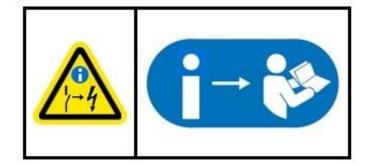


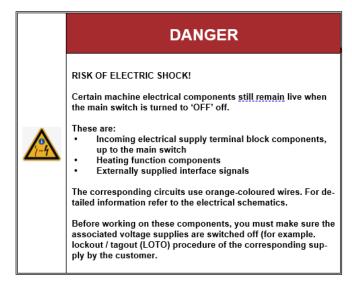
Electric switchboard AE-BU15MW

Contents

- 1. Technical Report sheet TR 1-4
- 2. Electrical Diagram sheet 1-17







SAFETY REGULATIONS



During controller operation certain items are under dangerous voltage! Non-observance of safety instructions can result in death, serious injuries or material damage.

Only specialist personnel may carry out transport, installation and commissioning work. The applicable valid standards as well as the national and / or company-specific accident prevention regulations are to observed.

The following safety instructions are to be observed:

The installation, commissioning, troubleshooting as well as repair of the controller may only be carried out by qualified personnel that is familiar with the corresponding operating instructions.

Device connection and installation has to follow all the valid standards, state and local regulations. Proper grounding and conductor dimensioning as well as proper short-circuit proofing have to be ensured. These measures serve to ensure the safety of the plant and of the operating personnel.

Before carrying out safety checks, maintenance work and repair measures ensure that all the power supplies are switched off, are secured against being switched on unintentionally and are marked correspondingly.

Only test devices that are in technically perfect condition and are suitable for the respective measurement may be used to carry out measurements!

The instructions specified in the respective operating instructions are to be followed strictly! It is mandatory that hazard, warning and safety instructions are followed!

All doors and covers are to be kept closed during the controller operation. If cooling devices are installed in the controller, ensure that these systems operate trouble-free. These include the regular cleaning of the filters, in as far as they exist.

Processed: Michal Liška Responsible: David Krivánka sheet TR 1 /4

Date: 10.4.2024

Technical Report

Electric switchboard AE-BU15MW

1. General

AE-BU15MW is an indoor, metal sheet cabinet designed for control and powering of the blower unit and complies with EN 60204-1 and EN 61439-1. The cabinet is totally enclosed and has following dimensions: 1400x600x400mm (HxWxL)

The switchboard consists of electric components, which ensure starting, running and safe operation of 15 kW / 380-415 V +/-10% 50/60 Hz blower package. The switchboard is secured against short circuit by main switch/circuit breaker – 3F1. Start and blower speed control is controlled by frequency converter (FC) -4G2. Its protection circuits protect the blower motor from over-current. Blower cabinet fan motors -3M4 and -3M6 are powered by 230 VAC, 50/60 Hz isolation transformer -3T5. Its primary winding is protected by circuit breaker -3Q3. Blower fan -3M4 is protected by circuit breaker -3Q5, switchboard fan –3M6 is protected by circuit breaker -3Q6 and started by auxiliary relay -6K1. Power supply -3U6 powers AECon controller -3A8 with 24 VDC. Its primary wiring is protected by circuit breaker -3Q4, control circuits are protected by circuit breaker -3Q7. AECon controller -3A8, EMERGENCY STOP button -5S7 and control handle of the main switch/circuit breaker are located on the switchboard door.

The electric switchboard shall be connected to the main power supply by WL01 cable in size 4x6mm². The blower motor is connected by shielded cable WL02 YSLCY 4x6 mm². Fan motor –3M4 is connected by WL03 YSLY-JZ 3x1 cable. Pressure sensor –5B1 is connected by WS02 PUR 4x0,34 cable. Remote control 0-10V should by connected WS04 LIYCY 2x0,5 cable. Air temperature sensor –5B3 is connected by WS05 SIHF 2x0,34 cable. Motor thermistor -5B5 is connected by WS06 YSLY-OZ 2x0,75 cable. Cables from and into the switchboard shall be installed from the bottom of the switchboard.

