

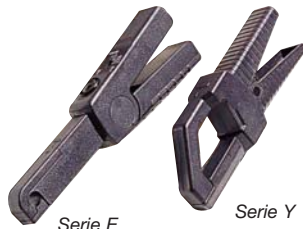
## AUSWAHLÜBERSICHT FÜR ZANGENSTROMWANDLER IEC 61010



Serie D



Serie B



Serie E



Serie Mini

Serie Y

Serie MN



Serie K



Serie PAC



Serie C "100"

*Durch Innovation, technisches Know-how, hohe Produktqualität und strengste Einhaltung der Normen wurde Chauvin Arnoux zum weltweit anerkannten Spezialisten für Zangenstromwandler. Das Gesamtangebot auf den nächsten beiden Seiten deckt die Anforderungen aller Kunden ab.*

### ■ Die Auswahlkriterien für einen Zangenstromwandler sind vielfältig

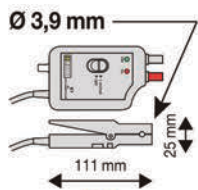
Viele Fragen, viele Antworten: Art des zu messenden Stroms: AC oder DC? Messumfang: kleinste, größte Stromstärke? Abmessungen der zu umschließenden Leiter oder Kabel? Frequenzbereich der AC-Ströme? Erfüllung von Sicherheitsnormen?

### ■ Um den für Sie bestgeeigneten Zangenstromwandler zu finden, schauen Sie einfach in der Übersicht auf den folgenden beiden Seiten nach und orientieren Sie sich an den 6 farblich gekennzeichneten Hauptkriterien.

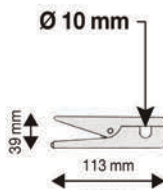
Merken Sie sich zunächst alle Zangen, die das erste Kriterium (blau) erfüllen, dann diejenigen die auch das zweite erfüllen usw... So gelangen Sie mühelos zu dem Zangenstromwandler, der allen Ihren Anforderungen entspricht.

Für das dritte Kriterium „Abmessungen des Leiters“ sollten Sie sich die Abbildungen unten zuerst ansehen:

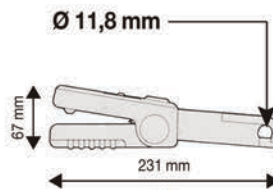
### ■ Abmessungen des Leiters



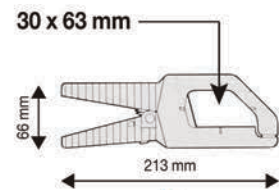
K1



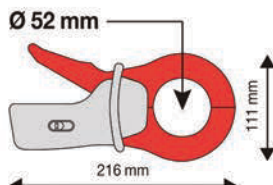
MINI



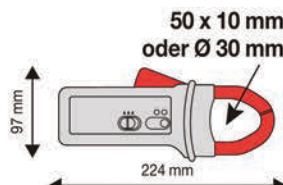
E



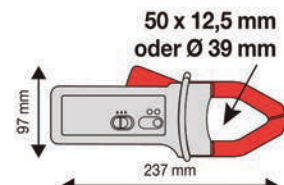
Y



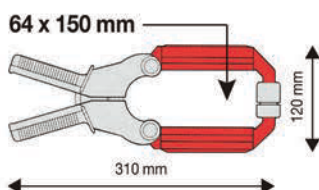
C "100"



