

ESU-D2.C2354/UC24-48V

DC Isolation monitoring | 1 NO + 2 CO



Power supply

Nominal voltage	24 ... 48 V UC
Operating voltage range	16.8 ... 60 V
Power consumption AC / DC	2 VA / 2 W
Frequency range	0, 40 ... 60 Hz

Measuring circuit

Measured parameters	Ω
Monitoring functions	under, ground fault
Rated DC voltage U+ / U-	60 V
Overvoltage setting range	> 60 VDC
Circuit / ground resistance measurement range	1 ... 50 k Ω
Pre alarm setting range	4 ... 30 k Ω
Main alarm	≤ 4 k Ω
Alarm delay	0.1 ... 10 s

Main circuit

Number of contacts	1 NO + 2 CO
Available contact materials	AgNi
Rated voltage	250 V AC
Rated current	5 A
Minimum load	10 mA, 12 V
Rated load DC	fig. 3
Rated load AC-1	1,250 VA
Mechanical endurance (cycles)	5 000 000
Electrical endurance at rated load AC-1 (cycles)	1 000 000

Insulation

Pollution degree	2
Overvoltage category	III

General data

Storage temperature (no ice)	-40 ... 85 °C
Operation temperature	-40 ... 70 °C
Conductor cross section control / main circuit	2.5 mm ² , 2 x 1.5 mm ²
Nominal screw torque control / main circuit	0.5
Dimensions	fig. 4
Weight	250 g
Ingress Protection	IP 20
Housing material	PA

Product references

Description	Type	24-48
DC Isolation monitoring, railway version	ESU-D2.C2354/UC...V	✓
Other voltages on request. Please contact support@comatreleco.com.		
«...» List control circuit voltage to complete product references.		

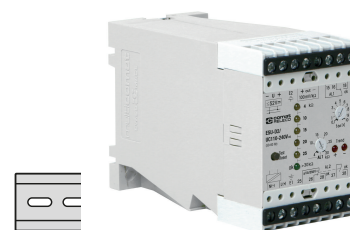


fig. 1. Wiring diagram

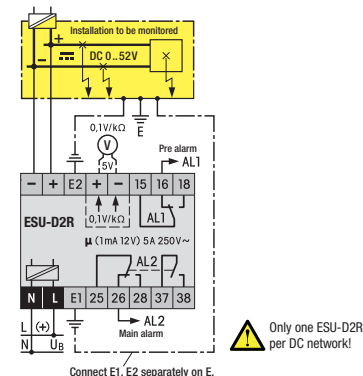


fig. 2. DC load limit curve

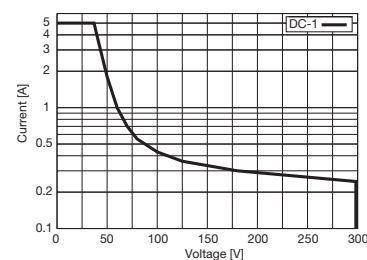
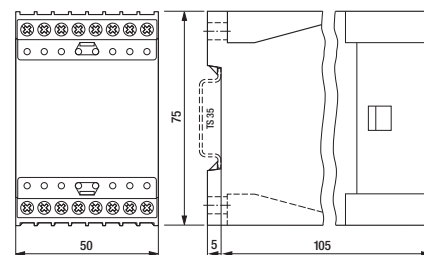


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards	EN 61000-3; EN 61000-6-2; IEC/EN 60947
Railway	EN 45545-2; EN 50155
Approvals	CE UK CA