

Равномерный микроклимат в шкафу с AirBLOWER

Технические характеристики

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Even cabinet climate with LÜTZE AirBLOWER

The LÜTZE AirBLOWER eliminates the air layers in the control cabinet to create an even climate. A control cabinet equipped with an AirSTREAM frame cools down more efficiently. Practical tests have demonstrated impressive results. The AirBLOWER makes it possible to reduce the mean temperature in the control cabinet by up to 10 degrees Kelvin.

Operating the LÜTZE AirBLOWER requires much less energy than an active cooling in the control cabinet. The AirBLOWER does not need to be operated constantly, it can be activated only when needed.

AirBLOWER fan bench



LÜTZE supplies the plug and play 24 V fan module on AirSTREAM web modules. Webs are available in lengths of 700, 900 and 1100 mm. Depending on the wiring concept, the AirSTREAM control cabinet fan comes in various installation variants. For instance, the maximum wiring space or wiring comfort can be optimised.

The AirBLOWER fan tray accessory can be retrofitted into an existing AirSTREAM frame with the mounting adapters.

Technical data:

Power supply	24 V DC
Durability at 40°	62500 h
Current consumption	approx. 700mA
Temperature range	-40 °C to +75 °C

AirBLOWER control unit



The control unit LCOS-AB-I controls the AirBLOWER module. This allows freely configurable operation of the fans.

Technical data:

Temperature range	-25 °C to 70 °C
Protection class	IP20
Power supply	24 V
Connection for fan module	24 V
LED status indicator	
Communication via IO link	
Configured via FDT/DTM	

PT 100 element



Cable temperature sensor with PVC
cable

Technical data:

Sensor PT 100 (DIN EN 60751)

Connection cable 2 m PVC (2 x 0.25 mm²)

USB Service cable



USB interface cable for
parameterization of FDT/DTM capable
LCON converters, time relays, etc.

Technical data:

Status indication LED green - status operation

Housing material ABS

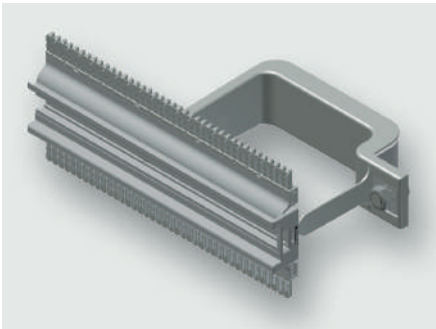
Cable length 1,7 m

Connection type USB A – Micro USB

Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 0700-0750 BI30-055
Part-No.380101M2009

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width700 mm
Frame width750 mm
Frame depth90 mm
Rail height60 mm
Rail length700 mm
Distance50 mm
Bracket width30 mm
Wiring space55 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

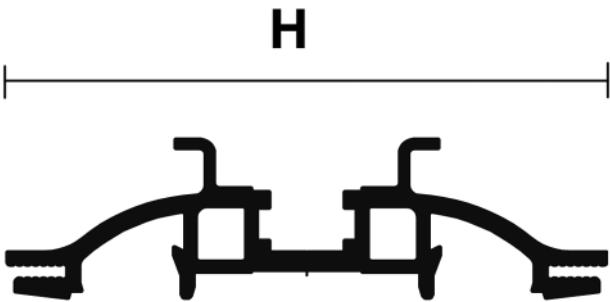
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 173.5 mm

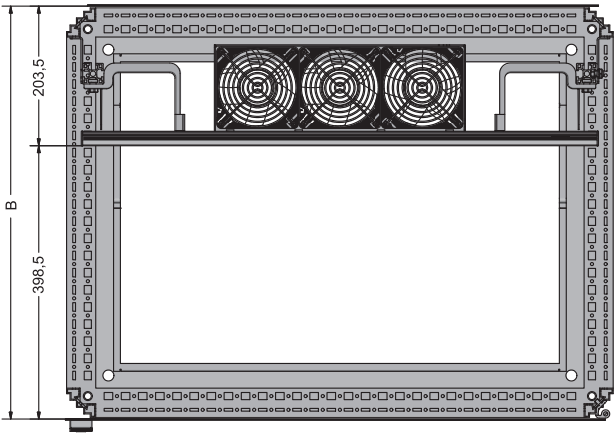
Explanation

H60 mm

Dimensions



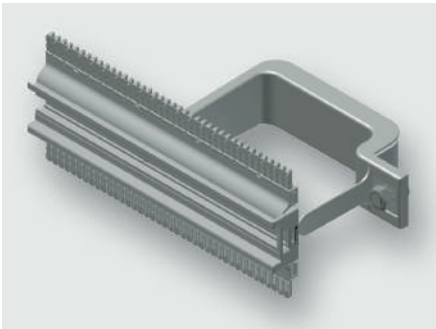
Use



Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 0900-0950 BI30-055
Part-No.380101M2010

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width900 mm
Frame width950 mm
Frame depth90 mm
Rail height60 mm
Rail length900 mm
Distance50 mm
Bracket width30 mm
Wiring space55 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