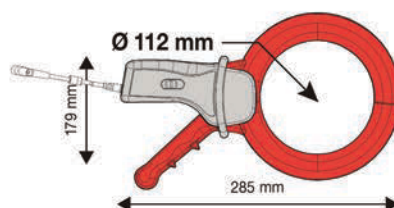
PAC 10 / 11 / 12



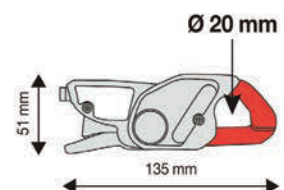
PAC 20 / 21 / 22



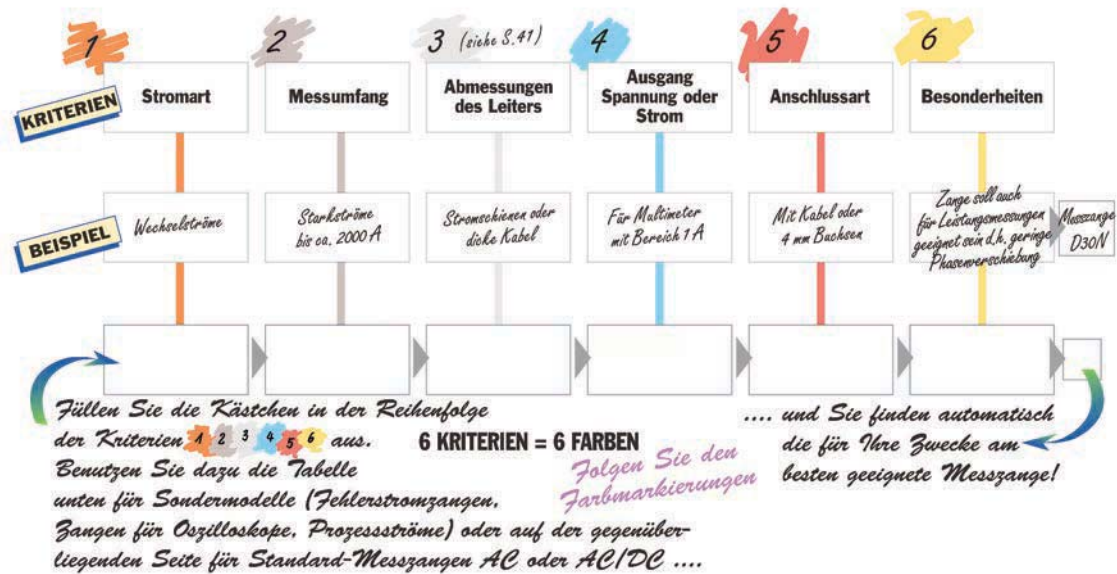
D



B 102



MN



| AC/DC-Strommessung                                                                  |        | EINGANG                                                                                                                                                                        |   |   | AUSGANG / ANSCHLUSS                 |   |   | BESONDERHEITEN          |   |                          | Best.-Nr         | Zubehör<br>Netzadapter<br>Best.-Nr |           |
|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-------------------------------------|---|---|-------------------------|---|--------------------------|------------------|------------------------------------|-----------|
| Serie                                                                               | Modell | Messumfang <sup>(1)</sup>                                                                                                                                                      |   |   |                                     |   |   |                         |   |                          |                  |                                    |           |
|                                                                                     |        | <div><div><div>Sehr geringe Ströme</div><div>Kleine Ströme</div><div>Mittlere Ströme</div><div>Hohe Ströme</div><div>~ (AC)</div><div>⋯ (DC)</div><div>Strom</div></div></div> |   |   |                                     |   |   |                         |   |                          |                  |                                    |           |
|  | K1     | 1 mA...4,5 A DC<br>1 mA...3 A RMS<br>1 mA...4,5 A Spitze                                                                                                                       | ● | ● | 4,5 V DC<br>3 V RMS<br>4,5 V Spitze | ● |   | 1 mA/1 mV               |   | DC...2 kHz               | ≤ 1%             | P01120067A                         | P01101966 |
|                                                                                     | K2     | 0,1...450 mA DC<br>0,1...300 mA RMS<br>0,1...450 mA Spitze                                                                                                                     | ● | ● | 4,5 V DC<br>3 V RMS<br>4,5 V Spitze | ● |   | 1 mA/10 mV              |   | DC...1,5 kHz             | ≤ 1%             | P01120074A                         | P01101966 |
|  | E1N    | 0,05...2 A DC<br>0,05...1,5 A AC<br>0,5...150 A AC/DC                                                                                                                          | ● | ● | 2 V DC<br>1,5 V AC<br>150 mV AC/DC  | ● |   | 1 A/1 V<br>1 A/1 mV     |   | DC...2 kHz<br>DC...8 kHz | ≤ 2%<br>≤ 1,5%   | P01120030A                         | P01101965 |
|                                                                                     | E3N    | 0,05...10 A Spitze<br>1...100 A Spitze                                                                                                                                         | ● | ● | 1 V Spitze                          |   | ● | 1 A/100 mV<br>1 A/10 mV |   | DC...100 kHz             | ≤ 3%<br>≤ 4%     | P01120043A                         | P01101965 |
