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Translation of the original operating instructions

1. SAFETY REGULATIONS AND INFORMATION

Read these operating instructions carefully before starting work on the device. Observe the following warnings to prevent malfunctions or danger to persons.

These operating instructions are to be regarded as part of the device. The device is only to be sold or passed on together with the operating instructions.

These operating instructions may be duplicated and distributed to inform about potential dangers and their prevention.

1.1 Hazard levels for warnings

These operating instructions use the following hazard levels to indicate potentially hazardous situations and important safety regulations:



DANGER

Indicates an imminently hazardous situation which will result in death or serious injury if the specified actions are not taken. Compliance with the instructions is imperative.

WARNING

Indicates a potentially hazardous situation which can result in death or serious injury if the specified actions are not taken. Exercise extreme caution while working.

CAUTION

Indicates a potentially hazardous situation which can result in minor or moderate injury or damage to property if the specified actions are not taken.

NOTE

A potentially harmful situation can occur and, if not avoided, can lead to property damage.

1.2 Staff qualifications

The device may only be transported, unpacked, installed, operated, maintained and otherwise used by suitably qualified, trained and authorized technical staff.

Only authorized specialists are permitted to install the device, to carry out a test run and to perform work on the electrical installation.

1.3 Basic safety rules

The safety hazards associated with the device must be assessed again following installation in the final product.

The locally applicable industrial safety regulations are always to be observed when working on the device.

Keep the workplace clean and tidy. Untidiness in the work area increases the risk of accidents.

Note the following when working on the device:

⇒ Do not perform any modifications, additions or conversions on the device without the approval of ebm-papst.

1.4 Voltage

- ⇒ Check the device's electrical equipment at regular intervals; see Chapter 5.2 Safety inspection.
- ⇒ Replace loose connections and defective cables immediately.



Electrically charged device Risk of electric shock

→ When working on an electrically charged device, stand on a rubber mat.



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WARNING

Live terminals and connections even with device switched off Electric shock

→ Wait five minutes after disconnecting the voltage at all poles before opening the device.

CAUTION

In the event of a fault, the rotor and the impeller will be energized

The rotor and the impeller have basic insulation.

 \rightarrow Do not touch the rotor and impeller once installed.

CAUTION

The motor restarts automatically when operating voltage is applied, e.g. after a power failure.

Risk of injury

- → Keep out of the device's danger zone.
- → When working on the device, switch off the line voltage and ensure that it cannot be switched back on.
- \rightarrow Wait until the device comes to a stop.

1.5 Safety and protective features

DANGER



Guard missing and guard not functioning

Without a guard, hands may become caught up in the device during operation for example, resulting in serious injury. Loose parts or items of clothing could be drawn in.

- \rightarrow The device is a built-in component. As the owner, you are responsible for ensuring that the device is adequately safeguarded.# Operate the device only with a fixed protective device and guard grill.
- → Stop the device immediately if a protective device is found to be missing or ineffective.

1.6 Electromagnetic radiation

Interference from electromagnetic radiation is possible, e.g. in conjunction with open- and closed-loop control devices.

If impermissible radiation levels occur following installation, appropriate shielding measures have to be taken by the user.

NOTE

Electrical or electromagnetic interference after installing the device in customer equipment.

→ Verify that the entire setup is EMC-compliant.

1.7 Mechanical movement



DANGER Rotating device

Risk of injury to body parts coming into contact with the rotor or the impeller.

- \rightarrow Secure the device against accidental contact.
- → Before working on the system/machine, wait until all parts have come to a standstill.

WARNING

Rotating device

Long hair and dangling items of clothing, jewelry and the like can become entangled and be pulled into the device. Injuries can result.

- → Do not wear any loose-fitting or dangling clothing or jewelry while working on rotating parts.
- \rightarrow Protect long hair with a cap.

1.8 Emissions

WARNING

Depending on the installation and operating conditions, the sound pressure level may exceed 70 dB(A). Risk of noise-induced hearing loss

- → Take appropriate technical safety measures.
- \rightarrow Protect operating personnel with appropriate safety equipment such as hearing protection.
- \rightarrow Also observe the requirements of local agencies.

