
DC motors, BLDC motors





CANopen | EtherCAT

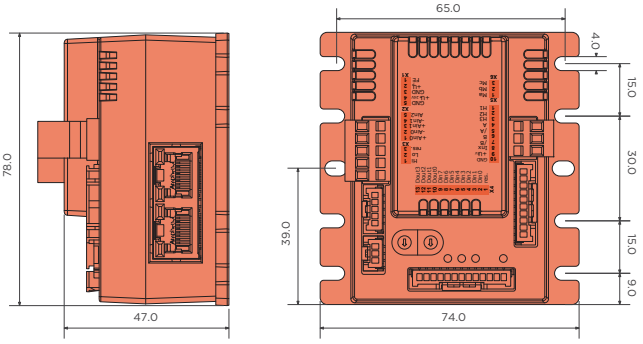
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current	A	8
5	Output voltage		Up to 100%
	Motor types		
6	DC motors		yes
7	BLDC motors		yes
8	Stepper motors		no
	Mechanical		
9	Size LxWxH	mm	78x74x47
	CAN bus		
10	Protocol		DS301
11	Device profile		DS402
12	Galvanically isolated		no
	EtherCAT		
13	Type		EtherCAT Slave
14	Physical layer		100 Base-Tx EtherCAT
15	Max. baudrate		100 Mbit/s
16	Number of ports		2xRJ45 (In,Out)
17	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
18	Input voltage (24VDC tolerant)		0..5
19	Signal type		differential, open collector, single ended
	Hall sensors		
20	Input voltage		0..5
21	Signal type		open collector, single ended
	Digital input		
22	Number		8 (Din0..7)
	Digital output		
23	Number		4 (Dout0..3)
24	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
25	Number		3 (Ain0..2)
26	Signal type - Ain0...1		+/- 10 VDC, 12 Bit, differential
27	Signal type - Ain2		0..5VDC, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-40...+70

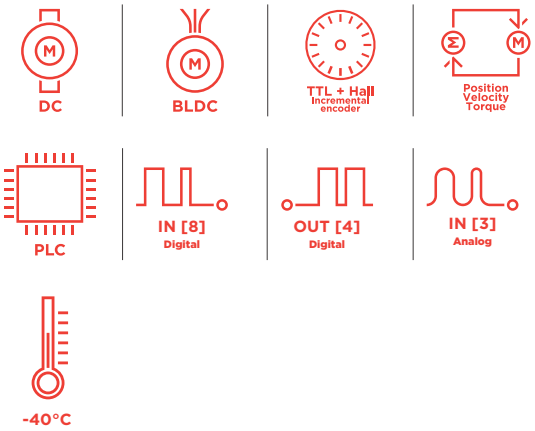
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C
X7	EtherCAT - In port	
X8	EtherCAT - Out port	

SVTE-A-E55-Profinet
Servo Drives

60VDC | 9A
DC motors, BLDC motors





CANopen | PROFINET

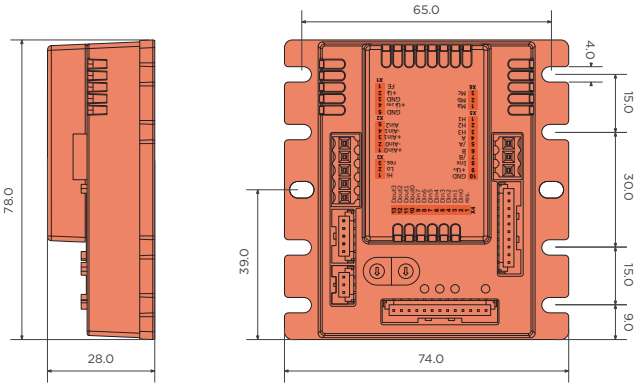
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	9
5	Continuous output current @ Up=48VDC	A	8
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	78 x 74 x 47
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Profinet		
14	Type		Slave
15	Physical layer		100 Base-Tx
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (PORT1, PORT2)
	Incremental encoder		
18	Input voltage (24VDC tolerant)	VDC	0..5
19	Signal type		differential, open collector, single ended, 2.5 kOhm input impedance
	Hall sensors		
20	Input voltage	VDC	0..5
21	Signal type		open collector, single ended, 5VDC pull up intern 920 Ohm
	Digital input		
22	Number		8 (Din0..7)
	Digital output		
23	Number		4 (Dout0..3)
24	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
25	Number		3 (Ain0..2)
26	Signal type - Ain0...1		+/- 10 VDC, 12 Bit, differential, 20 kOhm input impedance
27	Signal type - Ain2		0..5 VDC, 12 Bit, single ended, 5VDC pull up intern 1.5 kOhm
	Environment		
28	Operating temperature	°C	-40...+70

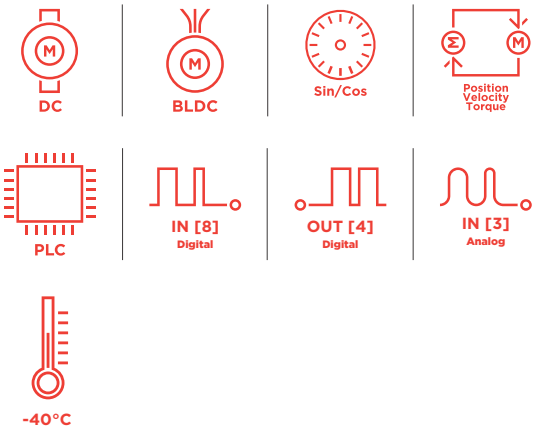
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C
X7	Profinet - In port	
X8	Profinet - Out port	

SVTE-A-E57-CanOpen
Servo Drives

60VDC | 10A
DC motors, BLDC motors





CANopen

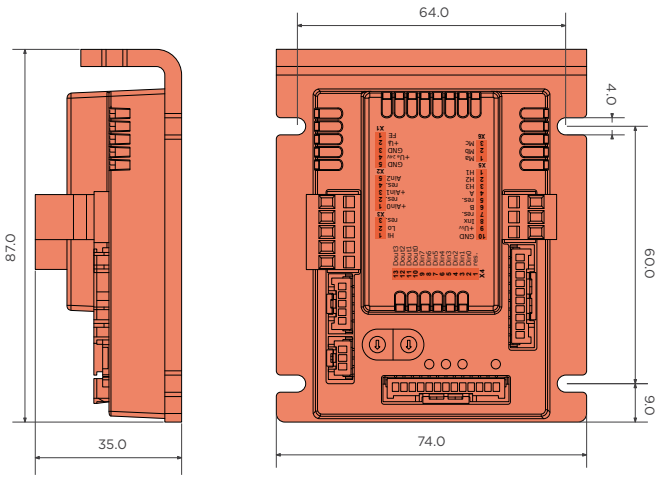
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current @ Up=24VDC	A	10
5	Output voltage		Up to 100%
	Motor types		
6	DC motors		yes
7	BLDC motors		yes
8	Stepper motors		no
	Mechanical		
9	Size LxWxH	mm	78 x 74 x 28
	CAN bus		
10	Protocol		DS301
11	Device profile		DS402
12	Galvanically isolated		no
	Encoder		
13	Input voltage	VDC	1 VDC peak-peak, differential
14	Signal type		sin / cos, analog, differential, 1085 kOhm input impedance
15	Resolution		13 bit per sine period
	Digital input		
16	Number		8 (Din0..7)
	Digital output		
17	Number		4 (Dout0..3)
18	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
19	Number		3 (Ain0..2)
20	Signal type - Ain0..1		+/- 10VDC, 12 Bit, differential, 200 kOhm input impedance
21	Signal type - Ain2		0..5 VDC, 12 Bit, single ended, 5VDC pull up intern 1.5 kOhm
	Environment		
21	Operating temperature	°C	-40...+70

