

Electromechanical relays	Solid-state relays
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¹⁾ For possible configurations, see the relay and solid-state relay table to the lower right.

Description	PLC-R.../21 Equipped with plug-in power contact relay	PLC-R.../21AU Equipped with plug-in relay for low switching capacities, with gold-plated multi-layer contact	PLC-R.../21-21 Equipped with plug-in power contact relay	PLC-R.../21-21AU Equipped with plug-in relay for low switching capacities, with gold-plated multi-layer contact	PLC-R.../21HC Equipped with plug-in miniature relay for high continuous current	PLC-O.../48DC/100 Equipped with plug-in input solid-state relay	PLC-O.../24DC/2 Equipped with plug-in power solid-state relay	PLC-O.../230AC/1 Integrated with plug-in power solid-state relay	PLC-O.../300DC/1 Integrated solid-state relay with DC voltage output, max. 1 A	PLC-O.../48DC/500W Integrated solid-state relay with electronic PDT, max. 500 mA	PLC-O.../24DC/24DC/10R Integrated solid-state relay with DC short-circuit-proof DC voltage output, max. 10 A	PLC-O.../24DC/100KHZ Integrated solid-state relay with DC voltage output, max. 50 mA, transmission frequency up to 100 kHz	PLC-O.../24DC/100KHZ-G Integrated solid-state relay with DC voltage output with push-pull output stage, max. 50 mA, transmission frequency up to 100 kHz	PLC-B...UC/21/ISO46) Basic terminal block with integrated filter which can be equipped with relay or solid-state relay	PLC-B...UC/15EN/ISO46) Basic terminal block with integrated filter which can be equipped with relay or solid-state relay	PLC-BSC...UC/21-21/ISO46) Basic terminal block with integrated filter which can be equipped with relay	PLC-BSC...UC/21/HC/ISO46) Basic terminal block with integrated filter which can be equipped with relay																																																																																																																																																																		
Maximum switching voltage	250 V AC/DC	30 V AC/36 V DC	250 V AC/DC	30 V AC/36 V DC	250 V AC/DC	48 V DC	33 V DC	253 V AC	300 V DC	48 V DC	33 V DC	24 V DC	24 V DC	The technical data depends on the assembly type (relay or solid-state relay)	The technical data depends on the assembly type (relay or solid-state relay)	The technical data depends on the assembly type (relay)	The technical data depends on the assembly type (relay)																																																																																																																																																																		
Limiting continuous current	6 A	50 mA	6 A	50 mA	10 A	100 mA	3 A	750 mA	1 A	500 mA	10 A	50 mA	50 mA																																																																																																																																																																						
Contact type	Single contact, 1 PDT	Single contact, 1 PDT	Single contact, 2 PDTs	Single contact, 2 PDTs	Single contact, 1 PDT																																																																																																																																																																														
Connection method:																																																																																																																																																																																			
- Screw connection																																																																																																																																																																																			
- Spring-cage connection																																																																																																																																																																																			
- Push-in connection (PT)																																																																																																																																																																																			
Input voltage	5 V DC																																																																																																																																																																																		
12 V DC	2966906	2967439	2900316	2966919	2967442	2900317	2967235	2912497	2900329	2967277	2912565	2900337	2967617	2912264	2900290	2967125	2912578	2900338	2967620	2912277	2900291	2967073	2912510	2900330	2967288	2912485	2900332	2967611	2912293	2900294	2967693	2912303	2900295	2967757	2912565	2900336	2967788	2912316	2900296	2967744	2912578	2900339	2967797	2912581	2900341	2967833	2912604	2900344	2967875	2912617	2900347	2967919	2912630	2900350	2967961	2912643	2900354	2968003	2912656	2900358	2968045	2912669	2900362	2968087	2912682	2900366	2968129	2912695	2900370	2968171	2912708	2900374	2968213	2912721	2900378	2968255	2912734	2900382	2968297	2912747	2900386	2968339	2912760	2900390	2968381	2912773	2900394	2968423	2912786	2900398	2968465	2912799	2900402	2968507	2912812	2900406	2968549	2912825	2900410	2968591	2912838	2900414	2968633	2912851	2900418	2968675	2912864	2900422	2968717	2912877	2900426	2968759	2912890	2900430	2968801	2912903	2900434	2968843	2912916	2900438	2968885	2912929	2900442	2968927	2912942	2900446	2968969	2912955	2900450	2969011	2912968	2900454	2969053	2912981	2900458	2969095	2912994	2900462	2969137	2913007	2900466	2969179	2913020	2900470	2969221	2913033	2900474	2969263	2913046	2900478	2969305	2913059	2900482	2969347	2913072	2900486	2969389	2913085	2900490	2969431	2913098	2900494	2969473	2913111	2900498	2969515	2913124	2900502	2969557	2913137	2900506	2969599	2913150	2900510	2969641	2913163	2900514	2969683	291317

