# Installations- / Monitoring Technique

## VARIMETER RCM

**Residual Current Monitor, Type B for AC and DC Systems RN 5883** 



## **Product Description**

The AC/DC sensitive residual current monitor RN 5883 allows an early detection of insulation faults and detects differential currents with AC as well as DC components in grounded voltage systems (type B). The measurement takes place via an external current transformer.

Contrary to an RCD the residual current monitor RN 5883 does not disconnect the mains when detecting a fault but only indicates it. Besides the easy to read LED chain indicating the actual current several LEDs display operation, pre-alarm and alarm. The 4 measuring ranges cover 10 to 3 A. Additional features are broken wire detection, test function and adjustable pre-alarm.

The residual current monitor RN 5883 provides early information for precise and cost effective maintenance before the plant stops.



Connection Terminals				
Terminal designation	Signal description			
A1, A2	Auxiliary voltage U <sub>H</sub>			
i1, k1, i2, k2	Connection of an external residual current transformer			
X1, X2	Parameterization input energized or de-energized on trip			
11, 12, 14	Contacts alarm signal			
21, 22, 24	Contacts pre-alarm signal			
U-, U+	Analogue output (option)			

## Translation of the original instructions



#### Your Advantage

- Preventive fire and system protection
- Increasing the availability of plants by early fault detection
- Universal usage at AC/DC mains
- Protection against manipulation by sealable transparent cover over setting switches

## Features

- According to IEC/EN 62020, VDE 0663
- For AC and DC systems Type B
- To detect earth faults in grounded voltage systems
- 4 setting ranges from 10 mA to 3 A
- Manual reset, with alarm and pre-warning
- With adjustable switching delay
- Energized or de-energized on trip LED indicator for operation, pre-alarm and alarm
- With test function
- LED-chain indicates fault current
- As option with analogue output
- Broken wire detection
- Width: 52.5 mm

#### **Approvals and Markings**



1) RN 5883 Variant /61; 2) ND 5015

#### Application

The residual current monitor type B is designed to monitor DC systems and AC systems up to 250 Hz.

Indication	
Green LED "ON":	On, when auxiliary supply connected
Yellow LED "Pre-Alarm"	:Flashes during time delay $t_{\rm v}$ On, when pre-alarm active
Red LED "Alarm":	Flashes during time delay ${\rm t_{v}}$ On, when alarm active
Yellow and red LED:	Flashes on broken wire or extremely high input signal
Yellow LED-chain:	LED chain indicates fault current in % of adjusted alarm value

#### Notes

1

The devices measure AC and DC current (AC / DC sensitive). Due to the measurement principle they also detect magnetic fields in the next to the current transformer.

When planning a panel with AC/DC sensitive residual current monitors please make sure that no components are placed next to the CT that create a magnetic field, e.g. contactors, transformers etc.

If an influence is detected, also a rotation of the CT by 90 °C could positively reduce the influence.

	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I - Alarm value — Papae v Factor
LED "ON"	DOLD & IA: Range × Factor (A)	A. Hann value – Hange X Factor
LED "Pre-Alarm"	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	e.g.: $I_A = 0,01A \times 6 = 60mA$
LED "Alarm"	80 Alarm	$I_A = Alarm relay trips at 60mA LED chain shows at that$
LED chain	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	moment 100% t, : Response delay reacts on Alarm
$I_{pA}$ : Pre-Alarm $I_{pA} = IA x Setting in %$	40         IpA:         ty [s]           30         Value x % x IA           20	and Pre-Alarm
e.g.: $I_{pA} = 60$ mA x 50% = 30mA Pre-alarm relay trins at 30mA	10 Test [% IA] IF RN5883 0066688	<pre>&lt;3s = Reset fault memory &gt;3s = Devise test</pre>
LED chain shows at that moment 50%	Alarm Pre-Alarm Analog out	
RN 5883.12/001		
	M11736_a	

It is of advantage to keep the range small and the Factor high. Example: Setting 300 mA: Range 0,1 x Factor 3 = 300 mA

#### Function

The Measuring circuit includes an external residual current transformer. All conductors of a voltage system are fed through the transformer except the ground wire. In a healthy system the sum of all flowing currents is zero, so that no voltage is induced in the CT. If an earth fault occurs, sourcing a current flowing to ground, the current difference induces a current in the CT that is detected by the RN 5883.