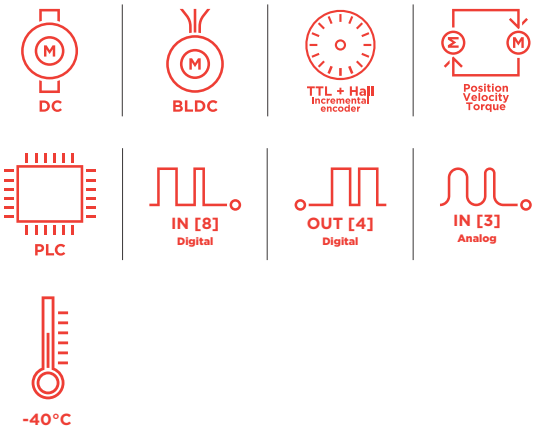
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Encoder SinCos	
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	+Sin	Encoder, plus sine signal
5	-Sin	Encoder, minus sine signal
6	+Cos	Encoder, plus cosine signal
7	-Cos	Encoder, minus cosine signal
8	res.	Reserved
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C

SVTE-A-E50-HC-CanOpen
Servo Drives

60VDC | 14.5A
DC motors, BLDC motors





CANopen

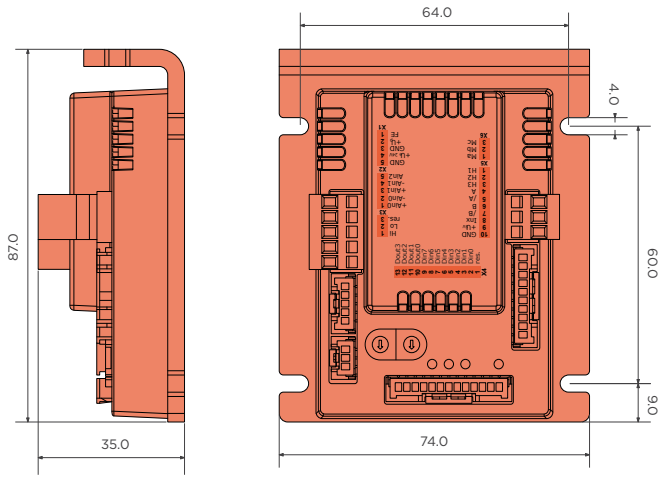
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	25
4	Continuous output current	A	14.5
5	Continuous output current @ Up=24VDC (certified UL)	A	9.5
6	Continuous output current @ Up=60VDC (certified UL)	A	9
7	Output voltage		Up to 90%
	Motor types		
8	DC motors		Yes
9	BLDC motors		Yes
10	Stepper motors		No
	Mechanical		
11	Size LxWxH	mm	87 x 74 x 28
	CAN bus		
12	Protocol		DS301
13	Device profile		DS402
14	Galvanically isolated		no
	Incremental encoder		
15	Input voltage	VDC	0..5
16	Signal type		open collector, single ended
	Hall sensors		
17	Input voltage	VDC	0..5
18	Signal type		open collector, single ended
	Digital input		
19	Number		8 (Din0..7)
	Digital output		
20	Number		4 (Dout0..3)
21	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
22	Number		3 (Ain0..2)
23	Signal type - Ain0..1		0..10V, 12 Bit, Single Ended
24	Signal type - Ain2		0..5V, 12 Bit, Single Ended
	Environment		
25	Operating temperature	°C	-40..+70°C

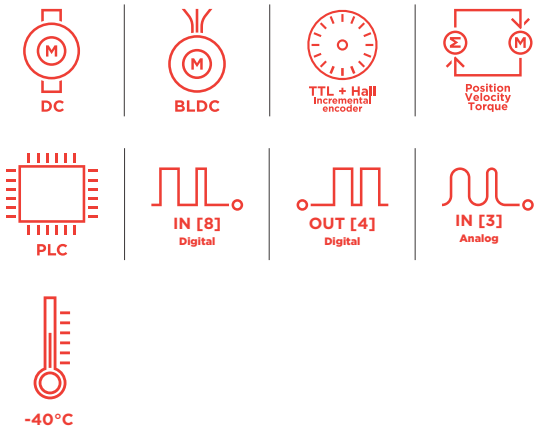
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	Ain0	Analog input 0
2	res.	Reserved
3	Ain1	Analog input 1
4	res.	Reserved
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	res.	Reserved
6	B	Inc. encoder, B channel
7	res.	Reserved
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C

SVTE-A-E55-HC-CanOpen
Servo Drives

60VDC | 14.5A
DC motors, BLDC motors





CANopen

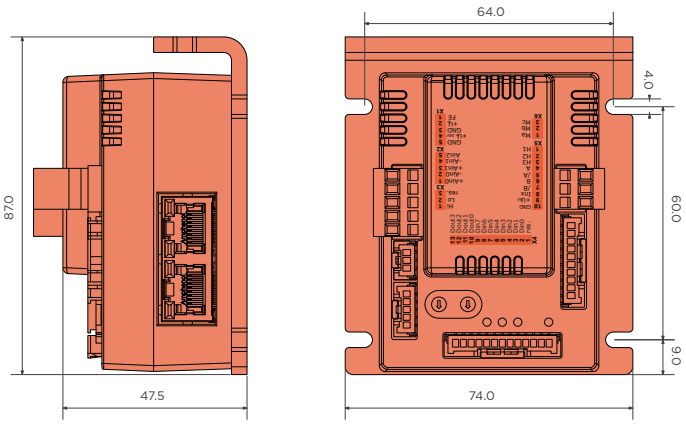
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current	A	14.5
5	Continuous output current @ Up=24VDC (certified UL)	A	9.5
6	Continuous output current @ Up=60VDC (certified UL)	A	9
7	Output voltage		Up to 100%
	Motor types		
8	DC motors		yes
9	BLDC motors		yes
10	Stepper motors		no
	Mechanical		
11	Size LxWxH	mm	87 x 74 x 28
	CAN bus		
12	Protocol		DS301
13	Device profile		DS402
14	Galvanically isolated		no
	Incremental encoder		
15	Input voltage	VDC	0..5
16	Signal type		open collector, single ended
	Hall sensors		
17	Input voltage	VDC	0..5
18	Signal type		open collector, single ended
	Digital input		
19	Number		8 (Din0..7)
	Digital output		
20	Number		4 (Dout0..3)
21	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
22	Number		3 (Ain0..2)
23	Signal type - Ain0..1		0..10V, 12 Bit, Single Ended
24	Signal type - Ain2		0..5V, 12 Bit, Single Ended
	Environment		
24	Operating temperature	°C	-40..+70°C