	Electromechanical relays	Solid-state relays
Life expectancy	10 ⁶ –10 ⁷ cycles	10 ⁵ –10 ⁶ cycles
Switching speed	10 ² –10 ³ ms	10 ¹ –10 ² ms
Switching current	10 ¹ –10 ³ A	10 ¹ –10 ² A
Switching voltage	10 ¹ –10 ³ V	10 ¹ –10 ² V
Switching power	10 ¹ –10 ³ W	10 ¹ –10 ² W
Switching energy	10 ¹ –10 ³ J	10 ¹ –10 ² J
Switching frequency	10 ¹ –10 ² Hz	10 ¹ –10 ² Hz
Switching voltage drop	10 ¹ –10 ² V	10 ¹ –10 ² V
Switching current drop	10 ¹ –10 ² A	10 ¹ –10 ² A
Switching power drop	10 ¹ –10 ² W	10 ¹ –10 ² W
Switching energy drop	10 ¹ –10 ² J	10 ¹ –10 ² J
Switching frequency drop	10 ¹ –10 ² Hz	10 ¹ –10 ² Hz
Switching voltage drop	10 ¹ –10 ² V	10 ¹ –10 ² V
Switching current drop	10 ¹ –10 ² A	10 ¹ –10 ² A
Switching power drop	10 ¹ –10 ² W	10 ¹ –10 ² W
Switching energy drop	10 ¹ –10 ² J	10 ¹ –10 ² J
Switching frequency drop	10 ¹ –10 ² Hz	10 ¹ –10 ² Hz

Description	Value
Number of observations	60
Number of variables	7
Number of missing values	0
Number of unique values	10
Number of distinct values	10
Number of non-zero values	10
Number of zero values	0
Number of null values	0
Number of NaN values	0
Number of infinity values	0
Number of negative infinity values	0
Number of positive infinity values	0
Number of finite values	10
Number of integer values	10
Number of floating point values	0
Number of complex values	0
Number of string values	0
Number of boolean values	0
Number of categorical values	0
Number of numerical values	10
Number of datetime values	0
Number of timedelta values	0
Number of range values	0
Number of set values	0
Number of dictionary values	0
Number of array values	0
Number of scalar values	0
Number of object values	0
Number of other values	0

Description	PLC-R.../1/ACT Actuator series equipped with plug-in power contact relay	PLC-R.../11C/ACT Actuator series equipped with plug-in miniature relay for high inrush currents	PLC-O.../24DC/2/ACT Equipped with plug-in power solid-state relay	PLC-OSC.../230AC/1/ACT Actuator series equipped with plug-in power solid-state relay	PLC-R.../11AU/SEN Sensor series equipped with plug-in relay for low switching capacities, with gold-plated multi-layer contact	PLC-O.../48DC/100/SEN Sensor series equipped with plug-in input solid-state relay	PLC-S...ELR W 1/2-24DC Electronic reversing load relay for motors up to 24 V DC/2 A
Maximum switching voltage	250 V AC/DC	250 V AC/DC	33 V DC	253 V DC	30 V AC/36 V DC	48 V DC	30 V DC
Limiting continuous current	6 A	10 A	3 A	750 mA	50 mA	100 mA	2 A
Contact type	Single contact, 1 N/O contact	Single contact, 1 N/O contact			Single contact, 1 N/O contact		
Connection method: - Screw connection - Spring-cage connection (PT) - Push-in connection (PT)	  	  	  	  	  	  	  
Input voltage	5 V DC 24 V DC 48 V DC 120 V AC/DC 230 V AC/DC	2966210 2967345 2900312 2967604 2912413 2900298	2980144 2980157 2900375 2966676 2967507 2900376	2967947	2966317 2967374 2900313 2966320 2967390 2900314 2966333 2967413 2900315	2966773 2967578 2900358 2966799 2967581 2900359 2966809 2967594 2900361	2980539 2980555 2900377