|                                                                                     | E6N    | 5 mA...2 A DC<br>5 mA...1,5 A AC<br>20 mA...80 A AC/DC                                                                                                                         | ● | ● | 2 V DC<br>1,5 V AC<br>0,8 V AC/DC   | ● |   | 1 A/1 V<br>1 A/10 mV    |   | DC...2 kHz<br>DC...8 kHz | ≤ 2%<br>≤ 4%     | P01120040A                         | P01101965 |
|  | PAC10  | 0,5...400 A AC<br>0,5...600 A DC                                                                                                                                               | ● | ● | 600 mV AC/DC                        | ● |   | 1 A/1 mV                |   | DC...5 kHz               | ≤ 2%             | P01120070                          | P01101967 |
|                                                                                     | PAC11  | 0,2...40 A AC<br>0,4...60 A DC<br>0,5...400 A AC<br>0,5...600 A DC                                                                                                             | ● | ● | 600 mV AC/DC                        | ● |   | 1 A/10 mV<br>1 A/1 mV   | ● | DC...10 kHz              | ≤ 1,5%<br>≤ 2%   | P01120068                          | P01101967 |
|                                                                                     | PAC12  | 0,2...60 A Spitze<br>0,4...60 A DC<br>0,5...600 A Spitze<br>0,5...600 A DC                                                                                                     | ● | ● | 600 mV AC/DC                        |   | ● | 1 A/10 mV<br>1 A/1 mV   | ● | DC...10 kHz              | ≤ 1,5%<br>≤ 2%   | P01120072                          | P01101967 |
|  | PAC 20 | 0,5...1000 A AC<br>0,5...1400 A DC                                                                                                                                             | ● | ● | 1,4 V AC/DC                         | ● |   | 1 A/1 mV                |   | DC...5 kHz               | ≤ 2%             | P01120071                          | P01101967 |
|                                                                                     | PAC 21 | 0,2...100 A AC<br>0,4...150 A DC<br>0,5...1000 A AC<br>0,5...1400 A DC                                                                                                         | ● | ● | 1,4 V AC/DC                         | ● |   | 1 A/10 mV<br>1 A/1 mV   | ● | DC...10 kHz              | ≤ 1,5%<br>≤ 2,5% | P01120069                          | P01101967 |
|                                                                                     | PAC 22 | 0,2...150 A Spitze<br>0,4...150 A DC<br>0,5...1400 A Spitze<br>0,5...1400 A DC                                                                                                 | ● | ● | 1,4 V AC/DC                         |   | ● | 1 A/10 mV<br>1 A/1 mV   | ● | DC...10 kHz              | ≤ 1,5%<br>≤ 2,5% | P01120073                          | P01101967 |

(1) Der obere Wert entspricht 120% des max. Nennwerts (2) AC-Signale werden durch Dioden gerichtet (3) bei Bezugsbedingungen / Einzeldaten auf Anfrage

