Relay module, non overlapping contacts arrangement

Identification	Type	RPE-6331
	Part-No.	716331

Use/Area of application	
Description	Relay module hermetically sealed with non overlapping contacts arrangement, according to NFF 62002-2 FPn°9, CECC16101-019 and MIL-PRF-83536. Activated via DC 24 V. 4 change-over contacts 250 V / 4 A are available for switching small to medium loads.

Input	
Nominal voltage U_N	DC 24 V
Voltage range	DC 16.8 – 30.0 V
Rated current (at U_N)	82 mA
Status Indication	LED yellow
Protection device	Overload diode / reverse diode

Load Side	
Switching voltage	AC/DC 5–250 V
Switching current	AC/DC 1 mA ... 4 A

General	
Termination	Spring terminal 0.08–2.5 mm^2
Clearance/creep. dist. (contol/load side)	≥1.5 mm
Installation postition	Optional
Rated insulation voltage	250 V Pollution degree PD2
Contact type	4 change-over non overlapping contacts
Mechanical service life	approx.. 2 × 106 operations
Housing material	Metal
Operation temperature range	-40 – 85 °C
Storage temperature range	-40 – 85 °C
Dimensions (w × h × d)	50.0×79.0×52.0 mm
Weight (kg/piece)	0.160 (kg/piece)

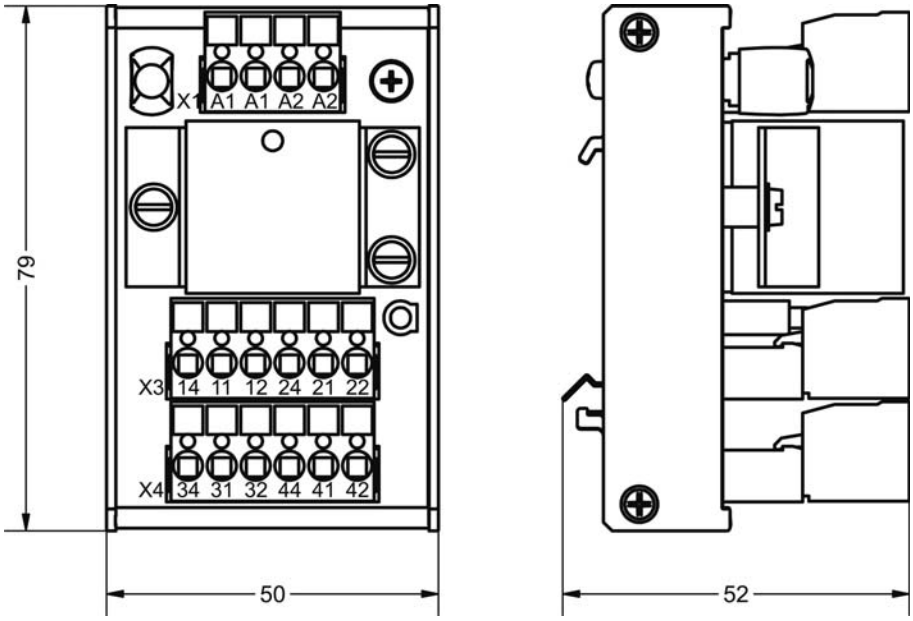
Relay module, non overlapping contacts arrangement

Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373 The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.
Protection class	IP 20

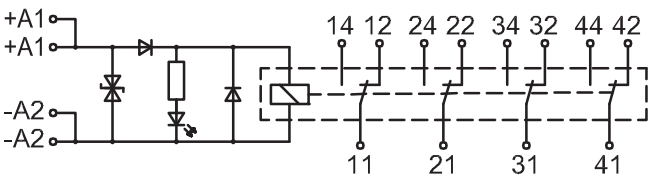
Switching capacity

Nominal contact voltage (Vdc)	Contact rating in Amps		Level	Minimum operating cycles
	resistive load	inductive load (L/R=30ms)		
72 V	1	0.6	High level	1,000,000 cycles
5 ≤ U ≤ 90 V	1 to 20mA	-	Low level	2,000,000 cycles
15 ≤ U ≤ 35 V	-	10 mA to 1.50 Amps	High level	2,000,000 cycles
35 < U ≤ 90 V	-	10 mA to 0.50 Amps	High level	2,000,000 cycles
90 < U ≤ 140 V	-	10 mA to 0.35 Amps	High level	2,000,000 cycles