If an earth fault occurs, sourcing a current flowing to ground, the current difference induces a current in the CT that is detected by the RP 5883.

On broken sensor wires and broken CT coils the unit goes into alarm state and the LEDs for pre-alarm (yellow) and alarm (red) flashes.

The unit has 2 changeover output contacts. One for alarm 11, 12, 14 and 21, 22, 24 and one for pre-alarm.

4 Setting Ranges can be slected from 10 mA to 3 A. The fine adjustment is made via potentiometer "Factor"

Measuring range = Range x Factor.

The alarm relay switches at 100 % of the adjusted response value.

The pre-alarm can be set in 10% steps between 10 and 100% of the alarm value.

Potentiometer  $t_{_{\rm v}}$  sets the switching delay between 0 and 10 seconds. The delay reacts on pre-alarm and alarm.

The different CT sizes require a correct adaption of the residual current monitor. 3 models are available:

Туре	Suitable residual current transformer	Frequeny range
RN 5883.12/61	ND 5015/024	DC + AC up to 250 Hz
	ND 5015/035	
RN 5883.12/010/61	ND 5015/070	DC + AC up to 180 Hz
	ND 5018/105	
RN 5883.12/020	ND 5018/140	DC + AC up to 60 Hz
	ND 5018/210	

Table 1

An external link on X1-X2 allows the change between energized and de-energized on trip. A change of the function will only be valid after interruption of the supply voltage.

Ferminal X1 / X2:	External link	=	De-energized on trip,
	Open	=	Energized on trip

De-energized on trip: In the case of groundfault or missing auxiliary supply the relays are de-energized, the NC contacts 11/12; 21/22 are closed In fault free state the relays are energized,

the NO contacts 11/14; 21/24 are closed

Energized on trip: In the case of groundfault the relays are energized, the NO contacts 11/14; 21/24 are closed

In fault free state the relays are de-energized, the NC contacts 11/12; 21/22 are closed

If an adjusted value is reached on the measuring input (alarm or prewarning)at the standard type RN 5883 the signal is stored. Reset is made by pressing the button "Test/Reset" for < 3 s s or by disconnecting the auxiliary supply (approx. 30 s).

If the "Test/Reset" button is pressed for > 3 s, a test of the unit is made. The time delays run, the pre-warning and alarm is activated.

An LED chain shows the fault current between 10 and 100 % of the adjusted alarm value.

An analogue output 0 ... 10 V indicates also the fault current. 10 V corresponds to 100 % of the adjusted alarm value.