Electromechanical relays	Solid-state relays	Solid-state relays
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LC-R...1AU/SEN			PLC-C...148DC/100/SEN			PLC-S...ELR W 1/2-24DC		
Sensor series equipped with plug-in relay for low switching capacities, with cold-plated multi-layer contact			Sensor series equipped with plug-in input solid-state relay			Electronic reversing load relay for motors up to 24 V DC/2 A		
0 V AC/36 V DC 0 mA Single contact, 1 N/O contact			48 V DC 100 mA			30 V DC 2 A		
								
966317	967374	2900313	2966773	2967578	2900358	2980539	2980555	2900377
966320	967390	2900314	2966799	2967581	2900359			
966333	2967413	2900315	2966809	2967594	2900361			

Solid-state relays		For "manual-0-automatic" mode

PLC-S-...ELR W 1/2-24DC Electronic reversing load relay for motors up to 24 V DC/2 A			PLC-RS-...24UC/1S-... Integrated relay and switch, operated manually or with screwdriver			PLC-S-...S-... Integrated switch, operated manually or with screwdriver					
Description			Description			Description					
30 V DC 2 A			24 V AC/DC 250 V AC/DC 6 A ≤ 72 V AC/DC/50 mA			- 72 V DC 50 mA ≤ 72 V DC/50 mA					
  			  			  					
2980539	2980555	2900377	Manual operation PLC-...S/H Operation with screwdriver PLC-...S/L			2982236	2982249	2900328	2980733	2980746	2900400
			2834876	2834889	2900327	2980775	2980788	2900401			

For "manual-0-automatic" mode

Description	PLC-RS...24UC/I/5... Integrated relay and switch, operated manually or with screwdriver	PLC-S...S/I... Integrated switch, operated manually or with screwdriver
Input voltage	24 V AC/DC	-
Maximum switching voltage	250 V AC/DC	72 V DC
Maximum switching current	6 A	50 mA
Confirmation	≤ 72 V AC/DC/50 mA	≤ 72 V DC/50 mA
Connection method: - Screw connection - Spring-cage connection - Push-in connection (PT)	  	  
Manual operation		
PLC...S/H Operation with screwdriver	2982236 2982249 2900328	2980733 2980746 2900400
PLC...S/L	2834876 2834889 2900327	2980775 2980788 2900401

For connection with system cabling

For 6.2 mm PLC-INTERFACE , with module width 49.6 mm		14-pos. flat-ribbon cable connection, 14-pin
Positive switching	OUTPUT	PLC-V8/FLK14/OUT
Negative switching	INPUT	PLC-V8/FLK14/IN
	OUTPUT	PLC-V8/FLK14/OUT/M
	INPUT	PLC-V8/FLK14/IN/M
For 6.2 mm PLC-INTERFACE , with module width 49.6 mm		15-pos. D-SUB connection,
Pin strip	OUTPUT	PLC-V8/D15/OUT
	INPUT	PLC-V8/D15/IN
Female connector	OUTPUT	PLC-V8/D15/OUT
	INPUT	PLC-V8/D15/IN
For 14 mm PLC-INTERFACE , with module width 112.3 mm		14-pos. flat-ribbon cable connection,
Positive switching	PLC-V8/FLK14/OUT	2295660
Negative switching	PLC-V8/FLK14/OUT/M	2304306