1.9 Hot surface



CAUTION

High temperature on motor housing Risk of burns

→ Ensure sufficient protection against accidental contact.

1.10 Transport



NOTE Transporting the device

- \rightarrow Transport the device in its original packaging only.
- \rightarrow Secure the device so it cannot slip, e.g. by using a lashing strip.

1.11 Storage

- ⇒ Store the device, partially or fully assembled, in a dry place, protected against the weather and free from vibration, in the original packaging in a clean environment.
- Protect the device against environmental effects and dirt until final ⇒ installation.
- We recommend storing the device for no longer than one year in order to guarantee trouble-free operation and the longest possible service life.
- Even devices explicitly intended for outdoor use are to be stored as described prior to commissioning.
- Maintain the storage temperature, see Chapter 3.6 Transport and storage conditions.



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2. INTENDED USE

The device is exclusively designed as a built-in device for conveying air according to its technical data.

Any other usage above and beyond this does not conform with the intended purpose and constitutes misuse of the device.

Customer equipment must be capable of withstanding the mechanical and thermal stresses that can arise from this product. This applies for the entire service life of the equipment in which this product is installed.

Intended use also includes

- Using the device only in power systems with grounded neutral (TN/ TT power systems).
- Conveying air at an ambient air pressure between 800 mbar and 1050 mbar.
- Using the device within the permitted ambient temperature range; see Chapter 3.6 Transport and storage conditions and Chapter 3.2 Nominal data.
- Operating the device with all protective devices.
- Following the operating instructions.

Improper use

In particular, operating the device in the following ways is prohibited and could be hazardous:

- Operating the device in an unbalanced state, e.g. due to dirt deposits or ice formation.
- Resonant operation, operation with severe vibration. This also includes vibration transmitted to the fan from the customer installation.
- Operation in medical equipment with a life-sustaining or life-support function.
- Conveying solids in the flow medium.
- Painting the device
- · Connections (e.g. screws) coming loose during operation.
- Conveying air that contains abrasive particles.
- Conveying highly corrosive air, e.g. salt spray. Exception: devices designed for salt spray and correspondingly protected.
- Conveying air with high dust content, e.g. suctioning off sawdust.
- Operating the device close to flammable materials or components.
- Operating the device in an explosive atmosphere.
- Using the device as a safety component or to perform safety-related functions.
- Operation with completely or partially disassembled or manipulated protective devices.
- · In addition, all applications not listed among the intended uses.

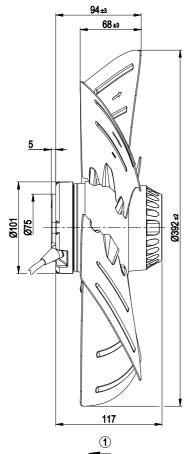


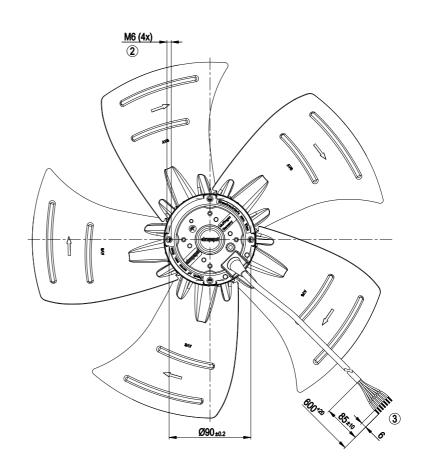
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3. TECHNICAL DATA

3.1 Product drawing





All dimensions in mm.

1	Direction of air flow "V"
2	Max. clearance for screw 10 mm
3	Cable PVC 7G 0.5 mm ² , 7x crimped splices



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3.2 Nominal data

Motor	otor M4D074-EI			
Phase	3~	3~	3~	3~
Nominal voltage / VAC	230	230	400	400
Wiring	Δ	Δ	Υ	Υ
Frequency / Hz	50	60	50	60
Method of obtaining data	fa	fa	fa	fa
Valid for approval/ standard	CE	CE	CE	CE
Speed (rpm) / min-1	1450	1690	1450	1690
Power consumption / W	135	185	135	185
Current draw / A	0.76	0.68	0.44	0.39
Max. back pressure / Pa	105	120	105	120
Min. ambient	-25	-25	-25	-25
temperature / °C				
Max. ambient temperature / °C	40	40	40	40
Starting current / A	3.0	3.0	1.7	1.7