Technical Data		Technical Data	
Input		EMC	
Auxiliary voltage U <sub>H</sub> :	AC/DC 24 80 V, AC/DC 80 230 V	Surge voltages: Electrostatic discharge:	Class 3 (5 kV / 0.5 J) DIN VDE 0435-303 8 kV (air) IEC/EN 61000-4-2
at $U_{\mu} = AC/DC 24 \dots 80 V$ :	DC 19 110 V, AC 19 90 V,	80 MHz 2.7 GHz:	20 V / m (class 3) IEC/EN 61000-4-3
At U <sub>H</sub> = AC/DC 80 230 V:	DC 64 300 V, AC 64 265 V	HF-wire guided:	10 V (class 3) IEC/EN 61000-4-6
Nominal frequency U <sub>H</sub> :	AC 50 / 60 Hz	Fast transients:	2 kV (class 3) IEC/EN 61000-4-4
at AC.	5 VA	Interference suppression:	Limit value class B FN 55011
At DC:	2.5 W	Degree of protection	
Measuring range:	10 100 mA, 30 300 mA,	Housing:	IP 30 (not sealed) IEC/EN 60529
Meeowing renge	100 1000 mA, 300 3000 mA		IP 40 (sealed with
measuring range	1 10		The unit must be
Max. overload:	With overload protection		disconnected from the
Alarm:	100 % of the adjusted measuring range		power supply before
Pre-alarm:	10, 20, 30, 40, 50, 60, 70, 80, 90, 100 %	Townsingles	the seal is applied
Frequency range:	of the adjusted alarm value $DC$ and $AC$ to 250 Hz <sup>*</sup>	Housing:	IP 20 IEC/EN 60529
requeitoy range.	*) depending on the differential current	nousing.	according UL subject 94
	transformer used. See "Function" Table 1.	Vibration resistance:	Amplitude 0.35 mm
Repeat accuracy:	$\leq \pm 3\%$		frequency 10 55 Hz IEC/EN 60068-2-6
Reaction time:	≤±0.1 % / K 300 ms	Terminal designation:	40 / 60 / 03 IEC/EN 60068-1 EN 50005
Switching delay	000 m3	Wire connection:	DIN 46228-1/-2/-3/-4
Pre-alarm / alarm:	0 10 s	Fixed screw terminals	
Outrout		Cross section:	0.5 4 mm <sup>2</sup> (AWG 20 - 10) solid or
Output			stranded wire without ferrules
Contacts:	1 changeover contact for pre-alarm,		0.5 2.5 mm <sup>2</sup> (AWG 20 - 10)
	1 changeover contact for alarm		stranded wire with ferrules
Thermal current I <sub>th</sub>	5 4	Stripping length:	6.5 mm
Up to 40 °C:	4 A	Fixing torque:	0.5 Nm
Up to 60 °C:	2 A	Mounting:	DIN rail IEC/EN 60715
Switching capacity		Weight:	Approx. 160 g
al AO 15.			
NO contact:	3 A / AC 230 V IEC/EN 60947-5-1	Dimensions	
NO contact: NC contact: Electrical life	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1	Dimensions	52 5 x 90 x 71 mm
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V:	3 A / AC 230 V         IEC/EN 60947-5-1           1 A / AC 230 V         IEC/EN 60947-5-1           3 x 10 <sup>5</sup> switch. cycl.         IEC/EN 60947-5-1	Dimensions Width x height x depth:	52.5 x 90 x 71 mm
NC contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength	3 A / AC 230 V       IEC/EN 60947-5-1         1 A / AC 230 V       IEC/EN 60947-5-1         3 x 10 <sup>5</sup> switch. cycl.       IEC/EN 60947-5-1         4 A cC / cl.       IEC/EN 60947-5-1	Dimensions Width x height x depth:	52.5 x 90 x 71 mm
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life:	$\begin{array}{ll} 3 \ A \ / \ AC \ 230 \ V \\ 1 \ A \ / \ AC \ 230 \ V \\ 1 \ EC \ EN \ 60947-5-1 \\ EC \ EN \ 60947-5-1 \\ \end{array}$ $\begin{array}{ll} 3 \ x \ 10^5 \ switch. \ cycl. \\ 4 \ A \ gG \ / \ gL \\ > \ 10^8 \ switching \ cycles \\ \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883	52.5 x 90 x 71 mm
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life:	$\begin{array}{ll} 3 \mbox{ A / AC } 230 \mbox{ V } & IEC/EN \ 60947-5-1 \\ IEC/EN \ 60947-5-1 \\ 3 \mbox{ x } 10^5 \mbox{ switch. cycl. } & IEC/EN \ 60947-5-1 \\ 4 \mbox{ A gG / gL } & IEC/EN \ 60947-5-1 \\ \geq 10^8 \mbox{ switching cycles} \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor	52.5 x 90 x 71 mm residual currents and are not intended to
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option)	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UI 1053 / UI 943	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-:	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V: 5 mA	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UL1053 / UL943.	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-:	$\begin{array}{cccc} 3 & A & / & AC & 230 & V & IEC/EN & 60947-5-1 \\ 1 & A & / & AC & 230 & V & IEC/EN & 60947-5-1 \\ 3 & x & 10^5 & switch. & cycl. & IEC/EN & 60947-5-1 \\ 4 & A & gG & / & gL & IEC/EN & 60947-5-1 \\ \geq & 10^8 & switching & cycles \\ \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UL1053 / UL943. These devices have been inver-	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-:	$\begin{array}{cccc} 3 & A & / & AC & 230 & V \\ 1 & A & / & AC & 230 & V \\ 3 & x & 10^5 & switch. & cycl. & IEC/EN & 60947-5-1 \\ 4 & A & gG & / & gL \\ ≥ & 10^8 & switching & cycles \\ \end{array}$ $\begin{array}{cccc} 0 & \dots & 10 & V; & 5 & mA \\ variant & RN & 5883/1 \\ Screened & wire; & screen & one & end grounded \\ st & dwire; & be & be \\ \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61. ND	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, /5015/035/61 or ND5015/070/61.
