

# AV AVERES



## TECHNICAL MANUAL

Single-phase solid state  
relay RTP 2A for relay  
socket RM slim 23/1  
EKF AVERES

## 1 DESCRIPTION

Single-phase solid state relay RTP 2A for relay socket RM slim 23/1 EKF AVERES ensures non-contact switching of power circuits within the most common industrial load currents of resistive or inductive type. Non-contact control prevents sparks and arcing, and improves relay response speed and rate.

The solid state relay RTP is controlled with a zero crossing voltage trip.

## 2 SPECIFICATIONS

Characteristics	Values
Load current, A	2
Minimum load current, mA	20
Load current type	alternating (AC)
Max. pulse current 10 ms, A	20
Leakage current, mA	max. 3
Control signal, V	19,2...28,8
Rated load voltage, V	75...264
Control circuit resistance, kOhm	3,3
Insulation resistance, MOhm	1000
Response time, ms	10
Rated frequency, Hz	50
Operating temperature, °C	-30...+80
Storage temperature °C	-30...100
Mounting type	PCB / relay socket RM slim 23/1
Insulation dielectric strength (control circuit / output circuit)	2500 V for 1 minute
Weight, g	20

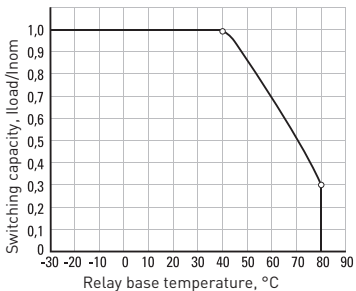


Fig. 1 - Relay current vs. ambient temperature

The load current in the relay is switched at zero crossing (Figure 2).

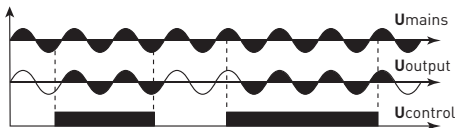


Fig. 2 - Operating procedure of the relay with zero-crossing voltage switching

### 3 OVERALL AND INSTALLATION DIMENSIONS

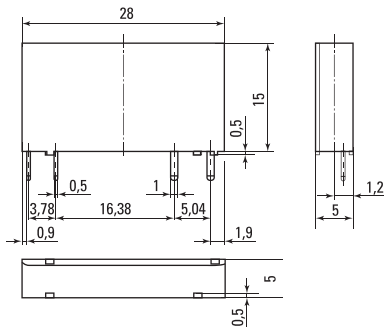


Fig. 3 - Overall dimensions of RTP relay EKF AVERES

### 4 INSTALLATION AND OPERATION

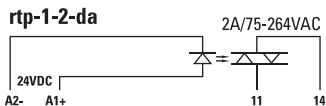


Fig. 4 - Relay wiring diagram

Use a fast-blow fuse to protect the relay from short circuits.

**WARNING!** Relay housing is heated! Do not touch the housing while the relay is operating to prevent burns.

The relay shall be repaired and serviced by qualified electrical personnel.

**WARNING!** Make sure the power is off before installation, connection and setting!

Do not operate the solid state relay RTP with visual mechanical damage.

## **5 DELIVERY SCOPE**

Solid-stated relays are supplied in a group package. For all available documentation, scan the QR-code on the insert or on the inside of the package.

## **6 TRANSPORTATION AND STORAGE**

The solid state relays can be transported by any means of enclosed transport that protects the packaged goods from mechanical impact and weather exposure.

The solid state relays shall be stored in the original package at the ambient temperature from -30°C to +100°C and relative humidity of max. 90%.

## **7 DISPOSAL**

Life-expired and failed products shall be disposed of in compliance with the national and local laws and regulations in force. To dispose of the product, send it to an authorized company for recycling in compliance with the national and local laws and regulations in force.

## **8 MANUFACTURER'S WARRANTY**

The manufacturer guarantees the products comply with the declared characteristics, provided that the consumer follows the operation, transportation and storage conditions.

**Warranty period:** 10 years from the date of sale specified in the sales receipt.

**Shelf life:** 10 years from the date of manufacture specified on the product package or housing.

**Service life:** 10 years.

**Manufacturer:** For information, refer to the product package.

**Importer and EKF trademark service representative:**

EKF ELECTRICAL SOLUTION – FZCO, Dubai Silicon Oasis, DDP,  
Building A2, Dubai, United Arab Emirates.

**Importer and EKF trademark service representative on the territory of the Russian Federation:** OOO «Electroresheniya», 2b Otradnaya Str., bld. 9, 5th floor, Moscow 127273, Russia. Tel.: +7 (495) 788-88-15.

**Importer and EKF trademark service representative on the territory of the Republic of Kazakhstan:** TOO «Energoresheniya Kazakhstan», Kazakhstan, Almaty, Bostandyk district, Turgut Ozal st., 247, apt 4.

## **9 CERTIFICATE OF ACCEPTANCE**

The solid state relay RTP EKF AVERES has been manufactured in compliance with laws and regulations in force and has been approved for operation.

Date of manufacture: for information, refer to the product package.

Quality control stamp



**EAC**



v3

[ekfgroup.com](http://ekfgroup.com)

