

KFA6-STR-1.24.4

DIN-RAIL POWER SUPPLY

Application

Universal input DIN Rail power supply for medium sized applications. The output voltage of the supply is fully regulated and remains stable to satisfy the required load. This supply is fully compatible with our K-System power rail, DIN rail powering system.

Specification

Power Supply

CONNECTION TYPE: Terminals 2 (L1), 3 (N).
RATED OPERATIONAL VOLTAGE U_e : 92 ... 265 V AC, 47 ... 63 Hz.
RATED OPERATIONAL CURRENT: 1.2 A at 230 V AC.
FAILURE OVERRIDE TIME: > 75 ms / 230 V AC; 5 ms / 115 V AC.

Output

CONNECTION TYPE: Terminals 4 (+), 6 (-).
VOLTAGE: 23.28 ... 24.72 V DC.
CURRENT: 0 ... 4 A, Power Rail limiting by means of fuse 4 AT, Typ. 4.6 A.
RIPPLE: < 100 mV_{SS}.
EFFICIENCY: typ. 87 %.
OVERVOLTAGE PROTECTED: < 28 V DC.

Galvanic Isolation

POWER SUPPLY / OUTPUT: For AC 253 V design isolation voltage.

Ambient Conditions

AMBIENT TEMPERATURE: -20 ... 60 °C (253 ... 333 K).

Mechanical Specifications

WEIGHT: Approximate 800 g.
CONSTRUCTION TYPE: Housing 140 x 88 x 103.5 mm.
MOUNTING: Clamping element for snap-mounting on top hat rail as per DIN EN 50022-35.
CONNECTION: Connection possibilities self-opening instrument terminals, max. conductor csa 2 x 2.5 mm².

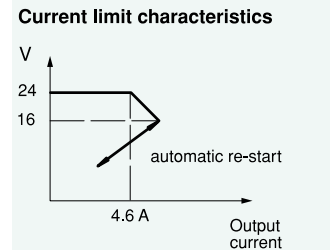
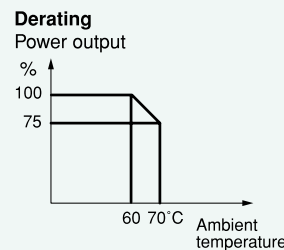
Electromagnetic compatibility

SAFETY: Accord. to VDE 0805 / EN 60 950.
RADIO-INTERFERENCE SUPPRESSION: Accord. to VDE 0875 part 11, EN 55 011 class B.
ELECTROSTATIC DISCHARGE: Accord. to IEC 801-2.
CONTACT DISCHARGING: 8 kV.
AIR DISCHARGING: 15 kV.
ELECTROMAGNETIC FIELDS: Accord. to IEC 801-3, 10 V/m.
Burst IEC - Input: 4 kV; output/capacitively coupled: 2 kV.
Surge IEC 801-5 - Asymmetrical: L, N → PE 4 kV; symmetrical: L → N 2 kV.

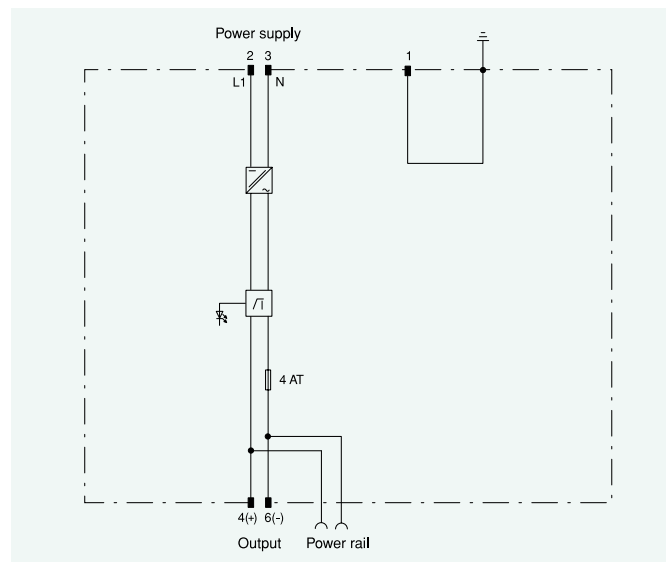
- UL approval.
- 230 V AC / 115 V AC mains nominal voltage.
- 24 V DC output voltage.
- Output current max. 4 A.
- Output voltage on: LED green.
- Error message: LED flashing red.
- Removable terminals and Power Rail.



LED GREEN INDICATES OUTPUT VOLTAGE, FLASHING RED INDICATES A FAULT EXISTS FUSE CARRIER



Schematic



Dimensional Drawing