Dimensions

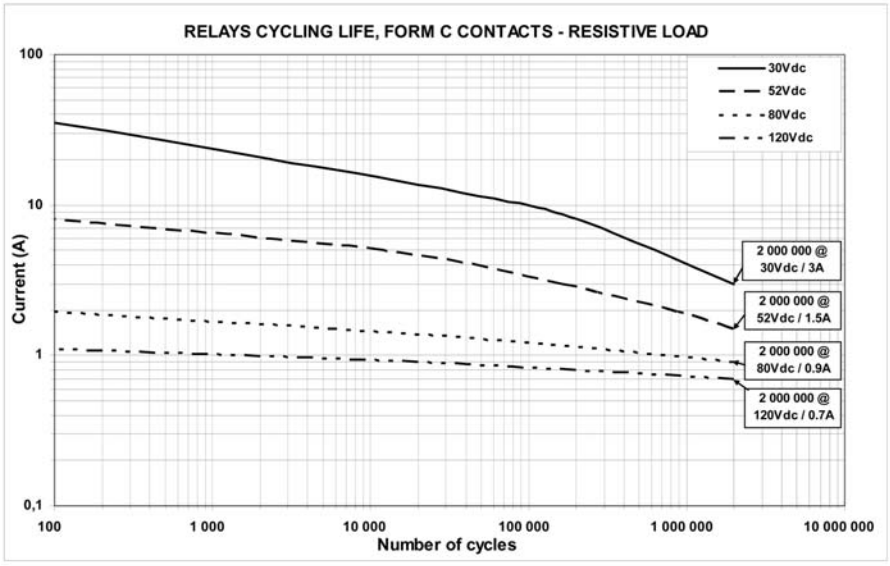


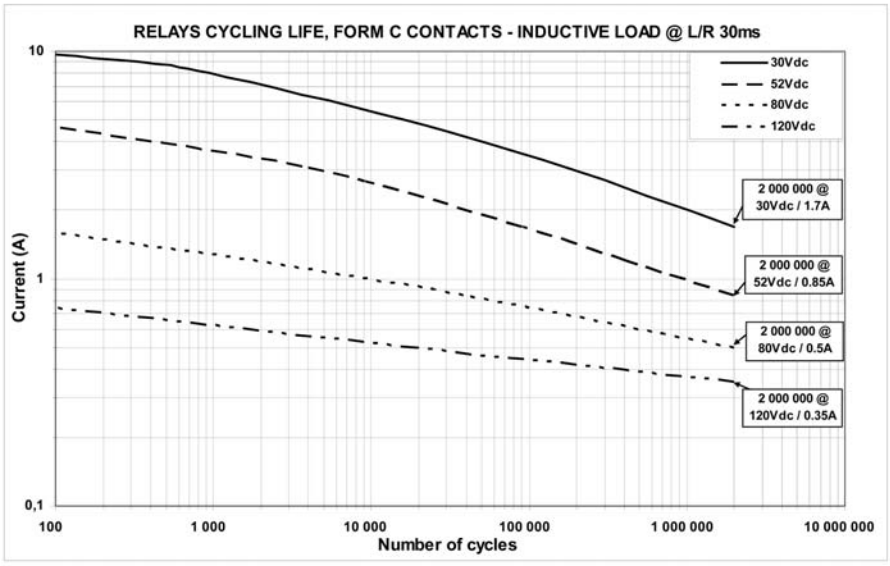
Circuit diagram



Relay module, non overlapping contacts arrangement

Derating





Relay module, non overlapping contacts arrangement

Identification	Type	RPE-6332
	Part-No.	716332

Use/Area of application	
Description	Relay module hermetically sealed with non overlapping contacts arrangement, according to NFF 62002-2 FPn°9, CECC16101-019 and MIL-PRF-83536. Activated via DC 36 V. 4 change-over contacts 250 V / 4 A are available for switching small to medium loads.

