

# TECHNICAL MANUAL

## Switch disconnectors

### VN-63N & VN-125N

### PROXIMA EKF

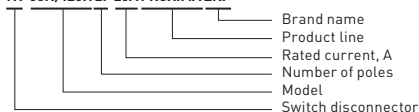
## 1 DESCRIPTION

Modular switch disconnectors VN-63N and VN-125N PROXIMA EKF are electromechanical switching devices used for close/open operations in electrical circuits.

Modular switch disconnectors (MSDs) are designed for switching non-inductive and inductive loads including motors protected by other switching devices. MSDs correspond to IEC 60947-3.

### TYPE CODE

#### VN-63N/125N 2P 25A PROXIMA EKF



## 2 TECHNICAL DATA

Table 1

Characteristics	Values			
Rated voltage Un, V AC	1P, 2P: 220 / 230 / 240 3P, 4P: 380 / 400 / 415			
Frequency, Hz	50 / 60			
Rated current In, A (VN-63N / VN-125N)	16-63 / 80-125			
Mechanical endurance, O-C cycles	20 000			
Electrical endurance, O-C cycles	10 000			
Rated short-time (1 sec.) withstand current Icw, kA (VN-63N / VN-125N)	1 / 2			
Rated impulse withstand voltage Uimp, kV	6			
Rated making capacity Icm, kA (VN-63N / VN-125N)	6 / 10			
Degree of protection	IP20			
Poles	1	2	3	4
Max. MSD weight, kg (depending on the number of poles)	0,0725	0,145	0,2175	0,29
Minimal cross-section of connected wires, mm <sup>2</sup>	1			
Maximum cross-section of connected wires, mm <sup>2</sup> (VN-63N / VN-125N)	25 / 50			
Operating temperature, °C	-25 to 55			

### 3 OVERALL DIMENSTIONS

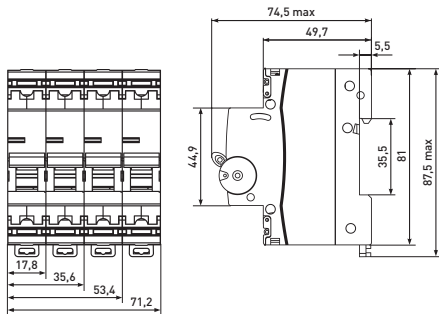


Fig. 1

### 4 INSTALLATION AND CONNECTION

Modular switch disconnectors must be installed and connected by qualified electrical personnel.

MSDs shall be mounted onto 35 mm DIN rail.

MCD power supply can be connected both from terminals 1, 3, 5, 7 and from terminals 2, 4, 6, 8.

Copper and aluminum wire connection options are supported. Do not connect copper and aluminum wires to one terminal concurrently. Tightening torque: max. 3 N•m for copper wires; max. 2,2 N•m for aluminum-alloy series 8000 wires.

Position in space: vertical or horizontal on a vertical plane. If vertically installed, the up position of the operating handle shall correspond to the device ON status, while the handle down position shall correspond to the device OFF status in compliance with IEC 60447. If horizontally installed, the handle right position shall correspond to the device ON status, while the handle left position shall correspond to the device OFF status.

## **5 OPERATING CONDITIONS**

Altitude above sea level: max. 2000 m.

Operating temperature: from -25°C to +55°C.

## **6 DELIVERY SCOPE**

Switch disconnectors VA 47-63N and VA 47-125N are supplied in a group package. For all available documentation, scan the QR-code on the insert or on the inside of the package.

## **7 SAFETY REQUIREMENTS**

Do not operate switch disconnectors with visible mechanical damage.

MSDs conform to IEC 61140 Class 0 for protection against electrical shock and shall be installed in distribution enclosures with Class 1 protection or higher.

## **8 MAINTENANCE**

For maintenance, follow national safety rules for operation of electrical installations.

Under normal operating conditions, visually inspect switch disconnectors, check ON/OFF operations, and tighten screw terminals every 6 months.

Do not operate modular switch disconnectors with visibly damaged housing.

## **9 STORAGE AND TRANSPORTATION**

Modular switch disconnectors can be transported by any means of enclosed transport that ensures protection of packed products from mechanical impacts and weather exposure.

Modular switch disconnectors shall be stored indoors in their original packaging at the ambient temperature from -40°C to +55°C and relative humidity of max. 80% at +25°C.

## **10 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 effective national and local laws and regulations.

## **11 MANUFACTURER'S WARRANTY**

Warranty period: 7 years from the date of sale specified in the sales receipt.

Shelf life: 7 years from the date of manufacture specified on the product packaging or housing.

Service life: 20 years.

**Manufacturer:** OOO Electroresheniya, Otradnaya st., 2b/9, 127273, Moscow, Russia, tel. +7 (495) 788-88-15.

**MEA regional headquarters:** EKF ELECTRICAL SOLUTION FZCO, Office 249, Techno Hub-2, Dubai Silicon Oasis, P.O. box 341079, Dubai, United Arab Emirates, tel. +971-4-547-06-18.

**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.

## **12 CERTIFICATE OF ACCEPTANCE**

Modular switch disconnectors VN-63N and VN-125N PROXIMA EKF have been approved for operation.

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

Quality control stamp

**EAC**

v3



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