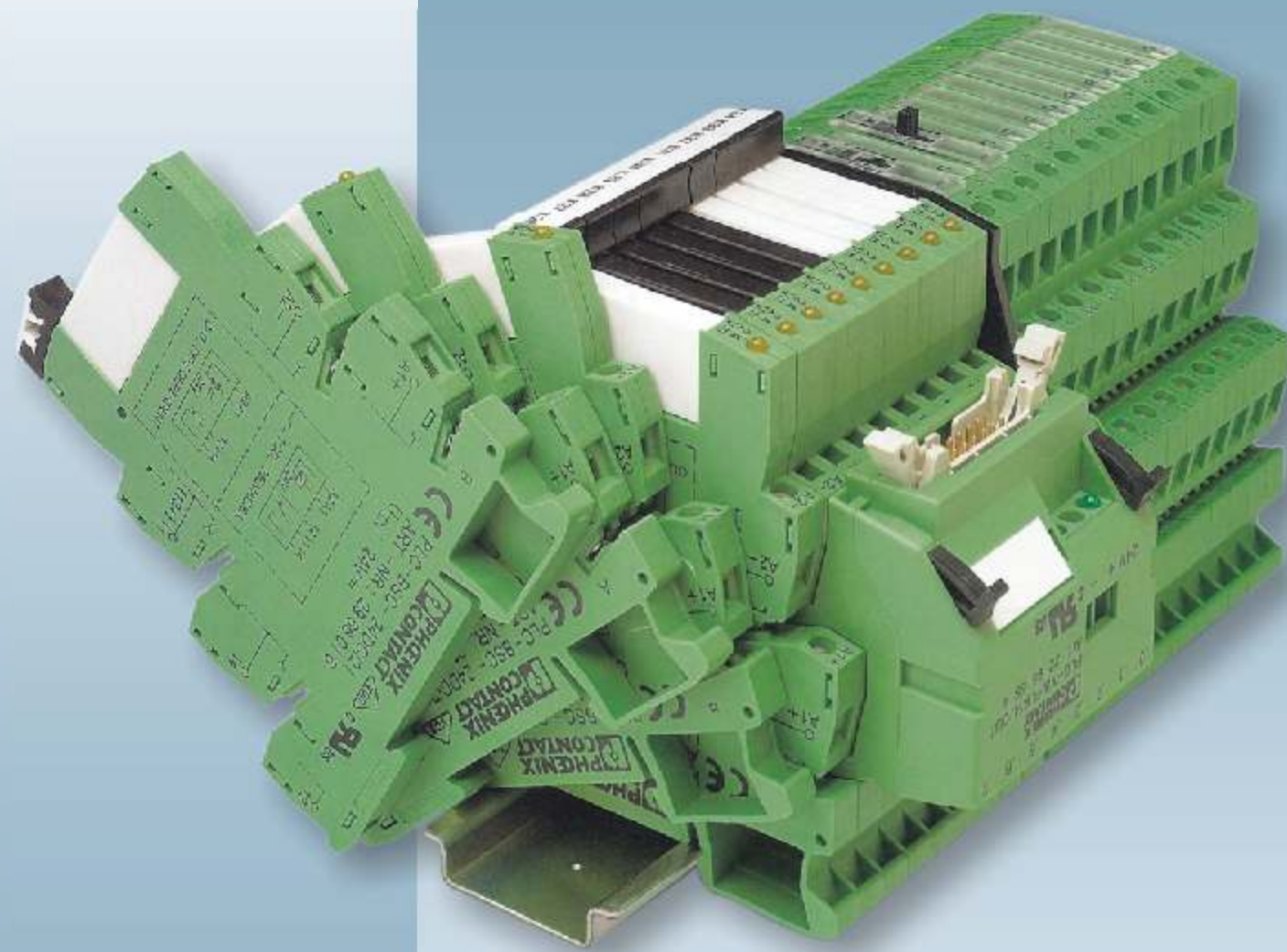


INTERFACE



PLC-RELAY Series
Compact relay and special function modules

PLC-RELAY – Signal interface for your control system

With the PLC-RELAY series, Phoenix Contact offers slim and powerful electro-mechanical and solid state relays, as well as special function modules.