ATTENTION! When working on the device, it is necessary to switch it off from the power supply by setting off the main circuit breaker. There is a voltage on input terminals even when the main switch if switched off.

2. Function description

After switching on the main switch/circuit breaker –3F1 of the control handle, blower is ready to start. Please see the Danfoss frequency converter manual (Annex to the Technical report) to set the drive parameters. Press push START [I] button on the control unit AECon –3A8. The machine will start. Please note, that the Auto and Remote switch is not operational when the machine is running.

It is possible to read current value of the blower charge/discharge pressure on the display AECon –3A8. Please check the AECon manual to read the process values and/or set the control unit parameters.

It is possible to control the blower by remote command through NO contact via terminal connectors –X5:3, -X5:6. The blower speed can be controlled by remote control 0-10V via terminal connectors -X5:21, -X5:22. The current condition of blower is reported via zero-potential contacts -X5:1, -X5:2 - connected (NO) operation, –X5:7, -X5:8 connected (NC) blower in Alarm.

Danfoss drive is monitoring the system pressure, temperature and motor current, as well as other measured values and will stop the machine operation when the error occurs. The errors and warnings are shown on the AECon display. It is possible to put blower into operation after the defect has been eliminated.

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3. Basic technical parameters

Rated voltage	3L+PE AC 380-415V +/-10% 50/60Hz
FLA	30A
Short circuit resistance	25kA
El. protection	IP54, after opening the cover IP20
Protection from dangerous touch	automatic disconnection from the source
Switchboard dimensions	1400x600x400mm
Weight – switchboard + control panel	75kg
Design according to	EN 60204-1 and EN 61439-1
Drawing documentation	AR100152
Ambient temperature	0 to 45°C
Humidity range	50% at 40°C to 90% at 20°C
Altitude up to	1000m

4. Technical specification

Responsible: David Krivánka

Metal sheet cabinet Rittal AX1091.000, dimensions 1000x600x400mm Switchboard base with dimensions 600x600x400

Item	Marking	description, type, function, manufacturer	QTY, length (m)
1.	-3A8	AECon controller HMI, ARDAT Systems, language versions EN / DE	1 pc
2.	-3F1	Main switch/circuit breaker, MC132131, 32A, 440V, Schrack	1 pc
3.	-3Q3	Circuit breaker C2A, P1MB2PC02, protects transformer -3T5 from short circuit, Lovato	1 pc
4.	-3Q4	Circuit breaker C1A, P1MB2PC01, protects power supply -3U6 from short circuit, Lovato	о 1 рс
5.	-3Q5	Circuit breaker C2A, P1MB1PC02, blower fan protection -3M4 from short circuit, Lovato	1 pc
6.	-3Q6	Circuit breaker C2A, P1MB1PC02, switchboard fan protection -3M6, Lovato	1 pc
7.	-3Q7	Circuit breaker C2A, P1MB1PC02, protects control circuits 24VDC, Lovato	1 pc
8.	-3T5	Transformer, LP824040, 400VA, 400/230V, fan supply voltage, Schrack	1 pc
9.	-3U6	Power source, WDR-60-24, 60W, 180-550VAC/24VDC, control voltage, Mean Well	1 pc
10.	-3M6	Fan, SK3239.100, 18,5W, 0,12A, 230V, 50Hz, switchboard cooling, Rittal	1 pc
11.	-4G2	Frequency converter with control panel, FC280P15K, 15kW, 380-480V, Danfoss	1 pc
12.	-5B1	Pressure sensor, HUBA 528, 7-33VDC, measurement of inlet air pressure,	
		Huba, outside of switchboard	1 pc
	ed: Michal		Date: 10.4.2024