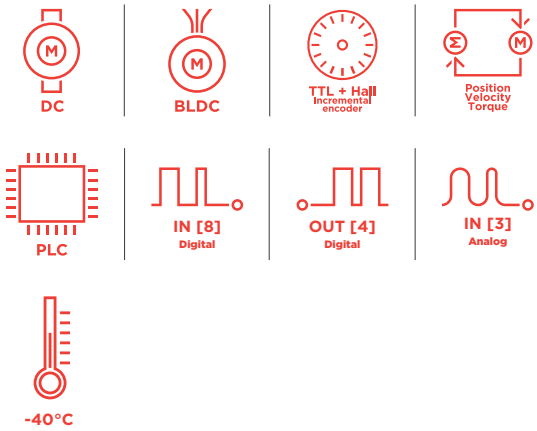
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C

SVTE-A-E55-HC-EtherCAT
Servo Drives

60VDC | 14.5A
DC motors, BLDC motors





CANopen | EtherCAT

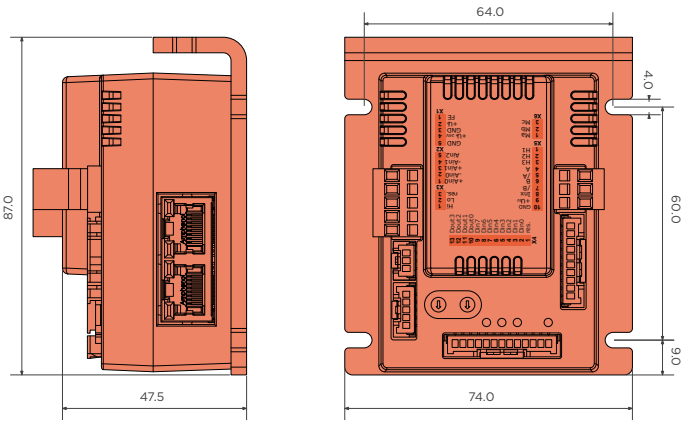
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current	A	14.5
5	Output voltage		Up to 100%
	Motor types		
6	DC motors		yes
7	BLDC motors		yes
8	Stepper motors		no
	Mechanical		
9	Size LxWxH	mm	87 x 74 x 47
	CAN bus		
10	Protocol		DS301
11	Device profile		DS402
12	Galvanically isolated		no
	EtherCAT		
13	Type		EtherCAT Slave
14	Physical layer		100 Base-Tx EtherCAT
15	Max. baudrate		100 Mbit/s
16	Number of ports		2xRJ45 (In,Out)
17	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
18	Input voltage	VDC	0..5
19	Signal type		differential, open collector, single ended
	Hall sensors		
20	Input voltage	VDC	0..5
21	Signal type		open collector, single ended
	Digital input		
22	Number		8 (Din0..7)
	Digital output		
23	Number		4 (Dout0..3)
24	Continuous output current	A	0.3 (Load: resistive, inductive)
	Analog inputs		
25	Number		3 (Ain0..2)
26	Signal type - Ain0..1		+/-10V, 12 Bit, differential
27	Signal type - Ain2		0..5V, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-40..+70°C

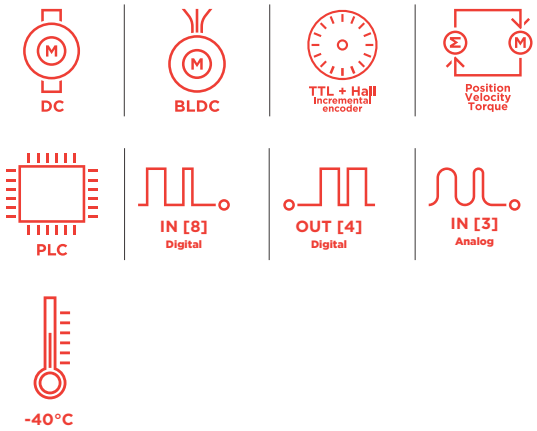
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C
X7	EtherCAT - In port	
X8	EtherCAT - Out port	

SVTE-A-E55-HC-Profinet
Servo Drives

60VDC | 14.5A
DC motors, BLDC motors





CANopen | PROFINET

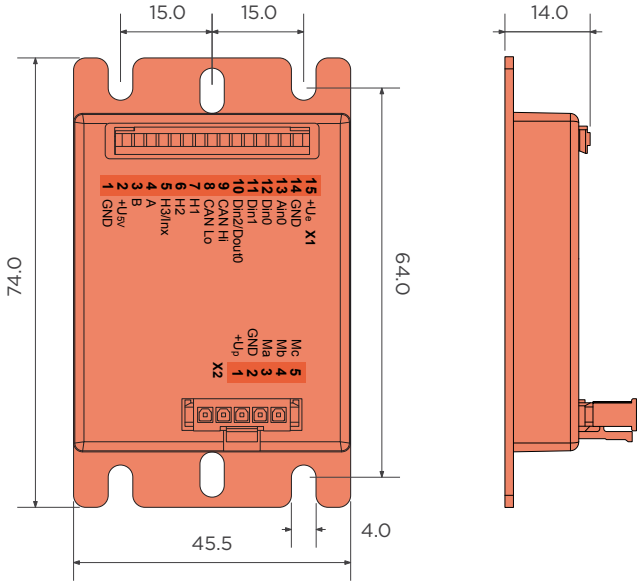
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	50
4	Continuous output current	A	14.5
5	Output voltage		Up to 100%
	Motor types		
6	DC motors		yes
7	BLDC motors		yes
8	Stepper motors		no
	Mechanical		
9	Size LxWxH	mm	78 x 74 x 47
	CAN bus		
10	Protocol		DS301
11	Device profile		DS402
12	Galvanically isolated		no
	Profinet		
13	Type		Slave
14	Physical layer		100 Base-Tx
15	Max. baudrate		100 Mbit/s
16	Number of ports		2xRJ45 (PORT1,PORT2)
	Incremental encoder		
17	Input voltage (24VDC tolerant)	VDC	0..5
18	Signal type		differential, open collector, single ended
	Hall sensors		
19	Input voltage	VDC	0.5
20	Signal type		open collector, single ended
	Digital input		
21	Number		8 (Din0..7)
	Digital output		
22	Number		4 (Dout0..3)
23	Continuous output current	A	0.3
	Analog inputs		
24	Number		3 (Ain0..2)
25	Signal type - Ain0...1		+/- 10 V, 12 Bit, differential
26	Signal type - Ain2		0..5 V, 12 Bit, single ended
	Environment		
27	Operating temperature	°C	-40..+70°C

