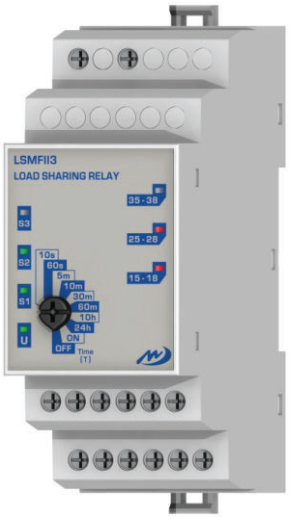
LS LSMFII3 Load Sharing Relay

- CONTROLS THE OPERATION OF UP TO 3 LOADS BY ALTERNATING EACH ONE
- SUITABLE FOR HYDROPHORE SEQUENCINGY SYSTEM
- INDEPENDENT LEDs FOR INPUT AND OUTPUT
- REQUIRES 3 EXTERNAL VOLT FREE CONTACTS (NO)
- TIME RANGE 10s - 24h
- OUTPUT 3 RELAY 1 POLE CONTACT (NO)
- SIZE 2 MODULES - 35mm
- DIN RAIL MOUNTING EN50.022
- SELF-EXTINGUISHED MATERIAL UL94 V0



RoHS 2 COMPLIANT

■ **TYPICAL APPLICATION:** PUMPS WORK IN SEQUENCE AND WITH EQUAL TIME PERIODS, SHARING TIME OF WORKING LOADS.

EU Directives - CE Marking:

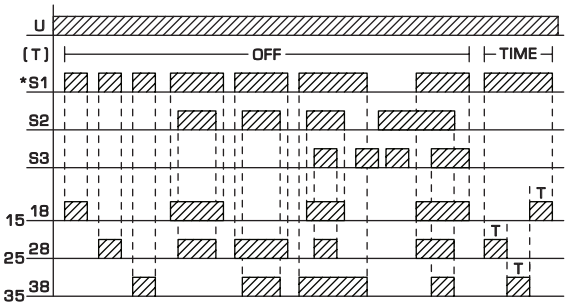
> 2014/30/UE - EMC
> 2014/35/UE - LVD

CE

TECHNICAL DATA

	UNIT	LSMFII3
INPUT		
Supply voltage AC ±10%	V~	230
Nominal Frequency	Hz	50 - 60 (range: 47 - 63)
Power consumption (max. AC)	VA	3.2
Supply indication (**U**)	-	Green LED
Switch indication (**S1/S2/S3**)		Green LED
OUTPUT RELAY (x3)		
Rating	-	5A - 250V~/24V⎓
Max switching power	VA	2000
Max switching voltage	V~	400
Min switching load	-	10mA 12V⎓
Contact life	Mech. Electr.	30 x 10^3 ops 100 x 10^3 ops
Changeover contacts	-	AgNi0.15
Output Indication (**15-18/25-28/35-38**)	-	Red LED
GENERAL		
Time Range rotary switch (**T**)	-	10s - 24h
Time Deviation	%	2
Repeat Accuracy	%	0.2 Set value
Rise time	ms	50
Working temperature	°C	-20 / +50
Storage temperature	°C	-30 / +70
Electrical Insulation (supply/switch)	kV	3
Electrical Insulation (supply/relay)	kV	4
Electrical Insulation (relay/switch)	kV	3
Overvoltage Category	-	III
Protection degree	IP	20
Pollution degree	-	2
Altitude up to	m	2000
Weight	g	210
Dimensions	mm	98 x 35.7 x 64

FUNCTIONS

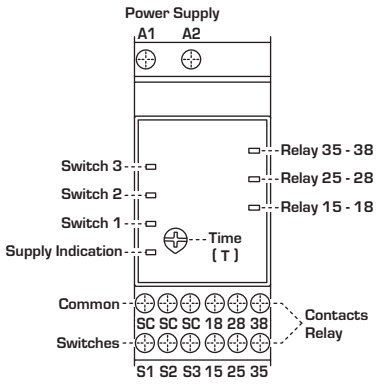


Use the selection ON only to test the functionality of all Relay contacts.

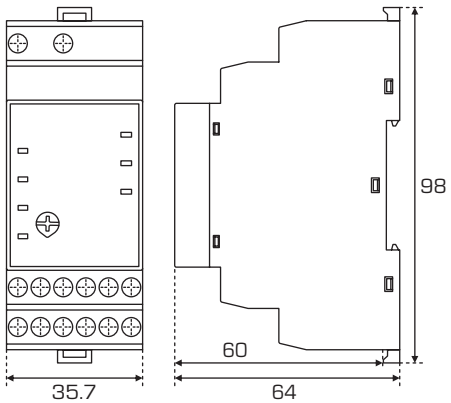
*During the delay time function the S1 LED blinking.

NOTE:
Whenever you change the Time (T), you must restart the device.

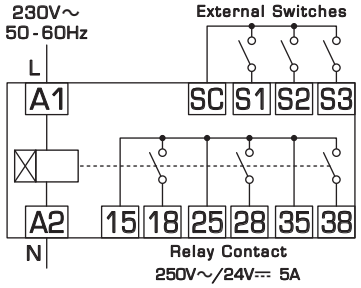
DESCRIPTION



DIMENSIONS (mm)



WIRING DIAGRAM



Microidea reserves the right to bring modifications to this documentation and the products described without some obligation of reporting.