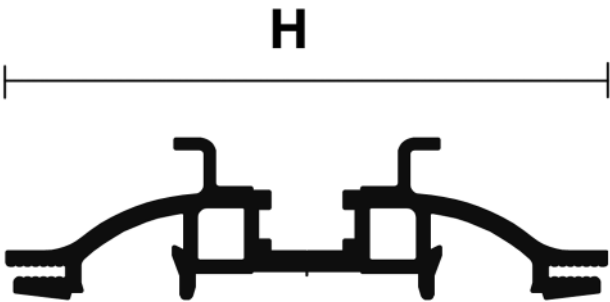
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 173.5 mm

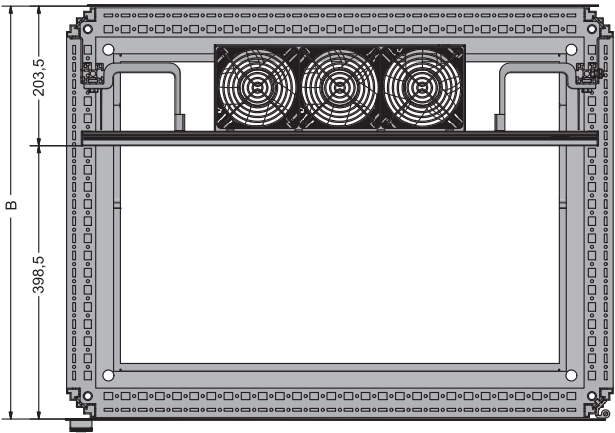
Explanation

H60 mm

Dimensions



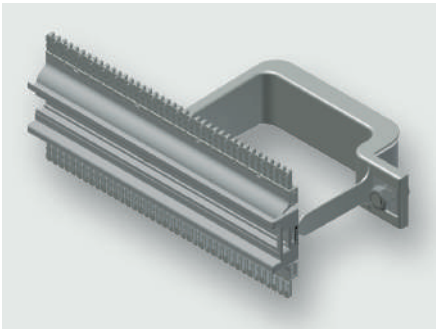
Use



Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 1100-1150 BI30-055
Part-No.380101M2011

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width1100 mm
Frame width1150 mm
Frame depth90 mm
Rail height60 mm
Rail length1100 mm
Distance50 mm
Bracket width30 mm
Wiring space55 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

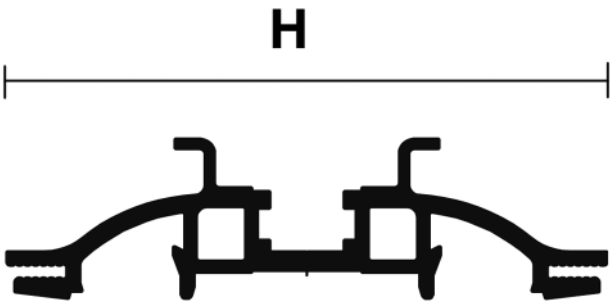
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 173.5 mm

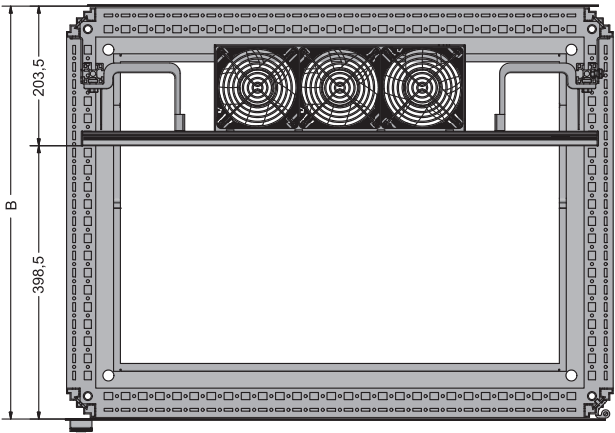
Explanation

H60 mm

Dimensions



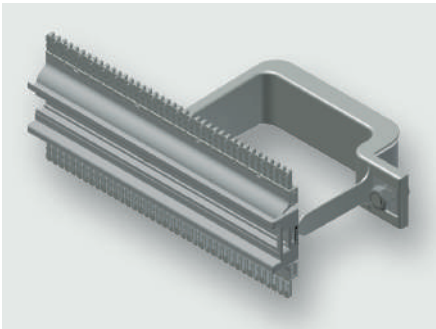
Use



Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 0700-0750 BI30-085
Part-No.380101M2013

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width700 mm
Frame width750 mm
Frame depth120 mm
Rail height60 mm
Rail length700 mm
Distance50 mm
Bracket width30 mm
Wiring space85 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