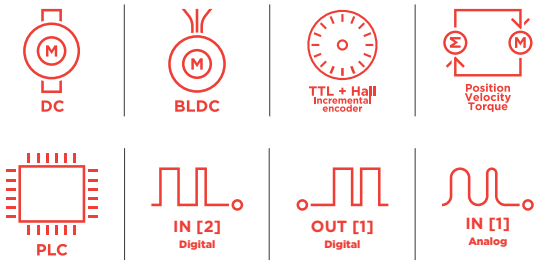
Connection

X1	Supply	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for power supply voltage
4	+Ue24V	Electronic supply voltage
5	GND	Ground for electronic supply voltage
X2	Analog Inputs	
1	+Ain0	Analog input 0, positive
2	-Ain0	Analog input 0, negative
3	+Ain1	Analog input 1, positive
4	-Ain1	Analog input 1, negative
5	Ain2	Analog Input 2 (5V)
X3	CAN bus	
1	CAN Hi	CAN High
2	CAN Lo	CAN Low
3	res.	Reserved
X4	Digital inputs/outputs	
1	res.	Reserved
2	Din0	Digital input 0
3	Din1	Digital input 1
4	Din2	Digital input 2
5	Din3	Digital input 3
6	Din4	Digital input 4
7	Din5	Digital input 5
8	Din6	Digital input 6
9	Din7	Digital input 7
10	Dout0	Digital output 0
11	Dout1	Digital output 1
12	Dout2	Digital output 2
13	Dout3	Digital output 3
X5	Hall and inc. encoder	
1	H1	Hall sensor 1
2	H2	Hall sensor 2
3	H3	Hall sensor 3
4	A	Inc. encoder, A channel
5	/A	Inc. encoder, A channel invert
6	B	Inc. encoder, B channel
7	/B	Inc. encoder, B channel inverted
8	Inx	Inc. encoder, index channel
9	+U5V	5V output voltage for sensor supply
10	GND	Ground for sensor supply (don´t connect with system GND)
X6	Motor	
1	Ma	Motor phase A
2	Mb	Motor phase B
3	Mc	Motor phase C
X7	Profinet - In port	
X8	Profinet - Out port	

SVTE-A-E60-CanOpen
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen

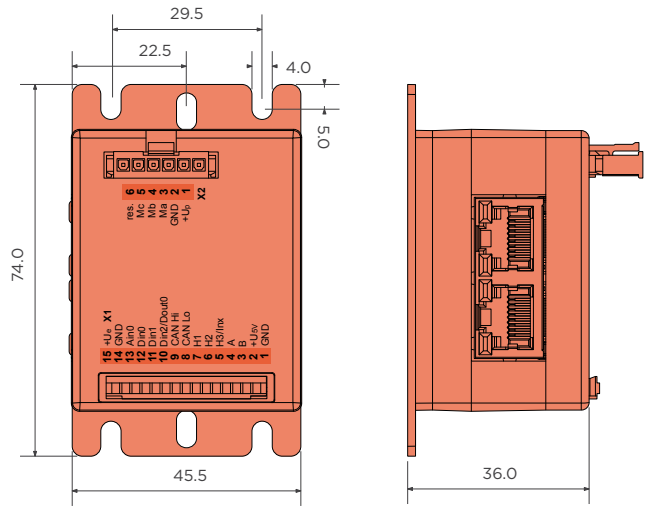
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 14
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage	VDC	0..5
15	Signal type		open collector, single ended
	Hall sensor		
16	Input voltage	VDC	0..5
17	Signal type		open collector, single ended
	Digital input		
18	Number (+/-30VDC tolerant)		2 (Din0..1)
19	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
20	Number		1 (Dout0); Dout0 parallel with Din2
21	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
22	Number		1 (Ain0)
23	Signal type		0..10 VDC, 12 Bit, single ended
	Environment		
24	Operating temperature	°C	-25...+70

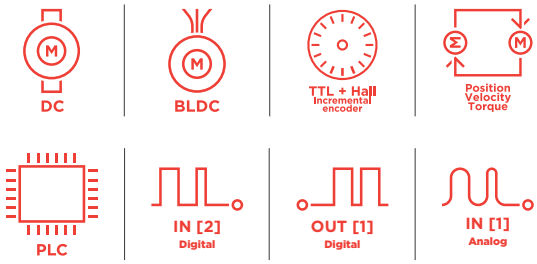
Connection

X1	Hall, inc. encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	H3/Inx	Hall sensor 3 / Inc. encoder, index channel
6	H2	Hall sensor 2
7	H1	Hall sensor 1
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C

SVTE-A-E60-EtherCAT
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen | EtherCAT

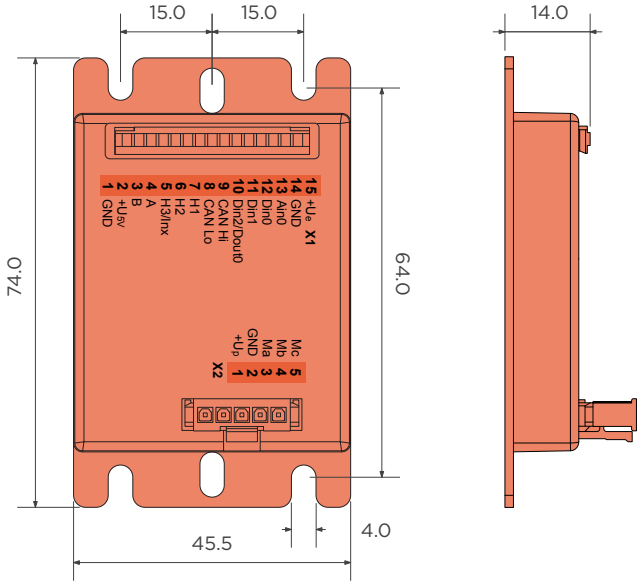
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 90%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 36
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
19	Input voltage	VDC	0..5
20	Signal type		open collector, single ended
	Hall sensors		
21	Input voltage	VDC	0..5
22	Signal type		open collector, single ended
	Digital input		
23	Number (+/-30VDC tolerant)		2 (Din0..1)
24	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
25	Number		1 (Dout0); Dout0 parallel with Din2
26	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
27	Number		1 (Ain0)
28	Signal type		0..10 VDC, 12 Bit, single ended
	Environment		
29	Operating temperature	°C	-25...+70

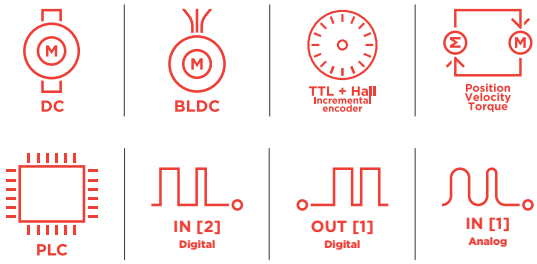
Connection

X1	Hall, inc. encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	H3/Inx	Hall sensor 3 / Inc. encoder, index channel
6	H2	Hall sensor 2
7	H1	Hall sensor 1
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	res.	Reserved
X3	EtherCAT - In port	
X4	EtherCAT - Out port	

