

WIMA MKS 4

Metallisierte Polyester-Kondensatoren für erhöhte Anforderungen

■ Für alle Standardanwendungen in Rastermaßen $\geq 7,5$ mm. ■ Großes Kapazitätsspektrum bis 100 μF und Spannungsreihen bis 2000 V-. ■ Niedriger ESR. ■ Speicherkondensator ohne Lebensdauerbegrenzung selbst bei hohen Temperaturen. ■ Gegurtet lieferbar bis einschl. Bauform 15 x 26 x 31,5/RM 27,5.

Technische Angaben

Dielektrikum: Polyäthylenterephthalat-Folie.

Beläge: Aluminium, aufmetallisiert.

Umhüllung: Flammhemmendes Kunststoffgehäuse, UL 94 V-0.

Farbe: Rot. Aufdruck: Schwarz. Epoxidharzverguß: Rot.

Temperaturbereich: -55°C bis $+100^\circ\text{C}$.

Prüfungen: Nach IEC 60384-2 bzw. EN 130 400.

Prüfklasse: 55/100/56 nach IEC.

Isolationswerte bei $+20^\circ\text{C}$:

| U_N | $U_{\text{meß}}$ | $C \leq 0,33 \mu\text{F}$ | $0,33 \mu\text{F} < C \leq 33 \mu\text{F}$ |
|-----------------------|------------------|---|---|
| 50 V- | 10 V | $\geq 5 \cdot 10^3 \text{ M}\Omega$ Mittelwert: $3 \cdot 10^4 \text{ M}\Omega$ | $\geq 1500 \text{ s (M}\Omega \cdot \mu\text{F)}$ Mittelwert: 4500 s |
| 63 V- | 50 V | $\geq 1 \cdot 10^4 \text{ M}\Omega$ Mittelwert: $5 \cdot 10^4 \text{ M}\Omega$ | $\geq 3000 \text{ s (M}\Omega \cdot \mu\text{F)}$ Mittelwert: 6000 s |
| 100 V- | 100 V | $\geq 1,5 \cdot 10^4 \text{ M}\Omega$ Mittelwert: $5 \cdot 10^4 \text{ M}\Omega$ | $\geq 5000 \text{ s (M}\Omega \cdot \mu\text{F)}$ Mittelwert: 15 000 s |
| $\geq 250 \text{ V-}$ | 100 V | $\geq 3 \cdot 10^4 \text{ M}\Omega$ Mittelwert: $1 \cdot 10^5 \text{ M}\Omega$ | $\geq 10 000 \text{ s (M}\Omega \cdot \mu\text{F)}$ Mittelwert: 40 000 s |

Nach IEC 60384-2 Grade 1 und EN 130 400.

Meßzeit: 1 min.

Kapazitätstoleranzen: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$.

Verlustfaktoren bei $+20^\circ\text{C}$: $\tan \delta$

| Gemessen bei | $C \leq 0,1 \mu\text{F}$ | $0,1 \mu\text{F} < C \leq 1,0 \mu\text{F}$ | $C > 1,0 \mu\text{F}$ |
|--------------|--------------------------|--|-------------------------|
| 1 kHz | $\leq 8 \cdot 10^{-3}$ | $\leq 8 \cdot 10^{-3}$ | $\leq 10 \cdot 10^{-3}$ |
| 10 kHz | $\leq 15 \cdot 10^{-3}$ | $\leq 15 \cdot 10^{-3}$ | - |
| 100 kHz | $\leq 30 \cdot 10^{-3}$ | - | - |

Prüfspannung: $1,6 U_N$, 2 s.

Schwingen: 6 h bei 10...2000 Hz und 0,75 mm Auslenkung bzw. 10 g nach IEC 60068-2-6.

Unterdruck: 1 kPa = 10 mbar nach IEC 60068-2-13.

Stoßtest: 4000 Stöße mit 390 m/s^2 nach IEC 60068-2-29.