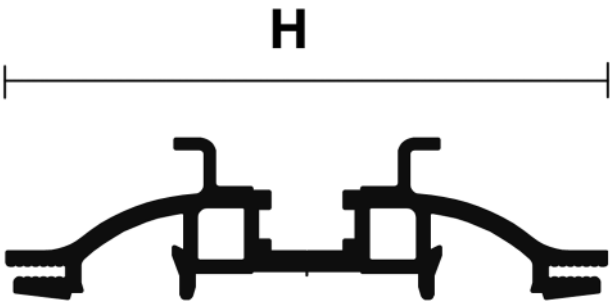
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 203.5 mm

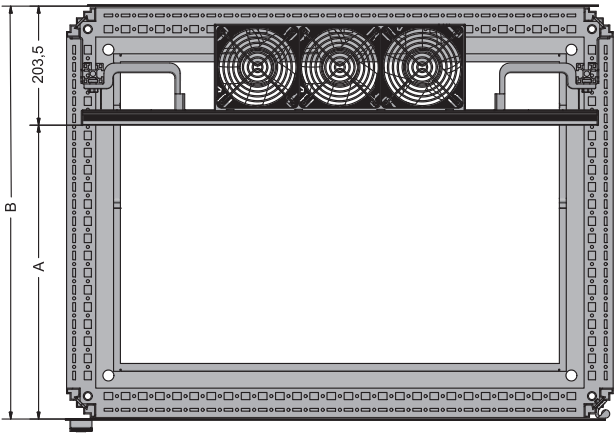
Explanation

H60 mm

Dimensions



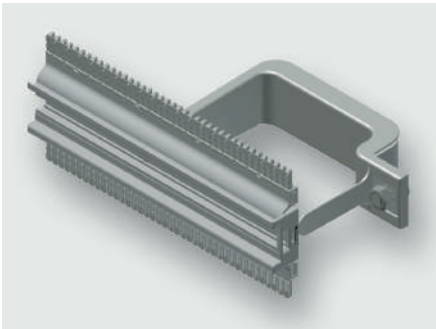
Use



Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 0900-0950 BI30-085
Part-No.380101M2014

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width900 mm
Frame width950 mm
Frame depth120 mm
Rail height60 mm
Rail length900 mm
Distance50 mm
Bracket width30 mm
Wiring space85 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

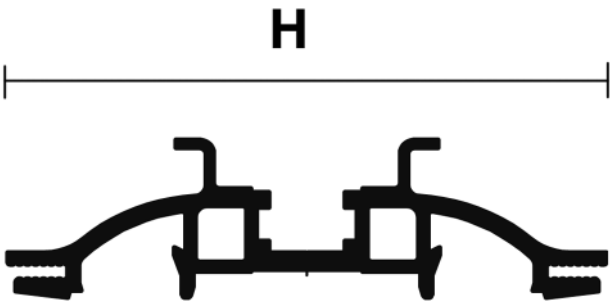
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 203.5 mm

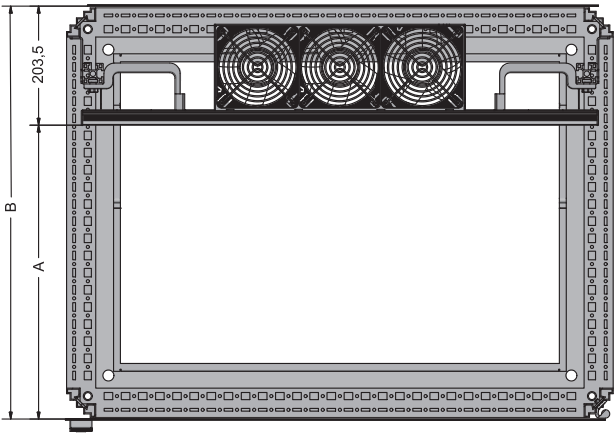
Explanation

H60 mm

Dimensions



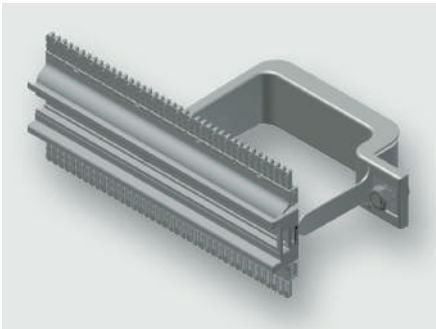
Use



Technical data sheet

Special Modules

AirBLOWER module



Identification

TypeHS 060 1100-1150 BI30-085
Part-No.380101M2015

Product version

Datasheet version00

Description

Module type	AirBLOWER Modul
Description	AirBLOWER modules consist of a preassembled AirSTREAM mounting rail and the AirBLOWER fan bank with three 24 Vdc axial fans. Additional assembly is required. AirBLOWER module mounts onto the AirSTREAM frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB-I can be used to monitor the temperature and control the AirBLOWER fans.