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-:	$\begin{array}{c} 3 \text{ A} / \text{AC } 230 \text{ V} \\ 1 \text{ A} / \text{AC } 230 \text{ V} \\ 1 \text{ EC/EN } 60947-5-1 \\ 1 \text{ EC/EN } 60947-5-1 \\ \end{array}$ $\begin{array}{c} 3 \text{ x } 10^5 \text{ switch. cycl.} & \text{IEC/EN } 60947-5-1 \\ 4 \text{ A } \text{ gG } / \text{ gL} \\ 10^8 \text{ switching cycles} \end{array}$ $\begin{array}{c} \text{IEC/EN } 60947-5-1 \\ \text{EC/EN } 60947-5-$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61, ND	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, /5015/035/61 or ND5015/070/61.
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-: <u>General Data</u>	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor to be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61, ND Supply voltage U <sub>N</sub> :	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, i5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz:
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode:	$\begin{array}{c} 3 \text{ A} / \text{AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 1 \text{ A} / \text{AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 3 \text{ x } 10^5 \text{ switch. cycl.} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 4 \text{ A } \text{gG } / \text{gL} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ \geq 10^8 \text{ switching cycles} \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor of be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61, ND Supply voltage U <sub>N</sub> :	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range	3 A / AC 230 V IEC/EN 60947-5-1 IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor in be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61, ND Supply voltage U <sub>N</sub> :	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation:	$\begin{array}{cccc} 3 & A & / & AC & 230 & V & IEC/EN & 60947-5-1 \\ 1 & A & / & AC & 230 & V & IEC/EN & 60947-5-1 \\ 3 & x & 10^5 & switch. & cycl. & IEC/EN & 60947-5-1 \\ 2 & A & gG & / & gL & IEC/EN & 60947-5-1 \\ \geq & 10^8 & switching & cycles & & & \\ \end{array}$	Dimensions Width x height x depth: UL-Data RN 5883 These devices only monitor in be used as Ground Fault Circ UL1053 / UL943. These devices have been inve- current transformers manufact Cat. Nos. ND5015/024/61, ND Supply voltage U <sub>N</sub> :	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation:	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) 40 + 65 °C (variant /_04)	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circult 1053 / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, i5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 50/60 Hz
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-: <u>General Data</u> Operating mode: Temperature range Operation: Storage:	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant /004) - 40 + 70 °C	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor to be used as Ground Fault Circul 1053 / UL943.         These devices have been invector of transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays         Ambient temperature 30°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, i5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-: <u>General Data</u> Operating mode: Temperature range Operation: Storage: Relative air humidity:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circu UL1053 / UL943.         These devices have been invector car. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp
NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude:	$\begin{array}{l} 3 \ A \ / \ AC \ 230 \ V \\ 1 \ A \ / \ AC \ 230 \ V \\ IEC \ EN \ 60947 - 5 - 1 \\ IEC \ EN \ 60947 - 5 - 1 \\ \end{array}$ $\begin{array}{l} 3 \ x \ 10^5 \ switch. \ cycl. IEC \ EN \ 60947 - 5 - 1 \\ A \ gG \ / \ gL \\ \ge \ 10^8 \ switching \ cycles \\ \end{array}$ $\begin{array}{l} IEC \ EN \ 60947 - 5 - 1 \\ IEC \ EN \ 60947 - 5 - 1 \\ \ge \ 10^8 \ switching \ cycles \\ \end{array}$	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circu UL1053 / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P.
A NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC coccet 1.	$\begin{array}{llllllllllllllllllllllllllllllllllll$	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circult053 / UL943.         These devices have been invector of the current transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 2A pilot duty
A NO 101. NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-: <u>General Data</u> Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with	$\begin{array}{l} 3 \text{ A / AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 1 \text{ A / AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 3 \text{ x } 10^5 \text{ switch. cycl.} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 4 \text{ A } \text{gG / gL} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ \geq 10^8 \text{ switching cycles} \end{array}$	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorer transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays         Ambient temperature 30°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp
A NO 103. NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: <u>Analogue Output (option)</u> Terminal U+ / U-: <u>General Data</u> <u>Operating mode:</u> Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant /004) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 60°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, i5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P.
A NO contact: NO contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage /	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant /004) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circul UL 1053 / UL943.         These devices have been invectorer transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 1/2hp 2A, 250Vac G.P.
A NO contact: NO contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage / pollution degree: Auxiliary voltage (Mease circuit):	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m 0 5018 6 kV / 2	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circult 1053 / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:         Ambient temperature 60°C:         Analogue output	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P.
A NO contact: NO contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage / pollution degree: Auxiliary voltage / Meas. circuit: Auxiliary voltage / Contacts:	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant /004) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m 0 5018	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:         Ambient temperature 60°C:         Analogue output (only at variant/_1):	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P. 0 10V, 5mA
A NO contact: NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage / pollution degree: Auxiliary voltage / Meas. circuit: Auxiliary voltage / Analoge output	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant //04) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m 25018 6 kV / 2 6 kV / 2 6 kV / 2	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays         Ambient temperature 30°C:         Ambient temperature 60°C:         Analogue output (only at variant/1):         Max. measuring frequency:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P. 0 10V, 5mA DC, AC (0 – 250Hz)
A NO contact: NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Altitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage / pollution degree: Auxiliary voltage / Meas. circuit: Auxiliary voltage / Analoge output: Contacts / Analoge output:	3 A / AC 230 V IEC/EN 60947-5-1 1 A / AC 230 V IEC/EN 60947-5-1 3 x 10 <sup>5</sup> switch. cycl. IEC/EN 60947-5-1 4 A gG / gL IEC/EN 60947-5-1 ≥ 10 <sup>8</sup> switching cycles 0 10 V; 5 mA variant RN 5883/1 Screened wire; screen one end grounded at device to PE Continuous - 40 + 60 °C - 20 + 60 °C (variant /_1_ and /_2_) - 40 + 65 °C (variant /004) - 40 + 70 °C 93 % at 40 °C ≤ 2000 m 25018 6 kV / 2 6 kV / 2 6 kV / 2	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:         Ambient temperature 60°C:         Analogue output (only at variant/1):         Max. measuring frequency:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, (5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P. 0 10V, 5mA DC, AC (0 – 250Hz) AWG 20, 12
A NO 10. NO contact: NC contact: Electrical life to AC 15 at 1 A, AC 230 V: Short circuit strength max. fuse rating: Mechanical life: Analogue Output (option) Terminal U+ / U-: General Data Operating mode: Temperature range Operation: Storage: Relative air humidity: Attitude: Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, NE Rated impuls voltage / pollution degree: Auxiliary voltage / Analoge output: Contacts / Analoge output: Meas. circuit / Analoge output: Contacts 11, 12, 14/21, 22, 24	$\begin{array}{c} 3 \text{ A} / \text{ AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ 1 \text{ A} / \text{ AC } 230 \text{ V} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ \end{array} \\ 3 \text{ x } 10^5 \text{ switch. cycl.} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ \hline 4 \text{ A } \text{ gG } / \text{ gL} & \text{IEC/EN } 60947\text{-}5\text{-}1 \\ \hline 2 10^8 \text{ switching cycles} \\ \end{array}$	Dimensions         Width x height x depth:         UL-Data RN 5883         These devices only monitor in be used as Ground Fault Circultors / UL943.         These devices have been invectorrent transformers manufact Cat. Nos. ND5015/024/61, ND         Supply voltage U <sub>N</sub> :         Switching capacity relays Ambient temperature 30°C:         Ambient temperature 40°C:         Ambient temperature 60°C:         Analogue output (only at variant/1):         Max. measuring frequency:         Wire connection:	52.5 x 90 x 71 mm residual currents and are not intended to cuit Interrupter (GFCI) in accordance with stigated to be used with external differential tured by E. Dold & Söhne GmbH & Co. KG, 5015/035/61 or ND5015/070/61. AC/DC 24-80V single or double phase 50/60 Hz; AC/DC 80-230V single or double phase 50/60 Hz 5A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 4A, 250Vac G.P. 250 Vac, 2A pilot duty 250 Vac, 1/2hp 2A, 250Vac G.P. 0 10V, 5mA DC, AC (0 – 250Hz) AWG 20 - 12 60°C / 75°C copper conductors only



