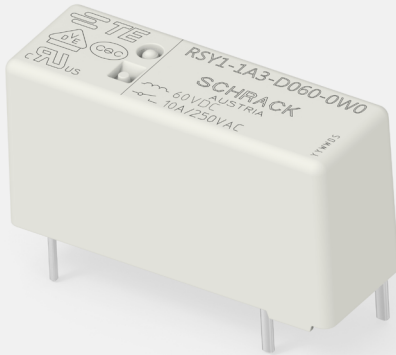




SCHRACK RSY RELAY

TE Connectivity (TE)'s Schrack RSY relay sets a new benchmark in relay technology for HVAC, industrial, and energy applications. Designed for high performance and longer service life, it helps ensure reliable operation even under thermal and electrical conditions, helping customers reduce downtime and maintenance costs.

Built with quality and compliance at its core, the RSY relay is prepared for emerging industry standards, including the shift to new A3 refrigerants. This makes it a future-ready choice where safety and regulatory alignment are critical.

Sustainability is integrated into its design which helps enable improved engineering and automated production, lowering its carbon footprint while helping to ensure consistent quality and more secure availability at scale.

Compact, reliable, and forward-looking, the RSY relay helps enable robust, efficient, and compliant system designs.

FEATURES

- Extended thermal range (-40°C to 105°C, >5A at 105°C)
- High contact reliability (5V / 1mA min., >1M cycles)
- Enhanced electrical endurance
- Hazardous location compliance (IEC 60079-1 A3, UL 60335-2-40 A2L)
- ~15% lower product carbon footprint
- Through-hole reflow solderability (15.0 mm height)
- Automated high-capacity production

SCHRACK RSY RELAY

BENEFITS

- Helps ensure stable functionality in thermally stressed or compact applications
- Consistent performance across a wide range of applications
- Helps provide longer relay lifetime under inrush and DC load conditions
- Fully prepared for the 2025 environmental regulations phasing out HFCs
- More sustainable product option
- Streamlines the PCB assembly process while maintaining the design footprint
- Helps ensure reliable supply and consistent quality

ADVANTAGES

- Helps enable robust system design without oversizing or additional cooling
- Longer service life and reduced maintenance cycles
- Reduced replacement costs and enhanced equipment reliability
- Future-ready HVAC and industrial designs with no redesign risk
- Supports ESG goals and enhances sustainability credentials
- Space efficient and reduces production complexity
- Helps secure supply chain and helps enable scalable mass production

APPLICATIONS

- Automation and Control
- Climate Solutions
- Motion and Drive
- New Energy

ELECTRICAL

- High inrush currents with AgSnO₂ (Silver Tin Oxide) contacts up to 10A under 85°C ambient temperature (TV4)
- 4kV/8mm coil-contact High contact reliability, 5V/1mA min. contact load

MECHANICAL

- 1 pole 10A, 1 form A (NO) contact
- Vibration/Shock: NO=20, NC=4

MATERIALS

- Extended thermal operating range - 40°C to 105°C
- Lower Product Carbon Footprint (PCF): ~ - 15% CO₂

STANDARDS

- Enclosed-break device approvals:
 - Group IIA acc. to IEC 60079-1: Clause 15.5 (former IEC 60079-15: Clause 22.4)

PART NUMBER LIST

Part Number	Part Description
1-2045050-0	RSY1-1A3-D060-OWO
1-2045050-1	RSY1-1A3-D003-OWO
1-2045050-2	RSY1-1A3-D005-OWO
1-2045050-3	RSY1-1A3-D006-OWO
1-2045050-4	RSY1-1A3-D009-OWO
1-2045050-5	RSY1-1A3-D012-OWO
1-2045050-6	RSY1-1A3-D018-OWO
1-2045050-7	RSY1-1A3-D024-OWO
1-2045050-8	RSY1-1A3-D036-OWO

Part Number	Part Description
1-2045050-9	RSY1-1A3-D048-0W0
2-2045050-0	RSY1-1A3-D060-000
2-2045050-1	RSY1-1A3-D003-000
2-2045050-2	RSY1-1A3-D005-000
2-2045050-3	RSY1-1A3-D006-000
2-2045050-4	RSY1-1A3-D009-000
2-2045050-5	RSY1-1A3-D012-000
2-2045050-6	RSY1-1A3-D018-000
2-2045050-7	RSY1-1A3-D024-000
2-2045050-8	RSY1-1A3-D036-000
2-2045050-9	RSY1-1A3-D048-000

Connect With Us

We make it easy to connect with our experts and are ready to provide the support you need.

Visit te.com/support to chat with a Product Information Specialist.

te.com

SCHRACK, TE Connectivity, TE, TE connectivity (logo) and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

© 2026 TE Connectivity. All Rights Reserved.

08/26