Technical data

for frame width1100 mm
Frame width1150 mm
Frame depth120 mm
Rail height60 mm
Rail length1100 mm
Distance50 mm
Bracket width30 mm
Wiring space85 cm
Top combJa
Bottom combJa

Technical data sheet

Special Modules

General

MaterialAluminum

Surfacepolished

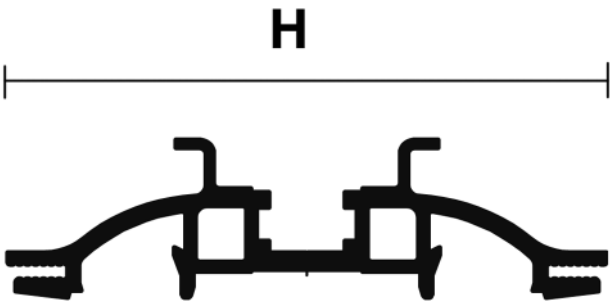
Notes and Comments

CommentsModule depth (A) = Control cabinet depth (B) - 203.5 mm

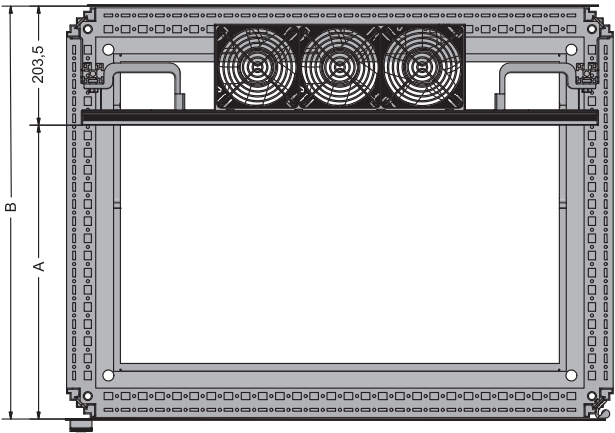
Explanation

H60 mm

Dimensions



Use



Technical data sheet

Mounting Accessories

AirBLADE



Identification

Type *AirBLADE* 85 Set

Part-No.380281.0010

Product version

Datasheet version00

Description

Description *AirBLADEs* serve to direct the current of air within the control cabinet. They can be used in a 50 mm spacing increments instead of a comb to direct air flow from the back of the *AirSTREAM* frame to the front in order to circulate air directly around devices.

General

MaterialPA 6.6

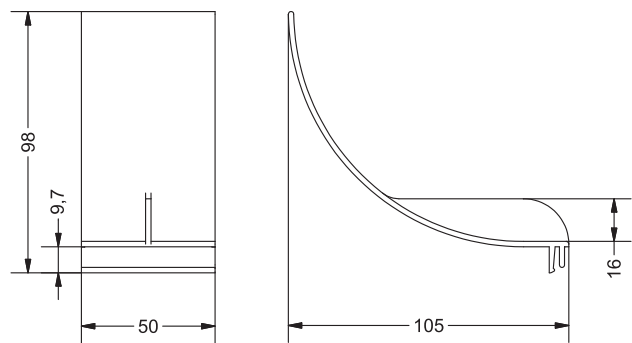
Surfacesmooth

Halogen free according toVDE 0472-815

Flammability ratingUL 94 V0

PU (units)10

Dimensions



Technical data sheet

Mounting Accessories

AirBLOWER Fan Bank



Identification

Type *AirBLOWER*

Part-No.777000.1011

Product version

Datasheet version01

Use/Application/Properties

Application • *AirBLOWER* fan bank

Description

Description *AirBLOWER* fan bank with three 24 Vdc axial fans mounts onto the *AirSTREAM* frame to supply an evenly distributed airflow inside the control cabinet. The control unit LCOS-AB0I can be used to monitor the temperature and control the *AirBLOWER* fans.
The mounting kit must be ordered separately.

ApplicationVariant 1: Attachment with adapter in the comb nut
Variant 2: Fan bench screwed into the HS 60 module

Technical data

Start-up consumptionapprox. 40 W for 1 s

Rated voltage U_N DC 24 V SELV

Rated voltage rangeDC 12 V – 28 V

Power consumption15 W

Mechanical service lifeat 40 °C up to 72500 h, at max. Temp. up to 30000 h

Min. sound pressure60 dB (A)

Rotation frequency2700/min

Technical data sheet

Mounting Accessories

Connecting lead

Jacket colorgrey RAL 7001

Connections1(+), 2(-)

General

Dimensions (w × h × d)370.0 mm × 130.0 mm × 45.0 mm

Operation temperature range-20 °C ... +75 °C

Weight/unit1.37 kg

(without connection cable)