## AC-Strommessung

| Messung                                                                             |                                                            | EINGANG                                                      |               |                 |             |                    | AUSGANG / ANSCHLUSS              |                                                                           |                                                |                                     |                                            | BESONDERHEITEN |                                                                                                                                             |                          |            |                                     |
|-------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|---------------|-----------------|-------------|--------------------|----------------------------------|---------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------|-------------------------------------|
| Serie                                                                               | Modell                                                     | Messumfang <sup>(1)</sup>                                    |               |                 |             |                    | Spannung                         | Kabel Ø 4 mm Sicherheitsstecker<br>Ø 4 mm Buchsen<br>BNC (Koaxialstecker) |                                                |                                     | Übersetzungsverhältnis (Eingang / Ausgang) |                | Ausgang mit Überspannungsschutz<br>Automatischer DC-Nulabgleich<br>Für Leistungsmessung (geringe Phasenverschiebung)<br>Betriebsfrequenz Hz |                          |            | Typische Genauigkeit <sup>(2)</sup> |
|                                                                                     |                                                            | Sehr geringe Ströme                                          | Kleine Ströme | Mittlere Ströme | Hohe Ströme | ~ (AC)<br>... (DC) |                                  | Strom                                                                     |                                                |                                     |                                            |                |                                                                                                                                             |                          |            |                                     |
|    | MINI 01                                                    | 2 A...150 A                                                  |               |                 |             | 0,15 A AC          |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 48 Hz...500 Hz                                                                                                                              | ≤ 2,5%                   | P01105101Z |                                     |
|                                                                                     | MINI 02                                                    | 50 mA...100 A                                                |               |                 |             | 0,15 A AC          |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 48 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01105102Z |                                     |
|                                                                                     | MINI 03                                                    | 1 A...100 A                                                  |               |                 |             |                    | 0,1 V AC                         |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 48 Hz...500 Hz                                                                                                                              | ≤ 2%                     | P01105103Z |                                     |
|                                                                                     | MINI 05                                                    | 5 mA...10 A<br>1 A...100 A                                   |               |                 |             |                    | 10 V AC<br>0,1 V AC              |                                                                           |                                                | 1 mA/1 mV<br>1 A/1 mV               |                                            |                | 48 Hz...500 Hz                                                                                                                              | ≤ 3%<br>≤ 2%             | P01105105Z |                                     |
|                                                                                     | MINI 09                                                    | 1 A...150 A                                                  |               |                 |             |                    | 15 V DC <sup>(2)</sup>           |                                                                           |                                                | 1 A/100 mV DC                       |                                            |                | 48 Hz...500 Hz                                                                                                                              | ≤ 4%                     | P01105109Z |                                     |
|    | MN08                                                       | 0,5...240 A                                                  |               |                 |             | 0,2 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120401  |                                     |
|                                                                                     | MN09                                                       | 0,5...240 A                                                  |               |                 |             | 0,2 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120402  |                                     |
|                                                                                     | MN10                                                       | 0,5...240 A                                                  |               |                 |             | 0,2 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 2%                     | P01120403  |                                     |
|                                                                                     | MN11                                                       | 0,5...240 A                                                  |               |                 |             | 0,2 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 2%                     | P01120404  |                                     |
|                                                                                     | MN12                                                       | 0,5...240 A                                                  |               |                 |             |                    | 2 V AC                           |                                                                           |                                                | 1 A/10 mV                           |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120405  |                                     |
|                                                                                     | MN13                                                       | 0,5...240 A                                                  |               |                 |             |                    | 2 V AC                           |                                                                           |                                                | 1 A/10 mV                           |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120406  |                                     |
|                                                                                     | MN14                                                       | 0,5...240 A                                                  |               |                 |             |                    | 0,2 V AC                         |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120416  |                                     |
|                                                                                     | MN15                                                       | 0,5...240 A                                                  |               |                 |             |                    | 0,2 V AC                         |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120417  |                                     |
|                                                                                     | MN21                                                       | 0,1...240 A                                                  |               |                 |             | 0,2 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 2%                     | P01120418  |                                     |
