

INSTRUCTION MANUAL

DEXXX

INCLUDING: INSTALLATION AND MAINTENANCE

RELEASED: XX-XX-25
(REV: A)

ELECTRIC DRUM PUMP MOTOR



**READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.**

It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.

DESCRIPTION

- A drum pump motor is the driving unit that powers the pump tube to transfer liquids from standard drums, barrels, or containers. It converts electrical-energy into rotational motion, which drives the pump shaft and impeller (or rotor). The motor is designed to be lightweight, portable, and compatible with various pump tubes to handle different liquids such as water-based solutions, chemicals, oils, or viscous fluids.
- Motor and pumping unit are connected by means of a quick release coupling.
- Always use appropriate accessories to ensure safe and reliable operation of your Motor.

TECHNICAL DATA

Motor type	DE5AX	DE5BX	DE8AX	DE8BX
Voltage (V)	230	115	230	115
Hertz (Hz)	50	60	50	60
Amps (A)	2.3	4.6	3.7	7.4
Power (W)	520	520	850	850
Nominal Speed (rpm)	8500	8500	8500	8500
Enclosure	Double Insulated, IP24	Double Insulated, IP24	Double Insulated, IP24	Double Insulated, IP24
Duty	S1 Continuous	S1 Continuous	S1 Continuous	S1 Continuous
Protection	Thermal Overload Relay	Thermal Overload Relay	Thermal Overload Relay	Thermal Overload Relay
Plug	Type C (Europlug)	NEMA 5-15	Type C (Europlug)	NEMA 5-15
Options:	Low Voltage Release (LVR)	Low Voltage Release (LVR)	Low Voltage Release (LVR)	Low Voltage Release (LVR)
	Speed Reduction (SR)	Speed Reduction (SR)	Speed Reduction (SR)	Speed Reduction (SR)

MODEL DESCRIPTION CHART

DE X X X

Drive Options

- 1 - With LVR*
- 2 - With SR** And LVR
- 3 - Without LVR
- 4 - Without LVR With SR

Drive Detail

- A - 230v, 50hz
- B - 120v, 60hz

Drive Motors

- 5 - 520 W
- 8 - 850 W

Drum Pump, Electric Drive Operated

* Low Voltage Release ** Speed Reducer

**NOTICE: All possible options are shown in the chart, however, certain combinations may not be recommended.
Consult a representative or the factory if you have questions concerning availability.**

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OPERATING AND SAFETY PRECAUTIONS

READ, UNDERSTAND, AND FOLLOW THIS INFORMATION TO AVOID INJURY AND PROPERTY DAMAGE.



⚠ WARNING Pump and motors are industrial products. They must therefore be installed by qualified, experienced and authorized personnel.

- This device is not intended to be used by persons (including children) with limited physical, sensory or mental capabilities, or lack of experience and / or knowledge.
- For your personal security please wear protection glasses and safety gloves before servicing or installing equipment.

⚠ WARNING Secure Motor, connections and all contact points to avoid vibration.

- Use proper ventilation.
- Keep containers closed when not in use.
- Keep inflammables away from heat, open flames and sparks.

⚠ WARNING Turn off and remove power before disconnecting any cables and before servicing or installing equipment.

- Connect only to grounded power source.

⚠ CAUTION Motor and pump tube are packed separately.

⚠ CAUTION Be certain all operators of this equipment have been trained for safe working practices, understand it's limitations, and wear safety goggles / equipment when required.

- Prevent unnecessary damage to the motor.
- Disconnect power supply from motor when system sits idle for long period of time.
- Do not run the motor unattended.

⚠ CAUTION Before inserting the plug into the power mains please make sure that cable, plug, housing and socket are not damaged.

- Take care that the data regarding voltage and frequency mentioned on the motor are according to voltage and frequency of your mains power network.
- Take care that motor and pump tube are linked tight together before operating the pump.
- Make sure that the pump is fixed tight during operation and that the hose is fixed tight to the pump tube.
- Don't run the pump unattended.
- Don't run the pump dry.
- Make sure that the pump tube is chemically compatible to the transferred liquid.

⚠ WARNING = Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

⚠ CAUTION = Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTICE = Important installation, operation or maintenance information.

OPERATION AND SECURITY DEVICES OF THE MOTOR

- To start the motor operate the motor switch (A). In case of overload the motor switches off automatically. In this case please remove the cause for the overload. After cooling down of the motor please operate switch again to re-start motor.
- Low Voltage Release (LVR) motor model, is equipped with zero voltage circuit breaker. This device avoids automatic re-starting of the motor in case of return of current after a failure of the mains power network. After return of the power network motor will operate again after switching off and on again.
- Continuous duty motor model does not include zero voltage circuit breaker. Be aware not to plug in the motor while being switched on.
- The speed of the **motor types – SR** is continuously variable by turning the knob of the potentiometer from "0" rpm up to full speed (appr. 9000 rpm).

