

Industrial relay system

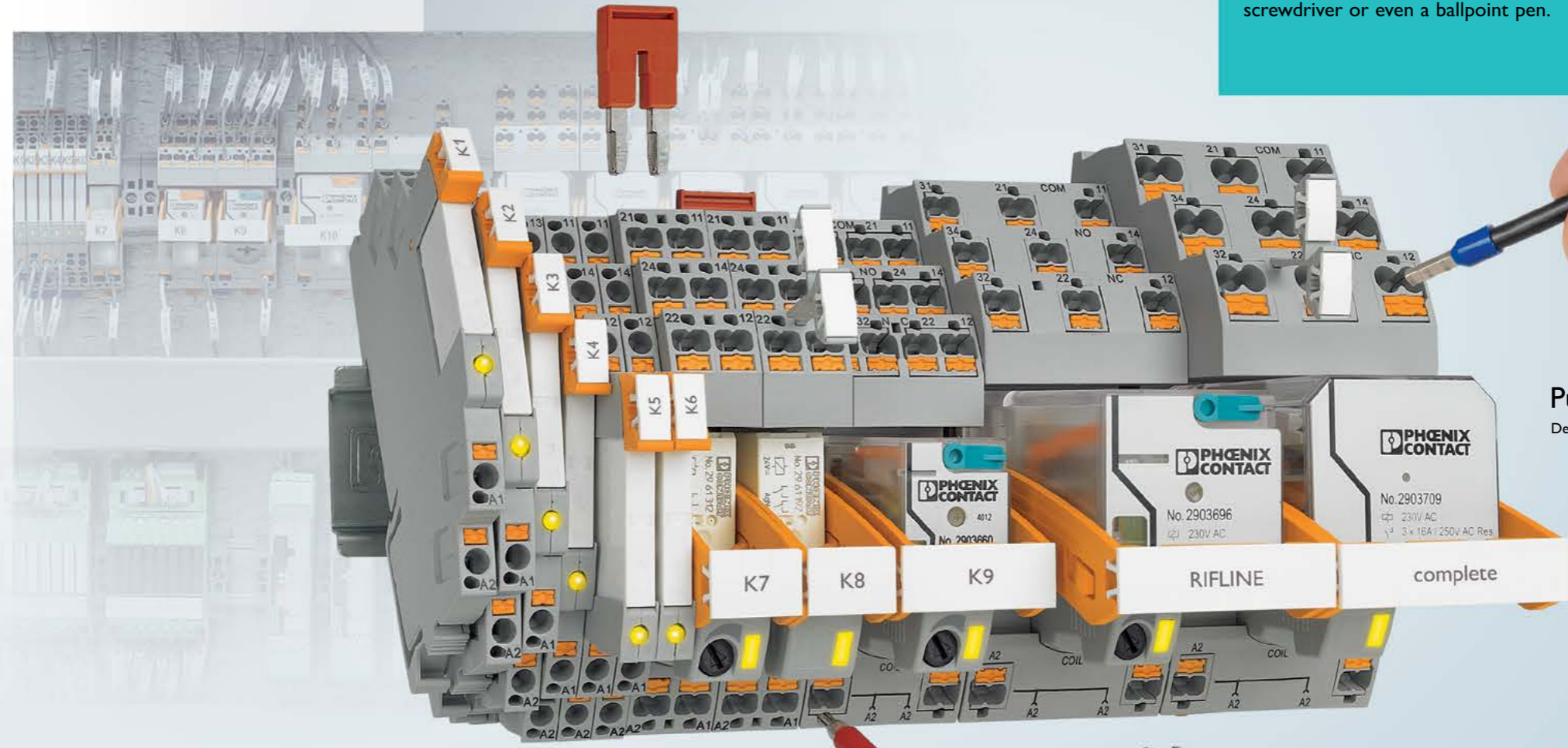
RIFLINE complete

Easy handling – RIFLINE complete relay system

You can carry out all standard relay applications using the RIFLINE complete industrial relay system. It doesn't matter whether you want to isolate, multiply or amplify signals.

The relay system, with a consistent plug-in design, ensures high machine and system availability. The area of application ranges from coupling and timer relays through to the small power contactor replacement.

Push-in technology
Utilize the proven push-in connection technology with RIFLINE complete. This ensures quick, tool-free wiring. The release button for releasing the conductor can be operated using a screwdriver or even a ballpoint pen.



Push-in Technology
Designed by PHOENIX CONTACT

Easy handling in detail



Easy wiring thanks to push-in connection technology. This ensures quick wiring without the need for any tools.