PU (units)1

Certifications/Standards

StandardsEN 61131-2:2007, EMV, Zone B

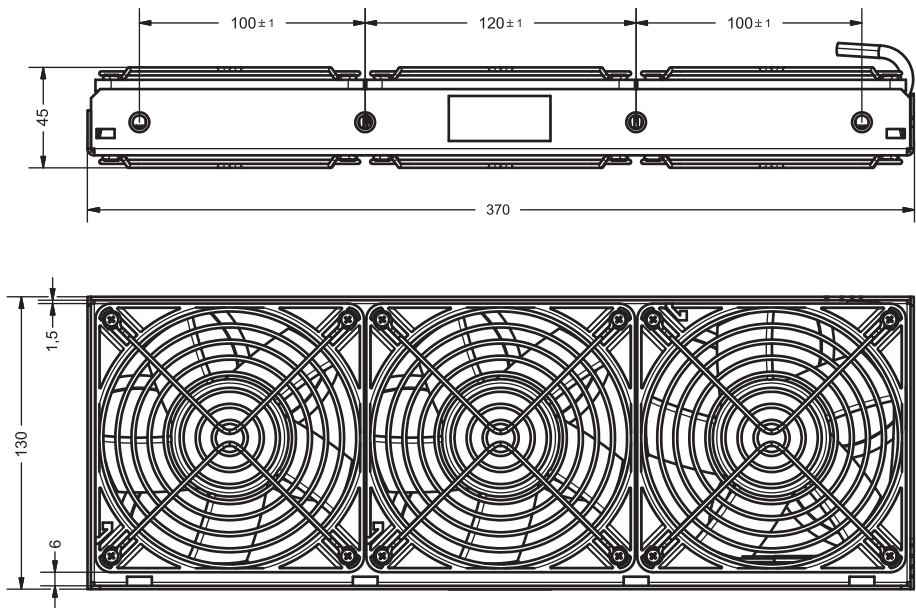
EMV according to EN 61131-2 only in combination with 777100.0011 (Control unit for **AirBLOWER**)

Accessories

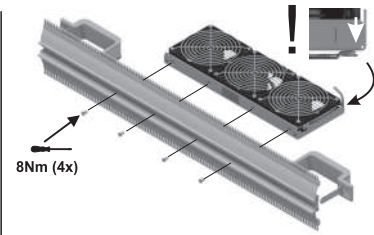
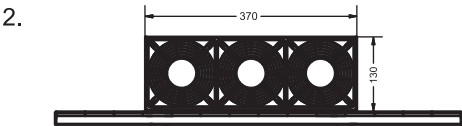
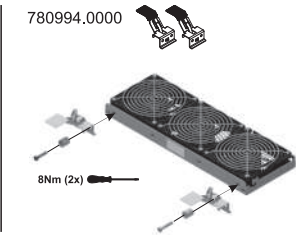
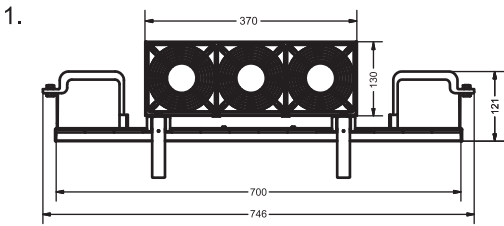
Accessories

AirBLOWER Adapter Set (complete set for mounting variant 1) | Part-No. 780994.0000 | PU: 1 unit

Dimensions



Use



Technical data sheet

Mounting Accessories

Control unit for *AirBLOWER*



Identification

Type	LCOS-AB-I
Part No.	777100.0011

Product version

Hardware revision	1.0
Software version	1.42
Datasheet version	06

Use/Application/Properties

Application	• Control Unit of the <i>AirBLOWER</i> with spring terminal
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Description

Description	To control the <i>AirBLOWER</i> . Control unit to be used together with function carrier base.
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Configuration interface

HART interface	μ-USB Type B 5-pin
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Supply module electronic

Rated voltage U_N	DC 24 V SELV
Connection	8-pole Push-In terminal X2: Pin 8–7 or via Powerbus (LCOS system) use copper conductors only
Rated current	DC 2 A
Operation voltage range	DC 20.4–28.8 V

Technical data sheet

Mounting Accessories

Protective measure	Reverse diode galvanic isolation between module electronic and diagnosis outputs Overvoltage protection
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Diagnosis outputs

Style	Switching capacity for EN 60947-5-1 at AC 230 V dry NC contact for activating the Air conditioning unit 1 A @ 230 V cos phi = 0.75 – 0.8 (General Use) dry NO contact for Error message 2 A @ 230 V cos phi = 0.75 – 0.8 (General Use)
Connection	8-pole Push-In terminal X2: Pin 1-2 (Relay fault), Pin 3-4 (Relay air conditioning unit)
Isolating voltage	AC 2500 V
Parameterisation	HART interface / IO-Link interface

Temperature inputs

Input signal	3 × PT100
Temperature range	-50 °C ... +100 °C
Accuracy	+/- 3 K
Connection	12-pole Push-In terminal X1: Pin 7-12
Linearization method	linear interpolation

Control output

Connection	8-pole Push-In terminal X2: Pin 5–6
Style	Semi-conductor switch
Switching capacity	DC 24 V, 2 A

Diagnostics

LED mode	green – OK red - Fault green flashing – operating time of the fan exceeded
LED IO-Link	green flashing - active green – connected orange - fault

Actuator sensor interface

Style	IO-Link Device/Slave
Connection	12-pole Push-In terminal X1: Pin 1–3
Data rate	38.4 kBaud