Input	
Nominal voltage U_N	DC 36 V
Voltage range	DC 25.2 – 45.0 V
Rated current (at U_N)	70 mA
Status Indication	LED yellow
Protection device	Overload diode / reverse diode

Load Side	
Switching voltage	AC/DC 5–250 V
Switching current	AC/DC 1 mA ... 4 A

General	
Termination	Spring terminal 0.08–2.5 mm^2
Clearance/creep. dist. (contol/load side)	≥1.5 mm
Installation postition	Optional
Rated insulation voltage	250 V Pollution degree PD2
Contact type	4 change-over non overlapping contacts
Mechanical service life	approx.. 2 × 106 operations
Housing material	Metal
Operation temperature range	-40 – 85 °C
Storage temperature range	-40 – 85 °C
Dimensions (w × h × d)	50.0×79.0×52.0 mm
Weight (kg/piece)	0.160 (kg/piece)

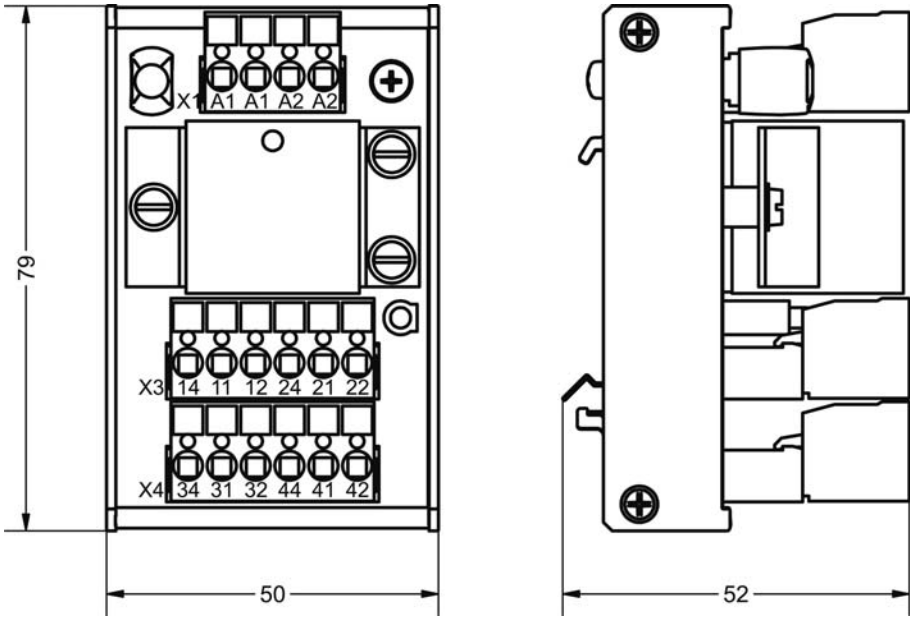
Relay module, non overlapping contacts arrangement

Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373 The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.
Protection class	IP 20

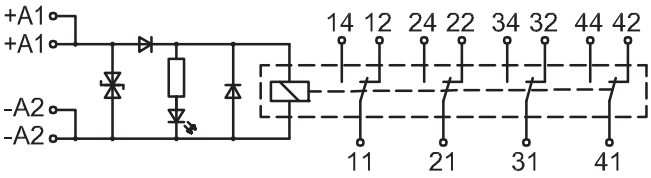
Switching capacity

Nominal contact voltage (Vdc)	Contact rating in Amps		Level	Minimum operating cycles
	resistive load	inductive load (L/R=30ms)		
72 V	1	0.6	High level	1,000,000 cycles
5 ≤ U ≤ 90 V	1 to 20mA	-	Low level	2,000,000 cycles
15 ≤ U ≤ 35 V	-	10 mA to 1.50 Amps	High level	2,000,000 cycles
35 < U ≤ 90 V	-	10 mA to 0.50 Amps	High level	2,000,000 cycles
90 < U ≤ 140 V	-	10 mA to 0.35 Amps	High level	2,000,000 cycles