Easy potential distribution with jumpers from the CLIPLINE complete system accessories.



Easy to extend using the plug-in multifunction timer module. Three time functions can be selected in a time range from 0.5 seconds to 100 minutes.



High availability thanks to plug-in relays and function modules

Relays can be easily exchanged in the event of a service call. This, in turn, ensures a high machine and system availability.

Complete relay family

Switch currents up to 16 A. From the coupling relay to the small power contactor replacement, the product range offers the right relay for every application.

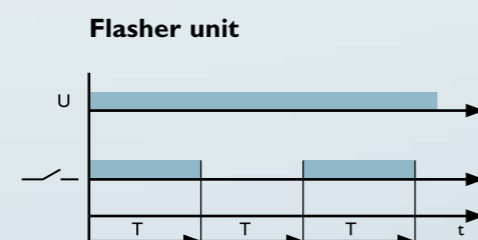
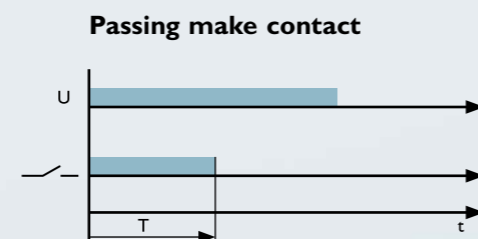
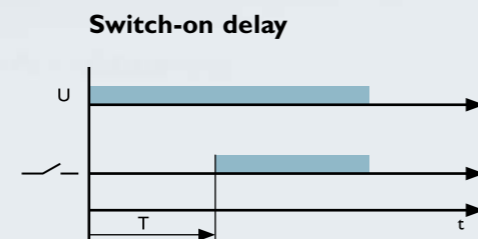
Applications at a glance

Thanks to the diverse range of RIFLINE complete products, a wide variety of applications can be implemented using the system. The relay can be extended as desired using function modules.

Multifunctional timer module

The multifunctional plug-in timer module for 24 V transforms the relay module into a timer relay. The RIF-1 to RIF-4 bases can be fitted with this module.

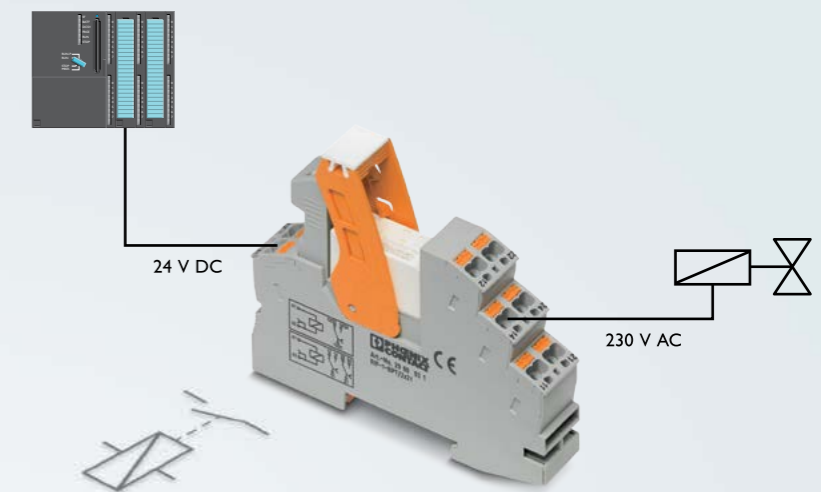
Three time functions can be selected in a time range from 0.5 seconds to 100 minutes.



From the coupling relay to the small power contactor replacement

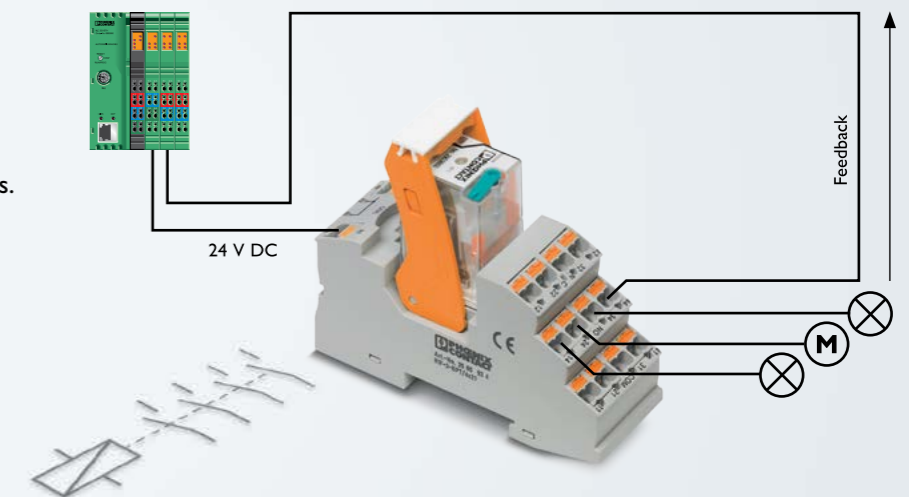
Coupling relays between the controller and the field