The PLC-RELAY is the ideal interface between the control level and field devices for voltage matching, power gain and electrical isolation. There is a choice of screw or spring-cage connection technology.

- 1 PDT relay up to 250 V AC/10 A
- 2 PDT relay up to 250 V AC/6 A
- Solid-state relay up to 24 V DC/10 A up to 300 V DC/1 A up to 230 V AC/750 mA
- Electronic reversing load relay up to 24 V DC/2 A
- Wear-free, Opto-electronic PDT up to 48 V DC/500 mA
- Switch module for "Manual-0-Automatic" mode.



1 PDT, 1 electronic N/O contact
INTERFACE relay for universal use, 6.2 mm wide, for input and output functions.



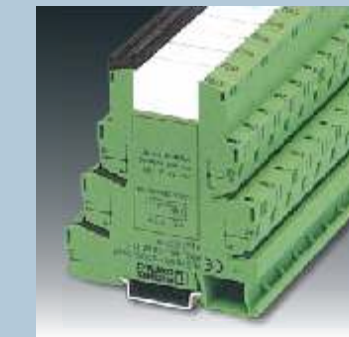
High inrush and continuous currents
Suitable for switching lamp loads or electrical heating systems, for example.



PLC switch module
For MANUAL-0-AUTOMATIC functions in conjunction with a relay/solid-state relay.



2 PDT
INTERFACE relay for universal use, 14 mm wide, for input and output functions.



With integrated filter
For use where there are interference voltages in long control cables or leakage currents.



PLC reversing load relay
For wear-free reversing and braking of mechanically commutated DC motors.



Sensor/Actuator series
Saves power and output terminal blocks.



With integrated electronics
Solid-state relay up to 300V DC/1 A, or 24V DC/10A and electronic PDT.



PLC-V8 adapter
Links 8 PLC-RELAYS to the PLC/DCS system cabling. Input or output functions.

PHOENIX CONTACT



CLIPLINE MODULAR TERMINAL BLOCKS
-screw Terminals
-Spring Terminals
-Quix
-Stud
-Marking & Mounting Material



TRABTECH SURGE VOLTAGE PROTECTION FOR
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-Signal Lines
-Data Lines
-Antenna Lines
-Checkmaster for on site testing



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-M 23 Round Connectors
-SACB Boxes
-Heavycon
-Variocon



INTERFACE SIGNAL LEVEL MATCHING
-Power Supply SMPs
-Relays & Safety Relays
-Signal Isolators & Converters
-Wireless Signal Transmission Devices
-Ex-Isolators



COMBICON PRINTED CIRCUIT BOARD CONNECTION SYSTEMS AND ELECTRONIC HOUSINGS
-Pluggable Connectors
-Direct PCB Connector
-Electronic Housing