Technical data

Width	22.5 mm
Depth	91.5 mm
Height	142 mm

Technical data sheet

Mounting Accessories

General

Dimensions (w × h × d)	22.5 mm × 142.0 mm × 91.5 mm
Dimensions	with function carrier: 22.5 × 142.0 × 102.0 mm
Relative air humidity	100 %, no condensation allowed
Max. altitude operation	2000 m max.
Mounting	DIN rail mounting
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +70 °C
Installation position	Vertical
Typical power supply	Mains adapter DC 24 V regulated/unregulated, SELV
System behavior	for typical consequences of power supply interruptions and the return of power: Start process with EEPROM test The number of start processes is unlimited.
Max. allowed interruption time of the power supply	PS2 (10 ms)
Memory buffer time for configuration and error data	Supply-independent memory in EEPROM
Self-test and diagnosis possibilities	Power-up test: EEPROM test Periodical test: Over and under-voltage supply Sensor error Over Temperature Short circuit, interruption and overload of fan outlet
Accuracy of the current measurement at the fan output	+/- 0.1 A
Degree of protection	IP20
Degree of pollution	2
Weight/unit	0.12 kg
PU (units)	1

Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E170585) DNV (TAA00002SY)
Standards	EN 61131-2:2007, EMV, Zone B EMV according to EN 61131-2 only in combination with 777000.1011 (<i>AirBLOWER</i> fan bank) UL 61010-1 UL 61010-2-201 DNVGL-CG-0339

Technical data sheet

Mounting Accessories

Equipment/Spare parts

Accessories

PT 100 Elements (3 units): Part.-No. 773900.0001 | PU: 1 unit

Function carrier 22.5 mm, cannot be expanded with modules

(standalone version): Part.-No. 780201.225.1 | LCOS-FT-PE-225-00-00-1 |

PU: 1 unit

Function carrier 22.5 mm, can be expanded with modules: (in LCOS system with Powerbus): Part.-No. 780402.225.1 | LCOS-FT-PE-225-0P-02-1 | PU: 1 unit

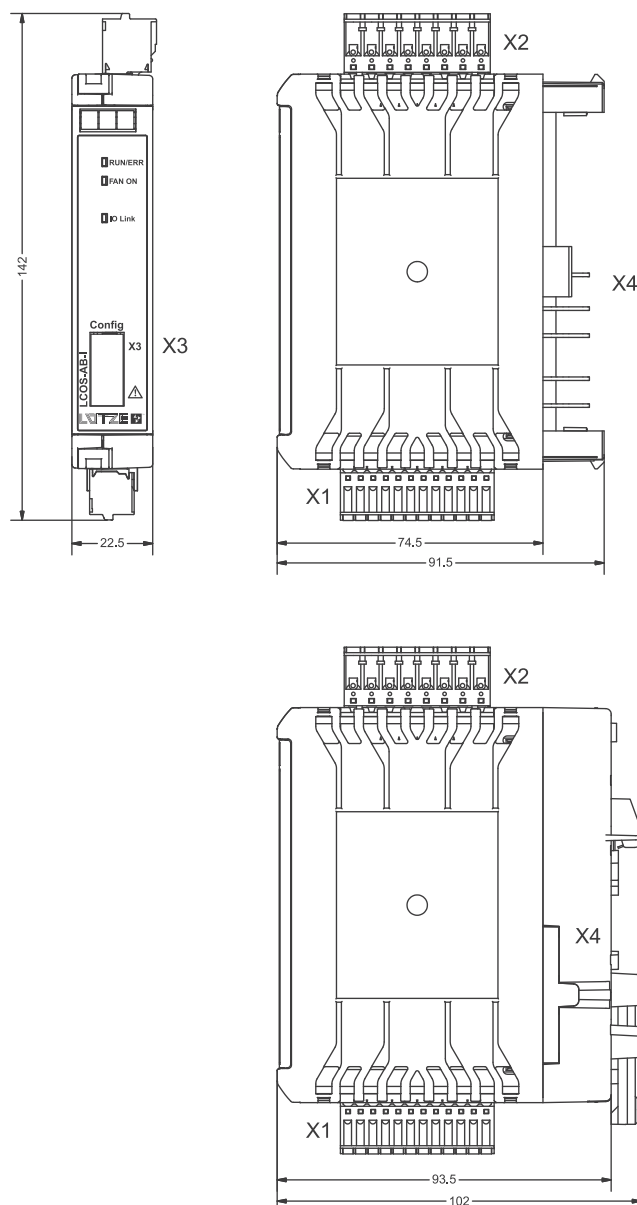
See also the appropriate chapter in operating instructions.

Notes and Comments

Note

For the parameterization you need the USB service cable, LCON ZB USB, part number 750894 and the software Lütze HART-DTM and PACTware. The current versions can be found in the download area of the respective product page on the LÜTZE website.

