# 7. 8B0C control supply units - 400W

# Warning!

The auxiliary supply modules are components of and may only be used in connection with the ACOPOSmulti drive system.

# Information:

Up to five auxiliary supply modules with any power rating can be set up in parallel.

#### 7.1 Order data

Model number	Short description	Figure		
Y.	Wall mounting	7/2, 7/6,		
8B0C0160HW00.000-1	ACOPOSmulti auxiliary supply module 16A, HV, wall mounting			
8B0C0160HW00.001-1	ACOPOSmulti auxiliary supply module 16A, HV, wall mounting, 24VOut 1x16A, 1x5A			
200	Cold plate or feed-through mounting			
8B0C0160HC00.000-1	ACOPOSmulti auxiliary supply module 16A, HV, cold plate or feed-through mounting			
8B0C0160HC00.001-1	ACOPOSmulti auxiliary supply module 16A, HV, cold plate or feed-through mounting, 24VOut 1x16A, 1x5A			
, 10 (Light)	"HOLUGE"			
1900	, 60° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1	8B0C0160HC00.001-1		

Table 24: Order data - 8B0C control supply units 400W

Required accessories						
Model number	Amount	Short description	Comment	Page		
8TB2106.2010-00	1	Screw terminal 6 pins, 1 row RM5.08 Label 1: numbered serially	Plug for X1 connection	286		
8TB2104.2010-00 <sup>1)</sup>	1	Screw terminal 4 pins, 1 row RM5.08 Label 1: numbered serially	Plug for X2 connection	288		
8TB3104.201M-10 <sup>1)</sup>	1	Screw terminal 4 pins, 1 row RM7.62 Label 1: numbered serially Coding M: 1011	Plug for X3 connection	288		

Table 25: Required accessories for 8B0C auxiliary supply modules 400W

<sup>1)</sup> Only for 8B0C0160Hx00.001-1.

Optional accessories			N. C.	Tay.
Model number	Amount	Short description	Comment	Page
8BXF001.0000-00		ACOPOSmulti fan module Replacement fan for ACOPOSmulti modules (8BVP/8B0C/8BVI/8BVE/8B0K)	Replacement fan for ACOPOSmulti modules (8BVP/8B0C/8BVI/8BVE/8B0K)	

Table 26: Optional accessories for auxiliary supply modules 8B0C 400W

## 7.2 Technical data

Product ID	10	
Wall mounting Cold plate or feed-through mounting	8B0C0160HW00.000-1 8B0C0160HC00.000-1	8B0C0160HW00.001-1 8B0C0160HC00.001-1
General information	-247	The state of the s
C-UL-US listed	Yes	3
Available cooling and mounting methods Wall mounting Cold plate or feed-through mounting	Yes Yes	
Module width	10	io.
DC bus connection	Jile Jile	716
Voltage Operating range in continuous operation Full continuous power	800 V 260 - 900 315 - 900	VDC
Continuous power consumption	Max. 47	70 W
Power loss at max. device power	In prepa	ration
DC bus capacitance	In prepai	ration
Design	ACOPOSmulti	i backplane
24 VDC output	160, 160	160,
Continuous power 1)	400 \	w So
Output voltage DC bus voltage 260 315 VDC DC bus voltage 315 900 VDC	25 VDC * (DC bus 24 VDC	
Continuous current	16 AE	OC
Reduction of continuous power according to ambient temperature above 40°C	No redu	ction
Reduction of continuous power depending on installation altitude Starting at 500 m above sea level	40 W per	1000 m
Reduction of continuous power depending on cooling method Wall mounting Cold plate or feed-through mounting	In prepa In prepa	
Startup delay	Max. 1	sec.
Startup time	Approx. 5	- 20 ms
Residual ripple	Typ. 50 i	mV <sub>SS</sub>