SVTE-A-E65-CanOpen
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen

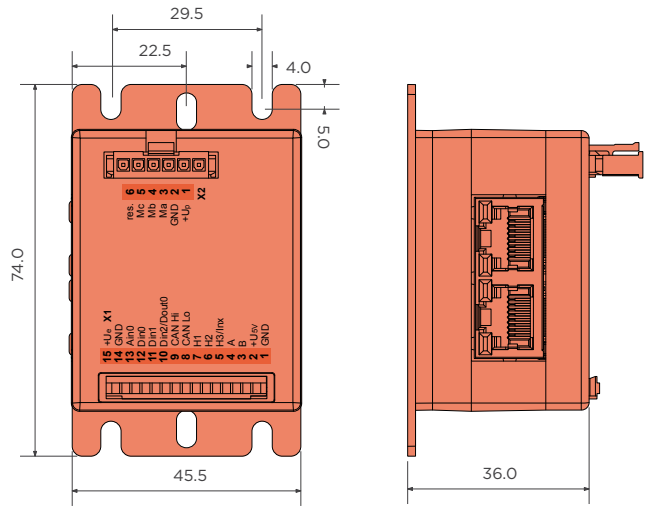
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 14
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage	VDC	0..5
15	Signal type		open collector, single ended
	Hall sensors		
16	Input voltage	VDC	0..5
17	Signal type		open collector, single ended
	Digital input		
18	Number		2 (Din0..1)
19	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
20	Number		1 (Dout0); Dout0 parallel with Din2
21	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
22	Number		1 (Ain0)
23	Signal type		+/- 10 VDC, 12 Bit, single ended
	Environment		
24	Operating temperature	°C	-25...+70

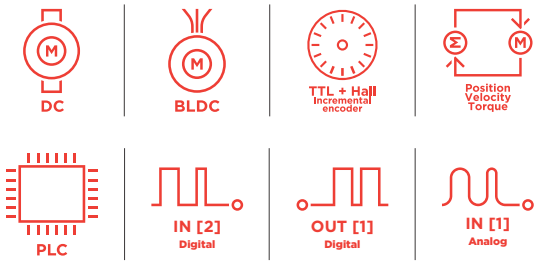
Connection

X1	Hall, inc. encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	H3/Inx	Hall sensor 3 / Inc. encoder, index channel
6	H2	Hall sensor 2
7	H1	Hall sensor 1
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C

SVTE-A-E65-EtherCAT
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen | EtherCAT

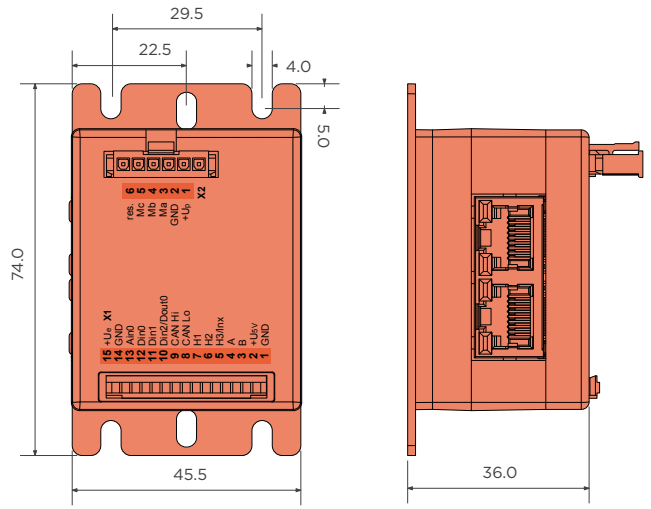
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 36
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Incremental encoder		
19	Input voltage	VDC	0..5
20	Signal type		open collector, single ended
	Hall sensors		
21	Input voltage	VDC	0..5
22	Signal type		open collector, single ended
	Digital input		
23	Number		2 (Din0..1)
24	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
25	Number		1 (Dout0); Dout0 parallel with Din2
26	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
27	Number		1 (Ain0)
28	Signal type		+/- 0..10 VDC, 12 Bit, single ended
	Environment		
29	Operating temperature	°C	-25...+70

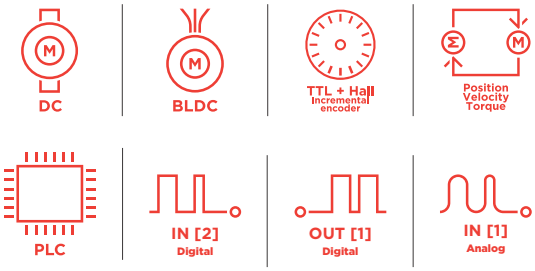
Connection

X1	Hall, inc. encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	H3/Inx	Hall sensor 3 / Inc. encoder, index channel
6	H2	Hall sensor 2
7	H1	Hall sensor 1
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	res.	Reserved
X3	EtherCAT - In port	
X4	EtherCAT - Out port	

SVTE-A-E65-Profinet
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen | PROFINET

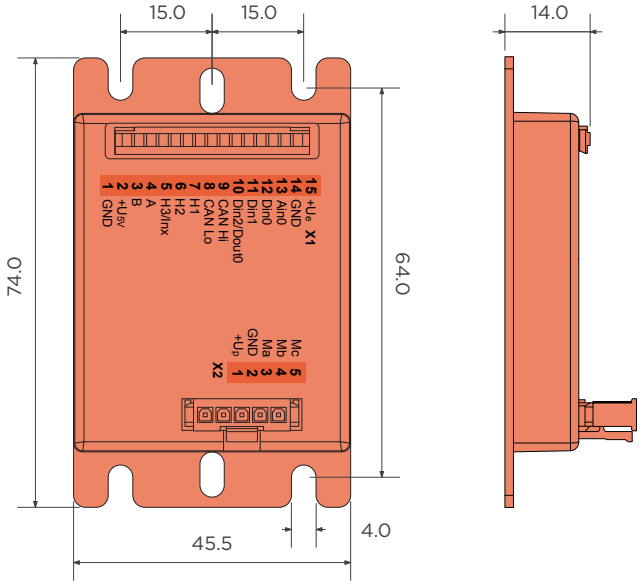
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 36
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Profinet		
14	Type		Slave
15	Physical layer		100 Base-Tx
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (PORT1, PORT2)
	Incremental encoder		
18	Input voltage	VDC	0..5
19	Signal type		open collector, single ended
	Hall sensors		
20	Input voltage	VDC	0..5
21	Signal type		open collector, single ended
	Digital input		
22	Number		2 (Din0..1)
23	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
24	Number		1 (Dout0); Dout0 parallel with Din2
25	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
26	Number		1 (Ain0)
27	Signal type		+/- 10 VDC, 12 Bit, single ended
	Environment		
28	Operating temperature	°C	-25...+70