⚠ WARNING **ELECTRIC SHOCK HAZARD.** Motor may not immersed into liquid. This would result in serious injury or death.

CONNECTING THE MOTOR AND PUMP TUBE UNIT- USING THE PUMP

- To link motor and pump tube together please place motor in upright position onto the pump tube and lock motor and pump tube together by a quarter turn of the clamp ring (B). To unlock motor turn clamp ring (B) a quarter turn into opposite direction and pull motor straight upwards.
- Please take care that locking pin (C) is reaching into the appropriate gap (D) of the pump tube.
- Avoid excessive force when connecting or disconnecting motor and pump tube together.

Advice:

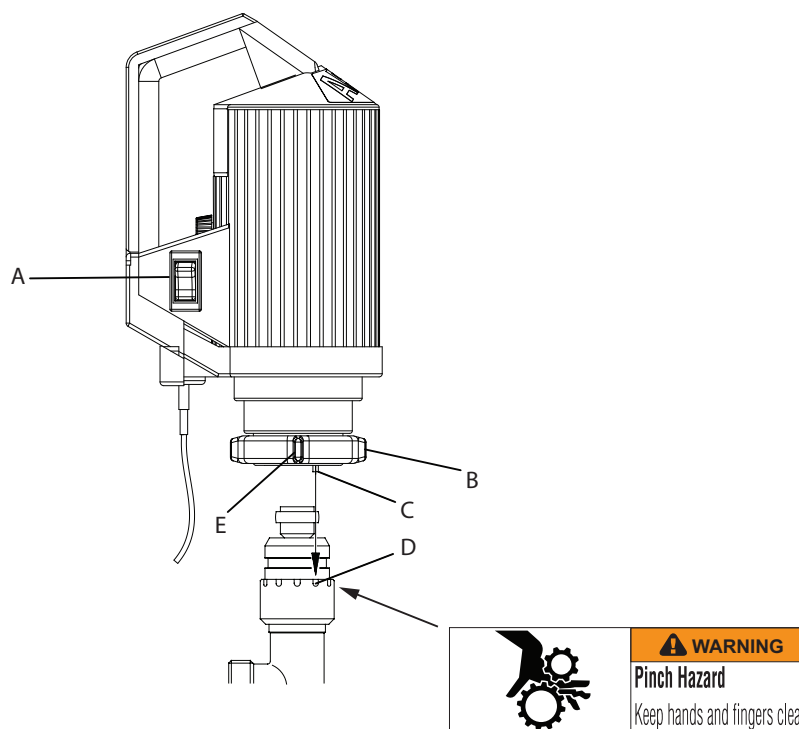
- The pump tube may not be immersed deeper into the liquid than up to the outlet connection. Avoid spreading liquid onto the floor when taking out the pump from the barrel. Please be aware that the liquid inside the pump tube and the hose will flow back into the receptacle after switching off the motor.

SERVICE AND STORAGE

- To store the motor we recommend to use wall bracket (FHP10007). The place where the motor is stored should be dry, clean and the motor should be protected against shock.
- Ensure the motor is placed securely to prevent it from tipping over. Avoid the motor from sliding away when it is placed against the wall, a fall could result in damage to the motor.
- All roller bearings are pre lubricated for lifetime. No need to add any further lubrication. The opening and outlet for the cooling air have to be clean. Avoid mechanical stress and shocks to the pump if not necessary.
- Please check regularly whether the cable of the motor is damaged. Motors with damaged cable may not be used and cable has to be replaced by original spare cable and two pole plug.

⚠ WARNING


- Damaged motors are dangerous and have to be repaired immediately. In case of damage of motor or cable disconnect plug immediately. Don't use motors with damaged cable.



WARNING: Pinch hazard. Keep hands and fingers away from clamp ring (B) and pump tube (D) before coupling or uncoupling the motor.

CERTIFICATION

Certification Standards and Markings

EC Machinery Directive	EC Low Voltage Directive	EC Electromagnetic Compatibility Directive	RoHS Directive	Applied harmonized standards:	Marking
2006/42/EC	2014/35/EU	2014/30/EU	2011/65/EU	EN 60335-1 : 2002 EN 60335-2-41 : 2001 DIN EN 61000-3-3 : 1996 EN ISO 12100 :2010	

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