Cable duct ASi-3 motor module for SEW frequency inverter, IP54, M12

ASi Module for SEW frequency inverter

Simple control of fixed frequencies

Flat design,
optimized for use in cable channels

Addressing socket

(Figure similar)

Figure	Drive [1]	Number of drives	Flat design, montage in cable duct possible	Inputs digital	Outputs digital	Input voltage (sensor supply) [2]	Anschluss	ASi connection [3]	Article No.
	SEW MOVIMOT	1	yes, depth: 19 mm	2	-	out of ASi	Motor: 1 x M12 cable socket Inputs:, straight, 5 poles 2 x M12 cable sockets, straight, 5 poles	ASi profile cable	**BWU3406**

(1) **"SEW MOVIMOT®":**
Motor module for controlling gear motors with frequency converters.

(2) **Input voltage (sensor supply):**
Inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.

(3) **ASi connection:**
The connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M8 socket.

Article No.		BWU3406
General data		
Interface		RS 485
Baud rate		9600 Bit/s
Connection		
ASi / AUX connection		profile cable and piercing
Periphery connection		Motor: 1 x M12 cable socket, straight, 5 poles Inputs: 2 x M12 cable sockets, straight, 5 poles
ASi		
Profile		S-7.F.E (ID1=1 fixed)
Address		1 single address
Required Master profile		≥M3
As of ASi specification		2.1
Operating voltage		30 V (18 ... 31,6 V)
Max. current consumption		165 mA
AUX		
Operating voltage		24 V (18 ... 30 V)
Max. current consumption		1 A
Input		
Number		2
Power supply		out of ASi
Power supply of attached sensors	up to +40 °C	120 mA [1]
	at +55 °C	100 mA [1]
Switching threshold		<5 V (low) >15 V (high)

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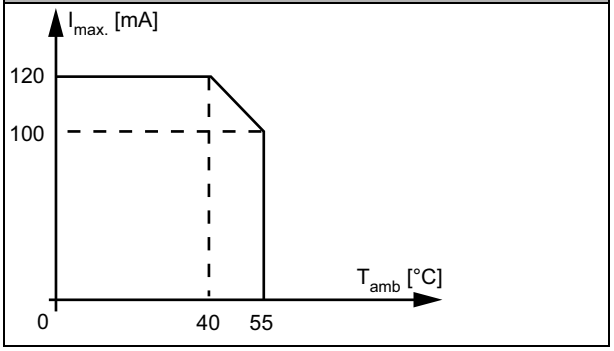
Article No.	BWU3406
Display	
LED I1, I2 (yellow)	state of inputs I1, I2
LED M1 (yellow)	RS 485 active communication
LED ASI (green)	on: ASi voltage on flashing: ASi voltage on, but peripheral fault (2) or address 0 off: no ASi voltage
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX
LED FLT (red)	on: ASi node offline flashing: peripheral fault (2) off: ASi node online
Environment	
Applied standards	EN 61000-6-2 EN 61000-6-4 EN 60529
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes (3)
Operating altitude	max. 2000 m
Ambient temperature	-5 °C ... +40 °C (non-condensing) (1) (4)
Storage temperature	-25 °C ... +85 °C
Housing	plastic, screw mounting, montage in cable duct possible (19 mm depth)
Protection category	IP54
Insulation voltage	≥500 V
Weight	Module: 200 g Passive distributor: 75 g
Dimensions (W / H / D) in mm	Module: 90 / 60 / 18 Passive distributor: 60 /45 /19

(1)

BWU3406
Power supply of attached sensors (Derating)



(2) **See Table „Peripheral fault indication“**

(3) BWU3406 from Ident. No. 17203; the module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

(4) If the cables are fixed installed, an operating temperature up to -20 °C ... +55 °C is permissible.

Article No.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	Error when communicating with the converter
BWU3406	•	•	•

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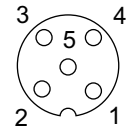
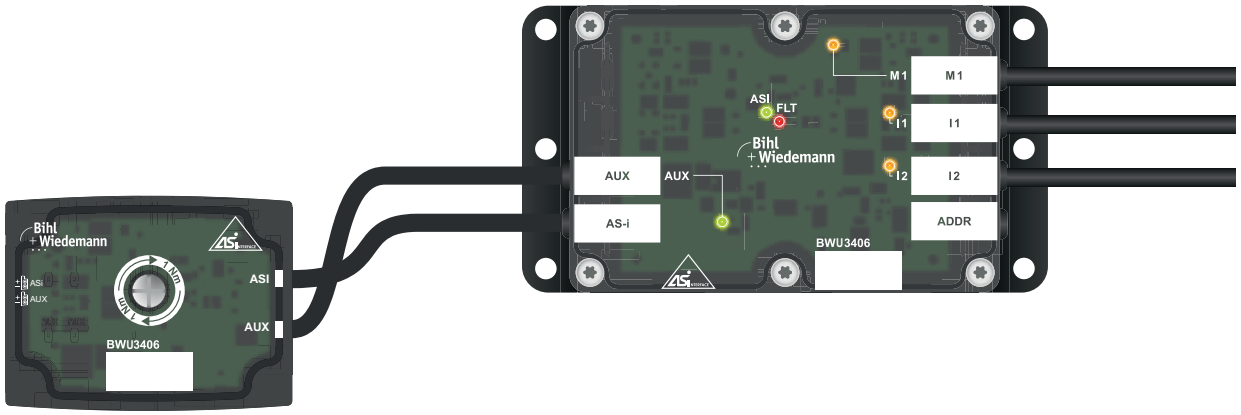
Pin assignment

Signal name	Explanation
Ix	digital input x
RS 485 TX +	Communication with motor, positive terminal (label on motor: RX +)
RS 485 TX -	Communication with motor, negative terminal (label on motor: RX -)
$24V_{ext\ out}$	power supply, out of external voltage, positive pole (AUX, actuator supply)
$0V_{ext\ out}$	power supply, out of external voltage, negative pole (AUX, actuator supply)
ASi +	ASi circuit, positive potential
ASi -	ASi circuit, negative potential
$24V_{out\ of\ ASi}$	power supply, out of ASi, positive pole (sensor supply)
$0V_{out\ of\ ASi}$	power supply, out of ASi, negative pole (sensor supply)
n.c. (not connected)	not connected

Connections M12 BWU3406			Pins				
Connections	Name / Number	Cable length	1	2	3	4	5
M12 	M1 (Motor 1)	2 m	24 $V_{ext\ out}$	RS 485 TX -	0 $V_{ext\ out}$	RS 485 TX +	n.c.
	I1 (Input 1)	2 m	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	I2 (Input 2)	2 m	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.




1 + (brown)
− (blue)


2 + (brown)
− (blue)

ASi and AUX via profile cable

Important:

- **The bus address must be set via DIP switch "1" and on the MOVIMOT.**
- **The external 24V connection must be protected by a resettable fuse.**

Accessories:

- **ASi-5/ASi-3 Address Programming Device (art. no. BW4708)**