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135B3	Temperature sensor, TSB 060, NC 140°C, measurement of outlet air temp, Sensit,	
	outside of switchboard	1 pc
145S7	Controller head PPFN1R4N, NC unit PL004001, EMERGENCY STOP, Giovenzana	1 pc
156K1	Relay, RS500024, 24VDC, 6A + socket, auxiliary relay for control circuits, Schrack	1 pc
146K2	Relay, RXT21LC4, 24VDC, 5A + socket, auxiliary relay for control circuits, Schrack	1 pc
15X1	Terminal box, 3x WT10 + 1x WT10 PE, switchboard power supply in, Wieland	1 pc
16X2	Terminal box, 1x WT2,5 + 1x WT2,5 N + 1x WT2,5 PE, output for blower fan supply, Wieland	1 pc
17X3	Terminal EMC, 1x SFZ + 2x SFL, fixing the cable shield, Icotek	1 pc
18X4,-X5	Terminal box, WT 2,5 4+10 pcs, external signals, Wieland	1 pc

Cable leading

1.	WL01	CYKY 4x6, supply mains of the blower	not included
2.	WL02	YSLCY 4x6, current supply of mains engine –4M2, Tekaben	5 m
3.	WL03	YSLY-JZ 3x1, current supply of fan engine –3M4, Tekaben	5 m
4.	WS02	PUR 4x0,34, connection pressure sensor -5B1 witch frequency converter -4G2, IFM	5 m
5.	WS04	LIYCY 2x0,5, remote control 0-10V	not included
6.	WS05	SIHF 2x0,34, connection temperature sensor –5B3 witch freq. converter -4G2, Tekaben	5 m
7.	WS06	YSLY-OZ 2x0,75, connection thermistor –5B5 with frequency converter -4G2, Tekaben	5 m
8.	WS07	YSLY-OZ 2x1, external control Start / Stop	not included
9.	WS08	YSLY-OZ 4x1, external signals connected	not included