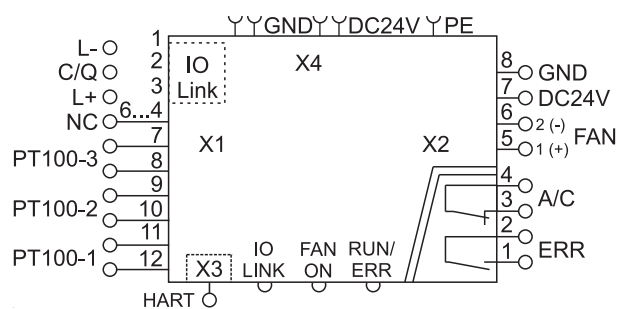
Dimensions



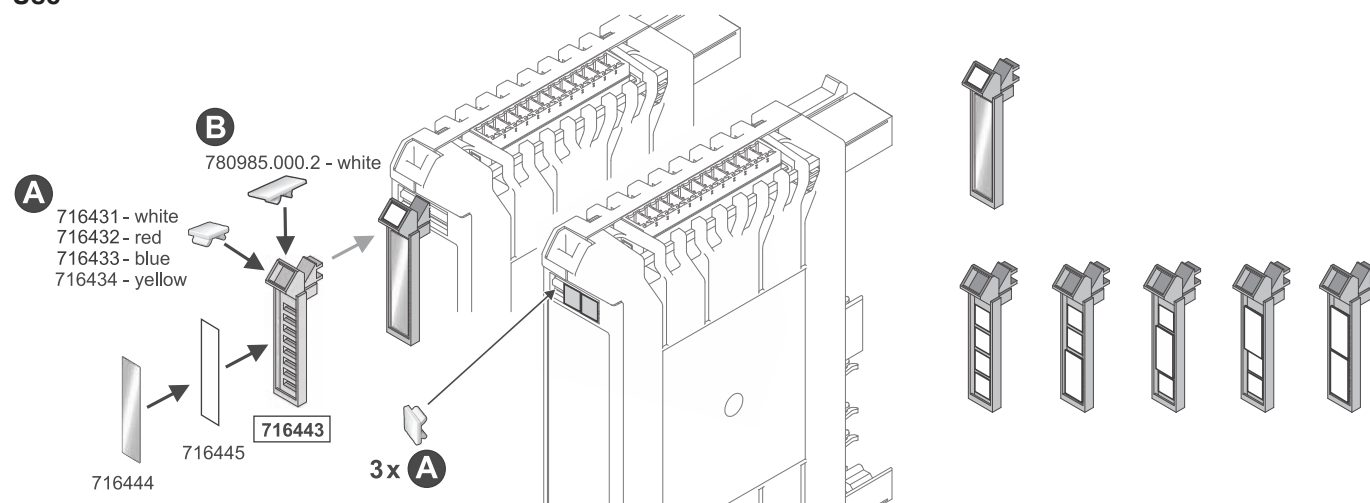
Technical data sheet

Mounting Accessories

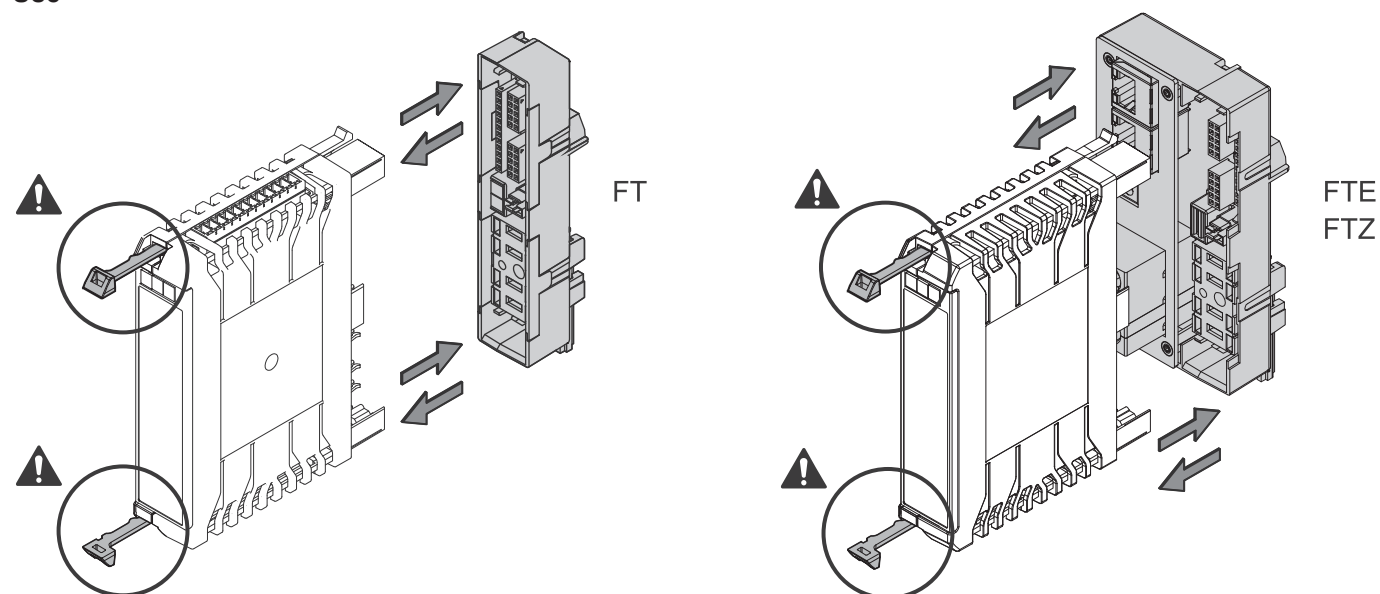
PIN assignment



Use

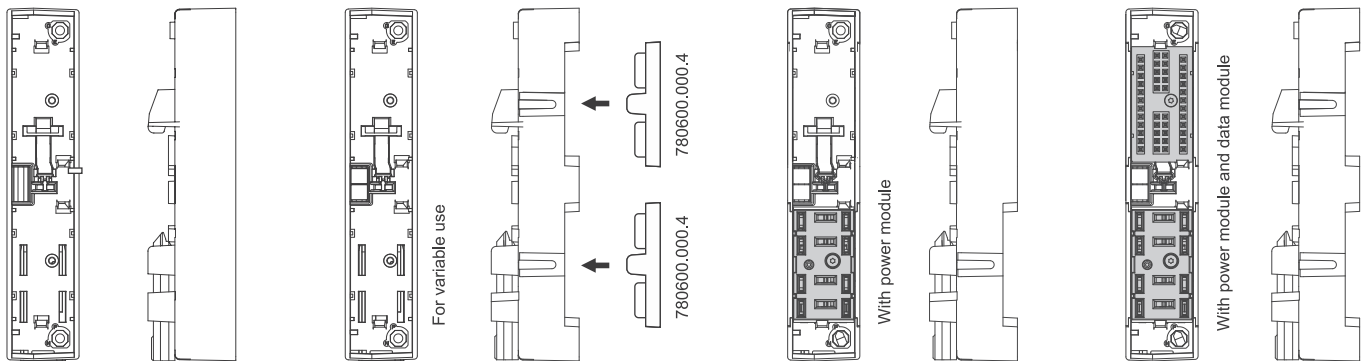


Use



Use

FT, without supply - LCOS function carriers, 22.5 mm - overview



For standalone devices

780201.225.1 - PU (units) 1

780201.225.2 - PU (units) 10

For LCOS system with databus / powerbus

780331.225.1 - PU (units) 1

780331.225.2 - PU (units) 10

780402.225.1 - PU (units) 1

780402.225.2 - PU (units) 10

780403.225.1 - PU (units) 1

780403.225.2 - PU (units) 10

