

OPERATING INSTRUCTIONS Motors for Drum and Container Pumps



Type F 460 Ex UL Type F 460-1 Ex UL

General Data F 460 Ex and F 460 -1 Ex

	F 460 Ex	F 460-1 Ex
Class	1	1
Group	C and D	C and D
RPM	8500	9500
Insulation Class	F	F
Phase	1	1
Max. Amb.	+40°C	+40°C
Temperature code	T4	T4
Duty	Cont.	Cont.
Code Letter	A	А
Volts	120	120
Hz	60	60
A	4 A	6,8
Input Power	0,63 HP / 0,46 kW	0,95 HP / 0,7 kW
Output Power	0,46 HP / 0,34 kW	0,72 HP / 0,53 kW

Safety Instructions

- Comply with the operating instructions of the pump.
- Never store the motor in areas in which corrosive vapours exist.
- Before inserting the electrical plug into the socket, ensure that the Start/Stop switch is set to "0" (Stop).
- Regularly check the motors according to the relevant national safety regulations and/or rules for prevention of accidents.
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- Power supply must include a fault current breaker. Dirt accumulation, high humidity or material damage on the motor housing may lead to dangerous current surges.
- The motors F 460 Ex and F 460-1 Ex are equipped with an integral overload cut-out switch.

The motor is switched off automatically in case of overloading. After having cooled down, the motor can be switched on again by actuating the Start/Stop switch.

• Make sure that the motor is secured against unintentional re-starting. The pump is to be arranged in a way that no friction and impinge sparks may form.

Replacement of power supply cable

- When replacing the power supply cable, only UL-listed cables and plugs may be used. Cable type at least: SO/SOW 3X16 AWG / 600V.
- If the power supply cable has been properly mounted, the insulation resistance must be tested and must be higher than 2 MΩ.
- The resistance of ground wire must not exceed 100 mΩ.

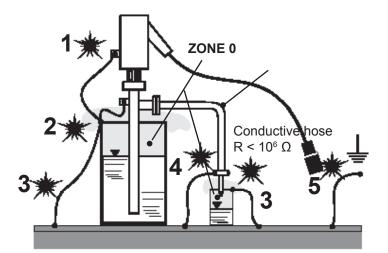
Testing / Repair



 Repairs to explosion-proof motors should only be carried out by the manufacturer or by an authorized repair shop.

Before starting operation in hazardous locations

- If the electrical socket or terminal box is positively located outside the hazardous area, connection to explosion-proof equipment must not be undertaken.
- 1 Connect the earth continuity conductor (earth wire) to the designated screw on the explosion-proof motor.
- 2 Connect the earth continuity conductor (earth wire) to the designated screw on the pump.
- 3 The containers should be grounded separately, if they are not already grounded by the mode of the installation.
- 4 Only use electrically conductive hoses. This will provide a conductive path for the pump, hose and fittings.
- 5 Only use an explosion-proof plug device or an explosion- proof terminal box for connecting the pump to the mains.



For use in hazardous locations

- Only use explosion-proof electric motors which are approved for ZONE 1.
- The explosion-proof motor has to be outside the container.
- For transferring flammable liquids only use pumps which are approved for such application.
- Only clean the power supply cable outside of the hazardous area.

Starting Operation

- Put the motor onto the pump.
- Always check the power supply cable for damage before starting operation.
- Keep solvents away from the power supply cable.
- Before inserting the electrical plug into the socket ensure that the Start/Stop switch is set to "0" (Stop).
- Insert the plug.
- Switch on the motor.



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