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F-26/2, Okhla Industrial Area, Phase II
New Delhi 110 020 INDIA
Tel.: +91-11-41295700/800
Fax: +91-11-41611070
E-mail: postmaster@phoenixcontactin.com
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WESTERN INDIA OFFICE
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Andheri (E), Mumbai-400 072
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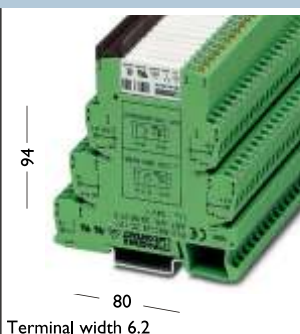
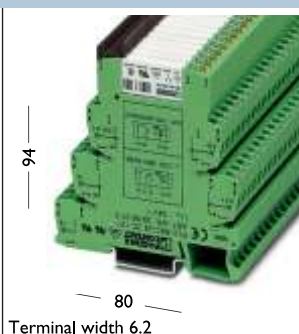
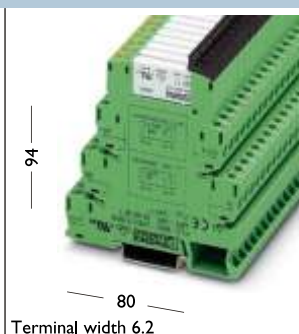
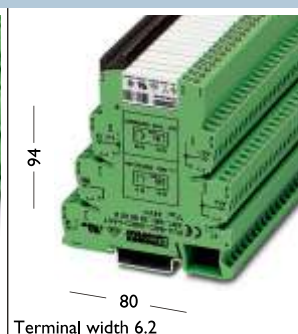
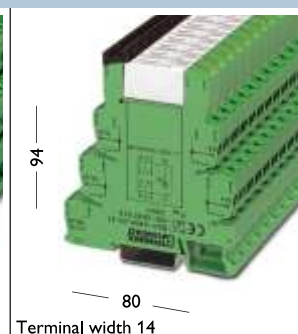
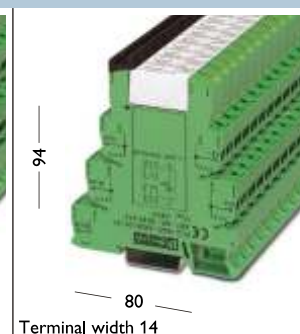
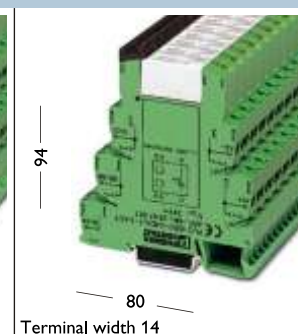
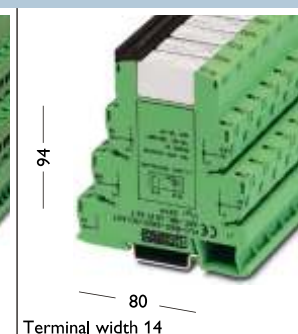
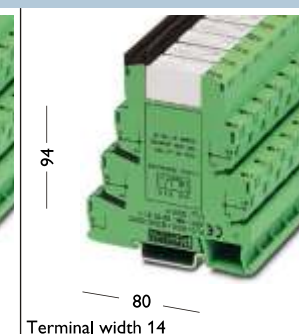
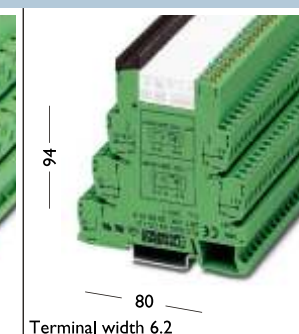
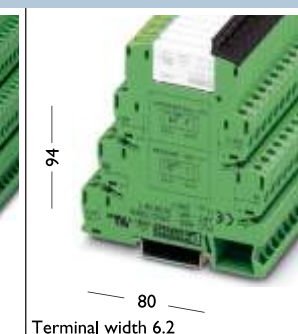
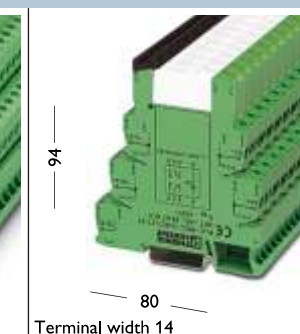
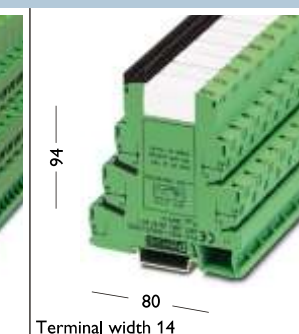
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302, City Point
Dhule Patil Road
Pune - 411 001
Tel.: +91-20-30523636
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The Complete Range at a Glance

