

DATA SHEET



Overload/reverse power relays, RMP-112D ANSI code 32

- Combined overload/reverse power
 - 3-phase measurement
 - LED indication of fault condition
 - Timer-controlled tripping
- LED indication for activated relay



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1. General information

1.1 Application and features

1.1.1 Application

The protective overload and reverse power relay type RMP-112D forms part of a complete DEIF series of relays for protection and control of generators and is applicable to both marine and land-based installations. Also available are overload relays (RMP-111D) and reverse power relays (RMP-121D).

The RMP-112D is type-approved by major classification societies and is applied for protection of the prime mover against overload and for protection against reverse power.

Protection of the prime mover against overload is especially required if this is undersized in proportion to the AC generator. Supervision of the reverse power will prevent a generator running in parallel with other generators from running as a motor - thus protecting the prime mover - and will at the same time ensure that the remaining generators connected to the system are not disconnected due to overload of these.

1.1.2 Measuring principle

The relay measures all 3-phase currents and phase voltages.

The TDM (Time-Division-Multiplication) principle ensures an accurate measurement of the RMS value of both the active power and the reverse power ($3 \times U \times I \times \cos{-\phi}$), irrespective of wave form and asymmetry.

The RMP-112D is available with the following couplings:

2W3 2-element 3-phase 3-wire, unbalanced load

3W3(4) 3-element 3-phase 3-wire (4-wire), unbalanced load

If either the power (P>) or the reverse power (-P>) exceeds its set point, the associated output is activated.

The set point values are set on the front of the relay by means of a potentiometer. If exceeded, a fault signal is generated, and the associated yellow LED is lit.

1.1.3 Timer functions

When the set point is exceeded, the associated timer starts and will run as long as the fault condition prevails. The delay does not depend on the exceeding of the set point.

If the fault disappears, the timer is reset. When the timer expires, the contact is activated and the associated red LED is lit.

1.1.4 Relay outputs

The RMP-112D is provided with two outputs:

- Overload, a maximum contact (normally energised or normally de-energised)
- Reverse power, a minimum contact (normally energised or normally de-energised)

The contacts may be set to open or to close on activation.

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Normally energised contact

Recommended for land-based installations for warning and alarm purposes.

In case of an auxiliary supply drop-out, the contact is immediately activated.

Normally de-energised contact

Recommended for marine installations for regulating and control purposes.

An auxiliary supply failure will not result in an unwanted activation of the contact.

Latch circuit

The contacts can be locked in their warning position, even if the input power returns to normal (add "L" to contact type in order specifications if this is required).

The latch circuit is reset by disconnecting the auxiliary supply.

Hysteresis

In order to avoid "chatter" on the relay contacts the contact functions are provided with a hysteresis, that is a difference of 2 % of full scale between energising and de-energising of the relay.

Power-up/power-down circuits

The RMP-112D is provided with a 200 ms power-up circuit, ensuring the correct function of the relay on connection of the auxiliary voltage.



INFO

Normally energised contacts are not activated (contact does not open/close) until 200 ms after connection of the auxiliary voltage.

Likewise, the RMP-112D is provided with a 200 ms power-down circuit, ensuring supervision and maintenance of any set point exceedings for 200 ms after disconnection of the auxiliary voltage.