Table 27: Technical data for 8B0C control supply units 400W

Product ID		No.
Wall mounting Cold plate or feed-through mounting	8B0C0160HW00.000-1 8B0C0160HC00.000-1	8B0C0160HW00.001-1 8B0C0160HC00.001-1
24 VDC internal system supply voltage	S 21/0	. N.C
Output voltage	25	VDC ±1.6%
Peak current (< 4 s) DC bus voltage (UDC): 350 900 VDC	À	21 ADC
Protective measures Open circuit protection Overload protection Short circuit protection Feedback protection Over-temperature protection Dielectric strength to ground Output / input isolation		Yes Yes Yes (also when turned off) Yes ±50 VDC PELV requirements
Design	ACOPO	Smulti backplane
24 VDC Out		
Output voltage DC bus voltage 260 315 VDC DC bus voltage 315 900 VDC	Waldya is	25 VDC * (DC bus voltage / 315) 24 VDC ±6%
Peak current (< 4 s) over the total operating range of the DC bus voltage.	~5010,	<sup>20</sup> 110,
Protection of 24 VDC Out 1 output		16 A (slow-blow) electronic, automatic reset
Protection of 24 VDC Out 2 output	1	5 A (slow-blow) electronic, automatic reset
Protective measures Open circuit protection Overload protection Short circuit protection Feedback protection Over-temperature protection Dielectric strength to ground	Parito Lingui = "I'dag	Yes Yes Yes Max. 35 VDC (also when turned off) Yes ±50 VDC SELV / PELV requirements
Output / input isolation	- 440,	The state of the s
Design 24 VDC, COM		Connectors
Terminal connection cross section of 24 VDC Out 1 output Flexible and fine wire lines with wire tip sleeves Approbation data UL/C-UL-US CSA	alpa <sub>litotualik</sub> a pr	0.5 - 6 mm <sup>2</sup> 22 - 10 22 - 10
Terminal connection cross section of 24 VDC Out 2 output Flexible and fine wire lines with wire tip sleeves Approbation data UL/C-UL-US CSA	1940 J. I	0.2 - 2.5 mm <sup>2</sup> 22 - 12 22 - 12

Table 27: Technical data for 8B0C control supply units 400W (Forts.)

Product ID	100 m	200
Wall mounting Cold plate or feed-through mounting	8B0C0160HW00.000-1 8B0C0160HC00.000-1	8B0C0160HW00.001-1 8B0C0160HC00.001-1
24 VDC Out 1 controller input	14. S.	
Wiring	- 111	Sink
Electrical isolation Input - 24 VDC	<u>~</u>	Yes
Modulation compared to ground potential	10×-	Max. ±50 V
Input voltage Rated Maximum	JIO <sup>RDEN</sup> E JIO	24 VDC 30 VDC
Switching threshold LOW (24 VDC Out 1 is switched on) HIGH (24 VDC Out 1 is switched off)		<5 V >15 V
Input current at rated voltage		Approx. 10 mA
Switching delay ON (24 VDC Out 1 is switched on) OFF (24 VDC Out 1 is switched off) 2)		Max. 25 ms Max. 0.25 ms
Design		Connectors
Terminal connection cross section of the 24 VDC Out 1 control input Flexible and fine wire lines with wire tip sleeves Approbation data UL/C-UL-US CSA	Pogres - Huhurippone	0.2 - 2.5 mm² 30 - 12 22 - 12
Operational conditions	Ġ.	3
Ambient temperature during operation Max. ambient temperature	5 to 4 +58	
Relative humidity during operation	5 to 85%, nor	n-condensing
Installation at altitudes above sea level Maximum installation altitude <sup>3)</sup>	0 to 5 400	
Degree of pollution according to EN 60664-1	2 (non-conduc	ctive material)
Overvoltage cat. according to IEC 60364-4-443:1999	II .	1
EN 60529 protection	IP:	20
Storage and transport conditions		, 196 July 1965
Storage temperature	-25 to	+55°C
Relative humidity during storage	5 to 95%, nor	n-condensing
Transport temperature	-25 to	+70°C
Relative humidity during transport	95% at	+40°C

Table 27: Technical data for 8B0C control supply units 400W (Forts.)

Product ID  Wall mounting  Cold plate or feed-through mounting	8B0C0160HW00.000-1 8B0C0160HC00.000-1	8B0C0160HW00.001-1 8B0C0160HC00.001-1
Mechanical characteristics	10 July 10 Jul	'Y.[O
Dimensions <sup>4)</sup> Width Height Depth Wall mounting Cold-plate Feed-through mounting	53 n 317 263 212 209	mm mm mm
Weight Wall mounting Cold-plate Feed-through mounting	In prep Approx. Approx.	. 2.6 kg

Table 27: Technical data for 8B0C control supply units 400W (Forts.)

- 1) Valid in the following conditions: 55°C ambient temperature, installation altitude < 500 m above sea level.
- 2) The output and any connected loads are not actively discharged when switching off.
- 3) Continuous operation of ACOPOSmulti control supply units at altitudes ranging from 500 m to 4000 m above sea level is possible (taking the continuous power reductions listed into consideration). Additional requirements are to be arranged with B&R.
- 4) The dimensions define the true device dimensions including the respective mounting plate. Make sure to leave additional space above and below the device for mounting, connections and air circulation (see section 2 "Dimension diagrams and installation dimensions" on page 143).

