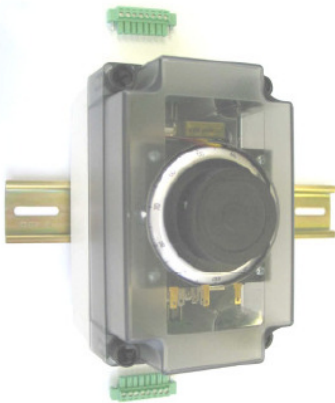


# 1 Turn motorized potentiometer protective housing 1 Gang Motorpotentiometer Schutzgehäuse

## Serie MPC VAC



- |  |  |
|--|--|
| • <b>Feindrahtpotentiometer</b><br>Wire-wound potentiometer              | Typ DPC                                    |
| • <b>Widerstandwert</b><br>Resistance                                    | 100 R ... 100 K (5 W)                      |
| • Endlagenkontakte einstellbar<br>Adjustable limit switches              | 2 + 3                                      |
| • Nutzkontakte frei programmierbar<br>Program channels free setting      | 1 + 2                                      |
| • <b>Synchronmotor (CW / CCW)</b><br>Synchronous motor (CW / CCW)        | 24 V ; 48 V ; 110 V ; 220 VAC (50 / 60 Hz) |
| • <b>DIN-Schnellbefestigungsklammer</b><br>DIN Quick rail mounting clamp | 35 DIN 46277 / EN 50022                    |

### Application:

- Motorized potentiometers are basically the best in the field of control and regulation technics
- The possibility to mount several potentiometers on the same shaft allows also a remote display of the position of the potentiometer
- Supplementary cams can be used to give limit signals depending on the position of the potentiometer
- Supplementary cams can also be used to offset a residual resistance of the potentiometer at the zero point
- One supplementary cam can be used as zero point interlocking

### Design:

- High precision wire-wound potentiometer with high resolution and linearity
- Potentiometer directly driven by the cam shaft
- Two adjustable limit switches controlling the rotation angle of the potentiometer
- Solid mechanical Stopps preventing damage to potentiometers
- Available with AC or DC motors
- Friction clutch protecting the unit when manually operated
- The modular design allows quick delivery practically without delay, voltage resistance and cycle time according to your requirements

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### Technical data

#### Wire-wound potentiometer

Resistance  
Resistance tolerance  
Linearity  
Power rating  
Slider current  
Dielectric strength  
Rotation angle (mech. / electr.)

#### Typ DPC ( 5W )

100 R ... 100 K  
± 5%  
< 0.15%  
5W (40°C)  
100mA  
900 VDC  
330°

#### Adjustable single cam

Programming possibilities  
Number of pulses per revolution  
With cam profile valley 20° (connection)  
With cam profile peak (connection)

#### 2x NK4101.20°

1  
COM / NC  
COM / NO

#### Adjustable double cam

Programming possibilities  
Number of pulses per revolution  
With cam profile valley 4 ... 180° ≈ 1 ... 50 %  
With cam profile peak 4 ... 356° ≈ 1 ... 99 %

#### 1x NK4201.180°

1  
COM / NC  
COM / NO

#### Precision snap action switch

Double solder and plug socket connection

Common contact  
Actuating contact normally open  
Rest contact, normally closed

COM (1)  
NC (2)  
NO (3)

#### Snap action switch

Switching power  
Contact material (Contact resistance)

**KS 25 B4**  
4A 250VAC / 1A 60 VDC  
Ag 999 (< 25 mΩ)

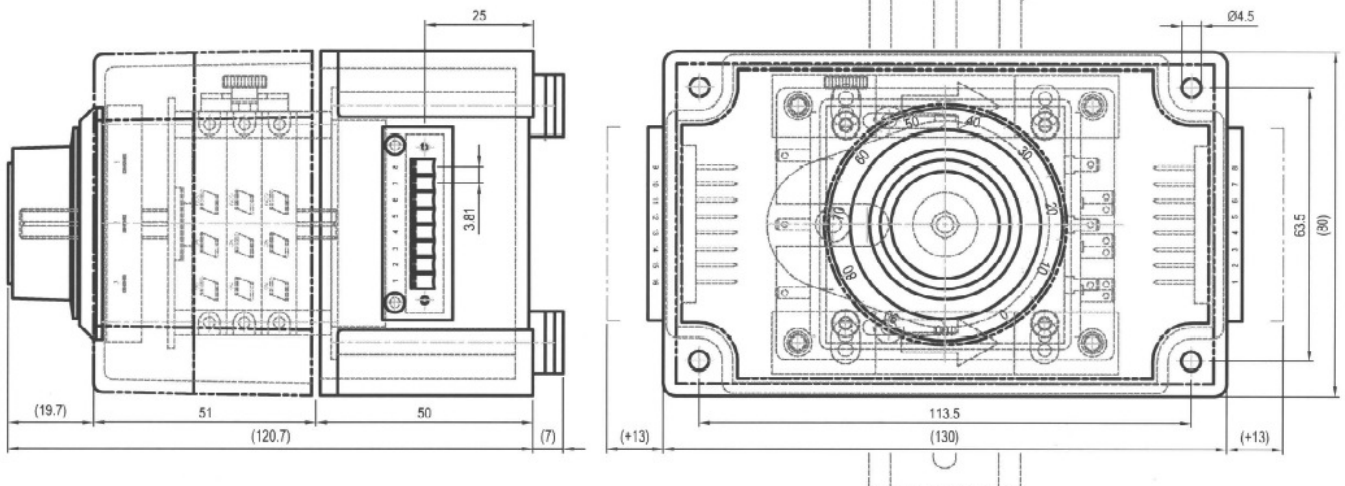
#### Snap action switch

Contact material (Contact resistance)