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2. Technical information

2.1 Technical specifications and dimensions

2.1.1 Technical specifications

Adjusted range 75 to 100 % of I _n (for example 0.4, 0.45, etc.) (lowest meas. range: 0.3 A) 4 × I _n , continuously, 20 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 × I _n for 10 s (max. 75 A) 80 ×	Meas. current (I _n)	0.3-0.4-0.5-0.6-0.8-1.0-1.3-1.5-2.0-2.5-3.0-4.0-5.0 A AC UL/cUL Listed: 0.4 to 5.0 A AC
Overload 20 × I _{II} for 1 s (max. 75 A) 80 × I _{II} for 1 s (max. 300 A) Load Max. 0.5 VA per phase Meas. voltage (U _{II}) 57.7-63.5-100-110-127-200-220-230-240-380-400-415-440-450-480-660-690 V AC UL/cUL Listed: 57.7 to 450 V AC Overload 1.2 × U _{III} continuously, 2 × U _{III} for 10 s Load 2 kΩ/V Frequency range 40 to 45 to 65 to 70 Hz Outputs 1 max. and 1 min. contact Contact type Relays B + C: Normally energised ("NE"), or normally de-energised ("ND") with or without latch circuit ("L") Relay contact 1 change-over switch per contact Contact ratings 250 V AC/24 V DC, 8 A (200 x 10³ change-overs at resistive load) UL/cUL Listed: Resistive load only Contact voltage Max. 250 V AC/150 V DC Hysteresis 2 % of full scale (F.S.) Response time -400 ms Temperature -25 to 70 °C (-13 to 158 °F) (operating) UL/cUL Listed: Max. surrounding air temp. 60 °C/140 °F Tomperature drift Set points: Max. 0.2 % of full scale per 10 °C/50 °F Galv. separation Between inputs, outputs and aux. voltage: 3250 V - 50 Hz - 1 min. 577-63.5-100-110-127-220-230-240-380-400-415-440-450-480-660-690 V AC ±20 % (max. 3.5 VA	Adjusted range	
Meas. voltage (U _n) 57.7-63.5-100-110-127-200-220-230-240-380-400-415-440-450-480-660-690 V AC UL/cIUL Listed: 57.7 to 450 V AC Overload 1.2 × U _n , continuously, 2 × U _n for 10 s Load 2 kΩ/V Frequency range 40 to 45 to 65 to 70 Hz Outputs 1 max. and 1 min. contact Contact type Relays B + C: Normally energised ("NE"), or normally de-energised ("ND") with or without latch circuit ("L") Relay contact 1 change-over switch per contact Contact ratings UL/cUL Listed: Resistive load only Contact voltage Max. 250 V AC/24 V DC, 8 A (200 x 10³ change-overs at resistive load) UL/cUL Listed: Resistive load only Contact voltage Max. 250 V AC/150 V DC Hysteresis 2 % of full scale (F.S.) Response time <400 ms	Overload	20 × I _n for 10 s (max. 75 A)
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Hysteresis 2 % of full scale (F.S.) Response time <400 ms Temperature	Contact ratings	
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Galv. separationBetween inputs, outputs and aux. voltage: 3250 V - 50 Hz - 1 min.57.7-63.5-100-110-127-220-230-240-380-400-415-440-450-480-660-690 V AC ±20 % (max. 3.5 VA)24-48-110-220 V DC -25/+30 % (max. 2 W) UL/cUL Listed: Only 24 V DC and 110 V AC DC supply must be from a class 2 power sourceClimateHSE, to DIN 40040EMCTo IEC/EN 61000-6-1/2/3/4ConnectionsMax. 4.0 mm² (single-stranded) Max. 2.5 mm² (multi-stranded)MaterialsAll plastic parts are self-extinguishing to UL94 (V1)ProtectionCase: IP40. Terminals: IP20, to IEC 529 and EN 60529Type approvalThe Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Temperature	
Supply voltage (U _n) 57.7-63.5-100-110-127-220-230-240-380-400-415-440-450-480-660-690 V AC ±20 % (max. 3.5 VA) 24-48-110-220 V DC -25/+30 % (max. 2 W) UL/cUL Listed: Only 24 V DC and 110 V AC DC supply must be from a class 2 power source Climate HSE, to DIN 40040 EMC To IEC/EN 61000-6-1/2/3/4 Connections Max. 4.0 mm² (single-stranded) Max. 2.5 mm² (multi-stranded) Materials All plastic parts are self-extinguishing to UL94 (V1) Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 Type approval The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Temperature drift	Set points: Max. 0.2 % of full scale per 10 °C/50 °F
Supply voltage (Un) 24-48-110-220 V DC -25/+30 % (max. 2 W) UL/cUL Listed: Only 24 V DC and 110 V AC DC supply must be from a class 2 power source Climate HSE, to DIN 40040 EMC To IEC/EN 61000-6-1/2/3/4 Connections Max. 4.0 mm² (single-stranded) Max. 2.5 mm² (multi-stranded) Materials All plastic parts are self-extinguishing to UL94 (V1) Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 Type approval Type approval Type approval	Galv. separation	Between inputs, outputs and aux. voltage: 3250 V - 50 Hz - 1 min.
EMC To IEC/EN 61000-6-1/2/3/4 Connections Max. 4.0 mm² (single-stranded) Max. 2.5 mm² (multi-stranded) Materials All plastic parts are self-extinguishing to UL94 (V1) Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 Type approval The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Supply voltage (U _n)	24-48-110-220 V DC -25/+30 % (max. 2 W) UL/cUL Listed: Only 24 V DC and 110 V AC
Connections Max. 4.0 mm² (single-stranded) Max. 2.5 mm² (multi-stranded) Materials All plastic parts are self-extinguishing to UL94 (V1) Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 Type approval The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Climate	HSE, to DIN 40040
Max. 2.5 mm² (multi-stranded) Materials All plastic parts are self-extinguishing to UL94 (V1) Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 Type approval The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	EMC	To IEC/EN 61000-6-1/2/3/4
Protection Case: IP40. Terminals: IP20, to IEC 529 and EN 60529 The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Connections	
Type approval The Uni-line components are approved by the major classification societies. For current approvals see www.deif.com or contact DEIF A/S.	Materials	All plastic parts are self-extinguishing to UL94 (V1)
www.deif.com or contact DEIF A/S.	Protection	Case: IP40. Terminals: IP20, to IEC 529 and EN 60529
UL Listed only on request	Type approval	
	UL markings	UL Listed only on request