#### 8B0C0160HW00.001-1, 8B0C0320HW00.002-1

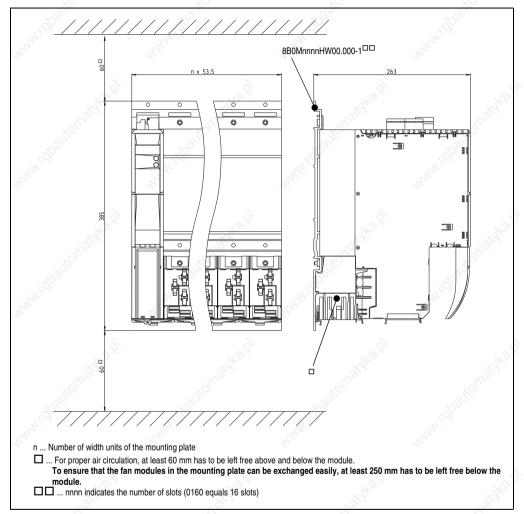


Figure 26: Dimensional diagram and installation dimensions for 8B0C0160HW00.001-1, 8B0C0320HW00.002-1

## 5.2 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

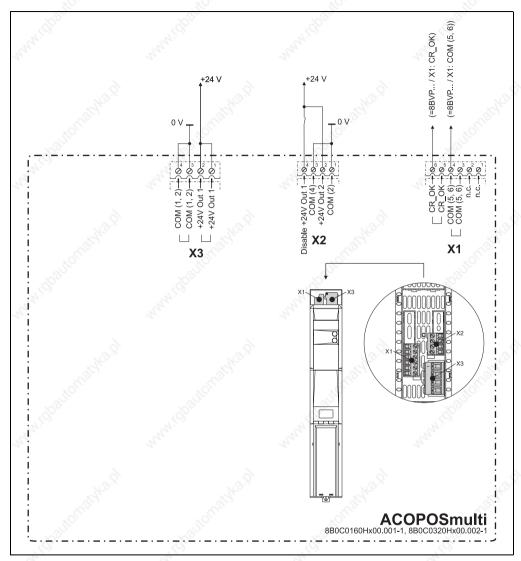


Figure 98: Overview of pin assignments - 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

### 5.2.1 Pin assignments - X1 plug

503	X1	70°	Pin	Name	Func	tion
760.		77,0	1	25		7'50.
The	1 M		2	24/2		741,
1.	2		3	COM (5, 6)	DC b	us ready 0 V
			4	COM (5, 6)	DC b	us ready 0 V
	3	$\Theta$	5	CR_OK	DC b	us ready
	4		6	CR_OK	DC b	us ready
	5 6	<b>Ø</b>	OTT		Palifoli.	il California
7410		Z41,(O)		142	9	7410

Table 124: Pin assignments for plug X1 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

### 5.2.2 Pin assignments - X2 plug

X2			Pin	Name	Function	9,	
			Ç 1	COM (2)	+24 V output 2 0 V		
700	1		70,97	2	+24V Out 2	+24 V output 2	
7710	2		410	3	COM (4)	Disable +24 V output 1 0 V	
272			27,70	4	Disable +24V Out 1	Disable +24 V output 1	
	3 4				6	8	
				1			

Table 125: Pin assignments for plug X2 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

### 5.2.3 Pin assignments - X3 plug

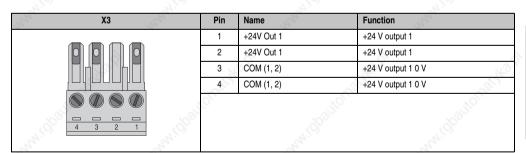


Table 126: Pin assignments for plug X3 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

#### 5.2.4 Input/output circuit diagram

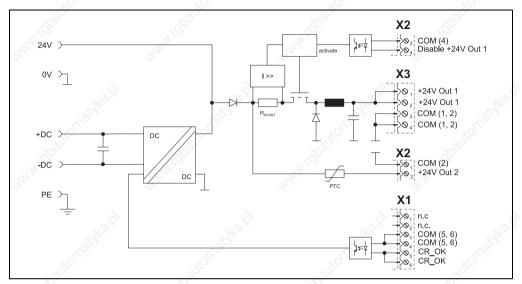


Figure 99: Input/output circuit diagram 8B0C0160Hx00.001-1, 8B0C0320Hx00.002-1

#### 5.2.5 Parallel connection of multiple 8B0C auxiliary supply modules

# Warning!

When the external 24V outputs (24V Out 1, 24 V Out 2) are connected in parallel, the corresponding COM connections must also be connected in parallel!