sheet TR 4 /4

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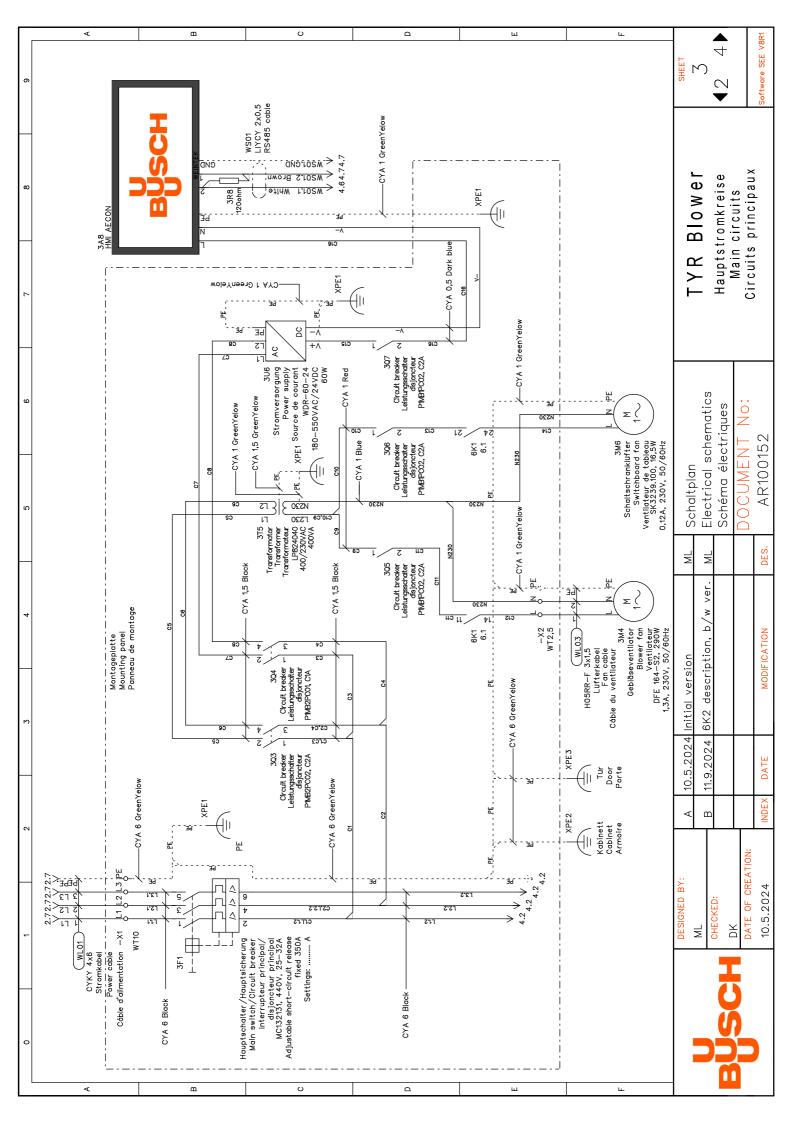
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