Technical data sheet

Mounting Accessories

Adapter set



Identification

Type

AirBLOWER Adapter

Part-No.780994.0000

Product version

Datasheet version

00

Use/Application/Properties

Application

- Attachment set for *AirBLOWER*

Description

Description

For attaching the *AirBLOWER* to the *AirSTREAM*.

General

PU (units)

1

Notes and Comments

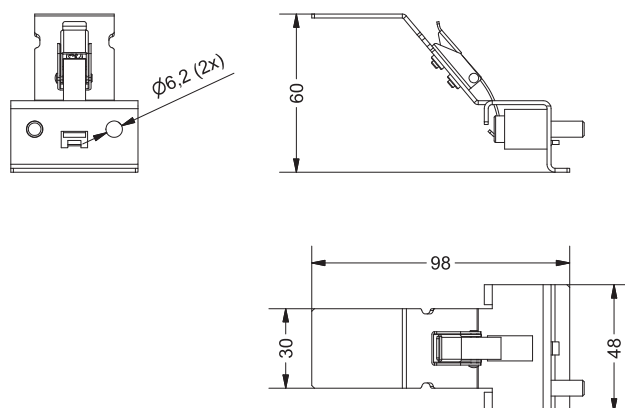
Comments

AirBLOWER must be procured separately

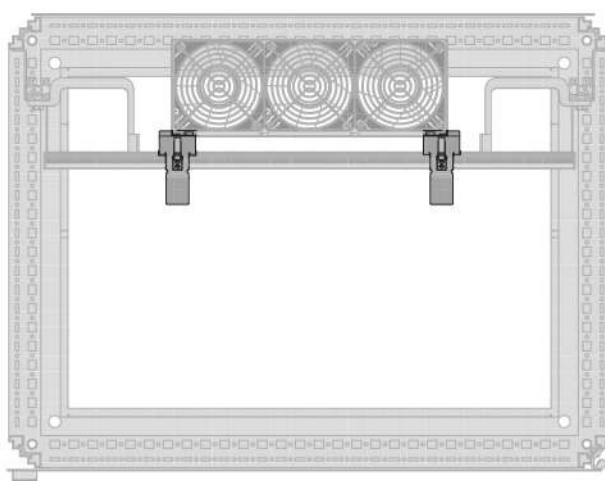
Technical data sheet

Mounting Accessories

Dimensions



Use



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