POWER TOOL SWITCHES

VARIETY. QUALITY. INNOVATION

MARQUARDT

POWER TOOL SWITCHES BY MARQUARDT

THE PROGRAM

This catalog covers our wide range of power tool switches. The standard versions are listed with their part numbers. Sample switches and installation drawings with tolerance specifications are available on request. Use of these products requires application specific knowledge. Our engineers will be glad to give their guidance in selection as well as product-oriented application indications.

Our entire program is distinguished by one common feature: The consistently high quality level which has made us the favorite supplier to leading manufacturers worldwide. We are certified according to ISO TS 16949:2002, the actual QM-standard of the automotive industry. Quality is the most important part of our program.

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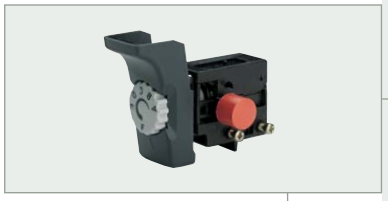
Series 2701, 2707, 2711 and 2709

SWITCHES FOR CORDED POWER TOOLS



Trigger switches in different electronic versions
electrical ratings up to 8 (8) A 250 V~ 5E4 / 13 A 125 VAC

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Series 1276

Double pole ON/OFF trigger switches
Electrical rating 5 (5) A 250 V~ 5E4

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Double pole ON/OFF trigger switches
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SWITCHES FOR CORDED POWER TOOLS

Double pole ON/OFF trigger switches –
electrical rating 8 (8) A 250 V~ 5E4
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Double pole ON/OFF trigger switches with additional
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Series 1369

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Series 1267

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Series 1362

Double pole ON/OFF trigger switches with suppression capacitor – electrical rating up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC, 1 1/2 HP 125 VAC / 2 HP 250 VAC

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Series 2200

Double pole ON/OFF trigger switches with suppression capacitor – electrical rating up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC, 1 1/2 HP 125 VAC / 2 HP 250 VAC

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ON/OFF slide switches for direct and indirect actuation – electrical rating 8 (8) A 250 V~ 5E4, 15 A 125 VAC / 8 A 250 VAC 25 A 12-36 V DC

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Series 1206

Single pole and double pole push button switches for indirect actuation – electrical rating 7 (7) A 250 V~ 5E4, 10 A 125 VAC / 5 A 250 VAC

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Series 1247

Double pole push button switches for indirect actuation – electrical rating 8 (8) A 250 V~ 5E4, 14 A 125 VAC / 8 A 125 V DC, 8 A 250 VAC

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Series 1246

Double pole push button switches for indirect actuation – electrical rating 8 (8) A 250 V~ 5E4, 15 A 125 VAC 1 HP / 15 A 125 V DC 1 HP, 25 A 24 V DC

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Series 1249

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Double pole push button switches for indirect actuation –
electrical rating up to 12 (12) A 250 V~ 5E4,
20 A 125 -250 VAC, 1 1/2 HP 125 VAC / 2 HP 250 VAC

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Rotary potentiometers with and without NO
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Solid state control units,
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HINTS FOR TECHNICAL INFORMATION

Approvals

Nearly all Marquardt-power tool switches are approved according to IEC 61058-1 (EN 61058-1) and with the ENEC mark and approved by UL and CSA as special use switches according to UL 1054 resp. C 22.2 - 55.

Approval marks

Europe USA Canada

Electrical rating

According to the European standard, the rated current for motor load is indicated in brackets. According to the regulations of the approval authorities of USA (UL) and of Canada (CSA), the permissible motor load is indicated by means of the HP-Value (horse-power). This HP-rating refers to the mechanical power of the machine.
Unless specified otherwise, the rating for the electronics is normally equal to the rated power of the mechanical contacts (depending on the installation and cooling conditions).

Endurance

The mechanical endurance is the number of possible cycles of operations without electrical load, while the electrical endurance is the number of cycles of operating at maximum electrical load. The lower the electrical rating, the more the electrical endurance approaches the mechanical endurance. Due to the parallel circuit paths with the integrated electronics, the electrical endurance approaches the mechanical endurance when the switch is used in the power tool.

Operating cycles

Switches that are expected to be actuated more than 2,000 times per year must be approved for frequent operation ≥ 50,000 operating cycles). Most of our switches for electric power tools meet this requirement and are marked with the symbol 5E4. Switches not marked with this symbol are approved for 10,000 operating cycles.

Protection against dust

The actuating side on most of the power tool switches shown in this catalog is dust protected. You will find a corresponding note in the individual description. The dust protection indicated in our documents refers according to IEC 61058-1 (EN 61058-1) to the actuating side of the switch. The sealing between switch and customer equipment as well as the examination on tightness have to be realized by the customer.

Ambient temperature

The switches for electric power tools shown in this catalog are mainly approved for an ambient temperature of 55 °C max. Versions for 85 °C max. are marked with T 85.

HINTS FOR TECHNICAL INFORMATION

EMC – interference suppression

Requirements for the appliance interference suppression can be found in EN 61058-1:2002 and in the appliance-respective EMC regulations.

Contact gap

Switches having a contact gap < 3 mm are not recommended as the only means of disconnecting an appliance from the supply. These switches are marked with μ. Please pay attention to the appliance requirements.

Regulations for protection of machines

We recommend the use of switches with approval marks IEC 61058-1 (EN 61058-1) if you have to meet the regulations of the standard institutions for protection of power tools.
Switches without approval marks have to be tested by your approval authority together with the appliance.

Regulations for machines

Please consult specific tool safety requirements for additional specifications.

CE identification

Our power tool switches comply as electrical accessories with the requirements of the low voltage regulation 73/23/EWG. The CE mark is shown on the smallest package unit of the switch. The appliance must satisfy the requirements of the EMC regulations.

Minimum order amounts

The minimum order amounts of individual switches depend on the respective packing units and the production batch sizes. Please ask for information.

Changes

We reserve the right to alter switches in accordance with technical improvements. The data specified in the catalog (e.g. dimensions, photos, drawings) are not binding. Ask for samples and outline drawings with tolerance specifications for new projects.

Application indications / Liability

Since all data in this catalog refer exclusively to the switches supplied by us, the customers themselves are responsible for the examination whether our switches are suitable for the individual case planned by them. Please contact us for further information.
Our liability exclusively depends on our terms of payment and delivery, which we send you on request.

SWITCHES FOR CORDLESS
DC POWER TOOLS

MARQUARDT

SERIES 2700 – ON/OFF TRIGGER SWITCHES

FOR CORDLESS DC POWER TOOLS

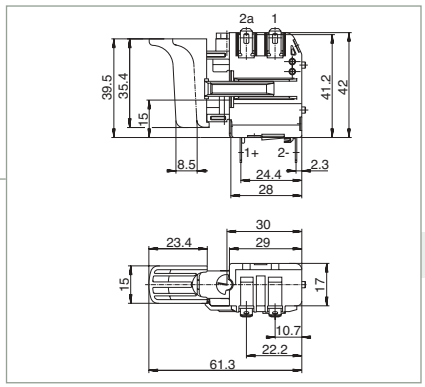
Product description

:: SPNO with integrated brake contact
:: Optional integrated reversing module
:: Lock-off in mid-position of lever
:: Dust protected

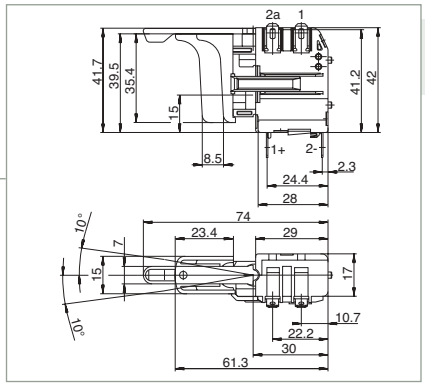
Technical data

:: Electrical rating 25 A / 18 V
:: Mechanical endurance
SPNO 1E5 cycles
DPDT 5E4 cycles
:: Electrical endurance
SPNO 1E5 cycles
DPDT 5E4 cycles
:: Contacts Ag
:: Volume resistance < 4 mΩ

2700.0101



2700.5101
with reversing module



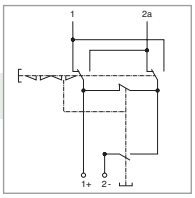
Terminals

:: Solder lugs on the motor and battery side

Special versions on request

:: Switches with battery clamps
:: Switches for higher battery voltages up to 24 V
:: Switches without brake contact

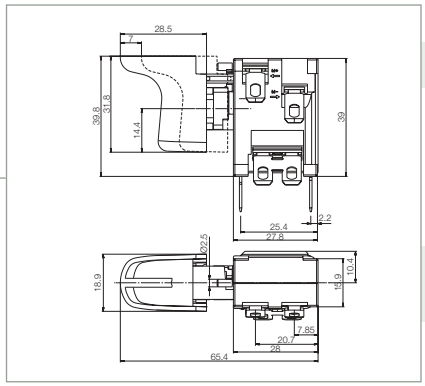
Switching function



SERIES 2704 – ON/OFF TRIGGER SWITCHES

FOR CORDLESS DC POWER TOOLS

2704.0401



Product description

:: SPNO with integrated brake contact
:: Locking ring which couples with customized actuator
:: Dust protected

Technical data

:: Electrical rating 30 A / 36 V
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
:: Volume resistance < 4 mΩ

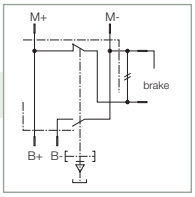
Terminals

:: Solder lugs on the motor and battery side resp. flat connectors 6.3 x 0.8

Special version on request

:: Version with additional terminals for external resistance braking

Switching function



SERIES 2701-2711 – SWITCHES WITH ELECTRONICS

FOR CORDLESS DC POWER TOOLS

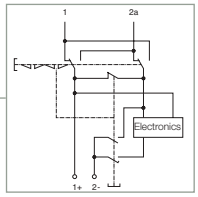
Product description

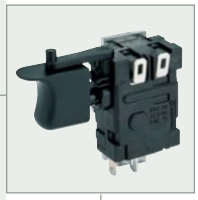
:: SPNO with integrated PWM (Pulse Width Modulated) electronics in various dimensions optional with:
- Integrated reversing module
- Lock-off in mid-position of lever
- Integrated brake contact