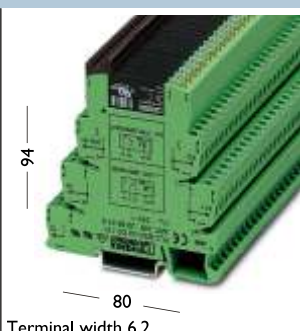
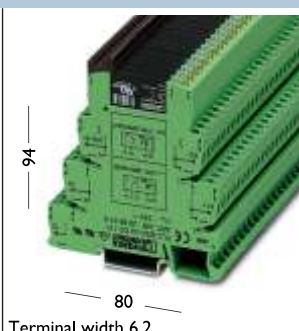
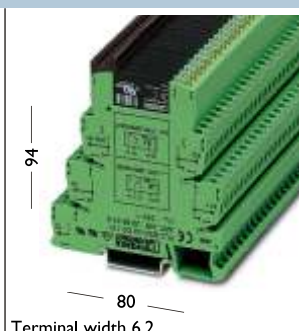
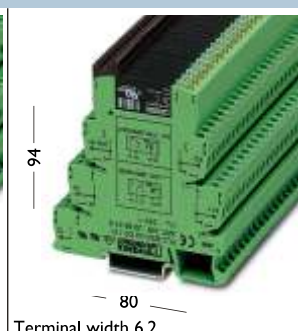
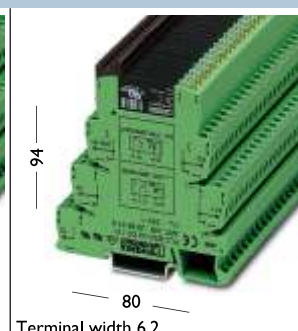
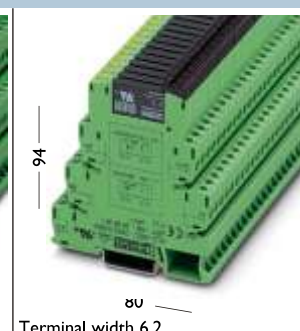
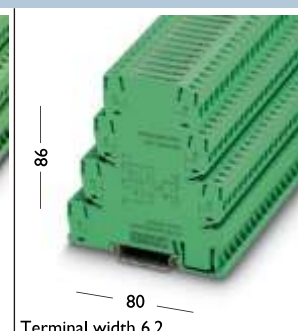
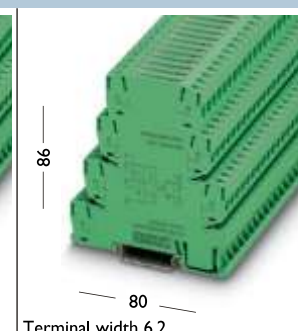
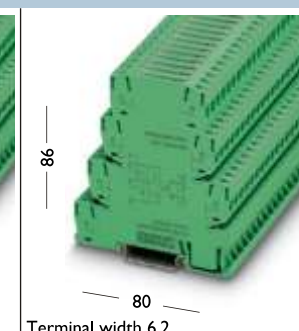
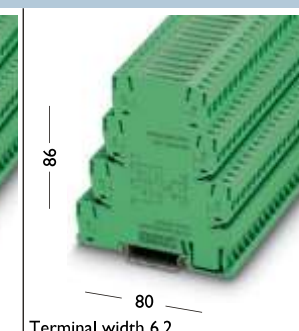
Electro-mechanical relay

