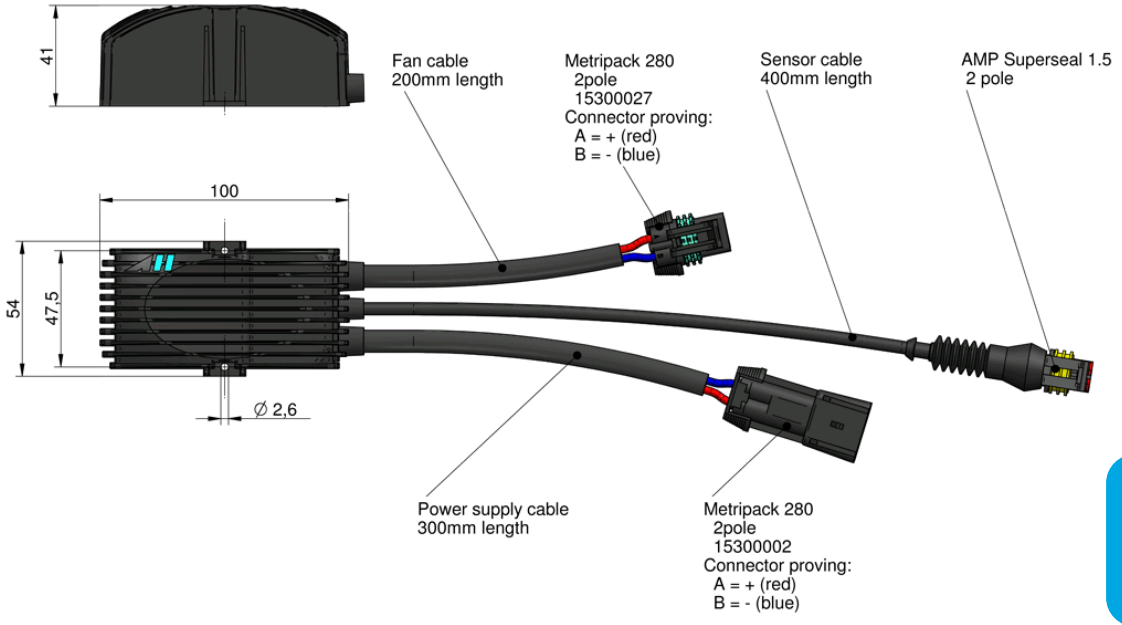
Temperature Control
12V/24V DC

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 saving
- reduced noise level
- EMC compatibility
- IP 69K protection to sensor/switch

Technical Data

order number	description	max. power fan motor	max. current fan	protection	weight	supply
		[W]	[A]		[kg]	DC
ILLZTC12-2K	temperature control 12V DC	310	23 (12V DC)	IP 67	0,25	12V (9V – 15V)
ILLZTC24-2K	temperature control 24V DC	340	12 (24V DC)	IP 67	0,25	24V (18V – 32V)

Characteristics

material:	polyamide
mounting instructions	any mounting position

Measurement input

temperature sensor	ILLZTT5069K (control range 44-55°C)
temperature switch	ILLZTH5069K (set point 50°C, soft start)
	ILLZTH6069K (set point 60°C, soft start)
	ILLZTH9069K (set point 90°C, soft start)

Ambient Conditions

ambient temperature range	-20°C to +85°C
storage temperature range	-60°C to +110°C

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

Please note:
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 (ILLZTC12-2K) and 32V (ILLZTC24-2K) 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 (ILLZTC12-2K) and 4mA (ILLZTC24-2K), respectively. The recommended fuse is fast acting 25A (ILLZTC12-2K) and 16A (ILLZTC24-2K), respectively. Due to the high currents (21A at the ILLZTC12-2K), the dimension of the electrical wires must be appropriate and in case of a luster terminal it has to be tightened properly.

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Installation scheme

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