:: Dust protected

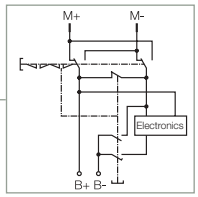
:: Average duty cycle of motor voltage 15 - 80 % (depending on series), then by-pass to battery voltage

2701/2707

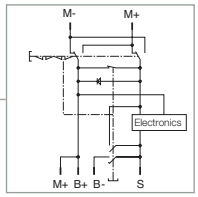




2711



2709



Technical data

:: Electrical ratings:

Series 2707:	20 A / up to 18 V
Series 2701:	25 A / up to 24 V
Series 2711:	25 A / up to 24 V
Series 2709:	25 A / up to 36 V

:: Mechanical endurance

SPNO	1E5 cycles
DPDT	5E4 cycles

:: Electrical endurance

SPNO	1E5 cycles
DPDT	5E4 cycles

:: Contacts Ag

:: Volume resistance with by-pass contact closed Series 2701, 2707, 2711: < 4 mΩ
Series 2709: < 7 mΩ

Terminals

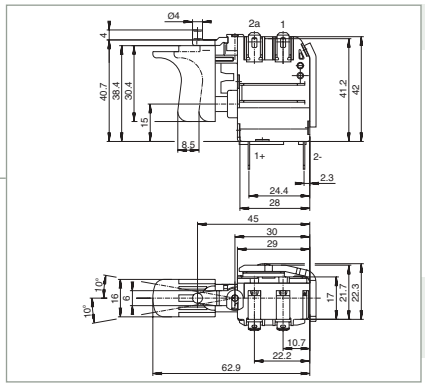
:: Series 2701, 2707 and 2711:
Solder lugs on the motor and battery side

:: Series 2709: flat connectors 6.3 x 0.8 on the motor and battery side

SERIES 2701/2707 – SWITCHES WITH ELECTRONICS

FOR CORDLESS DC POWER TOOLS

2701.5201
with reversing module



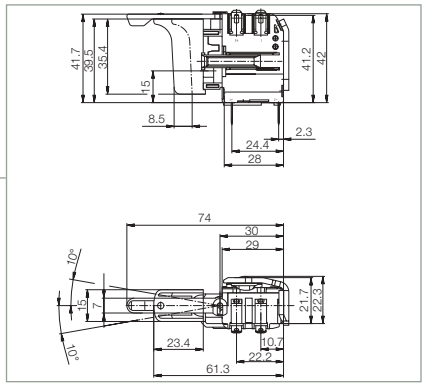
Product description

:: Electrical rating 25 A/12 V
:: Rated battery voltage 7,2 V-14,4 V
:: With integrated brake contact
:: Copper heat sink

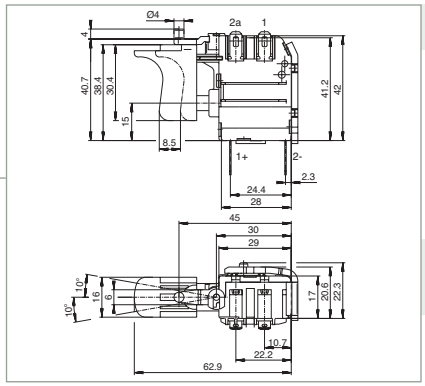
Special versions on request

:: Switches with battery clamps
:: Switches for higher battery voltages up to 24 V
:: Versions with torque control

2701.5101
with reversing module



2707.5301
with reversing module



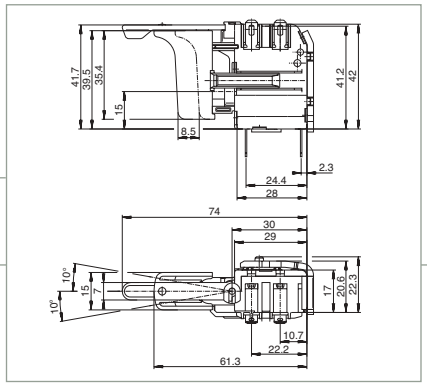
Product description

:: Electrical rating 20 A/12 V
:: Rated battery voltage 7,2 V-12 V
:: Aluminium heat sink

Special versions on request

:: Switches with battery clamps
:: Switches with brake contact
:: Switches for higher battery voltages up to 18 V

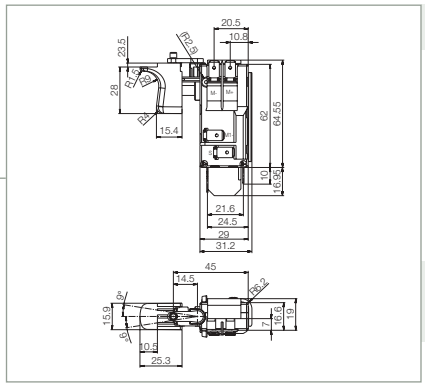
2707.5101
with reversing module



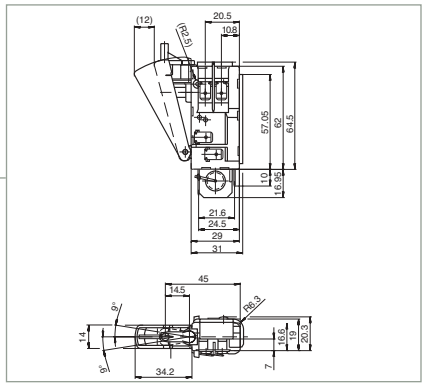
SERIES 2709/2711 – SWITCHES WITH ELECTRONICS

FOR CORDLESS DC POWER TOOLS

2709.5301
with reversing module



2709.5101
with reversing module



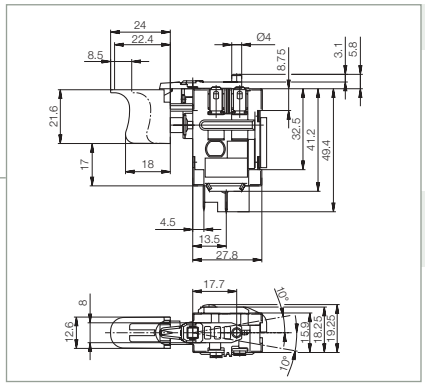
Product description

:: Electrical rating 25 A/36 V
:: Rated battery voltage 24 V-36 V
:: With integrated brake contact
:: Copper heat sink

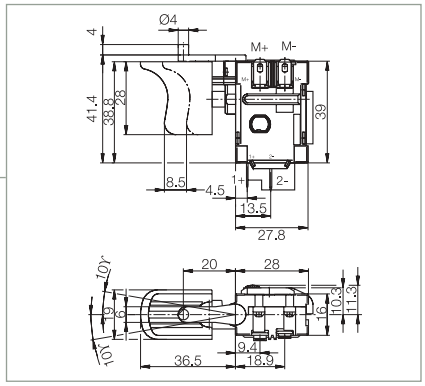
Special versions on request

:: Switches with solder lugs
:: Switches with two parallel MOSFETs for higher currents
:: Switches with integrated passive linear potentiometer
:: Switches with one-finger and two-finger trigger
:: Switches with long lever for direct actuation
:: ON-OFF versions without Electronics

2711.5602
with reversing module



2711.5101
with reversing module



Product description

:: Electrical rating 25 A/12 V
:: Rated battery voltage 7,2 V-12 V

Special versions on request

:: Switches with battery clamps
:: Switches without brake contact
:: Switches for higher battery voltages up to 24 V

CUSTOMIZED VERSIONS

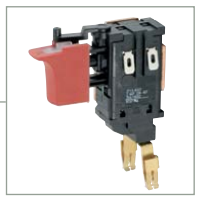
FOR CORDLESS DC POWER TOOLS

Series 2701

Series 2705

Series 2711

Series 2713



SWITCHES WITH ELECTRONICS FOR CORDED POWER TOOLS

MARQUARDT

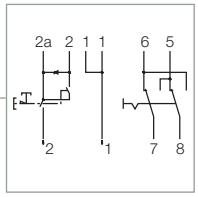
SERIES 1298/1299/2504 - SWITCHES WITH/WITHOUT ELECTRONICS

FOR CORDED POWER TOOLS

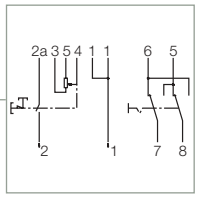
Product description

:: SPNO with by-pass contact in different electronic versions, such as half-wave speed control with or without feed-back, full-wave speed control, diode or passive linear potentiometer optional with:
- Reversing module
- Thumbwheel for limiting actuator travel
- Lock-on

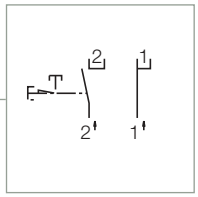
1298/2504



1299
with passive linear potentiometer



1299
ON/OFF



Technical data

:: Electrical rating mechanical contact system SPNO
8 (8) A 250 V~ 5E4 / 13 A 125 V AC
:: Mechanical endurance
SPNO 1E5 cycles
DPDT 1E4 cycles
:: Electrical endurance
SPNO 1 E5 cycles
DPDT 5 E4 cycles
:: Contacts Ag
:: The electronics are to be tested together with the corresponding appliance
:: Suitable for appliances of class II

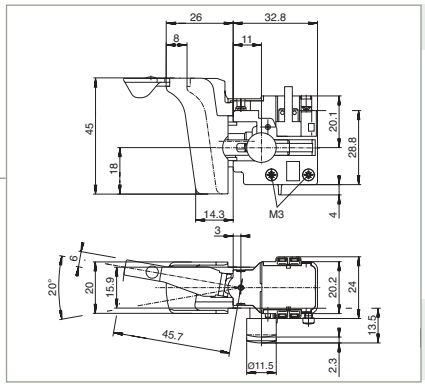
Terminals

:: Line side: pillar terminals M3
:: Motor side: push-in terminals for soldered strands, strands with end sleeves or strands with end claws
:: Versions with reversing module additional 4 x plug-in terminals 2,8 x 0,8 mm