																	
	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 14	Terminal width 14	Terminal width 14	Terminal width 14	Terminal width 14	Terminal width 6.2	Terminal width 6.2	Terminal width 14	Terminal width 14				
Description	PLC-R.../21 Equipped with plug-in power contact relay	PLC-R.../21AU Equipped with plug-in gold plated contact relay	PLC-R.../1AU/SEN Sensor series equipped with plug-in gold plated contact relay	PLC-R.../ACT Actuator series equipped with plug-in power contact relay	PLC-R.../21-21 Equipped with plug-in power contact relay	PLC-R.../21-21AU Equipped with plug-in gold plated contact relay	PLC-RSC.../1-1/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-R.../21HC Equipped with plug-in miniature relay for high continuous current	PLC-B...UC/21/SO46² Basic terminal block (without components) with integrated filter; to take relay or solid-state relay	PLC-B...UC/1/SEN/SO46² Basic terminal block (without components) with integrated filter; to take relay or solid-state relay	PLC-BSC...UC/21-21/SO46² Basic terminal block (without components) with integrated filter; to take relay	PLC-BSC...UC/21/HC/SO46² Basic terminal block (without components) with integrated filter to take relay				
Max. switching voltage	250 V AC/DC	30 V AC/36 V DC	30 V AC/36 V DC	250 V AC/DC	250 V AC/DC	30 V AC/36 V DC	250 V AC/DC	250 V AC/DC	250 V AC/DC	The technical data depends on the components mounted (relay or solid-state relay)		The technical data depends on the components mounted (relay)					
Limiting continuous current	6 A	50 mA	50 mA	6 A	6 A	50 mA	6 A	10 A	10 A	The technical data depends on the components mounted (relay or solid-state relay)		The technical data depends on the components mounted (relay)					
Contact type	Single contact, 1 PDT	Single contact, 1 PDT	Single contact, 1 PDT	Single contact, 1 N/O contact	Single contact, 2 PDT	Single contact, 2 PDT	Single contact, 2 N/O contact	Single contact, 1 N/O contact	Single contact, 1 PDT	The technical data depends on the components mounted (relay or solid-state relay)		The technical data depends on the components mounted (relay)					
Connection method:	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage			
Input voltage	12 V DC 24 V DC 24 V AC/DC 48 V DC 60 V DC 110 V DC 120 V AC 120 V AC/DC 220 V DC 230 V AC	2966906 2966171 2966184 2966113 2966139	2967439 2966472 2966485 2966498 2966511	2967442 2966540 2966553 2966566 2966579	2966317 2967374	2966210 2967345	2967235 2912497 2967060 2967073 2967248 2967293	2912565 2912507 2912510 2912523 2912536	2967277 2912497 2967125 2967112 2967280 2967303	2912264 2912277 2912280 2912293 2912303							
230 V AC/DC PLC-V8 adapter with FLK¹)	2966197 2966207 2295554	2966524 2966537 2295554	2966281 2966294 2295553	2966582 2966647 2295553	2966320 2967390	2967086 2967099 2299660	2912549 2912552 2299660	2967138 2967141 2299660	2912617 2912620 2299660	2967662 2967675 2299660	2912316 2912329 2299660	2980319 2980377 2295554	2980351 2980377 2295554	2980322 2980380 2296553	2980364 2980380 2296553	2980416 2980429 2299660	2980432 2980445 2299660

¹) Flat-ribbon cable plug connector.

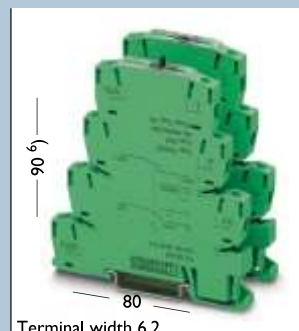
²) For possible components, see table above right.