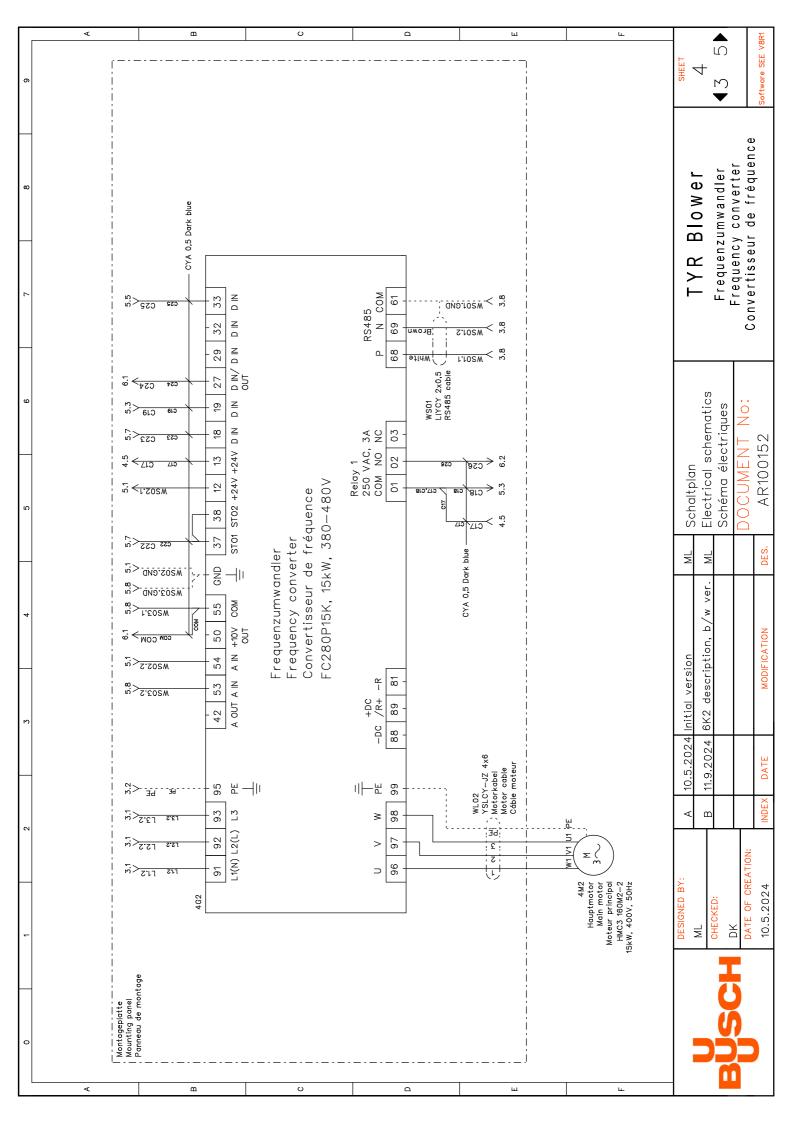
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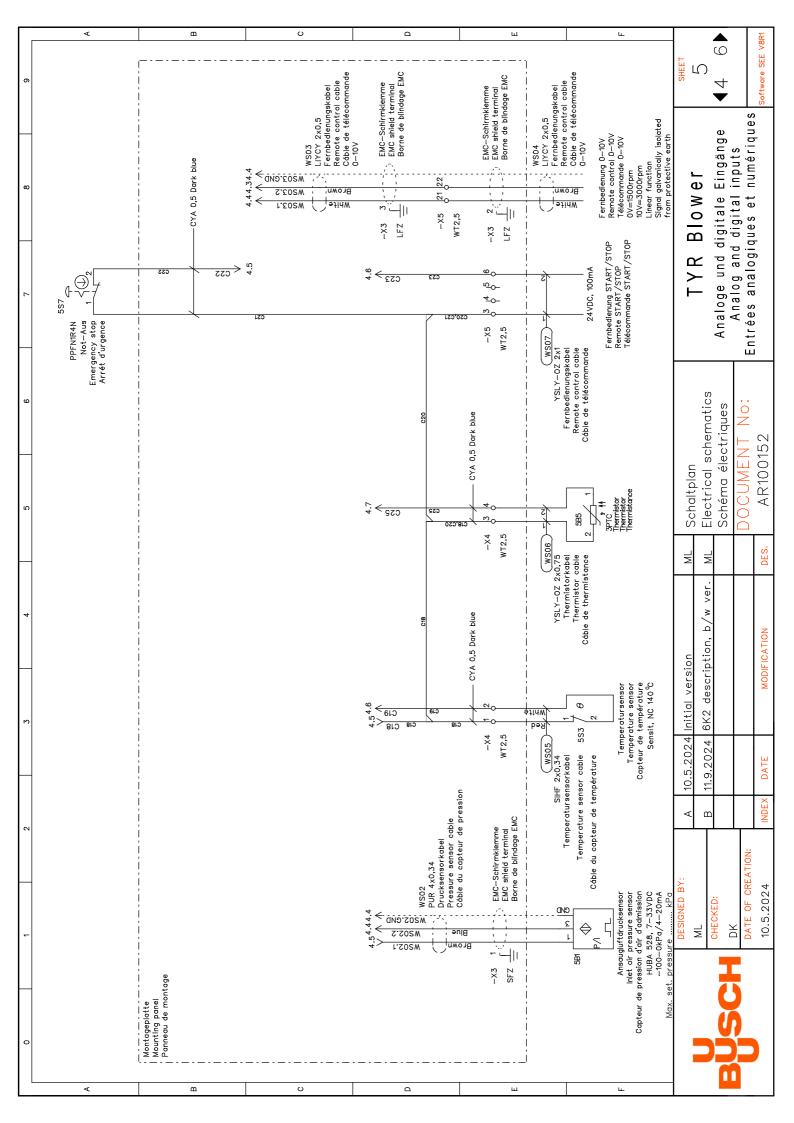
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