Dimensions

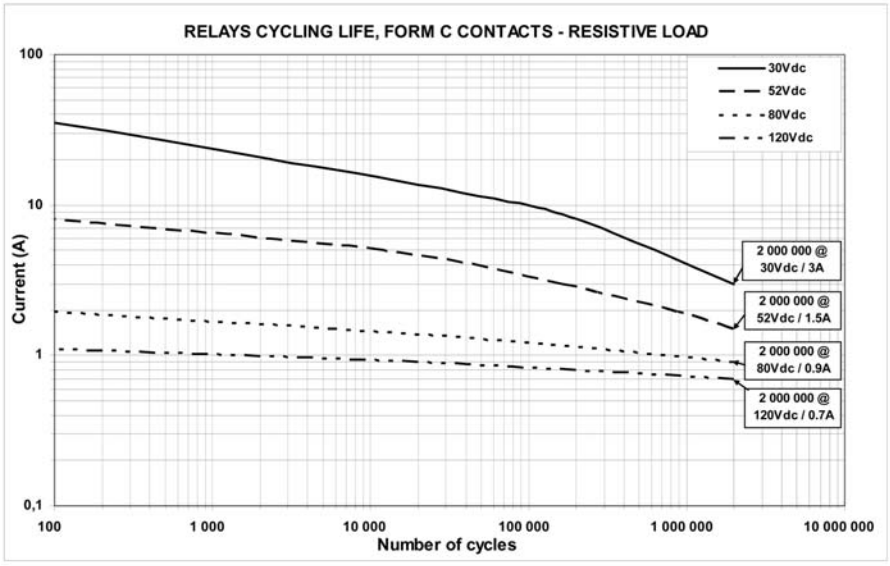


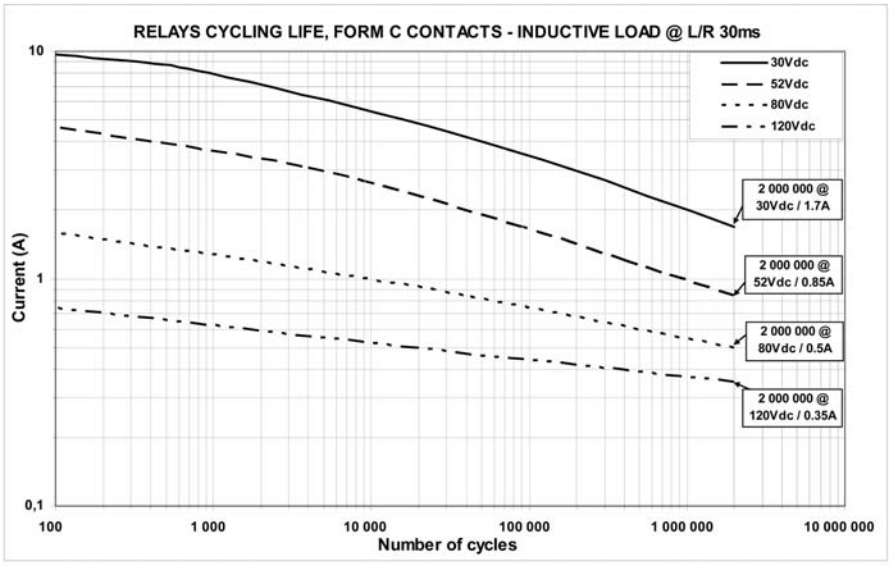
Circuit diagram



Relay module, non overlapping contacts arrangement

Derating





Relay module, non overlapping contacts arrangement

Identification	Type	RPE-6333
	Part-No.	716333

Use/Area of application	
Description	Relay module hermetically sealed with non overlapping contacts arrangement, according to NFF 62002-2 FPn°9, CECC16101-019 and MIL-PRF-83536. Activated via DC 72 V. 4 change-over contacts 250 V / 4 A are available for switching small to medium loads.