ml = Max. load \cdot me = Max. efficiency \cdot fa = Free air

cs = Customer specification \cdot ce = Customer equipment

Subject to change

3.3 Data according to Commission Regulation (EU) 327/

20	Ί	1	

	Actual	Req. 2015	
01 Overall efficiency ηes / %	34.4	29.3	
02 Measurement category	A		
03 Efficiency category	Static		
04 Efficiency grade N	45.1	40	
05 Variable speed drive	No		
06 Year of manufacture		The year of manufacture is specified on the product's rating label.	
07 Manufacturer	ebm-papst Mulfingen GmbH & Co. KG Amtsgericht (court of registration) Stuttgart · HRA 590344 D-74673 Mulfingen		
08 Туре	A4D400-AP12-01		
09 Power consumption Pe / kW	0.2		
09 Air flow q _v / m³/h	2805		
09 Pressure increase total pfs / Pa	92		
10 Speed (rpm) n / min ⁻¹	1390		
11 Specific ratio*	1.00		
12 Recycling/disposal	Information on recycling and disposal is provided in the operating instructions.		
13 Maintenance	Information on installation, operation and maintenance is provided in the operating instructions.		
14 Additional components	efficiency that	sed to calculate the energy are not apparent from the category are detailed in the	

* Specific ratio = 1 + pfs / 100 000 Pa

Data obtained at optimum efficiency level. The efficiency values displayed for achieving conformity with the Ecodesign Regulation EU 327/2011 has been reached with defined air duct components (e.g. inlet rings). The dimensions must be requested from ebm-papst. If other air conduction geometries are used on the installation side, the ebm-papst evaluation loses its validity/the conformity must be confirmed again. The product does not fall within the scope of Regulation (EU) 2019/1781 due to the exception specified in Article 2 (2a) (motors completely integrated into a product).

3.4 Technical description

Weight 3.3 kg Size 400 mm Motor size 74 Rotor surface Painted black Blade material Sheet steel, pain Number of blades 5 Airflow direction V	nted black
Motor size 74 Rotor surface Painted black Blade material Sheet steel, pain Number of blades 5	nted black
Rotor surface Painted black Blade material Sheet steel, pain Number of blades 5	nted black
Blade material Sheet steel, pair Number of blades 5	nted black
Number of blades 5	nted black
Airflow direction	
Direction of rotation Counterclockwis	se, viewed toward rotor
Degree of protection IP44; installation as per EN 6003	n- and position-dependent
Insulation class "B"	τ υ
Moisture (F) / H1	
Environmental (H)	
protection class	
•	or rotor on bottom; rotor
on top on reque	,
Condensation On rotor side	
drainage holes	
Mode S1	
Motor bearing Ball bearing	
Touch current < 0.75 mA	
according to IEC	
60990 (measuring	
circuit Fig. 4, TN	
system)	
with cable Variable	
Protection class I (with customer earth)	connection of protective
/	otor does not have
	overheating protection;
CE; UKCA	
Approval EAC; CCC	

⇒ Use the device in accordance with its degree of protection.

Information on surface quality

The surfaces of the products conform to the generally applicable industrial standard. The surface quality may change during the production period. This has no effect on strength, dimensional stability and dimensional accuracy.

The color pigments in the paints used perceptibly react to UV light over the course of time. The product is to be protected against UV radiation to prevent the formation of patches and fading. Changes in color are not a reason for complaint and are not covered by the warranty. UV radiation in the frequency range and the intensity of natural solar radiation has no effect on the technical properties of the products.

3.5 Mounting data

Further mounting data can be taken from the product drawing or Chapter 4.1 Mechanical connection as required.

Strength class of	8.8	
screws		

For screw clearance, see Chapter 3.1 Product drawing

⇒ Secure the screws against unintentional loosening (e.g. use selflocking screws).