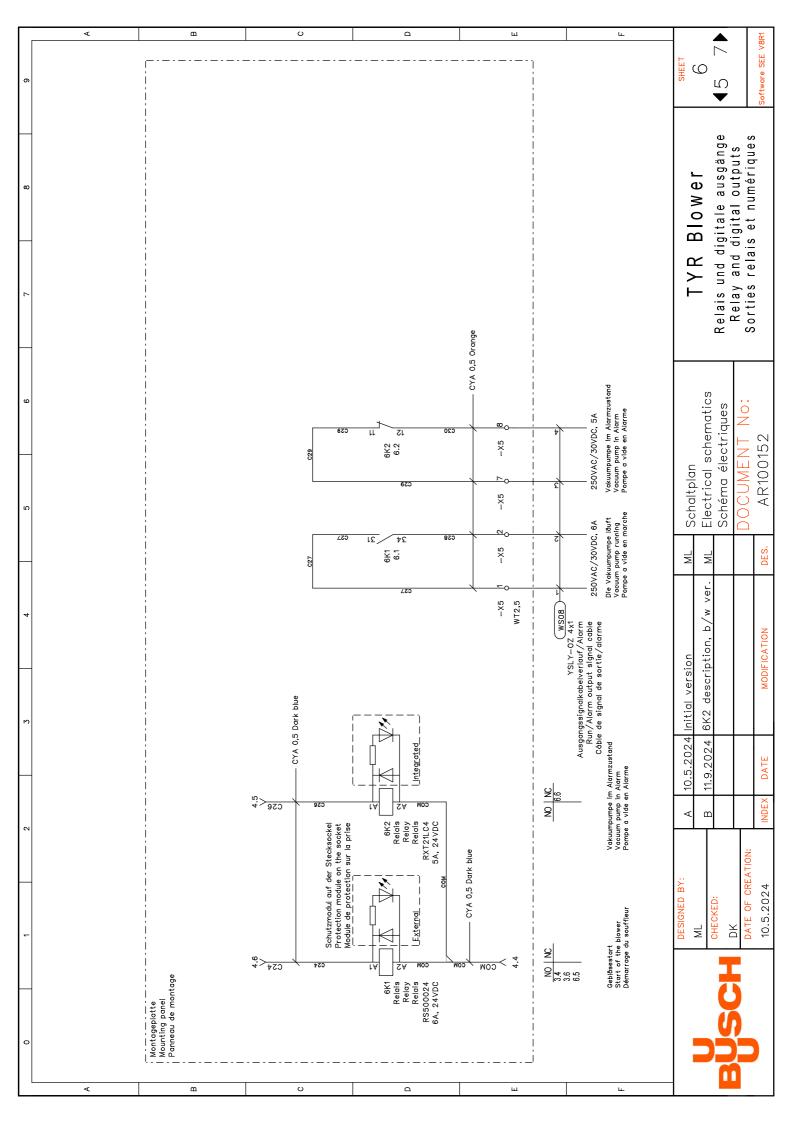
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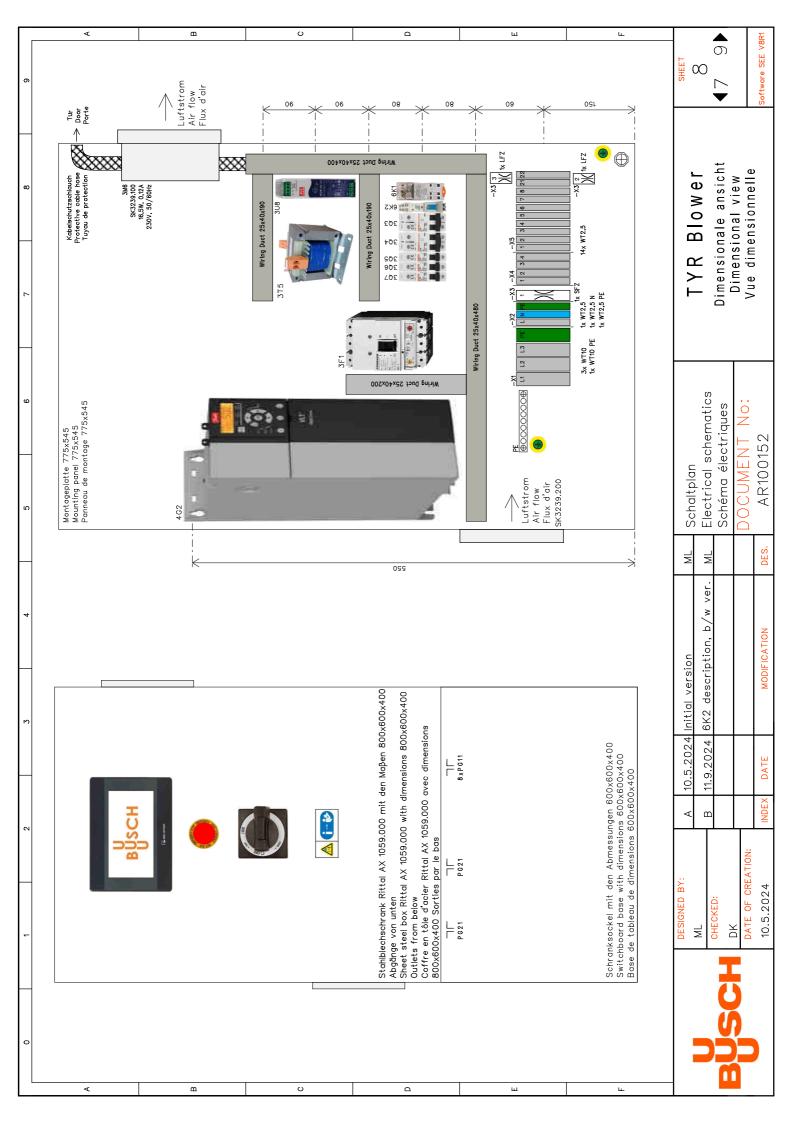