**KS 26 B4**  
Au 4 ... 6 μm (< 10mΩ)

### Outline drawing

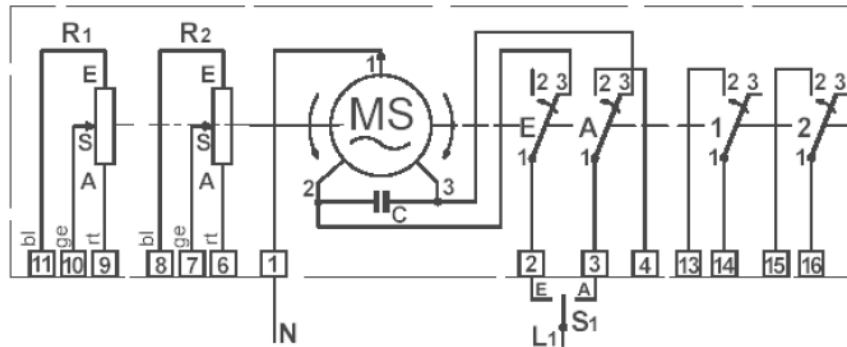
Gehäuse = UL Zulassung / Witterung beständig / nicht entflammbar / robust  
Housing = UL Admittance / Weather constantly / Not inflammable / durable



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## Electrical connection



### Zulassung:

Überspannungskategorie II: Anschluss an eine  **feste elektrische Installation innerhalb eines Gehäuses oder Gebäudes ist erlaubt**  
Isolierstoffgruppe III des Steckers unter Verschmutzungsgrad 3:  
Es tritt leitfähige Verschmutzung auf oder trockene, nichtleitfähige Verschmutzung, aber keine beständige Leitfähigkeit  
Empfehlung: Die Drähte des Steckers in uneingestecktem Zustand anschrauben.

### Admittance:

Over voltage category II: Connection with a firm (fixed) **electric installation within a casing or building is allowed**  
Insulant group III of the plug under pollution level 3  
There appears conductive pollution or dry, non-conductive pollution, but no constant conductivity  
Recommendation: screw the wires with the plug unplugged

lose mit geliefert / Loose with supplied

2x Steckverbinder mit Schraubklemme / 2x Plug connector with screw wedges

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## Serie MPC VAC

### Order key

MPC41 2.1 1 C1 1 1 1 1

#### VAC-Motor

##### Size / Dimension (mm) / Number of switches:

2 -->Size 3 Switches 2.1 = 2 Adjustable limit switches (NK4101/20°) + 1 Program channels free setting (NK4201) 1 Program key (PSN) Knob inside; PC125 C Motor!
2 -->Size 3 Switches 2.2 = 2 Adjustable limit switches (NK4101/20°) + 1 Program channels free setting (NK4201) 1 Program key (PSN) Knob outside; PC100 C Motor!
3 -->Size 4 Switches 3.1 = 2 Adjustable limit switches (NK4101/20°) + 2 Program channels free setting (NK4201) 1 Program key (PSN) Knob outside; PC100 C Motor!
4 -->Size 4 Switches 3.2 = 2 Adjustable limit switches (NK4101/20°) + 2 Program channels free setting (NK4201) 1 Program key (PSN) Knob outside; PC125 (for 2 Potentiometer) C Motor!

##### Cycle times (sec.):

1 = 10s	2 = 15s	3 = 20s	4 = 30s	5 = 45s
6 = 60s	7 = 75s	8 = 90s	9 = 120s	

##### Synchronous motor: Power supply (AC / DC) Frequency 50Hz (60Hz)

	CW	CCW	
C1 = 24	/ 24V		AC
C2 = 48	/ 48...	50V	AC
C3 = 110	/ 110...	120V	AC
C4 = 220	/ 220...	240V	AC

##### Wire-wound potentiometer (Size 2.1, 2.2, 3.1, 3.2): Resistance

1 = 100Ω	2 = 200Ω	3 = 500Ω	4 = 1KΩ	5 = 2KΩ
6 = 5KΩ	7 = 10KΩ			

##### Wire-wound potentiometer (Size 2.1, 2.2, 3.1, 3.2): Resistance

8 = 2.5KΩ	9 = 20KΩ	10 = 100KΩ
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##### Wire-wound potentiometer (Size 3.2): Resistance

1 = 100Ω	2 = 200Ω	3 = 500Ω	4 = 1KΩ	5 = 2KΩ
6 = 5KΩ	7 = 10KΩ			

##### Wire-wound potentiometer (Size 3.2): Resistance

8 = 2.5KΩ	9 = 20KΩ	10 = 100KΩ
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Special products will be produced under a new article number.