in the technical data section. u in the UL vata,

#### CCC-Data RN 5883

Insulation coordination according to IEC 60664-1: RN 5883 cennected with current transformer ND 5015, ND 5018 Rated impuls voltage / pollution degree: Auxiliary voltage / Meas. circuit: 4 kV / 2 Auxiliary voltage / Contacts: 4 kV / 2 Auxiliary voltage / Analoge output: 4 kV / 2 Contacts / Analoge output: 4 kV / 2 Meas. circuit / Analoge output: 4 kV / 2 Contacts 11,12,14 / 21, 22, 24: 4 kV / 2

## Standard Type

Article number:	0066451	
RN 5883.12/61	AC/DC 80 230 V 50 / 60 Hz	

For residual current transformer ND 5015/024 and ND 5018/035

AC/DC 80 ... 230 V

52.5 mm

- Alarm und Pre-alarm
- Energized or de-energized on trip
- Without analogue output
- Auxiliary voltage U<sub>H</sub>:
- Width:

ND 5015/035/61

- Article number: 0066841 Residual current transformer for RN 5883
- Diameter: 35 mm

Variants

#### For residual current transformer ND 5015/024 und ND 5015/035: RN 5883.12/001/61: With analogue output 0 ... 10 V

RN 5883.12/800/61:	Fixed values,	without	analogue	output
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RN 5883.12/802/61:	Fixed values, without analogue output; with bridge on X1/X2: - Alarm: Energized on trip - Pre-alarm: De-energized on trip Without bridge: - Alarm: De-energized on trip - Pre-alarm: Energized on trip
RN 5883.12/004:	Pre-alarm message and Alarm message not storing, reset time 2 s

#### For residual current transformer ND 5015/070:

DN 5002 10/011/61	With analogue output 0 10 V
1111 3003.12/011/01.	with analogue output 0 TO v

#### For residual current transformer ND 5018/105, ND 5018/140, ND 5018/210:

RN 5883.12/021: With analogue output 0 ... 10 V

## Ordering example for variants



UL-Daten ND 5015

Wire connection:

AWG 24 - 16 60°C / 75°C copper conductors only



Technical data that is not stated in the UL-Data, can be found in the technical data section.