Spannungsderating: Die zulässige Spannung vermindert sich gegenüber der Nennspannung bei Gleichspannungsbetrieb ab $+85^\circ\text{C}$, bei Wechselspannungsbetrieb ab $+75^\circ\text{C}$ um 1,25% je 1 K.

Kurven siehe Seite 6.

Impulsbelastung bei vollem Spannungshub:

| C-Wert / Capacitance $\mu\text{F}/\mu\text{F}$ | Flankensteilheit V/ μs max. Betrieb/Prüfung | | | | | Pulse rise time V/ μsec max. operation/test | | | | |
|---|---|--------|---------|---------|---------|---|----------|----------|----------|--|
| | 50 VDC | 63 VDC | 100 VDC | 250 VDC | 400 VDC | 630 VDC | 1000 VDC | 1500 VDC | 2000 VDC | |
| 1000 ... 6800 | - | - | 50/500 | 60/600 | 60/600 | 60/600 | 70/700 | 90/900 | 100/1000 | |
| 0.01 ... 0.022 | - | 30/300 | 30/300 | 35/350 | 38/380 | 40/400 | 50/500 | 50/500 | 60/600 | |
| 0.033 ... 0.068 | - | 15/150 | 15/150 | 20/200 | 25/250 | 32/320 | 26/260 | 35/350 | 40/400 | |
| 0.1 ... 0.22 | 10/100 | 10/100 | 12/120 | 15/150 | 15/150 | 17/170 | 20/200 | 35/350 | 40/400 | |
| 0.33 ... 0.68 | 9/90 | 9/90 | 9/90 | 10/100 | 10/100 | 13/130 | 20/200 | 20/200 | 38/380 | |
| 1.0 ... 2.2 | 6/60 | 6/60 | 5/50 | 6/60 | 9/90 | 13/130 | 14/140 | 15/150 | - | |
| 3.3 ... 6.8 | 2.5/25 | 3/30 | 3/30 | 6/60 | 6/60 | 9/90 | - | - | - | |
| 10 ... 47 | 2.5/25 | 2.5/25 | 2.5/25 | 3/30 | 6/60 | - | - | - | - | |
| 68 ... 100 | 2.5/25 | 2.5/25 | 2/20 | - | - | - | - | - | - | |

Metallized polyester capacitors for stringent requirements

■ For all standard applications in PCM ≥ 7.5 mm. ■ Wide capacitance range up to 100 μF and voltage ranges up to 2000 VDC. ■ Low ESR. ■ Reservoir capacitor with unlimited life expectancy even at high temperatures. ■ Available taped and reeled up to and including case size 15 x 26 x 31.5/PCM 27.5.

Technical Data

Dielectric: Polyethylene-terephthalate film.

Capacitor electrodes: Vacuum-deposited aluminium.

Encapsulation: Flame retardant plastic case, UL 94 V-0.

Colour: Red. Marking: Black. Epoxy resin seal: Red.

Temperature range: -55°C to $+100^\circ\text{C}$.

Test specification: In accord. with IEC 60384-2 and EN 130 400.

Test category: 55/100/56 in accordance with IEC.

Insulation resistance at $+20^\circ\text{C}$:

| U_r | U_{test} | $C \leq 0.33 \mu\text{F}$ | $0.33 \mu\text{F} < C \leq 33 \mu\text{F}$ |
|------------------------|-------------------|---|---|
| 50 VDC | 10 V | $\geq 5 \times 10^3 \text{ M}\Omega$ Mean value: $3 \times 10^4 \text{ M}\Omega$ | $\geq 1500 \text{ sec (M}\Omega \times \mu\text{F)}$ Mean value: 4500 sec |
| 63 VDC | 50 V | $\geq 1 \times 10^4 \text{ M}\Omega$ Mean value: $5 \times 10^4 \text{ M}\Omega$ | $\geq 3000 \text{ sec (M}\Omega \times \mu\text{F)}$ Mean value: 6000 sec |
| 100 VDC | 100 V | $\geq 1.5 \times 10^4 \text{ M}\Omega$ Mean value: $5 \times 10^4 \text{ M}\Omega$ | $\geq 5000 \text{ sec (M}\Omega \times \mu\text{F)}$ Mean value: 15000 sec |
| $\geq 250 \text{ VDC}$ | 100 V | $\geq 3 \times 10^4 \text{ M}\Omega$ Mean value: $1 \times 10^5 \text{ M}\Omega$ | $\geq 10 000 \text{ sec (M}\Omega \times \mu\text{F)}$ Mean value: 40000 sec |

In accordance with IEC 60384-2 grade 1 and EN 130 400.

