

TYPE APPROVAL CERTIFICATE**DNV·GL**

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	11 253 - 14 HH
Company	PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 32825 Blomberg, GERMANY
Product Description	Coupling relay for safety-related switch on and safety-related switch off
Type	PSR-PC50-1NO-1DO-24DC-SC/SP, PSR-MC30-2NO-1DO-24DC-SC/SP PSR-PC40-2NO-1DO-24DC-SC/SP, PSR-PC20-1NO-1NC-24DC-SC/SP, PSR-PC20-1NO-1DO-24DC-SC, PSR-PS21-1NO-1NC-24DC-SC, PSR-PS40-1NO-1DO-24DC-SC
Environmental Category	C / EMC2
Technical Data / Range of Application	PSR-PC50-1NO-1DO-24DC-SC/SP Coupling relay can be used for power adaptation and electrical isolation in Safe-State-ON applications - Contact type: 1 signaling current path - Nominal input voltage UN: 24 V DC - Maximum switching voltage NO Output: 250 V AC / 125 DC - Minimum switching voltage NO Output: 15 V AC/DC, 20 V AC/DC with diagnostics - Limiting continuous current (N/O contact, N/C contact): 6 A - Minimum / Maximum inrush current: 100mA / 5 A - 1 Alarm output (digital), 23 V DC, max. 100 mA - SC: with screw connection/SP: with spring-cage connection Derating curve is to be observed
Test Standard	Guidelines for the Performance of Type Approvals, Chapter 2- Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2012
Documents	Test report : U140831E2, S140831E1, E140831E2, E140831E3, E151615E1, 2nd version, U151615E1, 2nd version Drawings and Documents according to submitted file and Document list 151615.
Remarks	Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

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PSR-MC30-2NO-1DO-24DC-SC/SP

Safety relay for emergency stop and safety doors.

- Contact type: 2 enabling current path, 2x two contacts in series
 - Cross circuiting detection
 - 1 two channel sensor circuit
 - Nominal input voltage UN: 24 V DC
 - Maximum switching voltage NO Output: 250 V AC/DC
 - Minimum switching voltage NO Output: 20V AC/DC
 - Limiting continuous current NO contact: 6 A
 - Minimum / Maximum inrush current NO contact: 3mA / 6 A
 - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
 - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

PSR-PC40-2NO-1DO-24DC-SC/SP

Safety Coupling relay high- and low-demand applications

- Contact type: 2 enabling current path, 2x two contacts in series
 - Integrated DCS test pulse filter, Low inrush current
 - Nominal input voltage UN: 24 V DC
 - Maximum switching voltage NO Output: 250 V AC/DC
 - Minimum switching voltage NO Output: 20V AC/DC
 - Limiting continuous current NO contact: 6 A
 - Minimum / Maximum inrush current NO contact: 3mA / 6 A
 - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
 - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

PSR-PC20-1NO-1NC-24DC-SC/SP

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path
 - Nominal input voltage UN: 24 V DC
 - Maximum switching voltage NO Output: 250 V AC/DC
 - Minimum switching voltage NO Output: 20V AC/DC
 - Limiting continuous current NO contact: 6 A
 - Minimum / Maximum inrush current NO contact: 3mA / 6 A
 - 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
 - Contact type: 1 confirmation current path (NC-Contact)
 - Minimum switching voltage NC-Contact: 20V DC
 - Maximum switching voltage NC-Contact: 26,4V DC
 - Limiting continuous current NC-Contact: 100mA
 - Minimum/Maximum inrush current NC-Contact: 1mA/100mA
 - SC: with screw connection/SP: with spring-cage connection
- Derating curve is to be observed

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PSR-PS20-1NO-1NC-24DC-SC

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, two NO contacts in series
- 1 undelayed confirmation current path
- Nominal input voltage UN: 24 V DC
- 1 digital signal output 24V/100mA
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- Active error acknowledgment via A1
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- Contact type: 1 confirmation current path (NC-Contact)
- Minimum switching voltage NC-Contact: 20V DC
- Maximum switching voltage NC-Contact: 26,4V DC
- Limiting continuous current NC-Contact: 100mA
- Minimum/Maximum inrush current NC-Contact: 1mA/100mA
- SC: with screw connection

Derating curve is to be observed

PSR-PS21-1NO-1NC-24DC-SC

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, one NO contact
- 1 undelayed confirmation current path
- Nominal input voltage UN: 24 V DC
- 1 digital signal output 24V/100mA
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- Contact type: 1 confirmation current path (NC-Contact)
- Minimum switching voltage NC-Contact: 20V DC
- Maximum switching voltage NC-Contact: 26,4V DC
- Limiting continuous current NC-Contact: 100mA
- Minimum/Maximum inrush current NC-Contact: 1mA/100mA
- SP: with spring-cage connection

Derating curve is to be observed

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PSR-PS40-1NO-1DO-24DC-SC

coupling relay can be used for power adaptation and electrical isolation in high and low-demand applications

- Contact type: 1 enabling current path, two NO contacts in series
- Nominal input voltage UN: 24 V DC
- one digital signal output 24VDC/100mA
- DCS testpulse filter
- Maximum switching voltage NO Output: 250 V AC/DC
- Minimum switching voltage NO Output: 20V AC/DC
- Limiting continuous current NO contact: 6 A
- Minimum / Maximum inrush current NO contact: 3mA / 6 A
- 1 Alarm output (digital, PNP), 22 V DC, max. 100 mA
- SC: with screw connection

Derating curve is to be observed

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