Input	
Nominal voltage U_N	DC 72 V
Voltage range	DC 50.4 – 90.0 V
Rated current (at U_N)	30 mA
Status Indication	LED yellow
Protection device	Overload diode / reverse diode

Load Side	
Switching voltage	AC/DC 5–250 V
Switching current	AC/DC 1 mA ... 4 A

General	
Termination	Spring terminal 0.08–2.5 mm^2
Clearance/creep. dist. (contol/load side)	≥1.5 mm
Installation postition	Optional
Rated insulation voltage	250 V Pollution degree PD2
Contact type	4 change-over non overlapping contacts
Mechanical service life	approx.. 2 × 106 operations
Housing material	Metal
Operation temperature range	-40 – 85 °C
Storage temperature range	-40 – 85 °C
Dimensions (w × h × d)	50.0×79.0×52.0 mm
Weight (kg/piece)	0.160 (kg/piece)

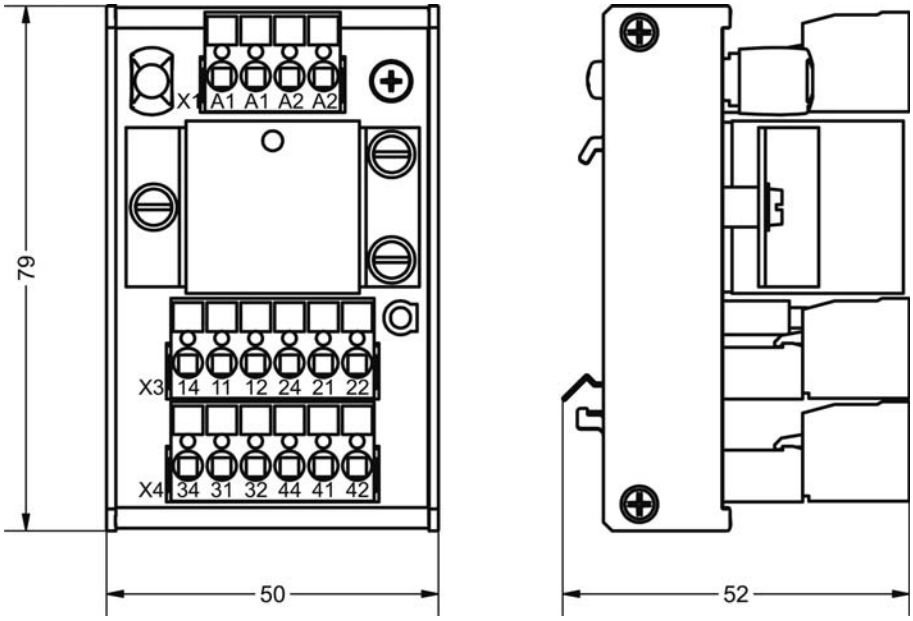
Relay module, non overlapping contacts arrangement

Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373 The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.
Protection class	IP 20

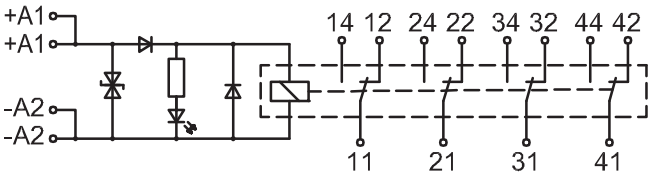
Switching capacity

Nominal contact voltage (Vdc)	Contact rating in Amps		Level	Minimum operating cycles
	resistive load	inductive load (L/R=30ms)		
72 V	1	0.6	High level	1,000,000 cycles
5 ≤ U ≤ 90 V	1 to 20mA	-	Low level	2,000,000 cycles
15 ≤ U ≤ 35 V	-	10 mA to 1.50 Amps	High level	2,000,000 cycles
35 < U ≤ 90 V	-	10 mA to 0.50 Amps	High level	2,000,000 cycles
90 < U ≤ 140 V	-	10 mA to 0.35 Amps	High level	2,000,000 cycles