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	Product (-)	-X5:1	-X5:2	-X5:3	-X5:4	-X5:5	-X5:6	-X5:7	-X5:8	-X5:21	-X5:22

	Cell	1	2	4	8	٢	80	ø	3	5	7	4									SHEET		1	Software SEE V8R1
	Sheet	Э	4	£	ъ	ß	£	ъ	5	5	ы	9									Blower		of C	des câbles
câbles	Connection 2	-X1	4M2	3M4	4G2	5B1	-X5	Fernbedienung/Remote control/ Télécommande 0–10V	5B3	585	Fernbedienung/Remote/ Télécommande START/STOP	Digitale ausgänge/Digital outputs/Sorties numériques									T < P			Liste
oles / Liste des	Connection 1	FC1	462	-x2	3A8	462	462	-X5	-X4	-X4	-X5	-X5									Schaltplan	Electrical schematics	ectriques	AR100152
Liste der Kabel / List of Cables / Liste des câbles	Description	Stromkabel / Power cable / Cáble d'alimentation	Motorkabel / Motor cable / Cáble moteur	Lufterkabel / Fan cable / Cáble du ventilateur	RS485 cable	Drucksensorkabel / Pressure sensor cable / Cáble du capteur de pression	Fernbedienungskabel 0-10V / Remote control cable 0-10V / Cáble de télécommande 0-10V	Fernbedienungskabel 0–10V / Remote control cable 0–10V / Cáble de télécommande 0–10V	Temperatursensorkabel / Temperature sensor cable / Cáble du capteur de température	Thermistorkabel / Thermistor cable / Cáble de thermistance	Fernbedienungskabel / Remote control cable / Cáble de télécommande	Ausgangssignalkabelverlauf/Alarm / Run/Alarm output signal cable / Cáble de signal de sortie/alarme									DESIGNED BY: A 10.5.2024 Initial version ML	CKED: B 11.9.2024 6K2 description, b/w ver. ML		DATE OF CREATION: DATE MODIFICATION DES. 10.5.2024 INDEX DATE MODIFICATION DES.
	Cablename (-)	WL01	WL02	WL03	WS01	WS02	WS03	WS04	WS05	90SW	WS07	WS08											HUSDE	