SERIES 1298/2504 - SWITCHES WITH ELECTRONICS

FOR CORDED POWER TOOLS

1298.5401
2504.5401



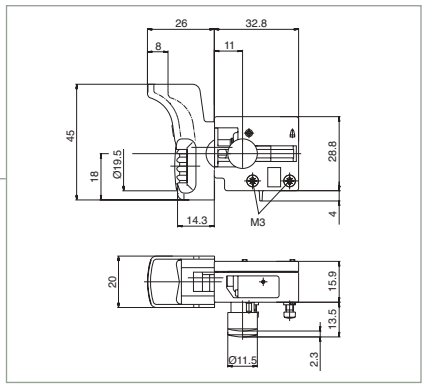
Series 1298

:: Half-wave electronic speed control with by-pass contact
:: Electrical rating mechanical contact system SPNO
6 (6) A 250 V~ 5E4 / 10 A 125 VAC

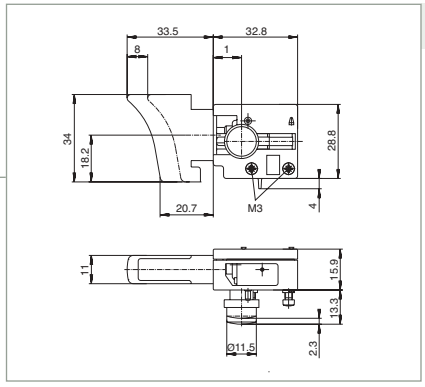
Special versions 1298 on request

:: With longer heat sink for higher currents
:: For special voltages, special frequencies and special functions
:: Without lock-button

1298.2401
2504.2401



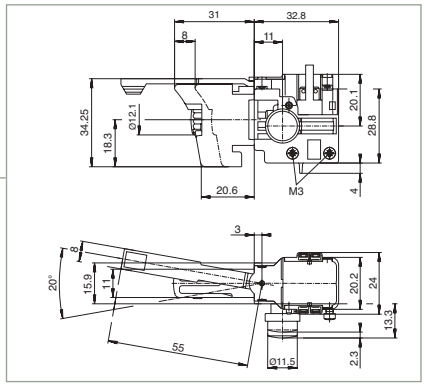
1298.0101
2504.0101



Series 2504

:: Half-wave electronic speed control with by-pass contact
:: Electrical rating mechanical contact system SPNO
6 (6) A 250 V~ 5E4
:: Electrical rating Electronics
3,5 A 250 V~

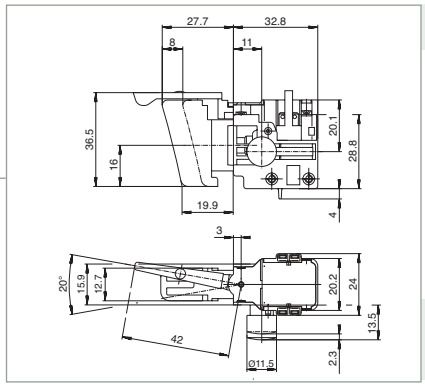
1298.7101
2504.7101



SERIES 1298/2504 - SWITCHES WITH ELECTRONICS

FOR CORDED POWER TOOLS

1298.5201
2504.5201



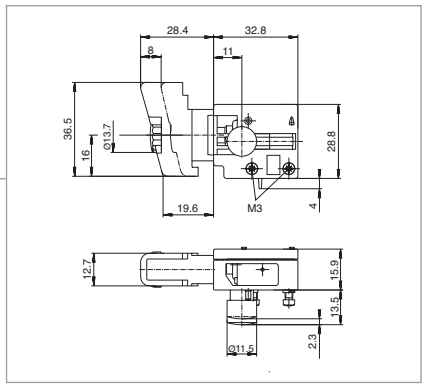
Series 1298

:: Electrical rating mechanical contact system SPNO
6 (6) A 250 V~ 5E4 / 10 A 125 VAC
:: Electrical rating electronics depending on the application

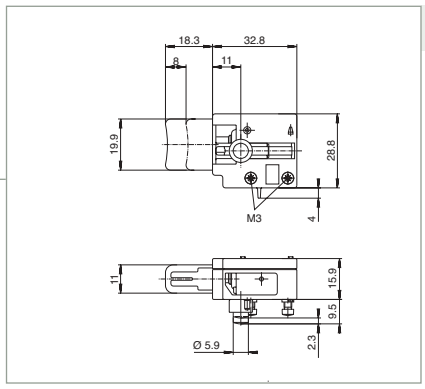
Special versions 1298 on request

:: With extended heat sink for higher currents
:: For special voltages, special frequencies and special functions

1298.2201
2504.2201



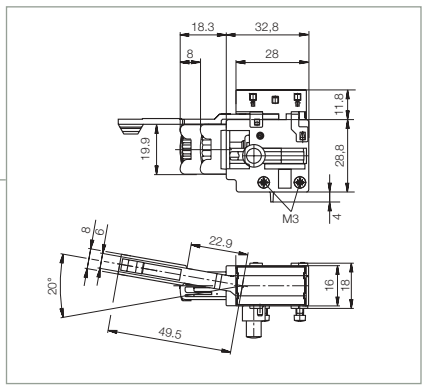
1298.0301
2504.0301



Series 2504

:: Electrical rating mechanical contact system SPNO
6 (6) A 250 V~ 5E4
:: Electrical rating electronics
3,5 A 250 V~

1298.7312
2504.7312

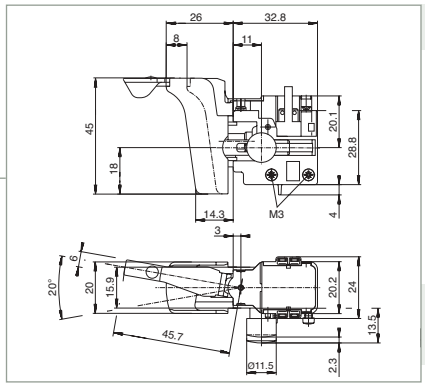


SERIES 1299 - SWITCHES WITH/WITHOUT ELECTRONICS

FOR CORDED POWER TOOLS

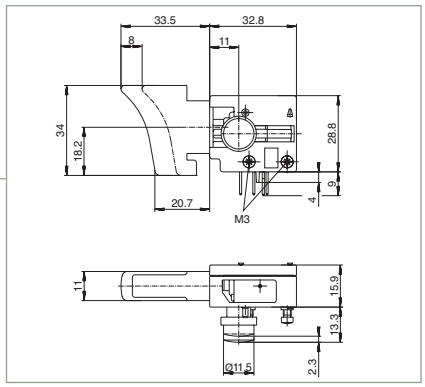
1299.5431

ON/OFF with reversing module



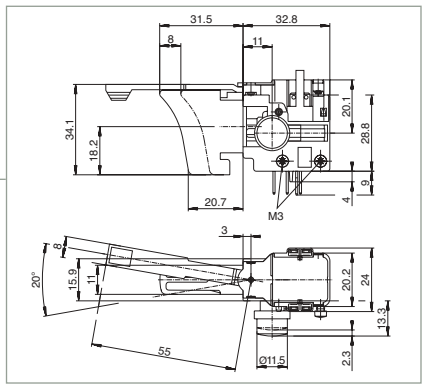
1299.0101

with passive linear potentiometer



1299.5101

with passive linear potentiometer and reversing module



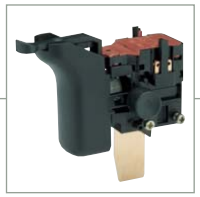
Series 1299

:: Electrical rating mechanical contact system SPNO 8 (8) A 250 V~ 5E4 / 13 A 125 VAC
:: SPNO optional with integrated passive linear potentiometer

Special versions 1299 on request

:: With integrated diode
:: Different actuator designs

Customized versions series 1298/2504/1299



SERIES 1201/1202/1203 - DPDT

REVERSING SWITCH FOR SERIES 1298/1299/2504

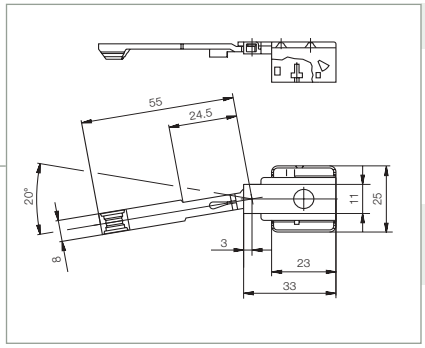
Product description

:: Double pole change-over for reversing direction
:: Additional switch for series 1298, 1299 and 2504
:: Various lever designs

Technical data

:: Mechanical endurance 1E4 cycles
:: Electrical endurance 5E4 cycles

1201



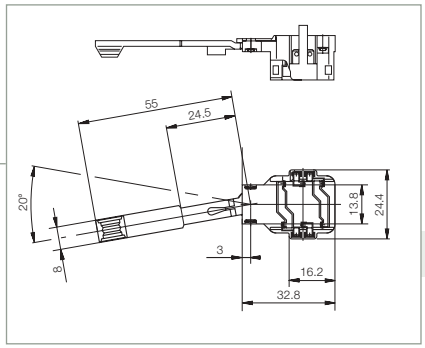
Terminals

:: 4 x plug-in terminals 2,8 x 0,8 mm or 4 x clamped connection without screws

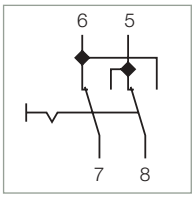
Special versions on request

:: With short lever for slide actuation

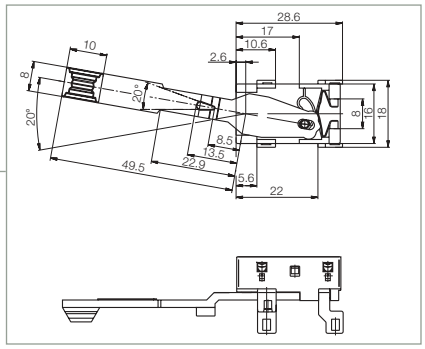
1202



Switching function



1203



SERIES 2602 - SWITCHES WITH ELECTRONICS

FOR CORDED POWER TOOLS

Product description

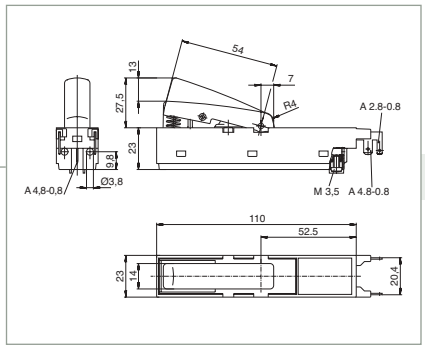
:: DPNO with by-pass contact, optional with:
- integrated half-wave electronic speed control or full-wave electronic speed control
- passive linear potentiometer
- Lock-on