For equipping the PLC...SO46 and PLC...TTL/1 basic terminal blocks

PLC-B-...UC1/SEN/SO46	Type	Order No.
	REL-MR-60DC/21AU	2961134
	REL-MR-60DC/21	2961118
	OPT-60DC/48DC/100	2966621
	OPT-60DC/24DC/2	2966605
	OPT-60DC/230AC/1	2967963
PLC-BSC-...UC/21/21/SO46	Type	Order No.
	REL-MR-110DC/21-21AU	2961228
	REL-MR-110DC/21-21U	2961202
PLC-BSC-...UC/21/HC/SO46	Type	Order No.
	REL-MR-110DC/21HC	2961312
PLC-B-...TTL/1	Type	Order No.
	REL-MR-4.5DC/21AU	2961370
	REL-MR-4.5DC/21	2961367
	OPT-5DC/48DC/100	2967992
	OPT-5DC/24DC/2	2967989

Description	Color	Order No.
Power terminal for the supply of up		

Plug-in bridge , 2-pos., for connecting adjacent connections of a 14 mm PLC-INTERFACE	Black	2967691
		
Partition plate , 2 mm thick, to be installed at the start and end of every PLC terminal strip	Black	2966841
		
Passive feed-through bridge , can be inserted instead of a relay or solid-state relay, bridges terminal points A1 and 14	Black	2980283
		
Screwdriver , for wiring all PLC-INTERFACES with spring-cage, screw, and PT connections, length 180 mm, blade: 0.6 x 3.5 x 100	Black	1204517
		



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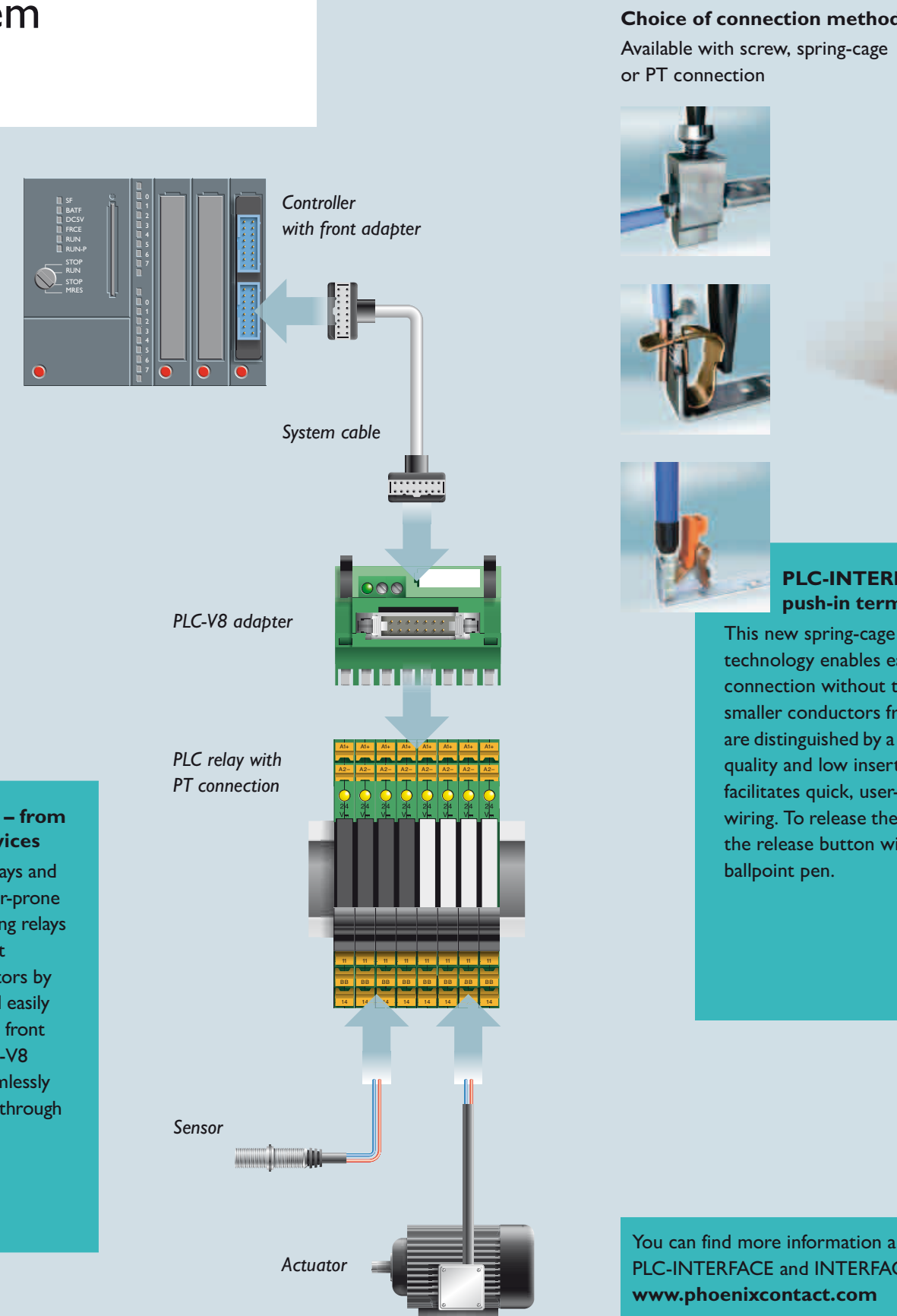
**PHOENIX
CONTACT**
INSPIRING INNOVATIONS

