

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

ASi Slave 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: 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:**

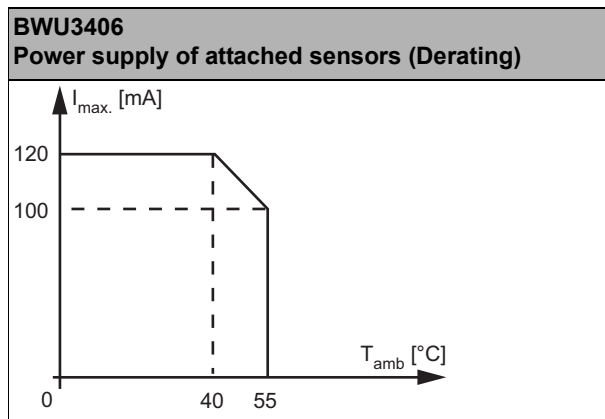
The connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M8 socket.

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 slave	
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)	

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

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: slave offline flashing: peripheral fault ⁽²⁾ off: slave online
Environment	
Applied standards	EN 61000-6-2 EN 61000-6-4 EN 60529
Passive safety (up to PLe/SIL 3)	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⁾



⁽²⁾ See Table „Peripheral fault indication“

⁽³⁾ BWU3406 from Ident. No. 17203; Exclusion of errors for the connection of the two ASi and AUX potentials can be assumed in the module. Passive safety for the application can only be achieved if this is ensured for all components used.

⁽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	•	•	•

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

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
	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)	ASi and AUX via profile cable
		-	(blue)	
	2	+	(brown)	
		-	(blue)	

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 connecting cable for addressing with a hand held address programming device (Art. Nr. BW3304)
- ASi connecting cable for addressing with ASi gateways (Art. Nr. BW3305)