:: Dust protected

Technical data

:: Electrical rating
10 (10) A 250 V~ 5E4 / 16 A 125 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

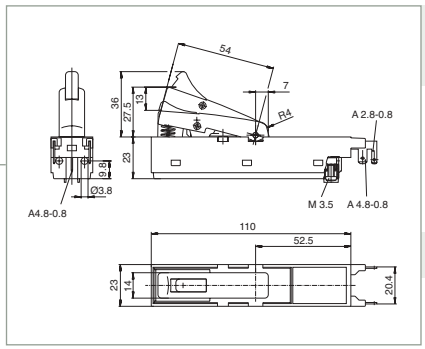
2602.0101



Terminals

:: Line side: pillar terminals M3,5 with screw locking
:: Motor side: flat connector 4,8 x 0,8 mm resp. additional 2,8 x 0,8 mm

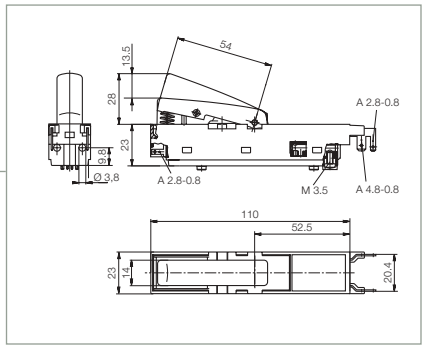
2602.0201
with lock-on



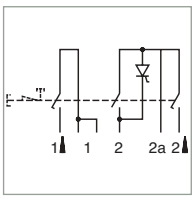
Special versions on request

:: ON/OFF version

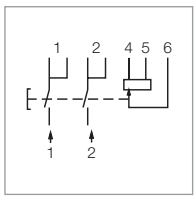
2602.5101
with passive linear potentiometer



Switching function



2602.0201



2602.5101

ON/OFF TRIGGER SWITCHES

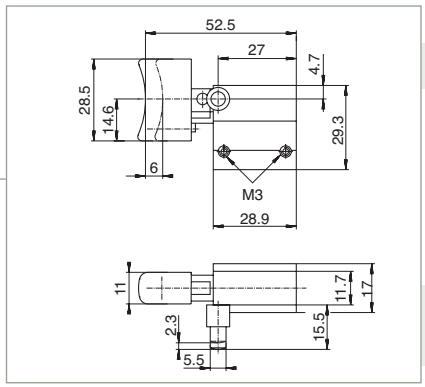
FOR AC AND DC POWER TOOLS

MARQUARDT

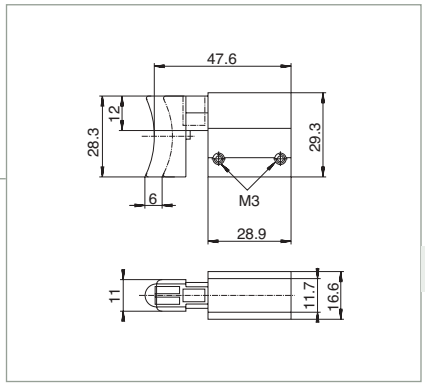
SERIES 1276 - ON/OFF TRIGGER SWITCHES

in US-SHAPE FOR CORDED POWER TOOLS

1276.0101
with lock-on



1276.0601



Product description

:: SPNO optional with:
- Lock-on
- Lock-off

Technical data

:: Electrical rating
8 (8) A 250 V~ 5E4 /
13 A 125 VAC / 6 A 250 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

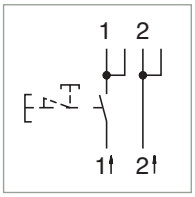
Terminals

:: Line side: 2 x pillar terminals M3
:: Motor side: 4 x push-in terminals for soldered strands, strands with end sleeves or strands with end claws

Special versions on request

:: SPNO with 2 x push-in terminals for soldered strands for line side and 2 x push-in terminals for soldered strands, strands with end sleeves or strands with end claws for motor side

Switching function



Customized versions

SERIES 1277 - ON/OFF TRIGGER SWITCHES

FOR CORDED POWER TOOLS

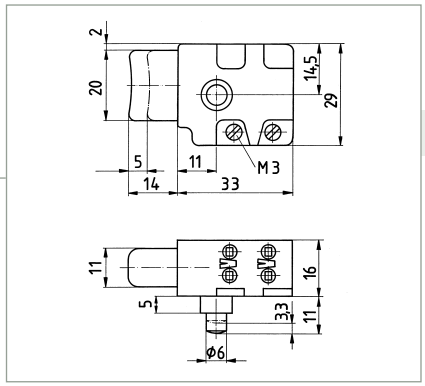
Product description

:: DPNO optional with:
- Lock-on
- Lock-off

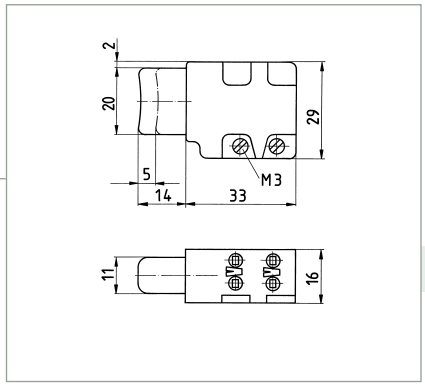
Technical data

:: Electrical rating
5 (5) A 250 V~ 5E4
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

1277.0101
with lock-on



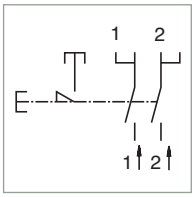
1277.0201



Terminals

:: Line side: 2 x pillar terminals M3
:: Motor side: 4 x push-in terminals for soldered strands, strands with end sleeves or strands with end claws

Switching function



Customized versions

SERIES 2100 - ON/OFF TRIGGER SWITCHES

FOR CORDED POWER TOOLS

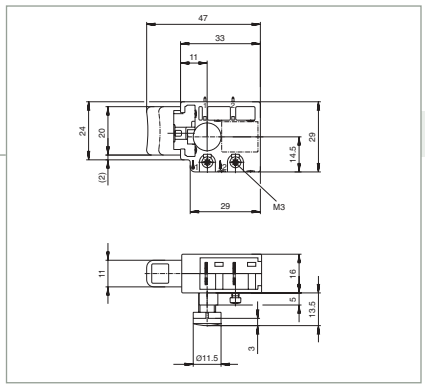
Product description

:: DPNO optional with:
- Lock-on
- Lock-off

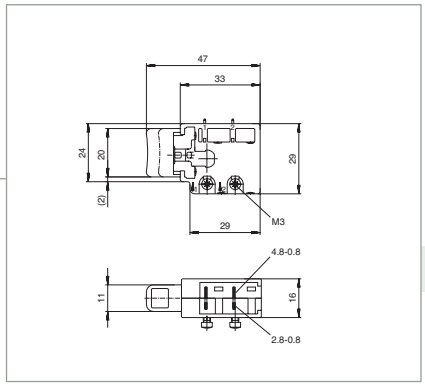
Technical data

:: Electrical rating
up to 8 (8) A 250 V~ 5E4 / 12 A 125 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

2100.0101
with lock-on
2100.0301
with lock-off



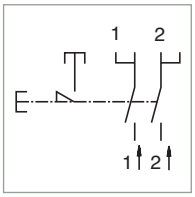
2100.0201



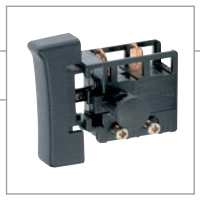
Terminals

:: Line side: pillar terminals M3 with screw locking
:: Motor side: plug-in terminals
4,8 x 0,8 mm resp. additional
2,8 x 0,8 mm

Switching function



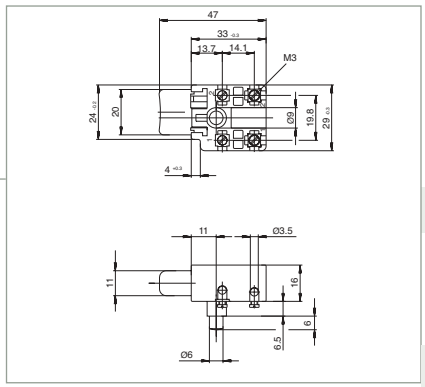
Customized version



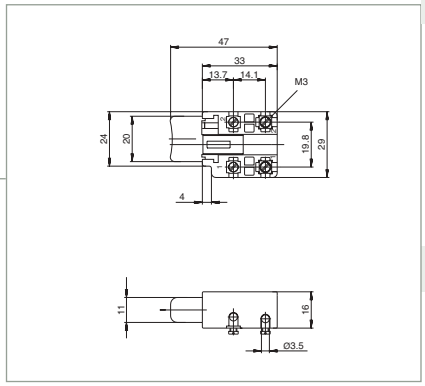
SERIES 1281 - ON/OFF TRIGGER SWITCHES

FOR CORDED POWER TOOLS

1281.0101
with Lock-on



1281.0201



Product description

:: DPNO optional with:
- Lock-on
- Lock-off

:: High dust protection for hardest application conditions

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
10 A 125 -250 VAC
3/4HP 125 VAC
1 1/2 HP 250 VAC

:: Mechanical endurance 1E5 cycles

:: Electrical endurance 5E4 cycles

:: Contacts Ag

::

:: Suitable for appliances of class II

Terminals

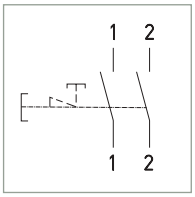
:: Pillar terminals M3

Special versions on request

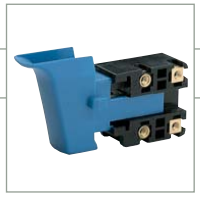
:: DPNO for higher electrical rating up to 17,5 A 125 V AC

