

The powerful contactor family for railway

RIC-R



The powerful contactor

- Compact installation contactor for railway applications with a width of 17.5 mm 2 pole or 35 mm 4 pole
- The DC switching power of 4 A at 110 V DC (DC-5) is achieved thanks to a blow magnet for the 2 pole contactors
- Complies with EN 50155 / EN 45545-2 railway standard and is characterized by their high reliability
- Coil voltages DC 24, 36, 72, 110 V
- Transient Voltage Suppressor (TVS) Diode integrated to protect electronic circuits from short-term voltage pulses
- Integrated spacer 3 mm for the 2 pole contactors
- RIC25 expandable with RIC-AUX contacts



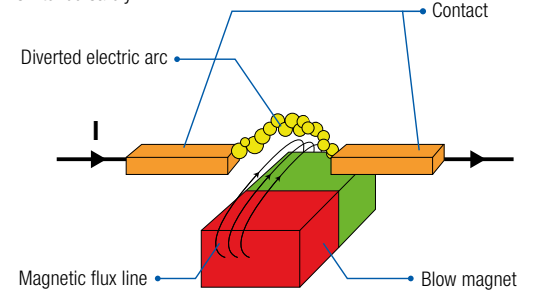
Contacts		RIC20-xxx-R4A	RIC20-xxx-SR	RIC25-xxx-R	RIC-AUX
1 NO + 1 NC		RIC20-110-R4A/...V	RIC20-110-SR/...V		RIC-AUX11
2 NO		RIC20-200-R4A/...V	RIC20-200-SR/...V		RIC-AUX20
2 NC		RIC20-020-R4A/...V	RIC20-020-SR/...V		RIC-AUX02
2 NO + 2 NC				RIC25-220-R/...V	
4 NO				RIC25-400-R/...V	
4 NC				RIC25-040-R/...V	
2 CO				RIC25-002-R/...V	

Technical data

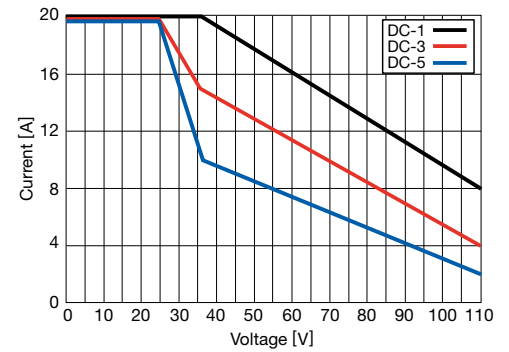
	Contact material	AgNi + Blow magnet	AgNi	AgNi
	Rated current AC-1	20 A	25 A	6 A
	Rated voltage AC-1	400 V		400 V
	Recommended minimal load	50 mA, 17 V		5 mA, 12 V
	Switching frequency at rated load DC-1, DC-3 and DC-5 (Cycles / h)	≤ 300		≤ 600
	Electrical life cycles DC-1, DC-3 and DC-5	2 × 10 ⁵		5 × 10 ⁴
	Nominal voltage (V)	DC 24 / DC 36 / DC 72 / DC 110		—
	Coil voltage range	0.70...1.25 U _N		—
	Power consumption DC	2.6 W	4.6 W	—
	Pick-up time	15 ... 45 ms	15 ... 45 ms	—
	Release time	20 ... 50 ms	20 ... 70 ms	—
	TVS Diode	—	✓	—
	Approval	EN 50155 EN 61373 – Category 1, Class B EN 45545-2		

Blow magnet technology for 2 pole contactors

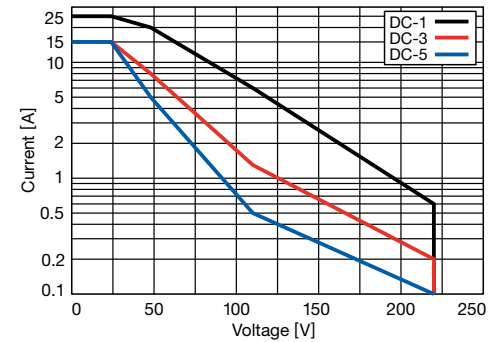
If the switching contacts are opened under high DC loads, an electric arc is formed that may weld the contacts. Thanks to the magnetic field of the blow magnet, the longer electric arc extinguishes faster. This allows even high DC loads to be switched safely.



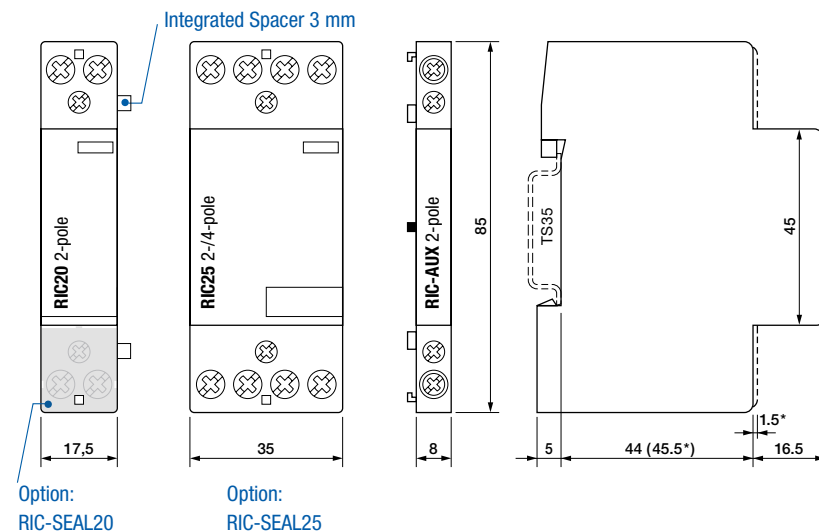
DC-Switching power for 2 pole contactors



DC-Switching power for 4 pole contactors



Dimensions



Accessoires

Lead-sealing cover

RIC-SEAL20
RIC-SEAL25

Phase busbars

RIC-PS-1-2-R

Neutral busbars

RIC-NS-1-1-R

End covers for phase and neutral busbars

RIC-EK-11
RIC-EK-23