Relay Module

Identification	Type	RE 6-4005.0036
	Part-No.	814005.0036

Product version	
Datasheet version	00

Use/Application/Properties

Description	This universal-relay-coupler with 4 decoupling diodes is designed for the output-coupler level. Activation occurs via DC 36 V. There are two 250 V / 6 A C/O contacts available on the load side for the switching of small to medium loads.

Input

Nominal voltage	DC 36 V
Voltage range	DC 25.2 – 45.0 V
Rated current (at U_N)	approx. 24 mA
Status indication LED	LED yellow
Interrupting voltage	<3.6 V

Load Side

Switching voltage	AC/DC 1 – 250 V
Min. switching voltage	AC/DC 1 V
Max. switching voltage	AC/DC 250 V
Switching current	AC/DC 0.001 – 6 A
Min. switching current	AC/DC 1 mA
Max. switching current	AC/DC 6 A
Switching capacity	max. 1500 VA / 100 W (see 'Load limit curve')
Protection device output	none
Inrush peak current	15 A (max. 2s at 5% ED)
Contact material	AgNi 90/10 hard-gold-plated
Capacity of hard-gold-plating	24 V / 10 mA

General

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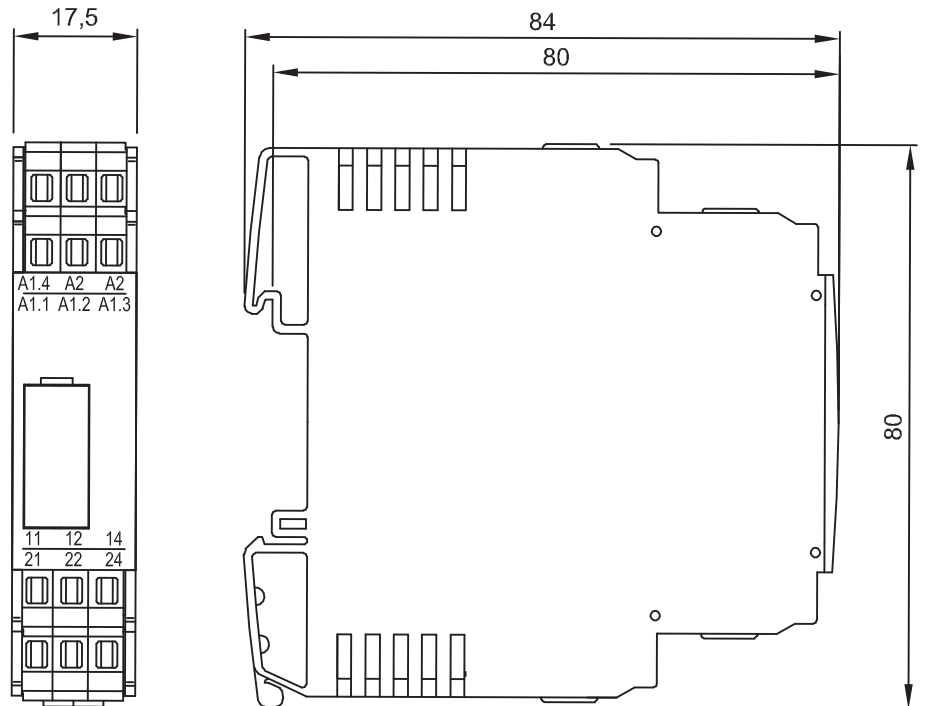# Relay Module

Clearance/creep. dist. (control/load side)	≥1.7 mm (basic insulation) from input to output side
Rated insulation voltage	AC/DC 300 V from input to output side
Contact type	2 change over contact
Transmission frequency	15 Hz
Mechanical service life	$> 30 \times 10^6$ operations
Housing material	PC-ABS
Color	RAL 7035
Operation temperature range	-40 °C – 70 °C (+85 °C 10 min)
Storage temperature range	-40 °C – 80 °C
Dimensions (w × h × d)	17.5 × 80.0 × 84.0 mm
Weight (kg/piece)	0.060 kg/piece
Fire protection	**EN 45545-2** Requirements for fire behaviour of materials and components
Form	Microcompact

Standards

Electronic equipment on railway vehicles: EN 50155:2007-07
Electromagnetic compatibility: EN 50121-3-2:2006-07
Insulation coordination: EN 50124-1:2001-03
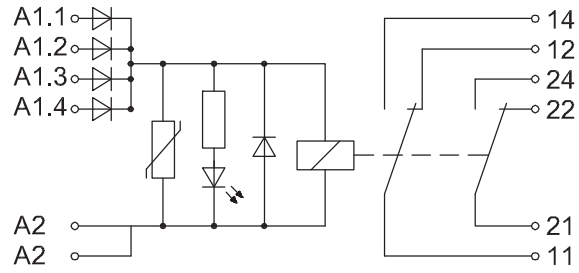Vibrations and shocks: EN50155/61373:2010-09

Miscellaneous

Comments

Inductive loads must be wired with a suitable suppressor element! When the module has been used once over the power limit of the hard gold plating it can no longer be used in the switching range below the power limit.

Dimensions

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Relay Module

Circuit diagram

Limit curve

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