Measuring time: 1 min.

Capacitance tolerances: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$.

Dissipation factors at $+20^\circ\text{C}$: $\tan \delta$

| at f | $C \leq 0.1 \mu\text{F}$ | $0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$ | $C > 1.0 \mu\text{F}$ |
|---------|--------------------------|--|--------------------------|
| 1 kHz | $\leq 8 \times 10^{-3}$ | $\leq 8 \times 10^{-3}$ | $\leq 10 \times 10^{-3}$ |
| 10 kHz | $\leq 15 \times 10^{-3}$ | $\leq 15 \times 10^{-3}$ | - |
| 100 kHz | $\leq 30 \times 10^{-3}$ | - | - |

Test voltage: $1.6 U_r$, 2 sec.

Vibration: 6 hours at 10...2000 Hz and 0.75 mm displacement amplitude or 10 g in accordance with IEC 60068-2-6.

Low air density: 1 kPa = 10 mbar in accord. with IEC 60068-2-13.

Bump test: 4000 bumps at 390 m/sec^2 in accord. with IEC 60068-2-29.

Voltage derating: A voltage derating factor of 1.25% per K must be applied from $+85^\circ\text{C}$ for DC voltages and from $+75^\circ\text{C}$ for AC voltages.

Graphs see page 6.

Maximum pulse rise time for pulses equal to the rated voltage:

Werteübersicht / General Data

| Kapazität Capacitance | 50 VDC/30 VAC* | | | | 63 VDC/40 VAC* | | | | 100 VDC/63 VAC* | | | | 250 VDC/160 VAC* | | | | 400 VDC/200 VAC* | | | |
|--------------------------|----------------|------|------|------------|----------------|------|------|-------------|-----------------|------|------|-------------|------------------|------|------|-------------|------------------|------|------|--------------|
| | W | H | L | PCM** | W | H | L | PCM** | W | H | L | PCM** | W | H | L | PCM** | W | H | L | PCM** |
| 1000 pF | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 |
| 1500 " | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 |
| 2200 " | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 |
| 3300 " | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 |
| 4700 " | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 |
| 6800 " | | | | | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5 |
| 0.01 µF | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5* | 3 | 8.5 | 10 | 7.5* |
| 0.015 " | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5* | 4 | 9 | 13 | 10* |
| 0.022 " | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5* | 4 | 9 | 13 | 10* |
| 0.033 " | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 4.5 | 9.5 | 10.3 | 7.5* |
| 0.047 " | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 4 | 9 | 13 | 10* |
| 0.068 " | | | | | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 5.7 | 12.5 | 10.3 | 7.5* |
| | | | | | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5 | 4 | 9 | 13 | 10* | 5 | 11 | 13 | 10* |
| 0.1 µF | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 5 | 10.5 | 10.3 | 7.5* | 6 | 12.5 | 13 | 10 |
| 0.15 " | 2.5 | 7 | 10 | 7.5 | 2.5 | 7 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 5 | 10.5 | 10.3 | 7.5* | 6 | 12.5 | 18 | 15 |
| 0.22 " | 3 | 8.5 | 10 | 7.5 | 3 | 8.5 | 10 | 7.5* | 4 | 9 | 10 | 7.5* | 5 | 10.5 | 10.3 | 7.5* | 7 | 14 | 18 | 15 |
| 0.33 " | 4 | 9 | 10 | 7.5 | 4 | 9 | 10 | 7.5* | 4.5 | 9.5 | 10.3 | 7.5* | 5.7 | 12.5 | 10.3 | 7.5* | 8 | 15 | 18 | 15 |
| 0.47 " | 4.5 | 9.5 | 10.3 | 7.5 | 4.5 | 9.5 | 10.3 | 7.5* | 4.5 | 9.5 | 10.3 | 7.5* | 6 | 12.5 | 13 | 10* | 9 | 16 | 18 | 15* |
| 0.68 " | 5 | 10.5 | 10.3 | 7.5 | 5 | 10.5 | 10.3 | 7.5* | 5.7 | 12.5 | 10.3 | 7.5* | 7 | 14 | 18 | 15 | 10.5 | 19 | 26.5 | 22.5* |
| 1.0 µF | 4.5 | 9.5 | 10.3 | 7.5 | 5.7 | 12.5 | 10.3 | 7.5* | 5.7 | 12.5 | 10.3 | 7.5* | 9 | 16 | 18 | 15 | 11 | 21 | 26.5 | 22.5 |
| 1.5 " | 5 | 10.5 | 10.3 | 7.5 | 5 | 11 | 13 | 10* | 6 | 12.5 | 13 | 10* | 7 | 16.5 | 26.5 | 22.5 | 13 | 24 | 31.5 | 27.5 |
| 2.2 " | 5.7 | 12.5 | 10.3 | 7.5 | 5 | 11 | 13 | 10* | 8 | 15 | 18 | 15 | 10.5 | 19 | 26.5 | 22.5 | 15 | 26 | 31.5 | 27.5 |
| 3.3 " | 8.5 | 12.5 | 10.3 | 7.5 | 6 | 12.5 | 18 | 15* | 7 | 16.5 | 26.5 | 22.5 | 11 | 21 | 26.5 | 22.5 | 17 | 34.5 | 31.5 | 27.5 |
| 4.7 " | 8.5 | 12.5 | 10.3 | 7.5 | 7 | 14 | 18 | 15* | 10.5 | 19 | 26.5 | 22.5 | 13 | 24 | 31.5 | 27.5 | 19 | 32 | 41.5 | 37.5 |
| 6.8 " | 8.5 | 12.5 | 10.3 | 7.5 | 8 | 15 | 18 | 15* | 11 | 21 | 26.5 | 22.5 | 15 | 26 | 31.5 | 27.5 | 20 | 39.5 | 41.5 | 37.5 |
| 10 µF | 9 | 16 | 18 | 15 | 8.5 | 18.5 | 26.5 | 22.5 | 13 | 24 | 31.5 | 27.5 | 17 | 34.5 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 |
| 15 " | 11 | 21 | 26.5 | 22.5 | 11 | 21 | 26.5 | 22.5 | 15 | 26 | 31.5 | 27.5 | 20 | 39.5 | 31.5 | 27.5 | | | | |
| 22 " | 11 | 21 | 31.5 | 27.5 | 13 | 24 | 31.5 | 27.5 | 17 | 29 | 31.5 | 27.5 | 20 | 39.5 | 41.5 | 37.5 | | | | |
| 33 " | 13 | 24 | 31.5 | 27.5 | 15 | 26 | 31.5 | 27.5 | 20 | 39.5 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 | | | | |
| 47 " | 15 | 26 | 31.5 | 27.5 | 17 | 34.5 | 31.5 | 27.5 | 20 | 39.5 | 41.5 | 37.5 | | | | | | | | |
| 68 " | 20 | 39.5 | 31.5 | 27.5 | 20 | 39.5 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 | | | | | | | | |
| 100 µF | 24 | 45.5 | 41.5 | 37.5 | 24 | 45.5 | 41.5 | 37.5 | | | | | | | | | | | | |

* Wechselspannungen: $f = 50 \text{ Hz}$; $1,4 \cdot U_{\text{eff}} \sim + U_- \leq U_N$

* AC voltage: $f = 50 \text{ Hz}$; $1,4 \times U_{\text{rms}} + U_{\text{DC}} \leq U_r$

** PCM = Printed circuit module = Rastermaß / lead spacing.

Neue Werte und Bauform. / New values and box size.