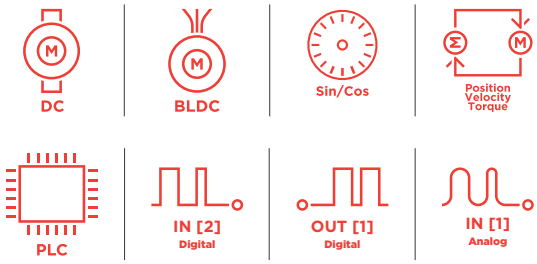
Connection

X1	Hall, inc. encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors: encoder, hall
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	H3/Inx	Hall sensor 3 / Inc. encoder, index channel
6	H2	Hall sensor 2
7	H1	Hall sensor 1
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	res.	Reserved
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	res.	Reserved
X3	Profinet - PORT1	
X4	Profinet - PORT2	

SVTE-A-E67-CanOpen
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen

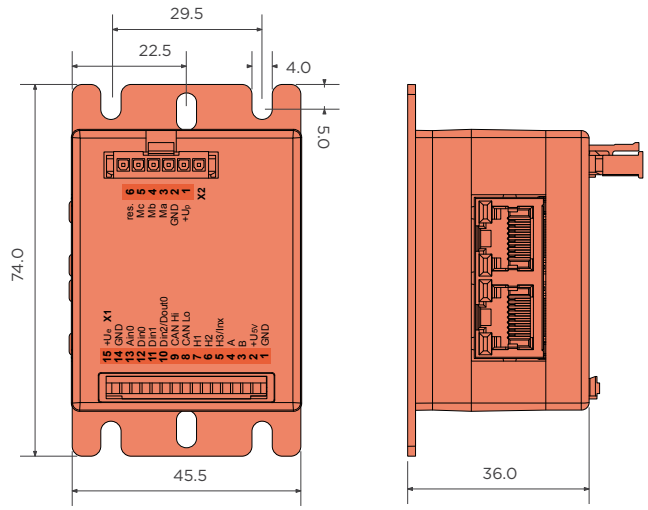
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 14
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Encoder		
14	Input voltage (24VDC tolerant)		1 V peak-peak, differential
15	Signal type		sin / cos, analog, differential
16	Resolution		13 bit per sine period
	Digital input		
17	Number		2 (Din0..1)
18	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
19	Number		1 (Dout0); Dout0 parallel with Din2
20	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
21	Number		1 (Ain0)
22	Signal type		+/- 10 VDC, 12 Bit, single ended
	Environment		
23	Operating temperature	°C	-25...+70

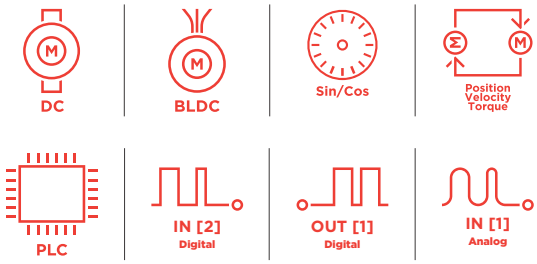
Connection

X1	Encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors
3	+Cos	Cosine + signal
4	+Sin	Sine + signal
5	res.	Reserved
6	-Cos	Cosine - signal
7	-Sin	Sine - signal
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C

SVTE-A-E67-EtherCAT
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen | EtherCAT

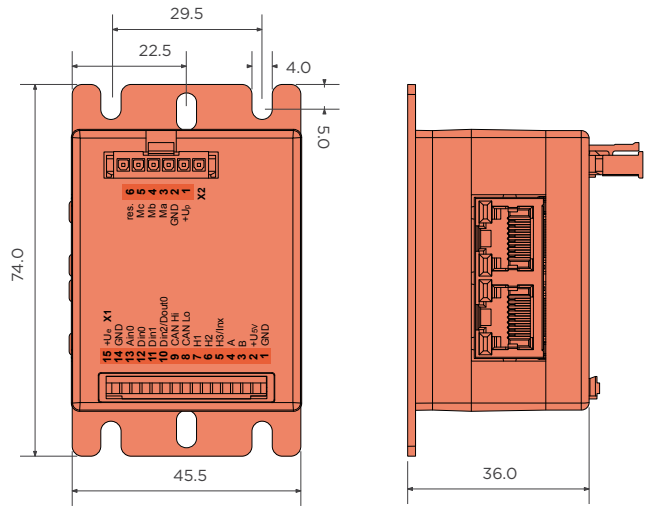
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 36
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	EtherCAT		
14	Type		EtherCAT Slave
15	Physical layer		100 Base-Tx EtherCAT
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (In,Out)
18	Protocol		CoE (CANopen over EtherCAT)
	Encoder		
19	Input voltage (24VDC tolerant)		1 V peak-peak, differential
20	Signal type		sin/cos, analog, differential
21	Resolution		13 bit per sine period
	Digital input		
22	Number		2 (Din0..1)
23	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
24	Number		1 (Dout0); Dout0 parallel with Din2
25	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
26	Number		1 (Ain0)
27	Signal type		+/- 10 VDC, 12 Bit, single ended
	Environment		
27	Operating temperature	°C	-25...+70

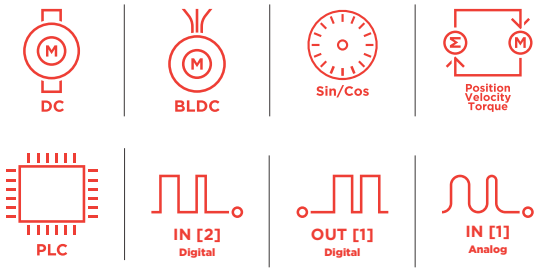
Connection

X1	Encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors
3	+Cos	Cosine + signal
4	+Sin	Sine + signal
5	res.	Reserved
6	-Cos	Cosine + signal
7	-Sin	Sine - signal
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	res.	Reserved
X3	EtherCAT - In port	
X4	EtherCAT - Out port	