|                                                                                     | MN38                                                       | 0,1...24 A<br>0,5...240 A                                    |               |                 |             |                    | 2 V AC<br>2 V AC                 |                                                                           |                                                | 1 A/100 mV<br>1 A/10 mV             |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120407  |                                     |
|                                                                                     | MN39                                                       | 0,1...24 A<br>0,5...240 A                                    |               |                 |             |                    | 2 V AC<br>2 V AC                 |                                                                           |                                                | 1 A/100 mV<br>1 A/10 mV             |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120408  |                                     |
|                                                                                     | MN60                                                       | 0,1...60 A Spitze<br>0,5...600 A Spitze                      |               |                 |             |                    | 2 V AC<br>2 V AC                 |                                                                           |                                                | 1 A/100 mV<br>1 A/10 mV             |                                            |                | 40 Hz...40 kHz                                                                                                                              | ≤ 2%<br>≤ 1,5%           | P01120409  |                                     |
|                                                                                     | MN71                                                       | 10 mA...12 A                                                 |               |                 |             |                    | 1 V AC                           |                                                                           |                                                | 1 A/100 mV                          |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120420  |                                     |
|                                                                                     | MN73                                                       | 10 mA...2,4 A<br>100 mA...240 A                              |               |                 |             |                    | 2 V AC<br>2 V AC                 |                                                                           |                                                | 1 mA/1 mV<br>1 A/10 mV              |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 1%<br>≤ 2%             | P01120421  |                                     |
|                                                                                     | MN89                                                       | 0,5...240 A                                                  |               |                 |             |                    | 20 V DC <sup>(2)</sup>           |                                                                           |                                                | 1 A/100 mV                          |                                            |                | 40 Hz...10 kHz                                                                                                                              | ≤ 2%                     | P01120415  |                                     |
|  | Y1N                                                        | 4 A...600 A                                                  |               |                 |             | 0,5 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 3%                     | P01120001A |                                     |
|                                                                                     | Y2N                                                        | 4 A...600 A                                                  |               |                 |             | 0,5 A AC           |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 1%                     | P01120028A |                                     |
|                                                                                     | Y3N                                                        | 4 A...600 A                                                  |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 100/1                               |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 3%                     | P01120029A |                                     |
|                                                                                     | Y4N                                                        | 4 A...600 A                                                  |               |                 |             |                    | 0,5 V DC <sup>(2)</sup>          |                                                                           |                                                | 500 A/ 0,5 V                        |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 1%                     | P01120005A |                                     |
|                                                                                     | Y7N                                                        | 1 A...1200 A Spitze                                          |               |                 |             |                    | 1 V AC                           |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 5 Hz...10 kHz                                                                                                                               | ≤ 2%                     | P01120075  |                                     |
|  | C100                                                       | 0,1...1200 A                                                 |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,5%                   | P01120301  |                                     |
|                                                                                     | C102                                                       | 0,1...1200 A                                                 |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,5%                   | P01120302  |                                     |
|                                                                                     | C103                                                       | 0,1...1200 A                                                 |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,5%                   | P01120303  |                                     |
|                                                                                     | C106                                                       | 0,1...1200 A                                                 |               |                 |             |                    | 1 V AC                           |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,5%                   | P01120304  |                                     |
|                                                                                     | C107                                                       | 0,1...1200 A                                                 |               |                 |             |                    | 1 V AC                           |                                                                           |                                                | 1 A/1 mV                            |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,5%                   | P01120305  |                                     |
|                                                                                     | C112                                                       | 1 mA...1200 A                                                |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,3%                   | P01120314  |                                     |
|                                                                                     | C113                                                       | 1 mA...1200 A                                                |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 0,3%                   | P01120315  |                                     |
|                                                                                     | C122                                                       | 1...1200 A                                                   |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 1000/5                              |                                            |                | 30 Hz...10 kHz                                                                                                                              | ≤ 1%                     | P01120306  |                                     |