* Bei Bestellung bitte das gewünschte Rastermaß angeben!
Wenn keine Angaben erfolgen, wird grundsätzlich das kleinere RM geliefert.

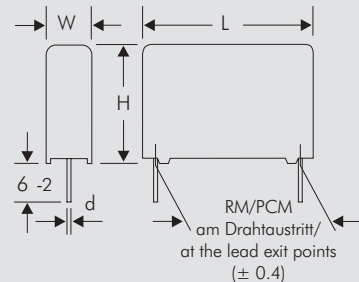
* On ordering please state the required PCM (lead spacing)!
If not specified, smaller PCM will be booked.

Gegurtete Ausführung siehe Seite 93.

Taped version see page 93.

Alle Maße in mm. / Dims. in mm.

| ø d | PCM | W |
|-----|-----------|------|
| 0.5 | 7.5 | ≤ 3 |
| 0.7 | 7.5 | ≥ 4 |
| 0.7 | 10 | |
| 0.8 | 15 - 22.5 | |
| 0.8 | 27.5 | ≤ 15 |
| 1.0 | 27.5 | > 15 |
| 1.0 | 37.5 | |

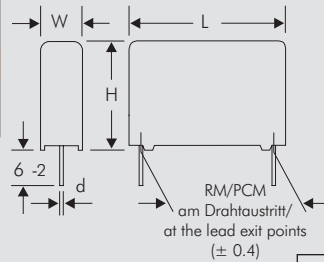


Abweichungen und Konstruktions-
änderungen vorbehalten.

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Werteübersicht / General Data