The RIF-0 and RIF-1 relay modules are used in particular to reliably couple signals between the controller and the field. As such, power is amplified, voltages are adjusted or signals are electrically isolated.



Relays for signal multiplication

The RIF-2 relay modules are particularly suitable for applications in which a high number of contacts is required. A feedback signal to the controller can be switched in parallel with different loads.

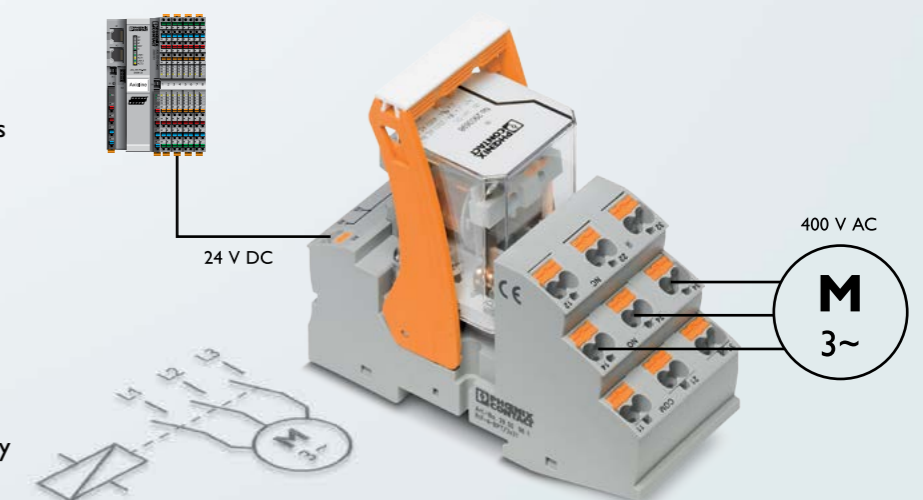


From the power relay to the small power contactor replacement

The RIF-4 relay modules can be used in small power contactor applications thanks to their high switching capacity.

The benefits in comparison with contactors are:

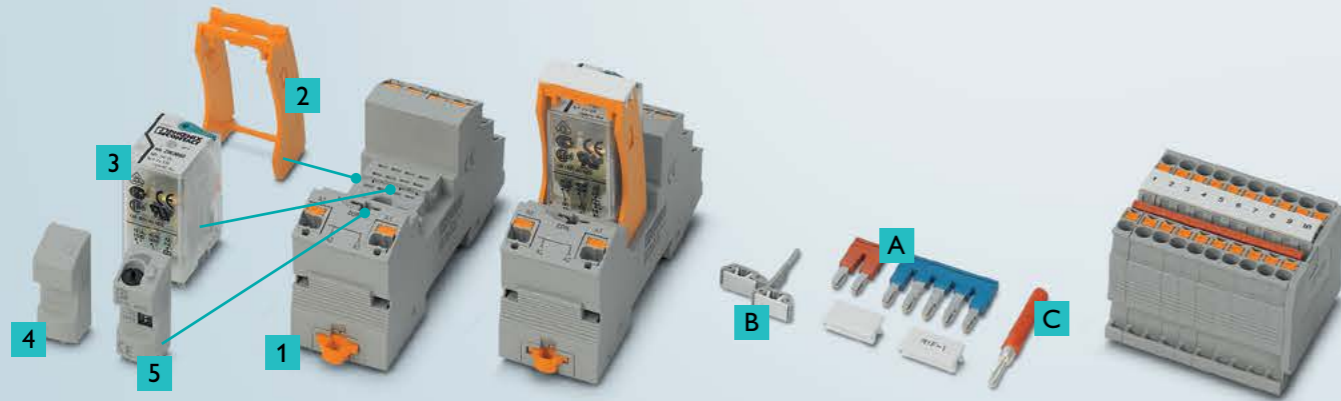
- Easy maintenance thanks to plug-in capability
- Operating indicator via status LED
- Inexpensive
- Quick installation thanks to bridgeability and push-in connection



Modular relay system – for maximum flexibility and cost efficiency

You can decide for yourself whether you want to assemble RIFLINE complete individually – or order it ready assembled as a complete module. All components in the modular system

can be ordered individually depending on the application. This also includes relays that are available for a variety of voltages and applications.