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3.6 Transport and storage conditions

Max. permitted ambient temp. for motor (transport/ storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/ storage)	- 40 °C

4. CONNECTION AND STARTUP

4.1 Mechanical connection



CAUTION Cutting and crushing hazard when removing fan from packaging

- → Carefully remove the device from its packaging, grasping it by only the blades near the hub. Strictly avoid shocks.
- \rightarrow Wear safety shoes and cut-resistant safety gloves.



CAUTION The blades of the impeller could be damaged.

- \rightarrow Carefully set down the fan on a soft surface. Make sure the blades are not subjected to load.
- → Following installation, make sure the impeller moves easily and that the blades of the impeller are not deformed or bent and do not catch at any point.



NOTE

Damage to the device from vibration Bearing damage, shorter service life

- \rightarrow The fan must not be subjected to force or excessive vibration from sections of the installation.
- → If the fan is connected to air ducts, the connection should be isolated from vibration, e.g. using compensators or similar elements.
- → Ensure stress-free attachment of the fan to the substructure.
- Check the device for transport damage. Damaged devices are not to be installed.
- Install the undamaged device in accordance with your application.



CAUTION Possible damage to the device

If the device slips during installation, serious damage can result.

- → Ensure that the device is securely positioned at its place of installation until all fastening screws have been tightened.
- The fan must not be strained on fastening.

4.2 Electrical connection



DANGER

Voltage on the device Electric shock

- \rightarrow Always connect a protective earth first.
- \rightarrow Check the protective earth.



DANGER Faulty insulation

Risk of fatal injury from electric shock

- → Use only cables that meet the specified installation regulations for voltage, current, insulation material, capacity, etc.
- → Route cables so that they cannot be touched by any rotating parts.



DANGER

Electrical charge (>50 μ C) between phase conductor and protective earth connection after switching off supply with multiple devices connected in parallel. Electric shock, risk of injury

→ Ensure sufficient protection against accidental contact. Before working on the electrical hookup, short the supply and PE connections.

CAUTION

Voltage

The fan is a built-in component and has no disconnecting switch.

- \rightarrow Only connect the fan to circuits that can be switched off with an all-pole disconnection switch.
- → When working on the fan, secure the system/machine in which the fan is installed so as to prevent it from being switched back on.

NOTE

Water ingress into wires or cables

Water ingress at the customer end of the cable can damage the device.

→ Make sure the end of the cable is connected in a dry environment.



Only connect the device to circuits that can be switched off with an all-pole disconnection switch.

4.2.1 Requirements

- ⇒ Check whether the information on the nameplate matches the connection data.
- ⇒ Before connecting the device, make sure the power supply matches the device voltage.
- Only use cables designed for the current level indicated on the nameplate.

For determining the cross-section, note the sizing criteria according to EN 61800-5-1. The protective earth must have a cross-section equal to or greater than that of the phase conductor. We recommend the use of 105 °C cables. Ensure that the minimum cable cross-section is at least AWG 26 / 0.13 mm².



Translation of the original operating instructions

Protective earth contact resistance according to EN 60335

Compliance with the resistance specifications according to EN 60335 for the protective earth connection circuit must be verified in the end application. Depending on the installation situation, it may be necessary to connect an additional protective earth conductor by way of the extra protective earth terminal provided on the device.

4.2.2 Voltage control



NOTE

Current overshoots may occur if speed control is implemented by transformers or electronic voltage regulators (e.g. phase control). Depending on the type of installation of the device, noise and vibration may also occur in the case of phase control. Vibration can lead to bearing damage and thus premature failure.

Heating-up of the motor when using voltage control must be checked by the customer following installation in the end device.

4.2.3 Variable frequency drive

Please use a variable frequency drive only after consultation with ebmpapst.



For operation with variable frequency drives, install sinusoidal filters that work on all poles (phase-phase and phase-ground) between the drive and the motor.

During operation with variable frequency drives, an all-pole sine filter protects the motor against high-voltage transients that can destroy the coil insulation system, and against harmful bearing currents.

Heating-up of the motor when using a variable frequency drive must be checked by the customer following installation in the end device.

4.3 Connecting the cables

The device has external leads.