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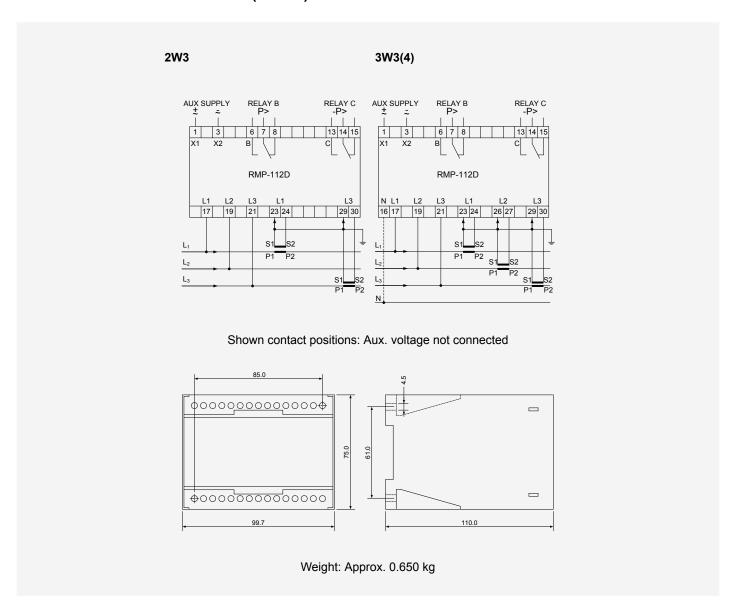
UL Listing will be lost if the product is re-customised outside DEIF DK's production plant Wiring: Use 60/75 °C (140/167 °F) copper conductors only Wire size: AWG 12-16 or equivalent Installation: To be installed in accordance with the NEC (US) or the CEC (Canada)

2.1.2 Settings and indication

Setting of	LED/relay
Overload set point: (25 to 125 %) of P _n	"P>" yellow LED is lit when the set point has been exceeded, but the output contact not yet activated.
Reverse power set point: (0 to 25 %) of P_n	"-P>" yellow LED is lit when the set point has been exceeded, but the output contact not yet activated.
For both: Time delay: (0 to 20 s) in seconds	Contact is activated and red LED lit after the timer has expired.

The relay is furthermore equipped with a green LED marked "POWER" for indication of power ON. Once the relay has been mounted and adjusted, the transparent front cover may be sealed to prevent unwanted change of the setting.

2.1.3 Connections/dimensions (in mm)



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3. Ordering information

3.1 Order specifications and disclaimer

3.1.1 Available variants

Item no.	Variant no.	Variant description
2913310120	01	RMP-112D - DC supply
2913310120	02	RMP-112D - AC supply

3.1.2 Order specifications



INFO

There are no additional options to the standard variant.

Variants

Mandatory information								
Item no.	Туре	Variant no.	Coupling	Measuring power (P _n)	Measuring voltage	Relay B	Relay C	Supply voltage

Example:

Mandatory information								
Item no.	Туре	Variant no.	Coupling	Measuring power (P_n)	Measuring voltage	Relay B	Relay C	Supply voltage
2913310120-02	RMP-112D	02	3W3	0 to 100 W	3 × 110 V AC	ND	ND	230 V AC



INFO

Measuring power (P_n) = Primary power / (CT ratio × VT ratio)

3.1.3 Disclaimer

DEIF A/S reserves the right to change any of the contents of this document without prior notice.

The English version of this document always contains the most recent and up-to-date information about the product. DEIF does not take responsibility for the accuracy of translations, and translations might not be updated at the same time as the English document. If there is a discrepancy, the English version prevails.

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