SVTE-A-E67-Profinet
Servo Drives

60VDC | 5A
DC motors, BLDC motors





CANopen | PROFINET

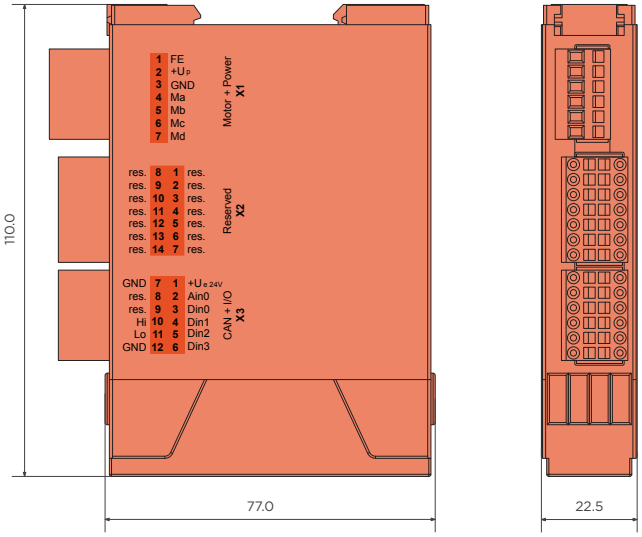
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	15
4	Continuous output current @ Up=24VDC	A	5
5	Continuous output current @ Up=48VDC	A	4.3
6	Output voltage		Up to 100%
	Motor types		
7	DC motors		yes
8	BLDC motors		yes
9	Stepper motors		no
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 36
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Profinet		
14	Type		Slave
15	Physical layer		100 Base-Tx
16	Max. baudrate		100 Mbit/s
17	Number of ports		2xRJ45 (PORT1, PORT2)
	Encoder		
18	Input voltage (24VDC tolerant)		1 V peak-peak, differential
19	Signal type		sin/cos, analog, differential
20	Resolution		13 bit per sine period
	Digital input		
21	Number		2 (Din0..1)
22	Number (0..30VDC tolerant)		1 (Din2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
23	Number		1 (Dout0); Dout0 parallel with Din2
24	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
25	Number		1 (Ain0)
26	Signal type		+/- 10 VDC, 12 Bit, single ended
	Environment		
26	Operating temperature	°C	-25...+70

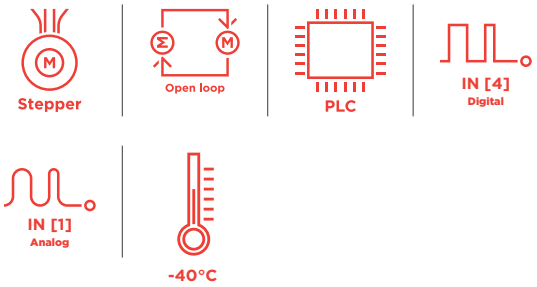
Connection

X1	Encoder, I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for sensor supply Sensors
3	+Cos	Cosine + signal
4	+Sin	Sine + signal
5	res.	Reserved
6	-Cos	Cosine - signal
7	-Sin	Sine - signal
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	res.	Reserved
X3	Profinet - In port	
X4	Profinettt - Out port	

SVTE-A-S40-CanOpen
Stepper Drives

60VDC | 7A
Stepper motors





CANopen

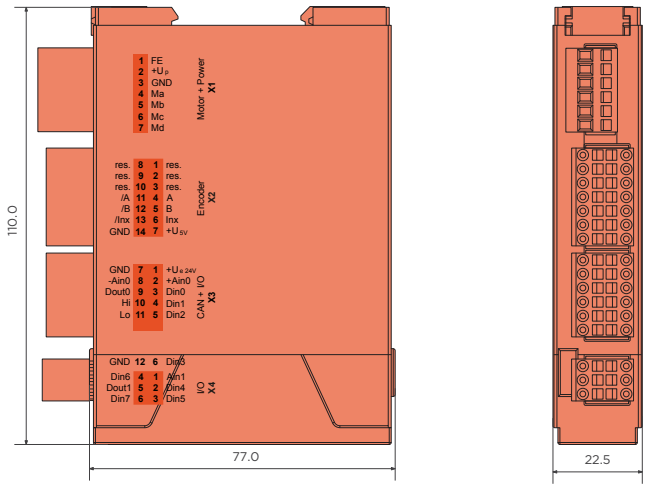
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	20
4	Continuous output current @ Up=24VDC	A	7
5	Continuous output current @ Up=48VDC	A	6
6	Output voltage		Up to 85%
	Motor types		
7	DC motors		no
8	BLDC motors		no
9	Stepper motors		yes
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Digital input		
14	Number		4 (Din0..3)
	Analog inputs		
15	Number		1 (Ain0)
16	Signal type		0..10 VDC, 12 Bit, single ended
	Environment		
17	Operating temperature	°C	-40...+70

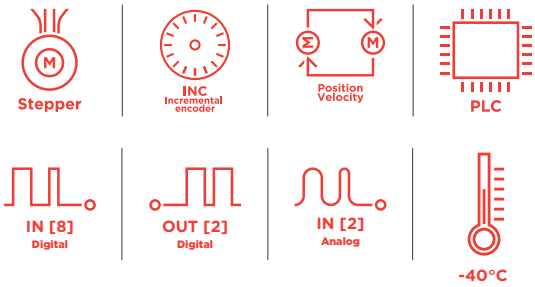
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for sensor supply
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
7	Md	Motor phase D
X2	Reserved	
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	res.	Reserved
5	res.	Reserved
6	res.	Reserved
7	+U5V	5V output voltage for sensor supply (auxiliary voltage)
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	res.	Reserved
12	res.	Reserved
13	res.	Reserved
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	Ain0	Analog input 0
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	res.	Reserved
9	res.	Reserved
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground

SVTE-A-S45-CanOpen
Stepper Drives

60VDC | 7A
Stepper motors





CANopen

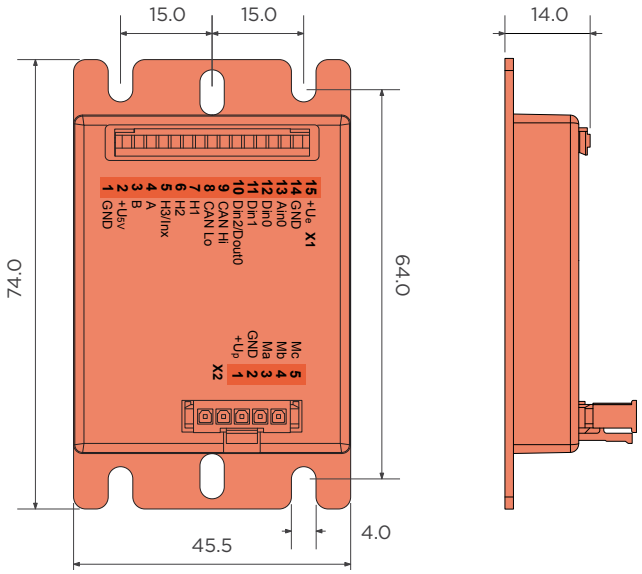
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	20
4	Continuous output current @ Up=24VDC	A	7
5	Continuous output current @ Up=48VDC	A	6
6	Output voltage		Up to 85%
	Motor types		
7	DC motors		no
8	BLDC motors		no
9	Stepper motors		yes
	Mechanical		
10	Size LxWxH	mm	110 x 22.5 x 77
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage (24VDC tolerant)	VDC	0..5
15	Signal type		open collector, single ended, differential
	Digital input		
16	Number		8 (Din0..7)
	Digital output		
17	Number		2 (Dout0..Dout1)
18	Continuous output current	A	1.5 (Load: resistive, inductive)
	Analog inputs		
19	Number		2 (Ain0..1)
20	Signal type - Ain0		+/- 10 VDC, 12 Bit, differential
21	Signal type - Ain1		+/- 10 VDC, 12 Bit, single ended
	Environment		
22	Operating temperature	°C	-40...+70