- ⇒ First connect the "PE" (protective earth).
- Connect the cables according to your application. When doing so, observe Chapter 4.4 Connection diagram.

4.3.1 Motor protection



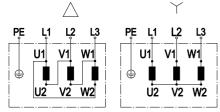
WARNING Device has no overheating protection

The device is supplied without any automatic overheating protection. The device can become hot and catch fire.

→ For the version without thermal overload protector, also install a suitable motor protection switch.



4.4 Connection diagram



Change of rotation direction by reversing two phases

	Three-phase motor
Δ	Delta connection
Y	Star connection
L1	= U1 = black
L2	= V1 = blue
L3	= W1 = brown
U2	green
V2	white
W2	yellow
PE	green/yellow



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4.5 Checking connections

- ⇒ Ensure isolation from supply (all phases).
- ⇒ Make sure a restart is impossible
- ⇒ Check the cables for proper fit.

4.6 Switching on the device

The device may only be switched on if it has been installed properly and in accordance with its intended use, including the required safety mechanisms and professional electrical hookup. This also applies for devices which have already been equipped with plugs and terminals or similar connectors by the customer.



WARNING Hot motor housing Risk of fire

- → Ensure that no combustible or flammable materials are located close to the fan.
- ⇒ Before switching on, check the device for visible external damage and make sure the protective devices are functional.
- ⇒ Check the fan's air flow paths for foreign matter and remove any foreign matter found.
- ⇒ Apply the nominal supply voltage.



Damage to the device from vibration Bearing damage, shorter service life

- \rightarrow Low-vibration operation of the fan must be ensured over the entire speed control range.
- → Severe vibration can arise for instance from inexpert handling, transportation damage and resultant imbalance or be caused by component or structural resonance.
- → Speed ranges with excessively high vibration levels and possibly resonant frequencies must be determined in the course of fan commissioning.
- → Either run through the resonant range as quickly as possible with speed control or find another remedy.
- → Operation with excessively high vibration levels can lead to premature failure.

4.7 Switching off the device

- ⇒ Disconnect the device from the power supply at the supply line's main switch.
- > When disconnecting, be sure to disconnect the ground connection last.

5. MAINTENANCE, MALFUNCTIONS, POSSIBLE CAUSES AND REMEDIES

Do not perform any repairs on your device. Send the device to ebmpapst for repair or replacement.



WARNING Live terminals and connection

Live terminals and connections even with device switched off Electric shock

→ Wait five minutes after disconnecting the voltage at all poles before opening the device.

CAUTION

The motor restarts automatically when operating voltage is applied, e.g. after a power failure.

Risk of injury

- \rightarrow Keep out of the device's danger zone.
- \rightarrow When working on the device, switch off the line voltage and ensure that it cannot be switched back on.
- \rightarrow Wait until the device comes to a stop.



If the device is out of use for some time, e.g. when in storage, we recommend switching it on for at least two hours to allow any condensation to evaporate and to move the bearings.

Malfunction/fault	Possible cause	Possible remedy
Impeller not	Imbalance in rotating	Clean the device;
running smoothly	parts	replace it if imbalance
		persists after cleaning.
		Make sure no
		weight clips are
		removed during
		cleaning.
Motor not turning	Mechanical blockage	Switch off, isolate
		from supply and
		remove mechanical
		blockage.
	Line voltage faulty	Check line voltage,
		restore power supply.
	Faulty connection	Isolate from supply,
		correct connection;
		see connection
		diagram.
	Impermissible point of	Check point of
	operation	operation
Motor	Ambient temperature	Reduce ambient
overtemperature	too high	temperature if possible
	Deficient cooling	Improve cooling



In the event of further malfunctions, contact ebm-papst.

5.1 Cleaning

To ensure a long service life, check the fans regularly for proper operation and soiling. The frequency of checking is to be adapted accordingly depending on the degree of soiling.





DANGER Risk of injury from rotating fan.

- → Only clean when not in motion. Interrupt the power supply, secure against renewed switch-on. Secure against start-up, prevent air flow.
- ⇒ Dirt deposits on the motor housing can cause overheating of the motor.
- ⇒ Soiling of the impeller can cause vibration that will shorten the service life of the fan.
- ⇒ Severe vibration can destroy the fan.
- ⇒ In such cases, switch off the fan immediately and clean it.
- ⇒ The preferred method of cleaning is dry cleaning, e.g. using compressed air.
- ⇒ Do not use aggressive cleaning agents!