PLC-INTERFACE

The complete relay system

The PLC-INTERFACE relay system from Phoenix Contact acts as the high-performance interface between the controller and system I/O devices. PLC-INTERFACE provides you with a comprehensive range of ultra-narrow, plug-in relays and solid-state relays, plus a complete range of accessories. In addition, PLC sensor/actuator versions, switch modules, and filter series always provide the right interface for special applications. PLC-INTERFACE plus system cabling – fast plug-in connection of the controller and I/O devices.

Straightforward connection – from the controller to the I/O devices
Save time and costs with PLC relays and system cabling compared to error-prone individual wiring. Use PLC coupling relays with PT technology for the direct connection of sensors and actuators by simply inserting them quickly and easily without tools. Together with the front adapters, system cables, and PLC-V8 adapters, your wiring can be seamlessly plugged in – from the controller through to the I/O devices.



Choice of connection methods
Available with screw, spring-cage or PT connection



PLC-INTERFACE with push-in terminal

This new spring-cage connection technology enables easy, direct connection without tools, even with smaller conductors from 0.34 mm². They are distinguished by a high level of contact quality and low insertion forces. This facilitates quick, user-friendly, and secure wiring. To release the conductor, activate the release button with a screwdriver or ballpoint pen.

Integrated input circuit and protective circuit
No external wiring required

You can find more information about system cabling with PLC-INTERFACE and INTERFACE Cabling in our catalog or at www.phoenixcontact.com

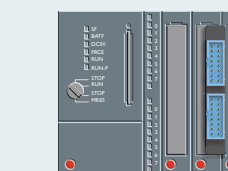
Professional marking
With standard marking materials

LED status indicator
Monitoring at a glance

Relay/solid-state relay
Easy to replace

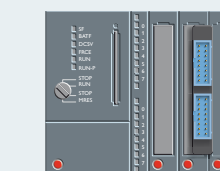
Plug-in bridges instead of wiring
Potential distribution saves time. Continuous bridge also suitable for mixed 6.2 mm/14 mm PLC structures.

PLC-INTERFACE series



PLC sensor and PLC actuator series

- Enormous savings in terms of time, space, and costs
- All connections for sensors and actuators directly on the coupling relay
- No additional modular terminal blocks for supply (sensor version) and output (actuator version)
- Available with screw, spring-cage or PT connection (same shape)
- With plug-in relay (white) or solid-state relay (black)



PLC universal series

- Can be used universally as input or output interface
- Available with screw, spring-cage or PT connection (same shape)
- With plug-in relay (white) or solid-state relay (black)
- Connection of sensors/actuators via modular terminal blocks