:: Lock-on and lock-off

Switching function



Customized versions



SERIES 1269 - DOUBLE POLE ON/OFF TRIGGER SWITCHES

FOR CORDED AND CORDLESS POWER TOOLS

Product description

:: DPNO optional with:
- Lock-on
- Lock-off

:: Dust protected

Technical data

:: Electrical rating 10 (10) A 250 V~ 5E4
22 A 125 V AC/DC, 1 1/2 HP
10 A 250 V AC/DC, 1 HP

:: Mechanical endurance 1E5 cycles

:: Electrical endurance 5E4 cycles

:: Contacts Ag

::

:: Suitable for appliances of class II

Terminals

:: Screw terminals M3,5

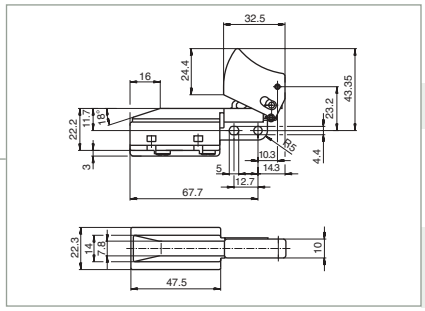
Special versions on request

:: SPDT change-over braking version

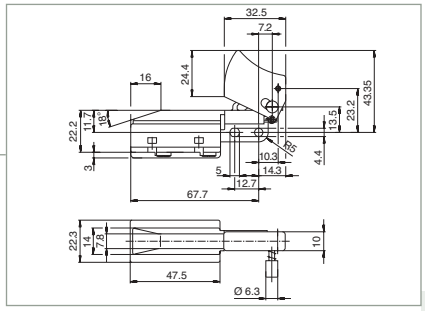
:: Upgraded version with arc extinguishing shield

:: Examples on page 35

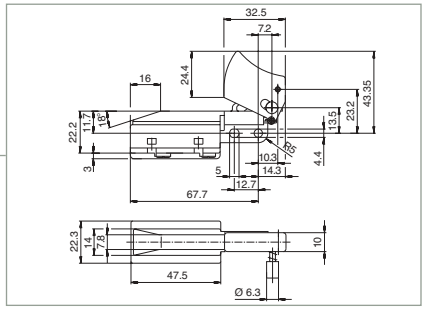
1269.0101



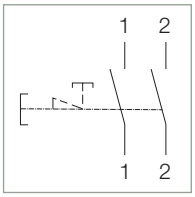
1269.0201
with lock-on



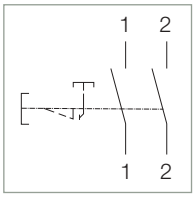
1269.0501
with lock-off



Switching function



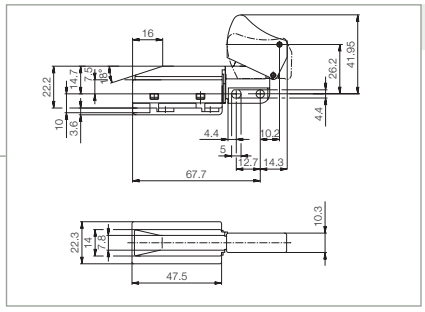
DPNO with lock-on



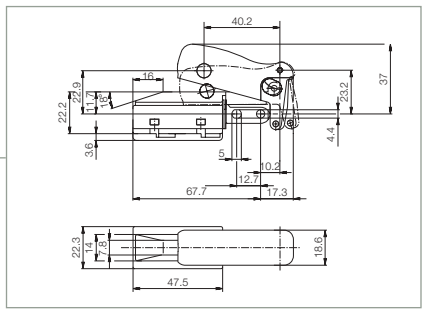
DPNO with lock-off

SERIES 1269 - DOUBLE POLE ON/OFF/

SINGLE POLE CHANGE-OVER SWITCHES



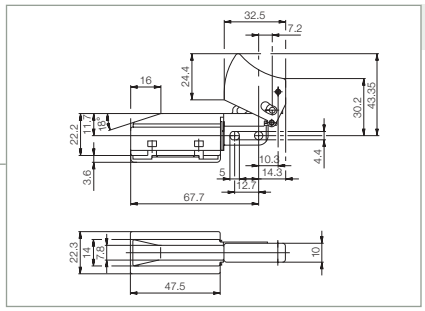
1269.0602



1269.0801

Product description

:: DPNO
:: Electrical rating 10 (10) A 250 V~ 5E4
22 A 125 V AC/DC, 1 1/2 HP
10 A 250 V AC/DC, 1 HP

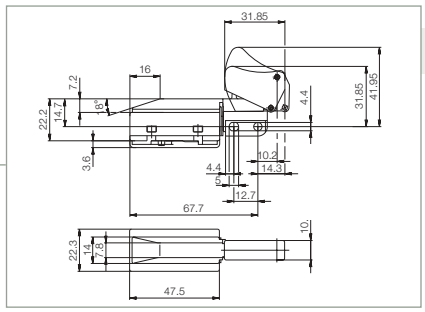


1269.1001

single pole change-over

Product description

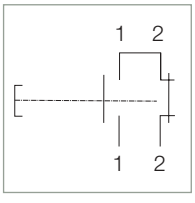
:: SPDT change-over, e.g. for braking power tools with additional auxiliary coil
:: Electrical rating 10 (10) A 250 V~ 5E4
22 A 125 V AC, 1 1/2 HP
15 A 125 V DC, 1 1/2 HP
:: Upgraded SPDT with arc extinguishing shield and higher DC-rating



1269.5601

single pole change-over with arc shield

Switching function



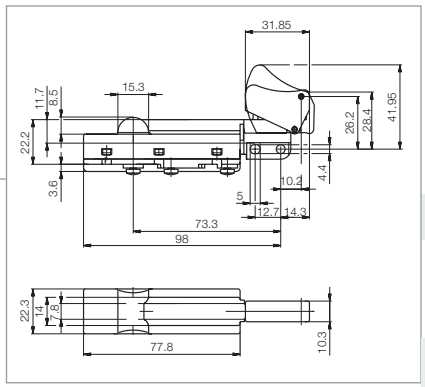
Change-over

Customized versions

SERIES 1369 - DOUBLE POLE ON/OFF TRIGGER SWITCHES

WITH TIME-DELAYED CONTACT FOR LIMITATION OF STARTING CURRENT

1369.0601



Product description

:: DPNO with additional time-delayed contact, e.g. for soft starting over protective resistor optional with:
- Lock-on
- Lock-off

:: Delay time 0,4 ... 0,8 sec at 20 °C ± 5 °C

:: Dust protected

Technical data

:: Electrical rating 10 (10) A 250 V≅ 5E4

:: Mechanical endurance 1E5 cycles

:: Electrical endurance 5E4 cycles

:: Contacts Ag

::

:: Suitable for appliances of class II

Terminals

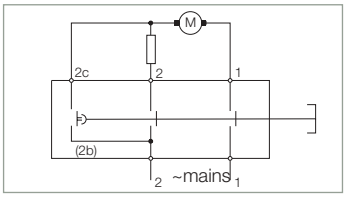
:: Screw terminals M3,5

Special versions on request

:: DPNO with additional normally closed contact e.g. for braking power tools with additional auxiliary coil

:: UL-Version

Switching function



SERIES 1267 - DOUBLE POLE ON/OFF TRIGGER SWITCHES

FOR CORDED POWER TOOLS

Product description

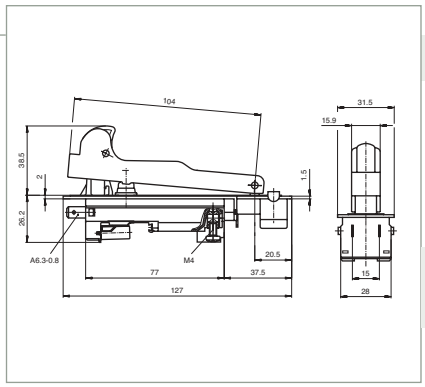
:: DPNO optional with:
- Lock-off
- Lock-on

:: Preparation for strain relief for power cord
:: Suppression capacitor
C=0,22 µF/275 VAC
:: Dust protected

Technical data

:: Electrical rating 10(10) A 250 V~ 5E4
16 A 125 -250 VAC
1 HP 125 VAC / 2 HP 250 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

1267.0101
with lock-on and lock-off



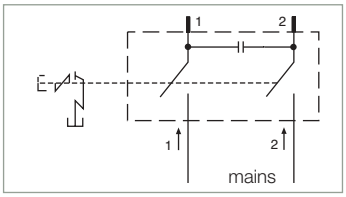
Terminals

:: Line side: pillar terminals M4 with screw locking
:: Motor side: plug-in terminals 6,3 x 0,8 mm

Special versions on request

:: DPNO for higher electrical ratings up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC
:: Without suppression capacitor

Switching function



Customized versions

SERIES 1362 - DOUBLE POLE ON/OFF TRIGGER SWITCHES

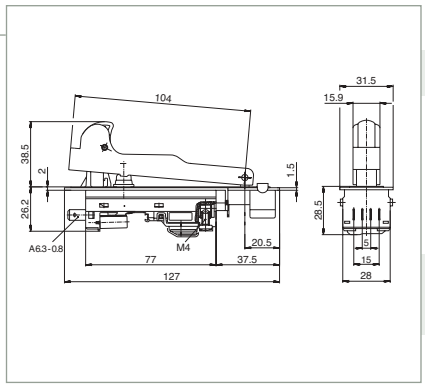
WITH TIME-DELAYED CONTACT FOR LIMITATION OF STARTING CURRENT

Product description

:: DPNO with additional time-delayed contact, e.g. for soft start-up over protective resistor, optional with:
- Lock-off
- Lock-on

:: Preparation for strain relief for power cord
:: Delay time 0,3 up to 0,9 sec
:: Suppression capacitor C=0,22 µF/275 V AC
:: Dust protected

1362.0101
with lock-on and lock-off



Technical data

:: Electrical rating 2,6 kW 250 V~ with limitation of starting current
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
:: Suitable for appliances of class II

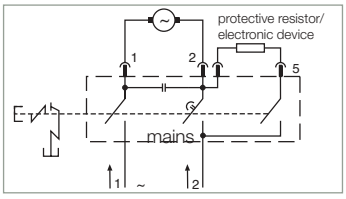
Terminals

:: Line side: pillar terminals M4 with screw locking
:: Motor side: plug-in terminals 6,3 x 0,8 mm

Special versions on request

:: DPNO without lock-off
:: Without lock-on
:: Without suppression capacitor

Switching function



:: We can help you in the choice of the protective resistor/ electronics.