Accessories

#### Residual Current Monitor ND 5015/024, ND 5015/035



For DIN rail mounting or screw mounting

ND 5015/024	øD	L	L1	В	Н	С	Е	F	k
Dimensions/mm	24	82	75	24	54	25	42*	46	4.2
Weight / g				Ap	prox.	80			
ND 5015/035	øD	L	L1	В	Н	С	Е	F	k
Dimensions/mm	35	88	81	24	67	25	42*	46	4.2
Weight / g				Ap	prox.	90			

\*) Drill tolerance for screw mounting:  $\pm 0.5$  mm

Technical Data Residual Current Monitor ND 5015, ND 5018					
Ambient temperature: Inflammability class:	- 40 + 60 °C / 233 K 333 K V0 according to UL94				
Insulation coordination a	ccording to IEC 61869-1				
Highest rated operating vo Rated impulse voltage:	Itage U <sub>m</sub> : AC 720 V 3 kV				
Length of connection wires Type of wire to CT, e.g. Single wire: Single wire twisted pair (pa Screened wire; screen one Wire cross section: Stripping length:	Up to 1 m uir 1: i1 - k1; pair 2: i2 - k2): Up to 10 m end grounded at device to PE: Up to 25 m 0.2 1.5 mm <sup>2</sup> 8 mm				
<b>ND 5015:</b> Wire fixing:	Terminals with spring connection and direct (Push in) technology				
Actuation power: DIN rail mounting:	40 N max. Integrated clips for vertical and horizontal mounting				
Screw fixing: Fixing torque:	M3 or M4 Max. 0.8 Nm				
ND 5018: Wire fixing:	Flat terminals with self-lifting clamping piece				

Screw fastening: (only at ND 5018/105, ND 5018/140, ND 5018/210) M 5

#### Accessories











ØD

Residual Current Monitor ND 5018/105, ND 5018/140, ND 5018/210,



For DIN rail mounting or screw mounting

ND 5015/070	øD	L	Н	H1	В	С	F	k	E	G
Dimensions/mm	70	111	110	115	32	37	55	4.2	50*	74*
Weight / g	Approx. 220									

 $^{*)}$  Drill tolerance for screw mounting:  $\pm\,0.5$  mm

For screw mounting

ND 5018/105	øD	L	В	Н	С	D	Е	F	k	m
Dimensions/mm	105	170	33	146	38	94	46	61	6.5	16
Weight / g	530									
ND 5018/140	øD	L	В	Н	С	D	Е	F	k	m
Dimensions/mm	140	220	33	196	48.5	123	46	61	6.5	16
Weight / g	1250									
ND 5018/210	øD	L	В	Н	С	D	Е	F	k	m
Dimensions/mm	210	299	33	284	69	161	46	61	6.5	16
Weight / g	2100									

#### Mounting instructions for screw mounting

High forces when mounting may damage the current transformer fixtures. The fixing clips are designed to support the current transformer. Forces that are applied by the cable running through the current transformer can only be tolerated within limitations. During installation and afterwards please make sure that the wires are

During installation and afterwards please make sure that the wires are led through the current transformer without applying pressure and remain stable in that position.

The residual current transformer ND 5018/105 can also be mounted on DIN-rail. To do this the metal screw fixings have to be removed and have to be replaced by 2 mounting clips

(ET5018: Art.no. 0058754; set with 2 pcs)

## Accessories

## Residual Current Monitor ND 5018/105





## Disassembling Residual Current Monitor ND 5015/024 and /035



Disassembling Residual Current Monitor ND 5015/070



For DIN rail mounting

ND 5018/105	øD	L	В	Н	G
Dimensions/mm	105	170	33	146	55
Weight / g	530				

### Note for accessoires



The listed current transformers are only approved for operation with this unit.

## Installation of Wires



## **Connection Example**



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