RIFLINE complete – modular system

1. Relay base
2. Retaining bracket
3. Relay
4. Protective circuit
5. Timer module (RIF-T3-24UC, Order No. 2902647) for RIF-1 to RIF-4 modules with 24 V input voltage

Standardized accessories

RIFLINE complete uses the standardized accessories of the CLIPLINE complete modular terminal block system:

- A: Bridging material**
- B: Marking accessories** such as zack marker strips and marker carriers
- C: Test plugs**



Configuration made easy with CLIP PROJECT

Configure the terminal strips and components for your control cabinet from Phoenix Contact easily using CLIP PROJECT – and prepare the corresponding markings at the same time. The planning software also supports you in selecting the correct accessories right through to ordering. With CLIP PROJECT, you can benefit from a consistent process chain. This is achieved by way of the interaction with CAE systems.

Further information and download options can be found at: phoenixcontact.com



Complete relay modules – RIFLINE complete order overview

	Input voltage	Output contacts		Max. switching current ¹⁾	Switching voltage	Type	Order No.
							
RIF-0 6.2 mm	12 V DC	1	–	6 A	250 V AC/DC	RIF-0-RPT-12DC/21	2903371
	12 V DC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-0-RPT-12DC/21AU	2903369
	12 V DC	–	1	6 A	250 V AC/DC	RIF-0-RPT-12DC/1	2903362
	12 V DC	–	1	50 mA ²⁾	30 V AC/36 V DC	RIF-0-RPT-12DC/1AU	2903360
	24 V DC	1	–	6 A	250 V AC/DC	RIF-0-RPT-24DC/21	2903370
	24 V DC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-0-RPT-24DC/21AU	2903368
	24 V DC	–	1	6 A	250 V AC/DC	RIF-0-RPT-24DC/1	2903361
	24 V DC	–	1	50 mA ²⁾	30 V AC/36 V DC	RIF-0-RPT-24DC/1AU	2903359
RIF-1 16 mm	24 V DC	1	–	11 A (13 A) ³⁾	250 V AC/DC	RIF-1-RPT-LDP-24 DC/1x21	2903342
	24 V DC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LDP-24DC/1x21AU	2903338
	24 V DC	2	–	8 A	250 V AC/DC	RIF-1-RPT-LDP-24DC/2x21	2903334
	24 V DC	2	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LDP-24DC/2x21AU	2903330
	24 V AC	1	–	10 A (12 A) ³⁾	250 V AC/DC	RIF-1-RPT-LV-24AC/1x21	2903341
	24 V AC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-24AC/1x21AU	2903337
	24 V AC	2	–	8 A	250 V AC/DC	RIF-1-RPT-LV-24AC/2x21	2903333
	24 V AC	2	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-24AC/2x21AU	2903329
	120 V AC	1	–	10 A (12 A) ³⁾	250 V AC/DC	RIF-1-RPT-LV-120AC/1x21	2903340
	120 V AC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-120AC/1x21AU	2903336
	120 V AC	2	–	8 A	250 V AC/DC	RIF-1-RPT-LV-120AC/2x21	2903332
	120 V AC	2	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-120AC/2x21AU	2903328
	230 V AC	1	–	10 A (12 A) ³⁾	250 V AC/DC	RIF-1-RPT-LV-230AC/1x21	2903339
	230 V AC	1	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-230AC/1x21AU	2903335
230 V AC	2	–	8 A	250 V AC/DC	RIF-1-RPT-LV-230AC/2x21	2903331	
	230 V AC	2	–	50 mA ²⁾	30 V AC/36 V DC	RIF-1-RPT-LV-230AC/2x21AU	2903327
RIF-2 31 mm	24 V DC	2	–	10 A	250 V AC/DC	RIF-2-RPT-LDP-24DC/2x21	2903315
	24 V DC	4	–	6 A	250 V AC/DC	RIF-2-RPT-LDP-24DC/4x21	2903308
	24 V AC	2	–	8.5 A	250 V AC/DC	RIF-2-RPT-LV-24AC/2x21	2903313
	24 V AC	4	–	5 A	250 V AC/DC	RIF-2-RPT-LV-24AC/4x21	2903306
	120 V AC	2	–	8.5 A	250 V AC/DC	RIF-2-RPT-LV-120AC/2x21	2903311
	120 V AC	4	–	5 A	250 V AC/DC	RIF-2-RPT-LV-120AC/4x21	2903305
	230 V AC	2	–	8.5 A	250 V AC/DC	RIF-2-RPT-LV-230AC/2x21	2903310
	230 V AC	4	–	5 A	250 V AC/DC	RIF-2-RPT-LV-230AC/4x21	2903304
RIF-3 40 mm	24 V DC	2	–	10 A	250 V AC/DC	RIF-3-RPT-LDP-24DC/2x21	2903297
	24 V DC	3	–	8.5 A	250 V AC/DC	RIF-3-RPT-LDP-24DC/3x21	2903294
	120 V AC	2	–	7 A	250 V AC/DC	RIF-3-RPT-LV-120AC/2x21	2903296
	120 V AC	3	–	6 A	250 V AC/DC	RIF-3-RPT-LV-120AC/3x21	2903293
	230 V AC	2	–	7 A	250 V AC/DC	RIF-3-RPT-LV-230AC/2x21	2903295
	230 V AC	3	–	6 A	250 V AC/DC	RIF-3-RPT-LV-230AC/3x21	2903292
RIF-4 43 mm	24 V DC	2	–	11 A	440 V AC/250 V DC	RIF-4-RPT-LDP-24DC/2x21	2903281
	24 V DC	3	–	10 A	440 V AC/250 V DC	RIF-4-RPT-LDP-24DC/3x21	2903278
	24 V DC	–	3	10 A	440 V AC/250 V DC	RIF-4-RPT-LDP-24DC/3x1	2903275
	120 V AC	2	–	9 A	440 V AC/250 V DC	RIF-4-RPT-LV-120AC/2x21	2903280
	120 V AC	3	–	8 A	440 V AC/250 V DC	RIF-4-RPT-LV-120AC/3x21	2903277
	120 V AC	–	3	8 A	440 V AC/250 V DC	RIF-4-RPT-LV-120AC/3x1	2903274
	230 V AC	2	–	9 A	440 V AC/250 V DC	RIF-4-RPT-LV-230AC/2x21	2903279
	230 V AC	3	–	8 A	440 V AC/250 V DC	RIF-4-RPT-LV-230AC/3x21	2903276
	230 V AC	–	3	8 A	440 V AC/250 V DC	RIF-4-RPT-LV-230AC/3x1	2903273