Customized versions

SERIES 2200 - DOUBLE POLE ON/OFF TRIGGER SWITCHES

FOR CORDED POWER TOOLS

Product description

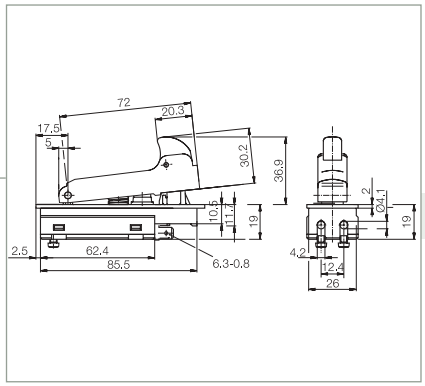
:: DPNO optional with:
- Lock-off
- Lock-on

:: Suppression capacitor C=0,22 µF/275 VAC
:: Dust protected

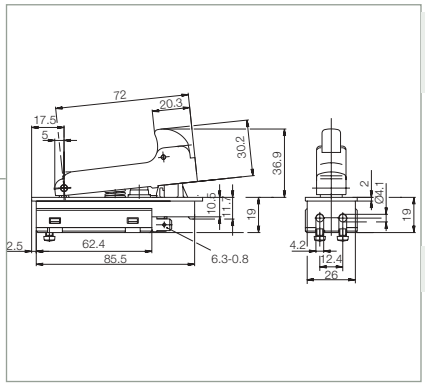
Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
16 A 125 -250 VAC / 14 A 125 -250 VAC
3/4 HP 125 VAC
1 1/2 HP 250 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

2200.0101
with lock-on and lock-off



2200.0301
with lock-on



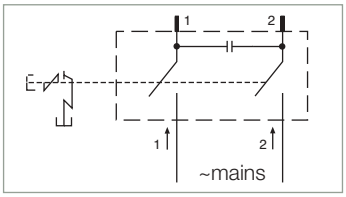
Terminals

:: Line side: pillar terminals M4
:: Motor side: plug-in terminals 6,3 x 0,8 mm

Special versions on request

:: DPNO for higher electrical ratings up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC

Switching function

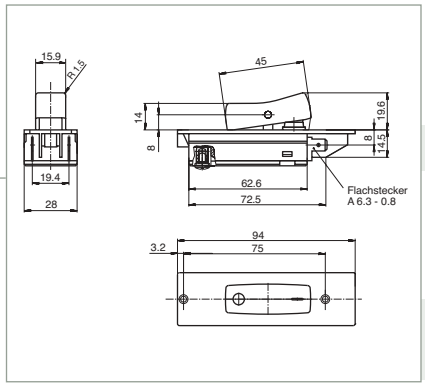


Customized versions

SERIES 1257 - DOUBLE POLE ON/OFF ROCKER SWITCHES

FOR CORDED POWER TOOLS

1257.0101



Product description

:: DPST
:: Suppression capacitor C=0,22 µF/275 VAC
:: Dust protected

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
14 A 125 -250 VAC
3/4 HP 125 VAC
1 1/2 HP 250 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

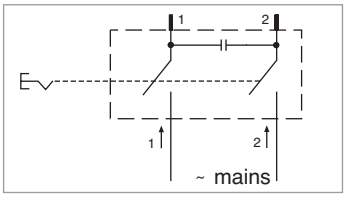
Terminals

:: Line side: pillar terminals M 4
:: Motor side: plug-in terminals 6,3 x 0,8 mm

Special versions on request

:: DPST for higher electrical ratings up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC

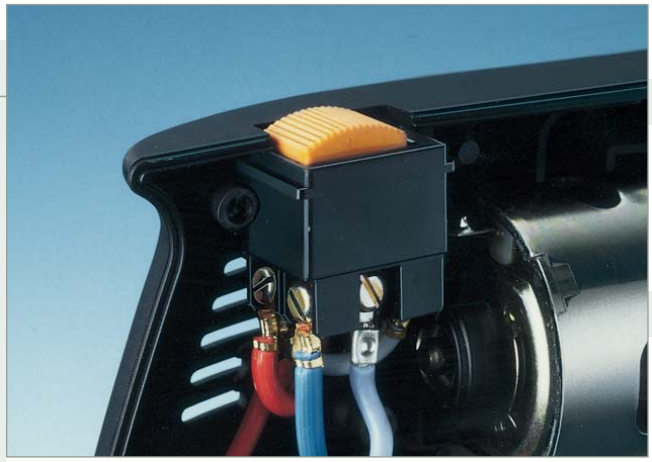
Switching function



Customized version

SERIES 1205 - DOUBLE POLE SLIDE SWITCHES

FOR REVERSING FUNCTIONS



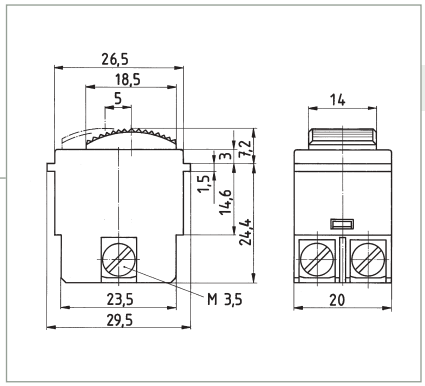
Product description

:: DPDT
:: Dust protected

Technical data

:: Electrical rating 10 (6) A 250 V~
:: Mechanical endurance 5E4 cycles
:: Electrical endurance 1E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

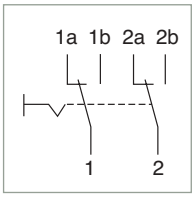
1205.0101



Terminals

:: Line side: screw terminals M3,5
:: Motor side: screw terminals M3,5

Switching function



SERIES 1206 - SINGLE POLE SLIDE SWITCHES

FOR DIRECT/INDIRECT ACTUATION FOR AC AND DC POWER TOOLS

Product description

:: SPST optional with fixing barrier
:: For direct and indirect actuation
:: Dust protected
:: Optional sealing from actuation side

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
15 A 125 VAC / 8 A 250 VAC
25 A 12-36 V DC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

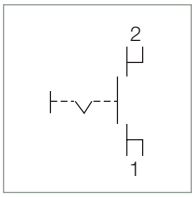
Terminals

:: Plug-in terminals 6,3 x 0,8 mm
:: PCB terminals straight

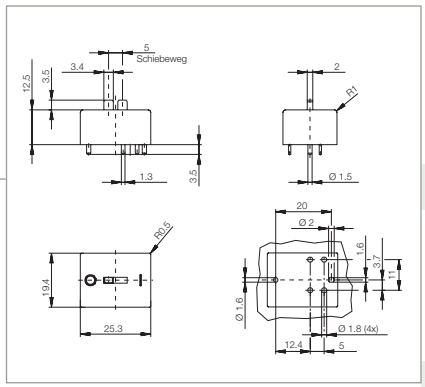
Special versions on request

:: Other solder lugs
:: Momentary function

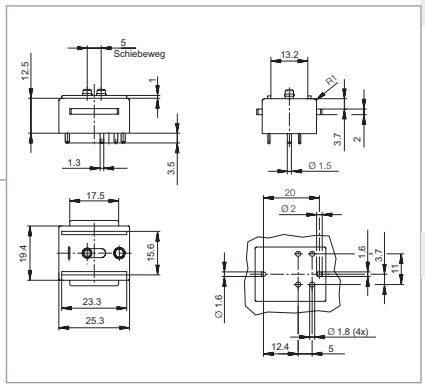
Switching function



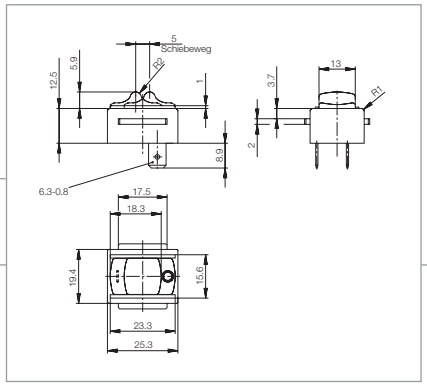
1206.2501
for indirect actuation



1206.2701
for snap-on of customized sliders, with fixing barrier



1206.3201



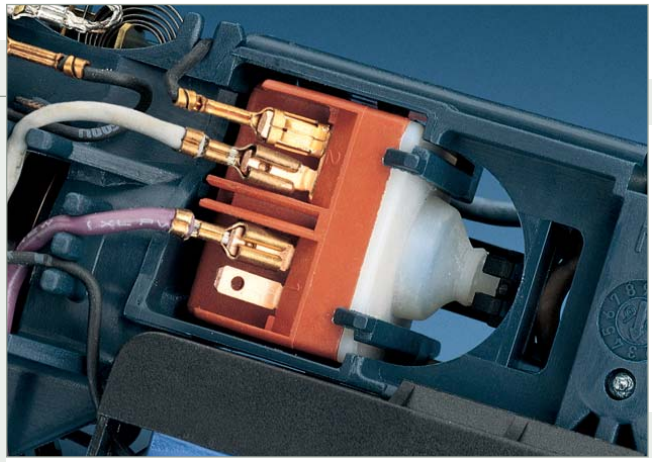
SWITCHES FOR INDIRECT ACTUATION

FOR CORDED POWER TOOLS

MARQUARDT

SERIES 1247 - SINGLE AND DOUBLE POLE SWITCHES

FOR INDIRECT ACTUATION FOR CORDED POWER TOOLS



Product description

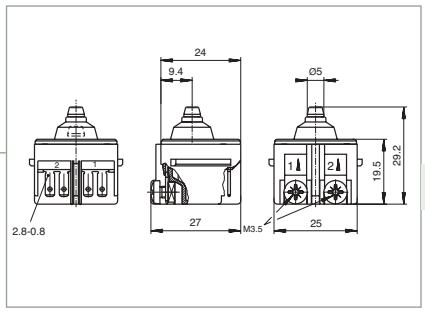
:: SPNO and DPNO optional with:
- Mounting ribs
- Suppression capacitor