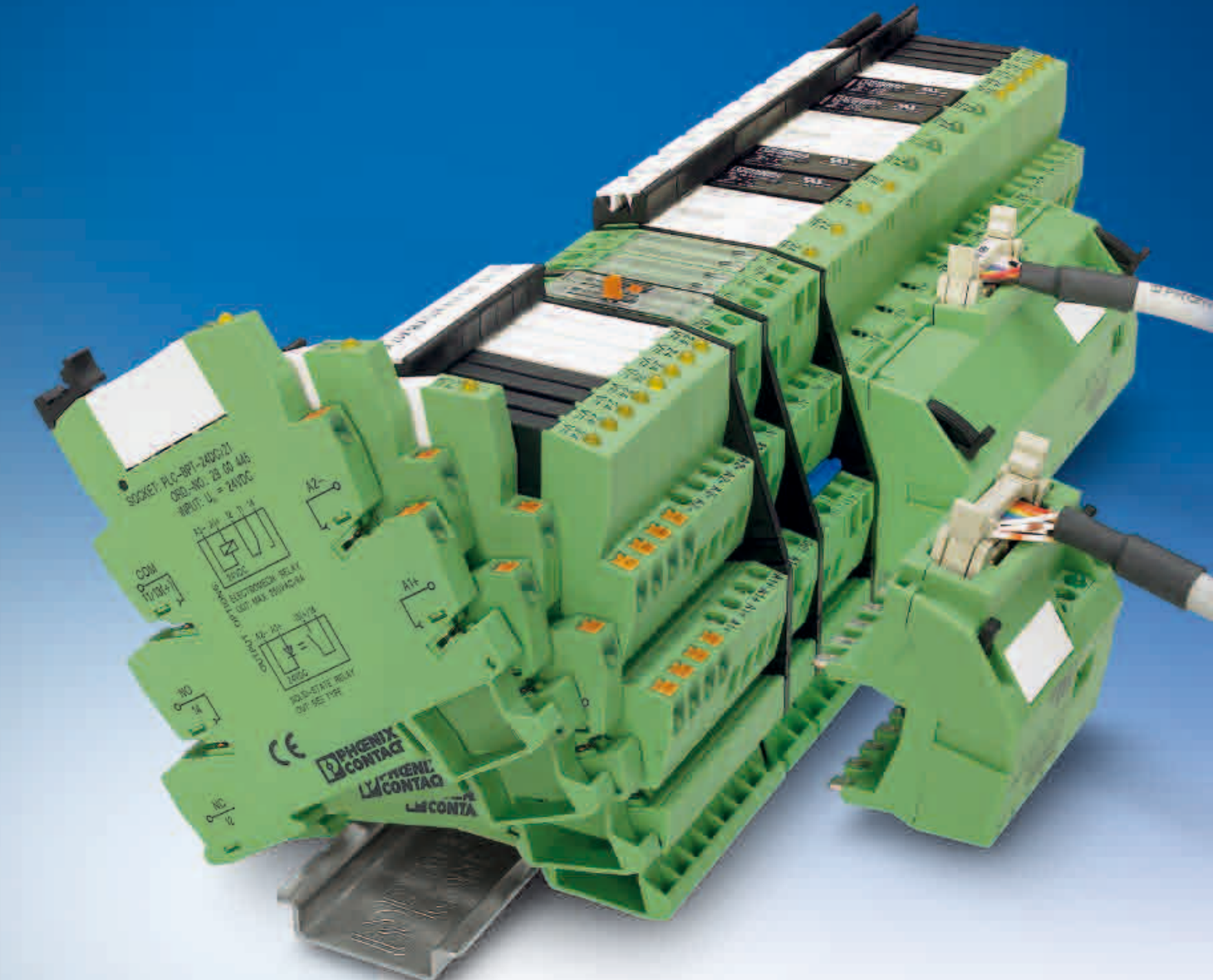
PLC-INTERFACE accessories - the complete range



- 1 Continuous or 2-pos. plug-in bridges
- 2 Power terminal
- 3 Labeling/marking
- 4 Partition plate
- 5 Relay and solid-state relay (plug-in)
- 6 PLC-V8 adapter for connection with system cabling

PLC-INTERFACE series for special applications

- **PLC railway** with extended temperature and input voltage range plus vibration resistance
- **PLC with integrated filter** for disturbances caused by AC leakage currents/long cables
- **PLC for high inrush or continuous currents** with lamp loads or electric heating systems
- **PLC-NAMUR** for NAMUR proximity sensors
- **PLC reversing load relay** for switching, reversing, and braking DC motors
- **PLC switch module** for MANUAL-0-AUTOMATIC functions



PLC-INTERFACE

The complete relay system



**Стандарт
Электрон
Связь**

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

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