NOTE

Damage to the device during cleaning Malfunction possible

- → Do not clean the device using a water jet or high-pressure cleaner.
- → Do not use any acid, alkali or solvent-basedcleaning agents.
- \rightarrow Do not use any pointed or sharp-edged objects for cleaning
- ⇒ Completely remove any cleaning agents used.
- ⇒ If severe corrosion is visible on load-bearing or rotating parts, switch off the device immediately and replace it.
- → Repair of load-bearing or rotating parts is not permitted!
- ⇒ Operate the fan for 2 hours at maximum speed so that any water that has ingressed can evaporate.
- ⇒ If cleaning does not eliminate vibrations, the fan may need to be rebalanced. To have it rebalanced, contact ebm-papst.
- ⇒ The fan is equipped with maintenance-free ball bearings. The lifetime lubrication of the ball bearings is designed for a service life of 40,000 hours.
- ⇒ If bearing replacement is necessary after that period, contact ebmpapst.
- ⇒ Adapt the maintenance intervals to the actual level of dust exposure.

5.2 Safety inspection

What to check	How to check	How often	What action?
Contact	Visual inspection	At least every	Repair or
protection		6 months	replacement of
cover for			device
intactness or			
damage			
Device for	Visual inspection		Replacement of
damage to		6 months	device
blades and			
housing			
Fastening the	Visual inspection	At least every	Fasten
cables		6 months	
Fastening the	Visual inspection	At least every	Fasten
protective earth		6 months	
terminal			
Insulation of	Visual inspection	At least every	Replace cables
cables for		6 months	
damage			

Condensation	Visual inspection	At least every	Open holes
drainage holes		6 months	
for clogging,			
where necessary			
Welds for crack	Visual inspection	At least every	Replace device
formation		6 months	
Abnormal	acoustic	At least every	Replace device
bearing noise		6 months	

5.3 Disposal

For ebm-papst, environmental protection and resource preservation are top priority corporate goals.

ebm-papst operates an environmental management system which is certified in accordance with ISO 14001 and rigorously implemented around the world on the basis of German standards.

Right from the development stage, ecological design, technical safety and health protection are fixed criteria.

The following section contains recommendations for ecological disposal of the product and its components.

5.3.1 Country-specific legal requirements



Country-specific legal requirements

Always observe the applicable country-specific legal regulations with regard to the disposal of products or waste occurring in the various phases of the life cycle. The corresponding disposal standards are also to be heeded.

5.3.2 Disassembly

Disassembly of the product must be performed or supervised by qualified personnel with the appropriate technical knowledge. The product is to be disassembled into suitable components for disposal employing standard procedures for motors.



WARNING

Heavy parts of the product may drop off. Some of the product components are heavy. These components could drop off during disassembly.

This can result in fatal or serious injury and material damage.

 \rightarrow Secure components before unfastening to stop them falling.

5.3.3 Component disposal

The products are mostly made of steel, copper, aluminum and plastic. Metallic materials are generally considered to be fully recyclable.

Separate the components for recycling into the following categories:

- Steel and iron
- Aluminum
- Non-ferrous metal, e.g. motor windings
- Plastics, particularly with brominated flame retardants, in accordance with marking
- Insulating materials
- Cables and wires
- Electronic scrap, e.g. circuit boards

Only ferrite magnets and not rare earth magnets are used in external rotor motors from ebm-papst Mulfingen GmbH & Co. KG.

⇒ Ferrite magnets can be disposed of in the same way as normal iron and steel.

Electrical insulating materials on the product, in cables and wires are made of similar materials and are therefore to be treated in the same manner.

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The materials concerned are as follows:

- Miscellaneous insulators used in the terminal box
- Power cables
- Cables for internal wiring
- Electrolytic capacitors

Dispose of electronic components employing the proper procedures for electronic scrap.



 \rightarrow Please contact ebm-papst for any other questions on disposal.



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