| Kapazität Capacitance | 630 VDC/300 VAC * | | | | 1000 VDC/400 VAC * | | | | 1500 VDC/400 VAC * | | | | 2000 VDC/400 VAC * | | | |
|--------------------------|-------------------|------|------|-------|--------------------|------|------|-------|--------------------|------|------|-------|--------------------|------|------|-------|
| | W | H | L | PCM** | W | H | L | PCM** | W | H | L | PCM** | W | H | L | PCM** |
| 1000 pF | 2.5 | 7 | 10 | 7.5** | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 |
| 1500 " | 2.5 | 7 | 10 | 7.5** | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 |
| 2200 " | 2.5 | 7 | 10 | 7.5** | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 | 5 | 11 | 13 | 10 |
| 3300 " | 2.5 | 7 | 10 | 7.5** | 4 | 9 | 13 | 10 | 4 | 9 | 13 | 10 | 6 | 12.5 | 13 | 10 |
| 4700 " | 2.5 | 7 | 10 | 7.5** | 4 | 9 | 13 | 10 | 4 | 9.5 | 13 | 10 | 5 | 11 | 18 | 15 |
| 6800 " | 3 | 8.5 | 10 | 7.5** | 4 | 9 | 13 | 10 | 5 | 11 | 13 | 10 | 6 | 12.5 | 18 | 15 |
| 0.01 µF | 3 | 8.5 | 10 | 7.5** | 5 | 11 | 13 | 10 | 6 | 12.5 | 13 | 10 | 7 | 14 | 18 | 15 |
| | 4 | 9 | 13 | 10* | | | | | | | | | | | | |
| 0.015 " | 4 | 9 | 10 | 7.5** | 6 | 12.5 | 13 | 10 | 6 | 12.5 | 18 | 15 | 6 | 15 | 26.5 | 22.5 |
| | 4 | 9 | 13 | 10* | | | | | | | | | | | | |
| 0.022 " | 4.5 | 9.5 | 10.3 | 7.5** | 5 | 11 | 18 | 15 | 7 | 14 | 18 | 15 | 7 | 16.5 | 26.5 | 22.5 |
| | 4 | 9 | 13 | 10* | | | | | | | | | | | | |
| 0.033 " | 5 | 10.5 | 10.3 | 7.5** | 6 | 12.5 | 18 | 15 | 8 | 15 | 18 | 15 | 10.5 | 19 | 26.5 | 22.5 |
| | 5 | 11 | 13 | 10* | | | | | | | | | | | | |
| 0.047 " | 5.7 | 12.5 | 10.3 | 7.5** | 7 | 14 | 18 | 15 | 7 | 16.5 | 26.5 | 22.5 | 11 | 21 | 26.5 | 22.5 |
| | 6 | 12.5 | 13 | 10* | | | | | | | | | | | | |
| 0.068 " | 5 | 11 | 18 | 15 | 8 | 15 | 18 | 15 | 8.5 | 18.5 | 26.5 | 22.5 | 11 | 21 | 31.5 | 27.5 |
| 0.1 µF | 6 | 12.5 | 18 | 15 | 7 | 16.5 | 26.5 | 22.5 | 10.5 | 19 | 26.5 | 22.5 | 13 | 24 | 31.5 | 27.5 |
| 0.15 " | 7 | 14 | 18 | 15 | 8.5 | 18.5 | 26.5 | 22.5 | 11 | 21 | 31.5 | 27.5 | 17 | 29 | 31.5 | 27.5 |
| 0.22 " | 8 | 15 | 18 | 15 | 11 | 21 | 26.5 | 22.5 | 13 | 24 | 31.5 | 27.5 | 17 | 29 | 41.5 | 37.5 |
| 0.33 " | 7 | 16.5 | 26.5 | 22.5 | 11 | 21 | 31.5 | 27.5 | 17 | 34.5 | 31.5 | 27.5 | 20 | 39.5 | 41.5 | 37.5 |
| 0.47 " | 10.5 | 19 | 26.5 | 22.5 | 15 | 26 | 31.5 | 27.5 | 20 | 39.5 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 |
| 0.68 " | 11 | 21 | 26.5 | 22.5 | 17 | 29 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 | | | | |
| 1.0 µF | 11 | 21 | 31.5 | 27.5 | 19 | 32 | 41.5 | 37.5 | | | | | | | | |
| 1.5 " | 15 | 26 | 31.5 | 27.5 | 20 | 39.5 | 41.5 | 37.5 | | | | | | | | |
| 2.2 " | 17 | 34.5 | 31.5 | 27.5 | 24 | 45.5 | 41.5 | 37.5 | | | | | | | | |
| 3.3 " | 20 | 39.5 | 41.5 | 37.5 | | | | | | | | | | | | |
| 4.7 " | 24 | 45.5 | 41.5 | 37.5 | | | | | | | | | | | | |



* Wechselspannungen: $f = 50 \text{ Hz}$; $1,4 \cdot U_{\text{eff}} \sim + U_{-} \leq U_N$

* AC voltage: $f = 50 \text{ Hz}$; $1,4 \times U_{\text{rms}} + \text{UDC} \leq U_r$

Neue Werte / New values.

** PCM = Printed circuit module = Rastermaß / lead spacing.

* Bei Bestellung bitte das gewünschte Rastermaß angeben!
Wenn keine Angaben erfolgen, wird grundsätzlich das kleinere RM geliefert.

* On ordering please state the required PCM (lead spacing)!
If not specified, smaller PCM will be booked.

** Zulässige Nennwechselspannung max. 220 V~

** Admissible AC voltage 220 VAC max.

Gegurtete Ausführung siehe Seite 93. / Taped version see page 93.

Alle Maße in mm.

Dims. in mm.

Abweichungen und Konstruktions-
änderungen vorbehalten.

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data without prior notification.

| Ø d | PCM | W |
|-----|-----------|------|
| 0.5 | 7.5 | ≤ 3 |
| 0.7 | 7.5 | ≥ 4 |
| 0.7 | 10 | |
| 0.8 | 15 - 22.5 | |
| 0.8 | 27.5 | ≤ 15 |
| 1.0 | 27.5 | > 15 |
| 1.0 | 37.5 | |

Wechselspannung in Abhängigkeit von der Frequenz bei 10° C Eigenerwärmung (Richtwerte).

Permissible AC voltages in relation to frequency at 10° C internal temperature rise (general data).