:: SPNO (second path bridged)
:: Dust protected

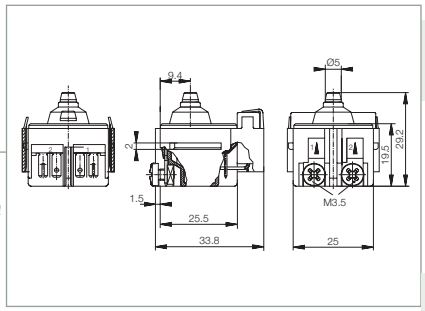
Technical data

:: Electrical rating 7 (7) A 250 V~ 5E4
10 A 125 VAC / 5 A 250 VAC
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

1247.0301
SPNO
1247.2301
DPNO



1247.0501
SPNO with suppression capacitor
1247.2501
DPNO with suppression capacitor

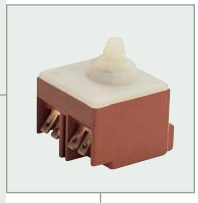


Terminals

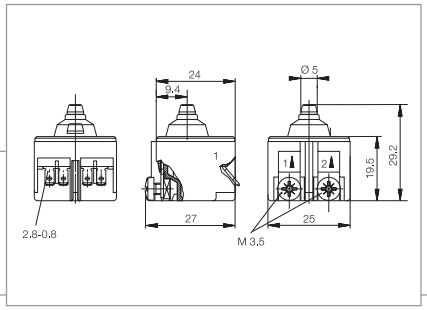
:: Line side: screw terminals M3,5
:: Motor side and suppression device: plug-in terminals 2,8 x 0,8 mm

Special version on request

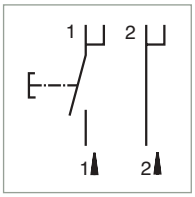
:: Non-momentary function (push/pull)



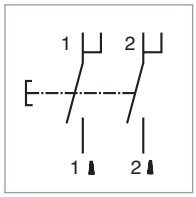
1247.0102
SPNO
1247.2102
DPNO



Switching function



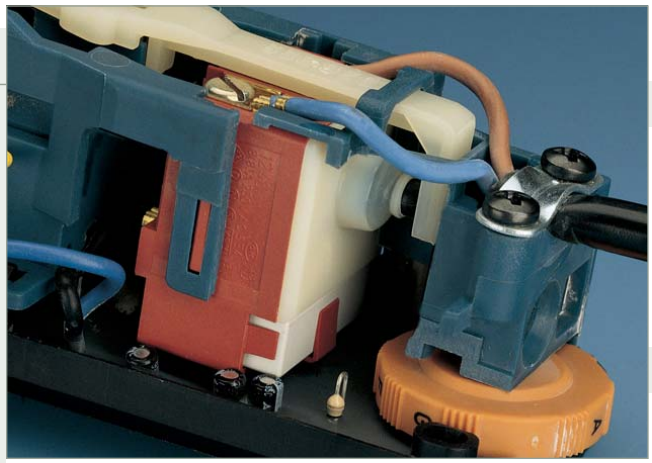
single pole



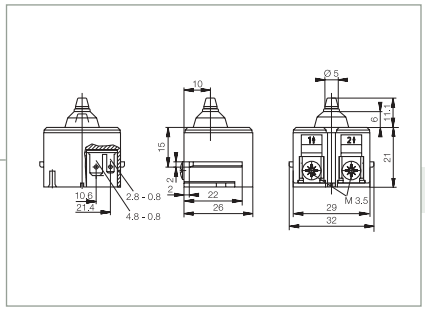
double pole

SERIES 1246 - DOUBLE POLE PUSH BUTTON SWITCHES

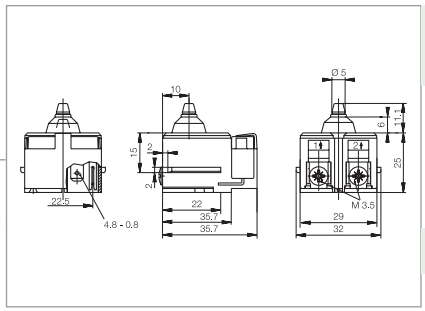
FOR INDIRECT ACTUATION FOR CORDED POWER TOOLS



1246.3201
DPNO



1246.3101
DPNO with suppression capacitor



Product description

:: DPNO optional with:
- Mounting ribs
- Suppression capacitor

:: Dust protected

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
14 A 125 VAC / 8 A 125 V DC
8 A 125 VAC

:: Mechanical endurance 1E5 cycles

:: Electrical endurance 5E4 cycles

:: Contacts Ag

::

:: Suitable for appliances of class II

Terminals

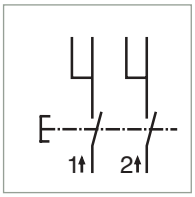
:: Line side: screw terminals M3,5

:: Motor side: plug-in terminals 4,8 x 0,8 mm, additional 2,8 x 0,8 mm

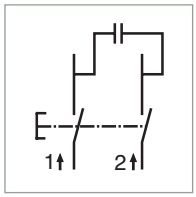
Special version on request

:: DPDT for 6 (6) A 250 V~

Switching function



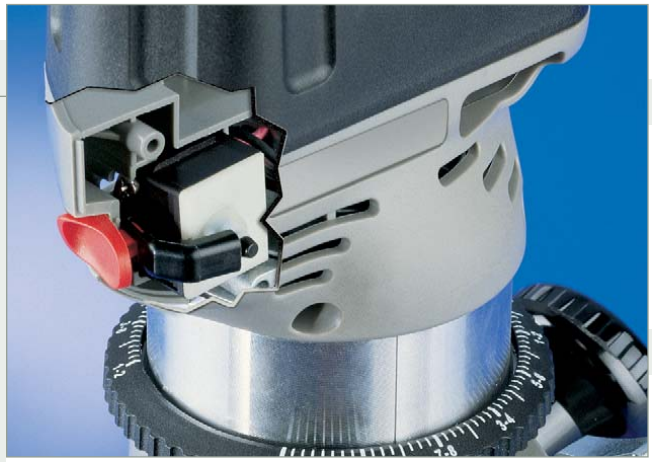
1246.3201



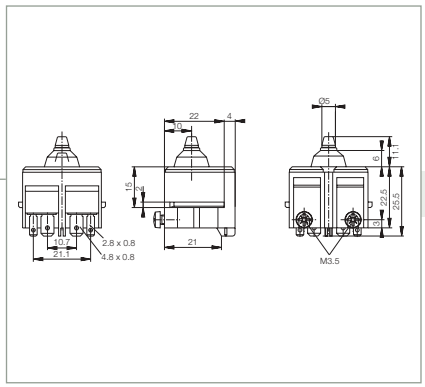
1246.3101

SERIES 1249 - DOUBLE POLE AC/DC PUSH BUTTON SWITCHES

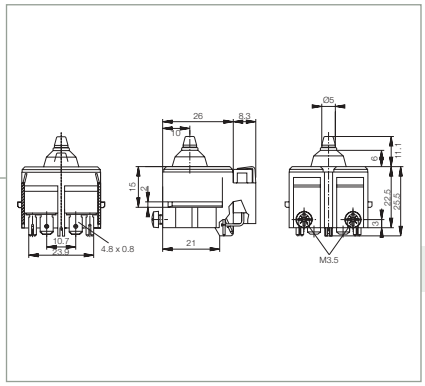
FOR INDIRECT ACTUATION FOR AC AND DC POWER TOOLS



1249.0101



1249.0201
with suppression capacitor



Product description

:: DPNO optional with:
- Suppression capacitor
- Mounting ribs

:: Dust protected

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
15 A 125 V AC 1 HP / 15 A 125 V DC 1 HP
25 A 24 V DC

:: Mechanical endurance 1E5 cycles

:: Electrical endurance 5E4 cycles

:: Contacts Ag

::

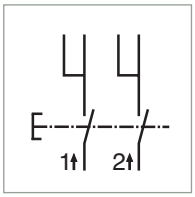
:: Suitable for appliances of class II

Terminals

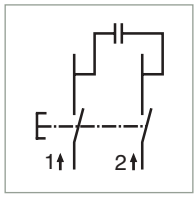
:: Line side: screw terminals M3,5

:: Motor side: plug-in terminals 4,8 x 0,8 mm resp. additional 2,8 x 0,8 mm

Switching function



1249.0101

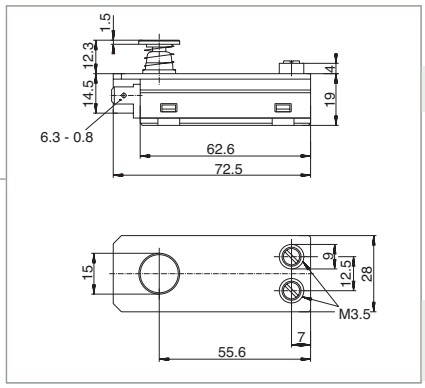


1249.0201

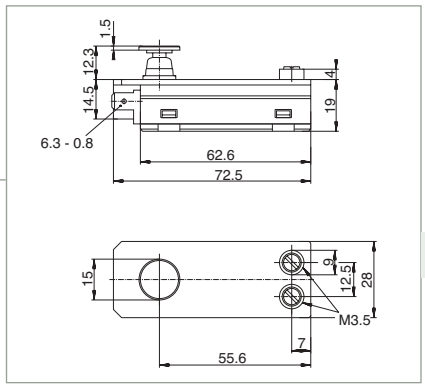
SERIES 1267 - DOUBLE POLE PUSH BUTTON SWITCHES

FOR INDIRECT ACTUATION FOR CORDED POWER TOOLS

1267.7101



1267.7121
non-momentary function



Product description

:: DPNO
:: Dust protected

Technical data

:: Electrical rating 8 (8) A 250 V~ 5E4
14 A 125 VAC 3/4 HP
14 A 250 VAC 1 1/2 HP
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
::
:: Suitable for appliances of class II