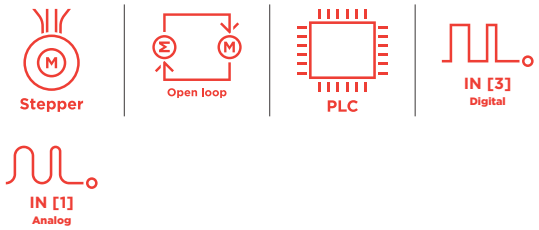
Connection

X1	Motor	
1	FE	Functional earth
2	+Up	Power supply voltage
3	GND	Ground for sensor supply
4	Ma	Motor phase A
5	Mb	Motor phase B
6	Mc	Motor phase C
7	Md	Motor phase D
X2	Inc. encoder	
1	res.	Reserved
2	res.	Reserved
3	res.	Reserved
4	A	Inc. encoder, A channel
5	B	Inc. encoder, B channel
6	Inx	Inc. encoder, index channel
7	+U5V	5V output voltage for sensor supply: encoder
8	res.	Reserved
9	res.	Reserved
10	res.	Reserved
11	/A	Inc. encoder, A channel inverted
12	/B	Inc. encoder, B channel inverted
13	/Inx	Inc. encoder, index channel inverted
14	GND	Ground for sensor supply (don´t connect with system GND)
X3	I/O's and CAN	
1	+Ue24V	Electronic supply voltage
2	+Ain0	Analog input 0, positive
3	Din0	Digital input 0
4	Din1	Digital input 1
5	Din2	Digital input 2
6	Din3	Digital input 3
7	GND	Ground for electronic supply voltage
8	-Ain0	Analog input 0, negative
9	Dout0	Digital output 0
10	CAN Hi	CAN High
11	CAN Lo	CAN Low
12	CAN GND	CAN Ground
X4	I/O's	
1	Ain1	Analog input 1
2	Din4	Digital input 4
3	Din5	Digital input 5
4	Din6	Digital output 6
5	Dout1	Digital output 1
6	Din7	Digital input 7

SVTE-A-S60-CanOpen
Stepper Drives

60VDC | 3.5A
Stepper motors





CANopen

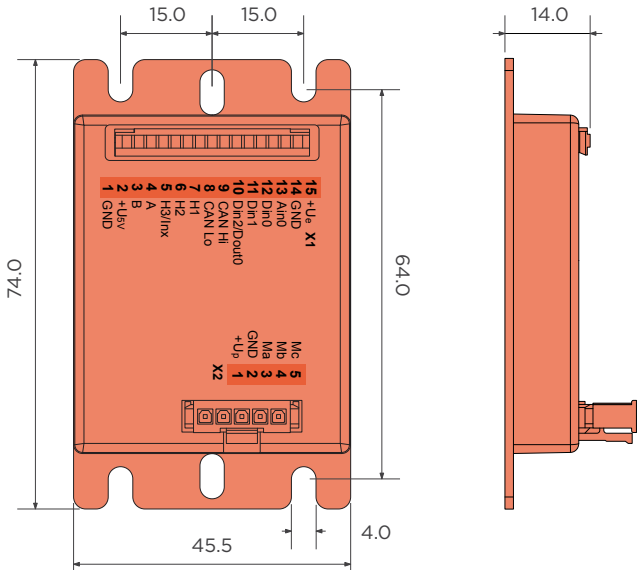
	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	10
4	Continuous output current @ Up=24VDC	A	3.5
5	Continuous output current @ Up=48VDC	A	3
6	Output voltage		Up to 85%
	Motor types		
7	DC motors		no
8	BLDC motors		no
9	Stepper motors		yes
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 14
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Digital input		
14	Number		3 (Din0..2)
	Analog inputs		
15	Number		1 (Ain0)
16	Signal type		0..10 VDC, 12 Bit, single ended
	Environment		
17	Operating temperature	°C	-25...+70

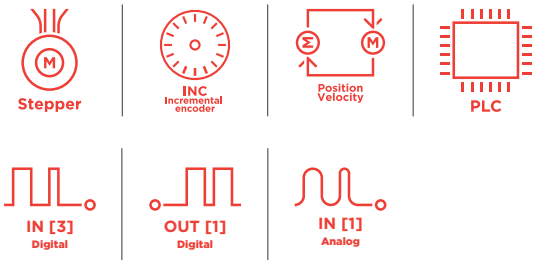
Connection

X3	I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage (auxiliary voltage)
3	res.	Reserved
4	res.	Reserved
5	res.	Reserved
6	res.	Reserved
7	res.	Reserved
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2	Digital input 2
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	Md	Motor phase D

SVTE-A-S65-CanOpen
Stepper Drives

60VDC | 3.5A
Stepper motors





CANopen

	Values	Unit	
	Power		
1	Electronic supply voltage Ue	VDC	9..30
2	Power supply voltage Up	VDC	9..60
3	Max. output current	A	10
4	Continuous output current @ Up=24VDC	A	3.5
5	Continuous output current @ Up=48VDC	A	3
6	Output voltage		Up to 85%
	Motor types		
7	DC motors		no
8	BLDC motors		no
9	Stepper motors		yes
	Mechanical		
10	Size LxWxH	mm	74 x 45.5 x 14
	CAN bus		
11	Protocol		DS301
12	Device profile		DS402
13	Galvanically isolated		no
	Incremental encoder		
14	Input voltage	VDC	0..5
15	Signal type		open collector, single ended
	Digital input		
16	Number		3 (Din0..2); Din2 parallel with Dout0 (must not exceed electronic supply voltage)
	Digital output		
17	Number		1 (Dout0); Dout0 parallel with Din2
18	Continuous output current		1.5 (Load: resistive, inductive)
	Analog inputs		
19	Number		1 (Ain0)
20	Signal type - Ain0		+/- 10 VDC, 12 Bit, single ended
	Environment		
22	Operating temperature	°C	-25...+70

Connection

X3	I/O's and CAN	
1	GND	Ground of the auxiliary voltage (don´t connect with system GND)
2	+U5V	5V output voltage for supply encoder
3	B	Inc. encoder, B channel
4	A	Inc. encoder, A channel
5	Inx	Inc. encoder, index channel
6	res.	Reserved
7	res.	Reserved
8	CAN Lo	CAN Low
9	CAN Hi	CAN High
10	Din2/Dout0	Digital input 2 / Digital output 0
11	Din1	Digital input 1
12	Din0	Digital input 0
13	Ain0	Analog input 0
14	GND	Ground for electronic supply voltage
15	+Ue	Electronic supply voltage
X2	Motor	
1	+Up	Power supply voltage
2	GND	Ground for sensor supply
3	Ma	Motor phase A
4	Mb	Motor phase B
5	Mc	Motor phase C
6	Md	Motor phase D