Solid-state relays

																
	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2						
Description	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 Equipped with plug-in power solid-state relay	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-O.../48DC/100/SEN Sensor series equipped with plug-in input 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/10 Integrated solid-state relay with DC voltage output, max. 10 A	PLC-OSP...DC/24DC/3RW Integrated solid-state relay with DC voltage output (max. 3 A), for railway applications in acc. with EN 50155						
Max. switching voltage	48 V DC	33 V DC	253 V DC	33 V DC	253 V AC	48 V DC	300 V DC	48 V DC	33 V DC	33 V DC						
Limiting continuous current	100 mA	3 A	750 mA	3 A	750 mA	100 mA	1 A	500 mA	10 A	3 A						
Connection method:	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage	Screw	Spring-cage						
Input voltage	5 V DC 12 V DC 24 V DC 48 V DC 60 V DC 110 V DC 120 V AC 120 V AC/DC 125 V DC 220 V AC 230 V AC	2966728 2966993 2967455	2967549 2967743 2967756	2966634 2967002 2967468	2967471 2967727 2967730	2967840 2967853 2967866	2967895 2967905 2967918	2980144 2980157	2966773 2967578	2967947	2966773 2967578	2980652 2980814 2980665 2980827 2980678 2980830 2980681 2980843 2980694 2980856 2980717 2980872	2980636 2980649	2980571 2980584	2980513	2980526
230 V AC/DC PLC-V8 adapter with FLK¹)	2966744 2980047	2967552	2966650 2980050	2967484	2967879 2980063	2967921	2967999	2967581	2980704 2980869 2980720 2980885	2980869 2980885	2966809 2967594	2966553 2295554	2295554 2295554	2295554 2295554	2295554 2295554	2295554

¹) Flat-ribbon cable plug connector.


Switch module

	
	Terminal width 6.2
Description	PLC-S.../S/... With switch for Manual-0-Automatic mode
Max. switching voltage	72 V AC/DC
Max. switching current	50 mA
Max. no. of operating cycles	100³) / 10000⁴)
Feedback	≤ 72 V AC/DC / 50 mA⁵)
Connection method:	Screw
PLC-S.../S/H	2980733
PLC-S.../S/L	2980775
It is possible to combine the PLC switch terminal block with PLC-RELAY modules to realize "Manual", "0" and "Automatic" functions. The switch module is for applications in which switching is minimal, e.g. startup, tests, manual/emergency operation level. Operating mode "Automatic" is confirmed by a floating signal. Depending on the version, the operation is either by hand (PLC-S.../S/H) or with a screwdriver (PLC-S.../S/L).	





³) With 72 V AC/DC / 50 mA
⁴) With 12 V DC / 100 mA
⁵) Observe max. no. of operating cycles
⁶) PLC...H = 90 mm, PLC...L = 86 mm

Relay and solid-state relay

for mounting on basic terminal block PLC...SO46

			
	Terminal width 14	Terminal width 14	Terminal width 14
Basic terminal block	PLC-B...UC/21/SO46	PLC-B...UC/1/SEN/SO46	PLC-BSC...UC/21-21/SO46
Plug-in relay and solid-state relay	Type REL-MR-60DC/21AU REL-MR-60DC/21 OPT-60DC/48DC/100 OPT-60DC/24DC/2 OPT-60DC/230AC/1	Type REL-MR-60DC/21AU REL-MR-60DC/21 OPT-60DC/48DC/100 OPT-60DC/24DC/2 OPT-60DC/230AC/1	Type REL-MR-110DC/21-21AU REL-MR-110DC/21-21
Order No.	2961134 2961118 2966621 2966605 2967963	2961134 2961118 2966621 2966605 2967963	2961228 2961202
Order No.	2961338	2961338	2961338

PLC accessories

						
	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2	Terminal width 6.2
Description	Power terminal block, for the input of up to four potentials	Cont. plug-in bridge, 500 mm long, insulated, can be cut to length, for power distribution with PLC	Plug-in bridge, 2-pos., 6 mm long, insulated, for power distribution with PLC	Plug-in bridge, 2-pos., 8 mm long, insulated, for potential distribution with PLC with partition plate	Plug-in bridge, 2-pos., 14 mm long, insulated, for use in 14 mm PLCs	Partition plate, thickness 2 mm, required at the start and end of a PLC terminal strip
Description	Passive feed-through bridge, can be plugged in instead of relay or solid-state relay, bridges terminal points A1 and 14					
Order No.	2966508	2966786 2966692 2966838	2966236 2966812 2966825	2967688	2967691	2966841
Order No.	2980283					