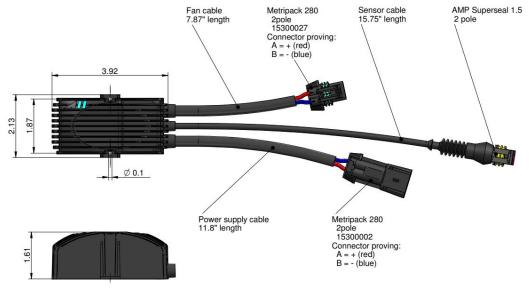
## Temperature Control 12V/24V DC



The asa fan control system requires a control unit (ILLZTC12-2K or ILLZTC24-2K) and a temperature sensor (ILLZTT5069K) or temperature switch (IP69k switch types / ILLZTH...69K). In combination with the temperature sensor the fan speed varies according to the actual oil temperature at the sensor. This reduces the noise level of the cooler and increases the durability of the fan motor, because it is not running on the maximum speed all the time. The startup temperature of this system is 44°C and the maximum rotation of the fan is applied when the oil temperature reaches 55°C. The electro-magnetic compatibility (EMC) is tested according to CE (89/336/EC) and E (95/54/EC). Moreover the control unit (ILLZTC12-2K or ILLZTC24-2K) can also be connected with our temperature switches (IP69K switch type). This is a simple on/off mode, according to the switch temperature. The control unit benefit is the soft start curve, extending the life time of the fan motor.



- energy savingreduced noise level
- EMC compatibility
- IP 69K protection to sensor/switch

### **Technical Data**

| order number   | description                | max. power<br>fan motor | max. current fan | protection | weight | supply          |
|----------------|----------------------------|-------------------------|------------------|------------|--------|-----------------|
|                |                            | [W]                     | [A]              |            | [lbs]  | DC              |
| ILLZTC12-2KU00 | temperature control 12V DC | 310                     | 23 (12V DC)      | IP 67      | 0,55   | 12V (9V - 15V)  |
| ILLZTC24-2KU00 | temperature control 24V DC | 340                     | 12 (24V DC)      | IP 67      | 0,55   | 24V (18V – 32V) |

#### Characteristics

| material:             | polyamide             |
|-----------------------|-----------------------|
| mounting instructions | any mounting position |

#### Measurement input

| temperature sensor | ILLZTT5069KU00 (control range 111-131°F)     |
|--------------------|--|
| temperature switch | ILLZTH5069KU00 (set point 122°F, soft start) |
|                    | ILLZTH6069KU00 (set point 140°F, soft start) |
|                    | ILLZTH9069KU00 (set point 194°F, soft start) |

#### **Ambient Conditions**

| ambient temperature range | -4°F to +185°F  |
|---------------------------|-----------------|
| storage temperature range | -76°F to +230°F |

#### Combinations

| 12V and 24V DC coolers | LL 03L,LL 04, LL 06, LL08, LL14 / TT 05 - 40 rail |
|------------------------|---|
|                        | (except TT21 h.p, TT30 h.p.), ASA 0177 - 0367     |



The maximum start current is approximately 10% higher than the nominal current of the motor. Observe the maximum allowable supply of the fan motor. The allowed voltage range of the fan might differ from the allowed voltage range of the temperature control. In case of inverse polarity of the supply, the control unit is deactivated. After changing the polarity, the control is ready for use again. If the supply voltage exceeds 16.5V (ILLZTC12-2KU00) and 32V (ILLZTC24-2KU00) respectively, the control is switched off to protect the fan. After supply voltage is reducing below 12V or 24V, respectively, the control is activated again, automatically. The closed current is 5mA (ILLZTC12-2KU00) and 4mA (ILLZTC24-2KU00), respectively. The recommended fuse is fast acting 25A (ILLZTC12-2KU00) and 16A (ILLZTC24-2KU00), respectively. Due to the high currents (21A at the ILLZTC12-2KU00), the dimension of the electrical wires must be appropriate and in case of a luster terminal it has to be tightened properly.

This data sheet and the corresponding scale drawings are to be used as a general guideline and technical overview of our products. Please contact us if more exact information is needed. As we are constantly improving our products, their characteristics, dimensions and weights may also change, although we do our best to incorporate these changes continually, as a assumes no liability for any information therein, any errors, omissions, misprints, nor any direct or indirect damages, losses or costs resulting therefrom. Any cooling performances and general technical values indicated in this catalogue are measured at a test bench according to as a testing procedures or calculated, best on the sale of the performance may also vary by +1.5%. All sound values are determined in accordance with ISD 9fa4-2, DIT EN ISO 11203 accuracy class 3 or Machinery Directive 2006/42/EG and are A-rated. At some of the performance data, possible differences to competition data are possible. The reason to that are no existing standardized testing procedures on individual subjects, e.g. or cooling performance measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and measurements. Therefore, we recommend all products to be checked under the system operating conditions. This is also true of vibrations and measurements. Therefore, we recommend all products to the checked under the system operating conditions. This is also true of vibrations and measurements. Therefore, we recommend all products to the checked under the system operating conditions. This is also true of vibrations and measurements are according to DIN ISO 2768-vL. General tolerances for casted parts according EN ISO 8062-3 (DCTG 10). Tolerances for rubber parts are according to ISO 3302-1 (class M4-FvC). The tolerances of welding seams are defined by quality group D according to EN ISO 10042, if it is not ISO 2768-vL death of the vibration and calculation values are checked to the best of our ab it is herewith specified that the datasheet does not substitute the corresponding scale drawings, assembly and installation guidelines, nor the operating instructions. DD-ILLZTC24-2KU00-us-rev3

# Temperature Control 12V/24V DC



#### Installation scheme