3F1:1 3F1:3 3F1:5 3F1:5 3F1:5 3F1:5 4C2:91 4C2:92 4C2:92 4C2:92 4C2:92 4C2:92 4C2:92 4C2:92 4C2:92 4C2:92 4C2:95 4C2:95	HO7 V-K 1x6. Black HO7 V-K 1x6. Black	Colour	Square
	HO7 V-K 1x6. Black HO7 V-K 1x6. Black HO7 V-K 1x6. Black HO7 V-K 1x6. Black HO7 V-K 1x6. Black		oquale
	H07 V-K 1x6. Black H07 V-K 1x6. Black H07 V-K 1x6. Black H07 V-K 1x6. Black	Black	o o
	H07 V-K 1x6. Black H07 V-K 1x6. Black H07 V-K 1x6. Black	Black	9
	H07 V-K 1x6. Black H07 V-K 1x6. Black	Black	9
	H07 V-K 1x6. Black	Black	9
		Black	9
	H07 V-K 1x6. Green yelow	Green yelow	9
	H07 V-K 1x6. Green yelow	Green yelow	9
	H07 V-K 1x6. Green yelow	Green yelow	9
	H07 V-K 1x6. Green yelow	Green yelow	6
	H07 V-K 1x1. Green yelow	Green yelow	1
	H07 V-K 1x1. Green yelow	Green yelow	1
	H07 V-K 1x1,5. Green yelow	Green yelow	-
	H07 V-K 1x1. Green yelow	Green yelow	1
	H07 V-K 1x1,5. Green yelow	Green yelow	1,5
	H07 V-K 1x1. Green yelow	Green yelow	٢
	H07 V-K 1x1. Blue	Blue	-
	H07 V-K 1x1. Blue	Blue	٢
	H07 V-K 1x0,5. Dark blue	Dark blue	0,5
	H07 V-K 1x1,5. Black	Black	1,5
	H07 V-K 1x1,5. Black	Black	1,5
	H07 V-K 1x1,5. Black	Black	1,5
303:3 304:3	H07 V-K 1x1,5. Black	Black	1,5
3Q3:2 3T5:L1	H07 V-K 1x1,5. Black	Black	1,5
3Q3:4 3T5:L2	H07 V-K 1x1,5. Black	Black	1,5
3Q4:2 3U6:L1	H07 V-K 1x1,5. Black	Black	1,5
3Q4:4 3U6:L2	H07 V-K 1x1,5. Black	Black	1,5
3T5:L 3Q5:1	H07 V-K 1x1. Black	Black	-
3T5:L 306:1	H07 V-K 1x1. Black	Black	-
DESIGNED BY:A10.5.2024Initial versionMLSchaltplanMLB11.9.20246K2 description, b/w ver.MLElectrical schematics	ΤΥ	R Blower	SHEET 16
DACHÉMA électriques		Drahtliste Wire list	↓ 1 <1
10.5.2024 INDEX DATE MODIFICATION DES. AR100152		Liste des fils	Software SEE V8R1

	Square	1	-	1	1	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5		sHEET 17 ▲16	Software SEE V8R1
	Colour	Black	Black	Black	Black	Dark blue	Dark blue	Dark blue	Drak blue	Drak blue	Dark blue	Orange	Orange	Orange	Orange	Dark blue	Dark blue		TYR Blower Drahtliste Wire list	Liste des fils								
	Type	H07 V-K 1x1. Black	H07 V-K 1x1. Black	H07 V—K 1x1. Black	H07 V-K 1x1. Black	H07 V—K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V—K 1x0,5. Dark blue	H07 V—K 1x0,5. Orange	H07 V-K 1x0,5. Dark blue	H07 V-K 1x0,5. Dark blue		T Y R Dra	Liste			
Drahtliste / Wire list / Liste des fils	To To	6K1:11	-x2:L	6K1:21	3M6:L	307:1	3AB:L	4G2:01	-X4:1	-X4:3	4G2:19	-X5:3	557:1	4G2:37	4G2:38	-X5:6	6K1:A1	4G2:33	6K2:A1	-X5:1	-X5:2	-X5:7	-X5:8	6K1:A2	6K2:A2		10.5.2024 Initial version ML Schaltplan 11.9.2024 6K2 description, b/w ver. ML Electrical schematics Schéma électriques	MODIFICATION DES. AR100152
	From	3Q5:2	6K1:14	3Q6:2	6K1:24	3U6:V+	3Q7:2	4G2:13	4G2:01	-X4:1	X4:2	X4:3	-×5:3	5S7:2	4G2:37	4G2:18	4G2:27	X4:4	4G2:02	6K1:31	6K1:34	6K2:11	6K2:12	4G2:55	6K1:A2		DK	DATE OF CREATION: 10.5.2024 INDEX DATE
	No	C11	C12	C13	C14	C15	C16	C17	C18	C18	C19	C20	C21	C22	C22	C23	C24	C25	C26	C27	C28	C29	C30	COM	COM			