USER INSTRUCTIONS

⚠ ATTENTION ⚠

> READ THE TECHNICAL MANUAL FOR THE CORRECT ELECTRICAL INSTALLATION AND PROGRAMMING.
> THIS EQUIPMENT MUST BE INSTALLED BY TRAINED PERSONNEL, TO AVOID DAMAGES OR SAFETY HAZARDS.
> FOR THE CONNECTION USE 90°C WIRE ONLY.
> DISCONNECT THE LINE AND THE SUPPLY VOLTAGE WHEN OPERATING ON THE TERMINALS CONNECTION.
> BEFORE CARRYING OUT ANY SERVICING ON THE UNIT AND ITS WIRING, DISCONNECT THE MAIN POWER SUPPLY AND WAIT THAT THE GREEN LED GOES OUT.

!!! DO NOT TOUCH THE DEVICE OR ITS WIRING WHILE PARTS ARE STILL CONNECTED !!!

Input power supply

Before connecting the device to the main power supply, check that main voltage is within the acceptable range for the device.
V~ = Alternated Current (AC) / V⎓ = Direct Current (DC)

Wiring

Wires connected to the terminals of the device must be of the appropriate size and type, suitable to the voltage and current.
Nominal values specified in the device data sheet.
1.5mm² (16 AWG) Stranded / 2.5mm² (14 AWG) Solid
Wire connected to plug-in terminals shall be stripped for a maximum length of 6 mm.
Terminal screws must be tightened 0.5Nm, by means of appropriate size insulated screw-driver.

Mounting / Installation

According to detailed specifications, the device is equipped either with mounting clip for DIN EN50.022 rail 35x15mm or wall mounting bracket. For enhanced stability, fasten the rail to the panel also in the point where the device is to be mounted.

Electric Protection

The line to the unit must be equipped with an external Circuit Breaker for the device protection having breaking capacity higher than 10kA, rated current at least equal to the rated current of the device (see data) and complying with any local regulation.
!!! The Circuit Breaker must be clearly indicated, easily accessible and marked as the disconnecting device from mains supply !!!
Also you need to connect an external fuse before the device on the pole L /+ value: F200mA H 250V~

Warning

Non-compliance with the above instructions might result in damages to the device and potentially hazardous events.
It is mandatory for the reseller and the final user to be aware of these instructions and to comply with them, even in the case the device is traded without its original packaging.
The equipment withstand an impact applied to a vertical surface of energy 2 J (IK07)

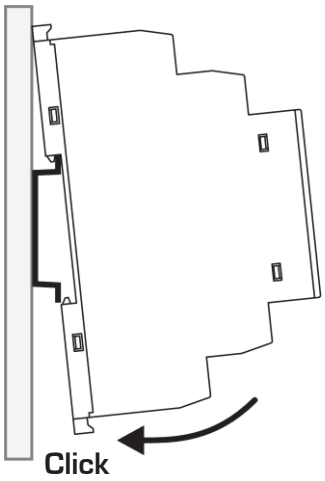
Warranty

The device is warranted for the duration of one year from delivery date against defective manufacturing or faulty components.
Failures due to mishandling, improper use, abnormal external events or non-compliance with the above instructions are not covered by this warranty.
This warranty is void if the casing of the device is opened without prior authorization from the manufacturer.
Any misuse, as well as voiding the warranty, it could not ensure the safety of the product anymore.

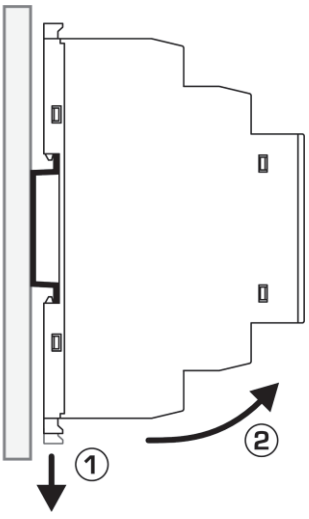
Cleaning of the unit:

If necessary, clean the device with a soft cloth dampened with water.
This operation must be done with the instrument switched off and disconnected from any power source.

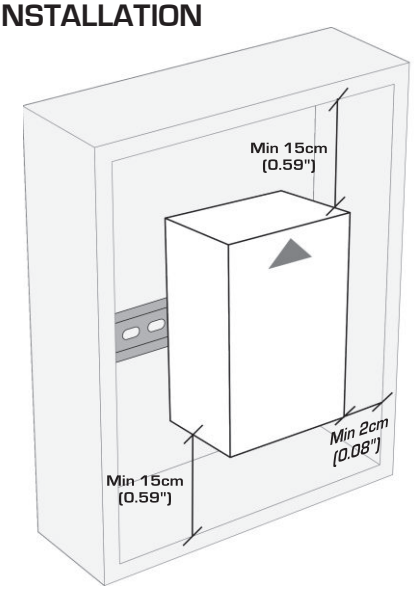
MOUNTING



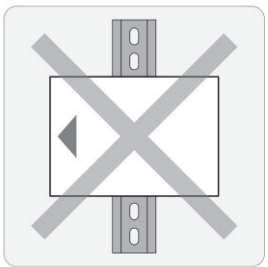
UNMOUNTING



INSTALLATION



NO



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