¹⁾ Type dependent – please observe contact derating

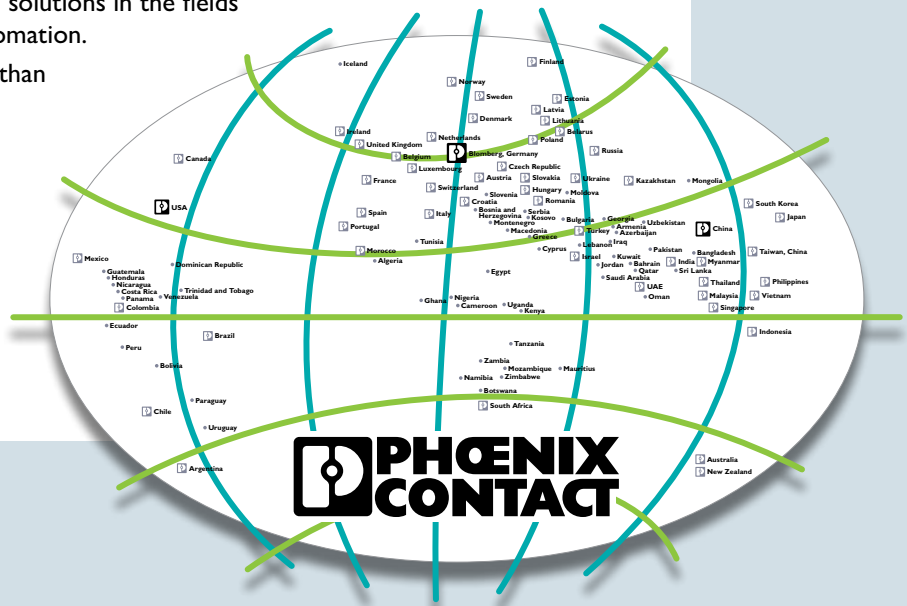
²⁾ Due to multi-layer contact

³⁾ For use of the jumper between 11 and 21

Ongoing communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. Our group is known for its future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation.

With a global network reaching across more than 100 countries and 16,500 employees, we can stay in close contact with our customers, something we believe is essential to success. The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for multiple applications and industries. We especially focus on the fields of energy, infrastructure, process, and factory automation.



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