|                                                                                     | C148                                                       | 1...300 A<br>1...600 A<br>1...1200 A                         |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 250/5<br>500/5<br>1000/5            |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 2%<br>≤ 1%<br>≤ 1%     | P01120307  |                                     |
|                                                                                     | C160                                                       | 0,1...30 A Spitze<br>0,1...300 A Spitze<br>1...2000 A Spitze |               |                 |             |                    | 3 V peak<br>3 V peak<br>3 V peak |                                                                           |                                                | 10 A/1 V<br>100 A/1 V<br>1000 A/1 V |                                            |                | 10 Hz...100 kHz                                                                                                                             | ≤ 3%<br>≤ 2%<br>≤ 1%     | P01120308  |                                     |
| C173                                                                                | 0,1 mA...12 A<br>0,01...1,2 A<br>0,1...120 A<br>1...1200 A |                                                              |               |                 |             | 1 V AC             |                                  |                                                                           | 1 A/1 V<br>10 A/1 V<br>100 A/1 V<br>1000 A/1 V |                                     |                                            | 10 Hz...3 kHz  | ≤ 0,7%<br>≤ 0,5%<br>≤ 0,3%<br>≤ 0,2%                                                                                                        | P01120309                |            |                                     |
|  | D30N                                                       | 1 A...3600 A                                                 |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 3000/1                              |                                            |                | 30 Hz...5 kHz                                                                                                                               | ≤ 0,5%                   | P01120049A |                                     |
|                                                                                     | D30CN                                                      | 1 A...3600 A                                                 |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 3000/1                              |                                            |                | 30 Hz...5 kHz                                                                                                                               | ≤ 0,5%                   | P01120064  |                                     |
|                                                                                     | D31N                                                       | 1...600 A<br>1...1200 A<br>1...1800 A                        |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 500/1<br>1000/1<br>1500/1           |                                            |                | 30 Hz...1,5 kHz                                                                                                                             | ≤ 3%<br>≤ 1%<br>≤ 0,5%   | P01120050A |                                     |
|                                                                                     | D32N                                                       | 1...1200 A<br>1...2400 A<br>1...3600 A                       |               |                 |             | 1 A AC             |                                  |                                                                           |                                                | 1000/1<br>2000/1<br>3000/1          |                                            |                | 30 Hz...1 kHz                                                                                                                               | ≤ 1%<br>≤ 0,5%<br>≤ 0,5% | P01120051A |                                     |
|                                                                                     | D33N                                                       | 1...3600 A                                                   |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 3000/5                              |                                            |                | 30 Hz...5 kHz                                                                                                                               | ≤ 1%                     | P01120052A |                                     |
|                                                                                     | D34N                                                       | 1...600 A<br>1...1200 A<br>1...1800 A                        |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 500/5<br>1000/5<br>1500/5           |                                            |                | 30 Hz...1,5 kHz                                                                                                                             | ≤ 3%<br>≤ 1%<br>≤ 0,5%   | P01120053A |                                     |
|                                                                                     | D35N                                                       | 1...1200 A<br>1...2400 A<br>1...3600 A                       |               |                 |             | 5 A AC             |                                  |                                                                           |                                                | 1000/5<br>2000/5<br>3000/5          |                                            |                | 30 Hz...1,5 kHz                                                                                                                             | ≤ 1%<br>≤ 0,5%<br>≤ 0,5% | P01120054A |                                     |
|                                                                                     | D36N                                                       | 1...3600 A                                                   |               |                 |             | 3 A AC             |                                  |                                                                           |                                                | 3000/3                              |                                            |                | 30 Hz...5 kHz                                                                                                                               | ≤ 0,5%                   | P01120055A |                                     |
|                                                                                     | D37N                                                       | 0,1...36 A<br>1...360 A<br>1...3600 A                        |               |                 |             |                    | 3 V AC                           |                                                                           |                                                | 30 A/3 V<br>300 A/3 V<br>3000 A/3 V |                                            |                | 30 Hz...5 kHz                                                                                                                               | ≤ 2%                     | P01120056A |                                     |
|                                                                                     | D38N                                                       | 1...90 A Spitze<br>1...900 A Spitze<br>1...9000 A Spitze     |               |                 |             |                    | 1 V AC                           |                                                                           |                                                | 1 A/10 mV<br>1 A/1 mV<br>1 A/0,1 mV |                                            |                | 30 Hz...50 kHz                                                                                                                              | ≤ 2%                     | P01120057A |                                     |
|                                                                                     | B102                                                       | 0,5 mA...4 A<br>0,5 mA...400 A                               |               |                 |             |                    | 4 V AC                           |                                                                           |                                                | 1 A/1 V<br>1 A/1 mV                 |                                            |                | 48 Hz...1 kHz                                                                                                                               | ≤ 0,5%<br>≤ 0,35%        | P01120083  |                                     |

(1) Der obere Wert entspricht 120% des max. Nennwerts (2) AC-Signale werden durch Dioden gerichtet (3) bei Bezugsbedingungen / Einzeldaten auf Anfrage