Dimensions

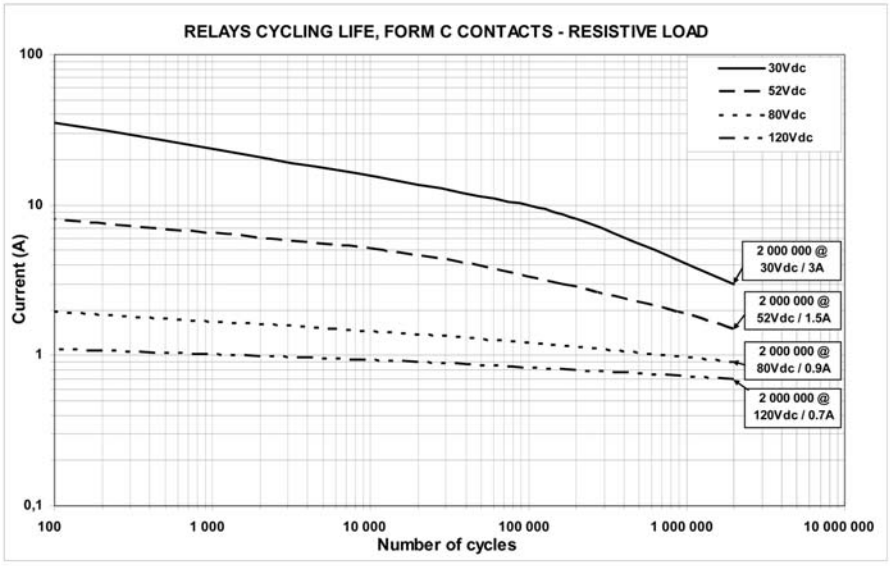


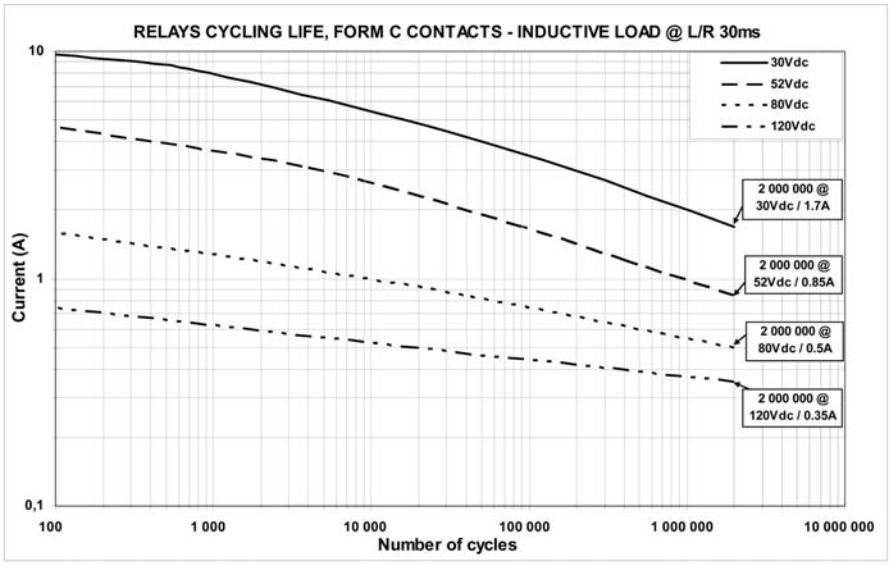
Circuit diagram



Relay module, non overlapping contacts arrangement

Derating





Relay module, non overlapping contacts arrangement

Identification	Type	RPE-6334
	Part-No.	716334

Use/Area of application	
Description	Relay module hermetically sealed with non overlapping contacts arrangement, according to NFF 62002-2 FPn°9, CECC16101-019 and MIL-PRF-83536. Activated via DC 110 V. 4 change-over contacts 250 V / 4 A are available for switching small to medium loads.

