

## OPERATING AND MAINTENANCE INSTRUCTIONS FORCED VENTILATION UNITS"

V@ units are generally supplied ready for installation. The bearings are designed to be maintenance free throughout the service life of 40000 h.

**Enclosure IP66** according to EN 60529 (appendix)

**Certified** according to **UL** (appendix)

**The relevant safety regulation** regarding protection from contact with moving parts is complied with DIN EN ISO 13857.

**Prior to installation**, it must be ensured that the impeller moves smoothly and that the blades of the impeller are not deformed or bent. Imbalances, which have a negative effect on service life, may be caused as a result of this.

Safety as per DIN EN ISO 13857 at the air outlet side must be ensured by the operator at the place of use.

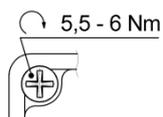
**During installation** of the unit, care must be taken that this is carried out correctly, so that the unit is securely attached to the motor housing. The present sealing plug is intended for transportation only. It must be replaced with a cable gland suitable for intended operation. The cable gland must have at least protection class IP 66 and withstand the ambient conditions prevailing in the area of operation.

**Electrical connection** is carried out according to rating class (single-phase or three-phase) in accordance to the enclosed wiring diagram (appendix). The wiring diagram is additionally stamped or adhered in the lid of the terminal box.

The cables to be connected must be provided with insulated for terminals or insulated eyelets.

If required, the unit may be protected by an external safety facility (e.g. motor circuit breaker). For the maximum permissible current, refer to the table "Range of operating voltage - type IL" (appendix).

This table also specifies the maximum possible ambient temperatures.



After electrical connection is complete, the terminal box must be attached with screws tightened to a torque of 5.5-6 Nm

**Following installation** a test run must be carried out. In this case, it must be ensured that the air flow is intaken via the guard grill and blown over the motor which is to be cooled (see arrow denoting direction of rotation on the inside of guard grill).

Attention: If the direction of rotation is wrong, the cooling capacity is considerably decreased.

**During operation**, it must be ensured, especially in dusty atmosphere, that excessive deposits of dust do not build up on the impeller blades, as this also leads to imbalances which reduce the service life. This also applies to atmosphere containing particles such as e.g. in the wood processing industry or in coal mills. A canopy is recommended for these and similar applications.

A canopy can be easily retrofitted by loosening the four fixing bolts (Instar-bolts), inserting the sheet metal strips and tightening the bolts again.

**For maintenance or repair work** it is essential that the connection is not connected, and is secured against switching on again.