Input	
Nominal voltage U_N	DC 110 V
Voltage range	DC 77.0 – 137.5 V
Rated current (at U_N)	26 mA
Status Indication	LED yellow
Protection device	Overload diode / reverse diode

Load Side	
Switching voltage	AC/DC 5–250 V
Switching current	AC/DC 1 mA ... 4 A

General	
Termination	Spring terminal 0.08–2.5 mm^2
Clearance/creep. dist. (contol/load side)	≥1.5 mm
Installation postition	Optional
Rated insulation voltage	250 V Pollution degree PD2
Contact type	4 change-over non overlapping contacts
Mechanical service life	approx.. 2 × 106 operations
Housing material	Metal
Operation temperature range	-40 – 85 °C
Storage temperature range	-40 – 85 °C
Dimensions (w × h × d)	50.0×79.0×52.0 mm
Weight (kg/piece)	0.160 (kg/piece)

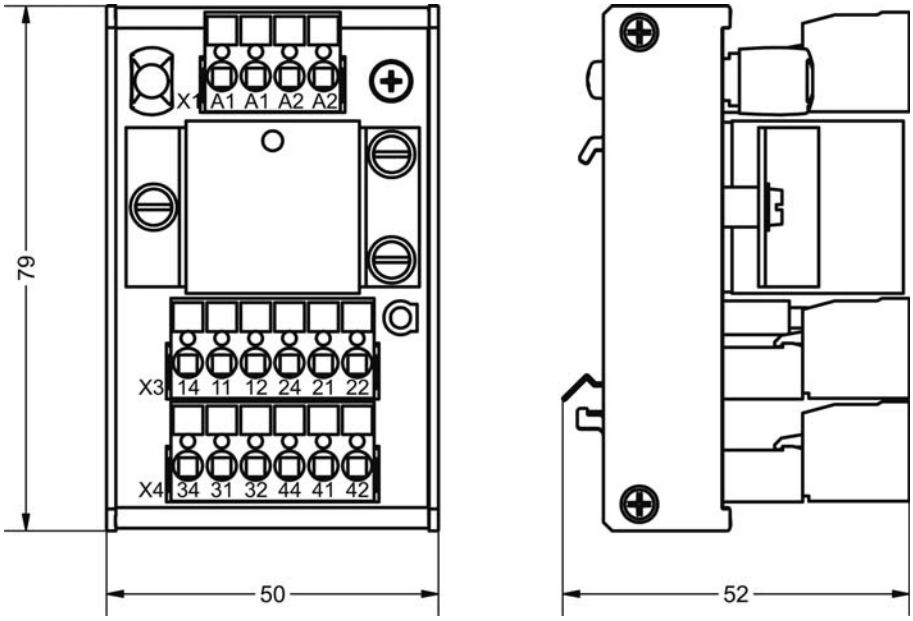
Relay module, non overlapping contacts arrangement

Standards	Electronic equipment on railway vehicles: EN 50155 Electromagnetic compatibility: EN 50121-3-2 Insulation coordination: EN 50124-1 Vibrations and shocks: EN50155/61373 The standard applicable to this product is dependent on the version available for development. The standards applicable to this product are available on request.
Protection class	IP 20

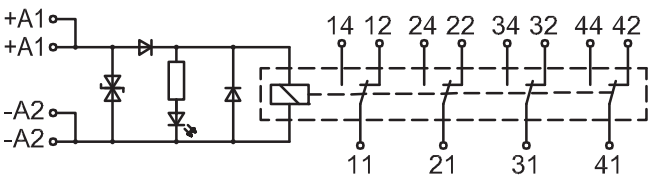
Switching capacity

Nominal contact voltage (Vdc)	Contact rating in Amps		Level	Minimum operating cycles
	resistive load	inductive load (L/R=30ms)		
72 V	1	0.6	High level	1,000,000 cycles
5 ≤ U ≤ 90 V	1 to 20mA	-	Low level	2,000,000 cycles
15 ≤ U ≤ 35 V	-	10 mA to 1.50 Amps	High level	2,000,000 cycles
35 < U ≤ 90 V	-	10 mA to 0.50 Amps	High level	2,000,000 cycles
90 < U ≤ 140 V	-	10 mA to 0.35 Amps	High level	2,000,000 cycles

Dimensions



Circuit diagram



Relay module, non overlapping contacts arrangement

Derating