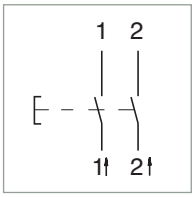
Terminals

:: Line side: screw terminals M4
:: Motor side: plug-in terminals
6,3 x 0,8 mm

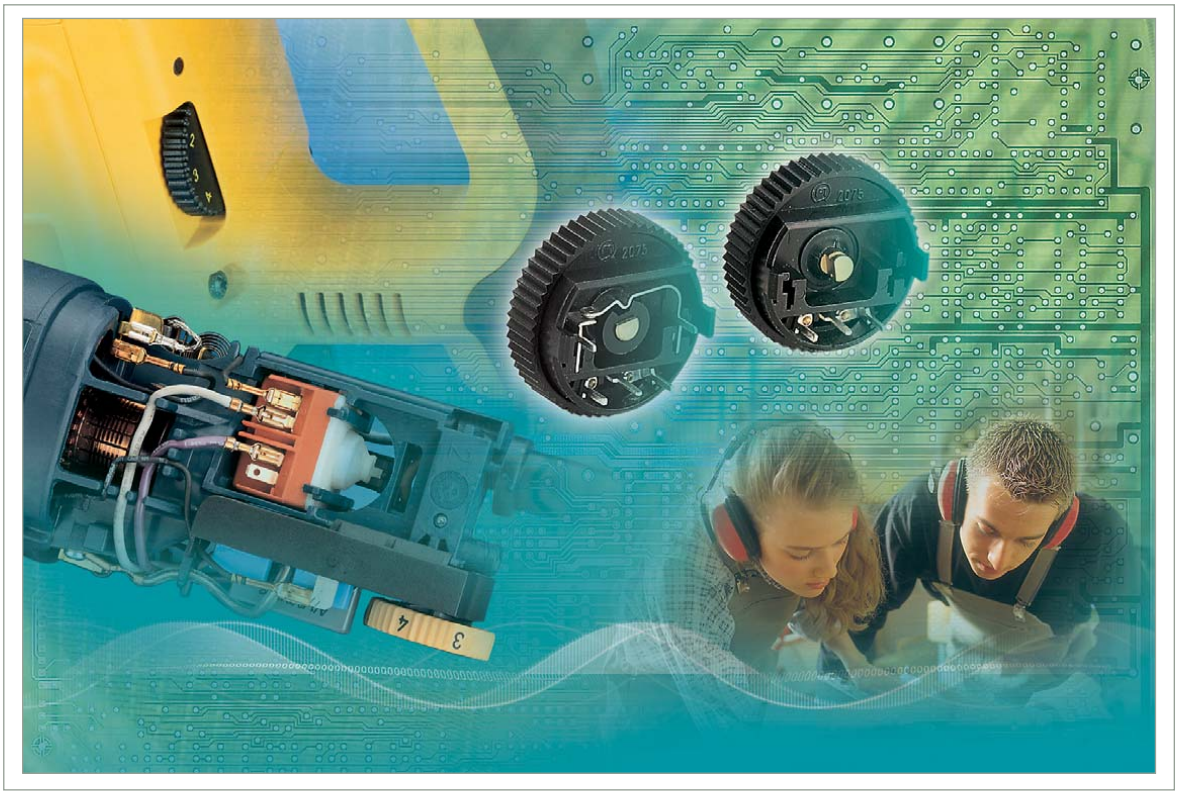
Special versions on request

:: DPNO for higher electrical ratings up to 12 (12) A 250 V~ 5E4, 20 A 125 -250 VAC

Switching function



ROTARY POTENTIOMETERS



MARQUARDT

SERIES 2075 - ROTARY POTENTIOMETER

FOR PCB ASSEMBLIES

Product description

:: Rotary potentiometer, optional with NO contact

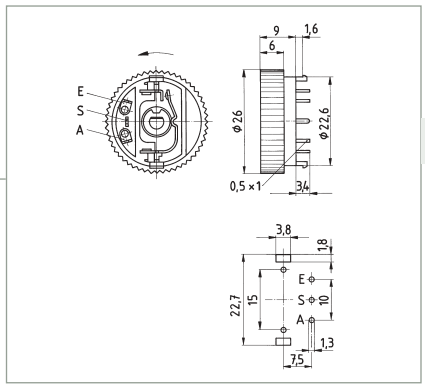
Technical data

:: Electrical rating SPNO
4 (2) A 250 V~ μ
:: Mechanical endurance 1E5 cycles
:: Electrical endurance 5E4 cycles
:: Contacts Ag
:: Resistance value R_N = 220 kΩ
Tolerance on request
:: Rotation angle of switch 30°, rotation angle of resistor 270°

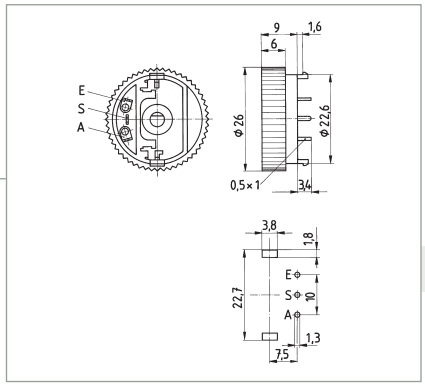
Terminals

:: Silver-plated PCB

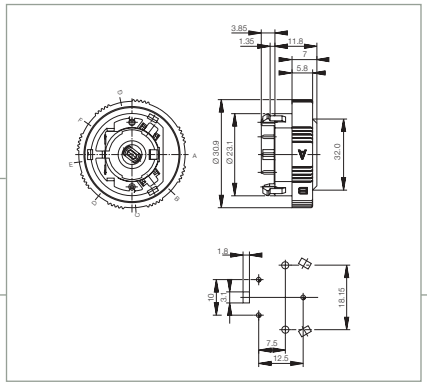
2075.1501
with switch



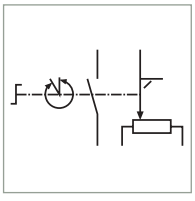
2075.1801
without switch



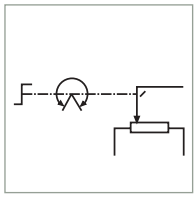
2075.2421
without switch, with print A-G, white



Switching function



with switch



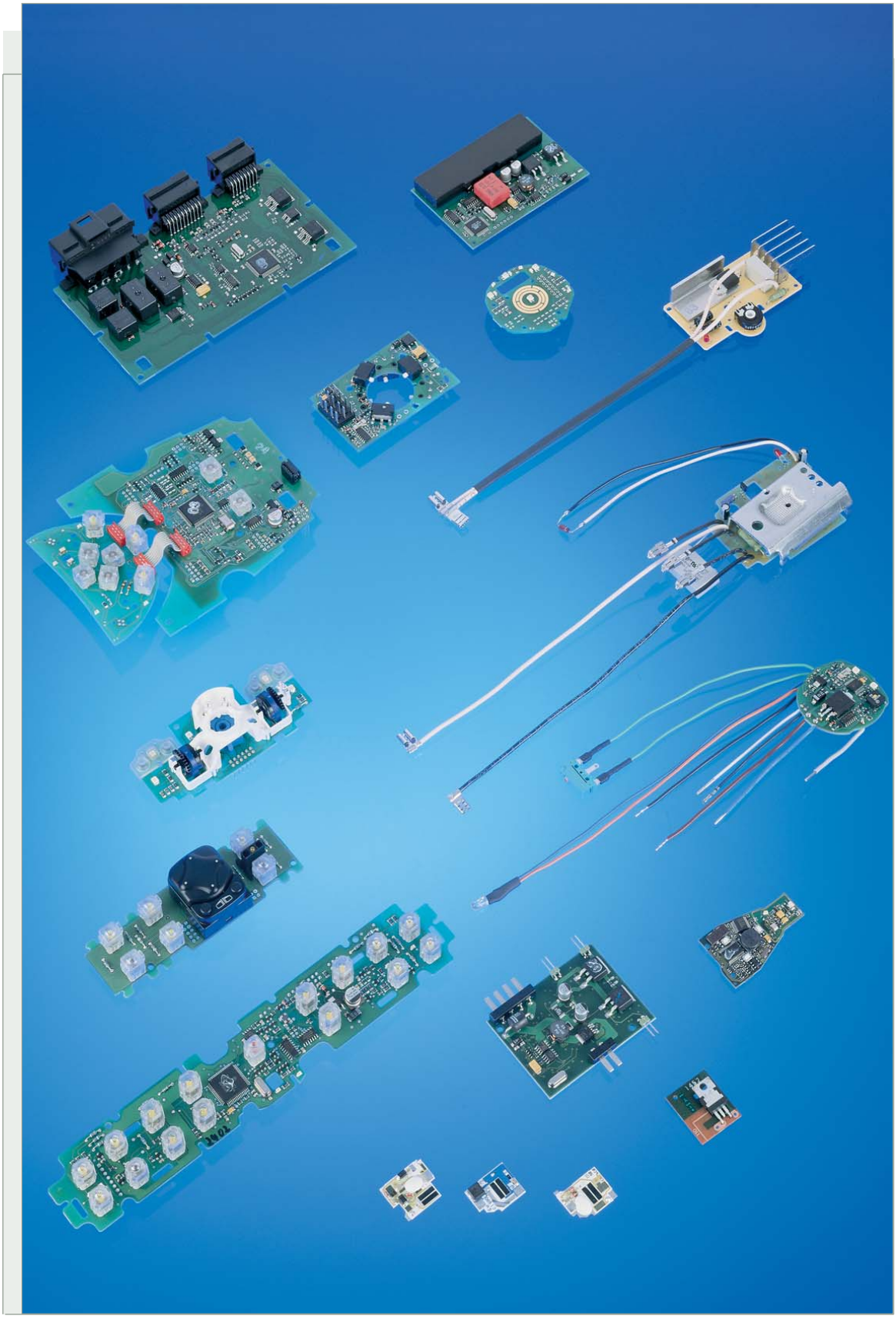
without switch

CUSTOMIZED POWER TOOL SWITCHES

AND BRUSHRINGS

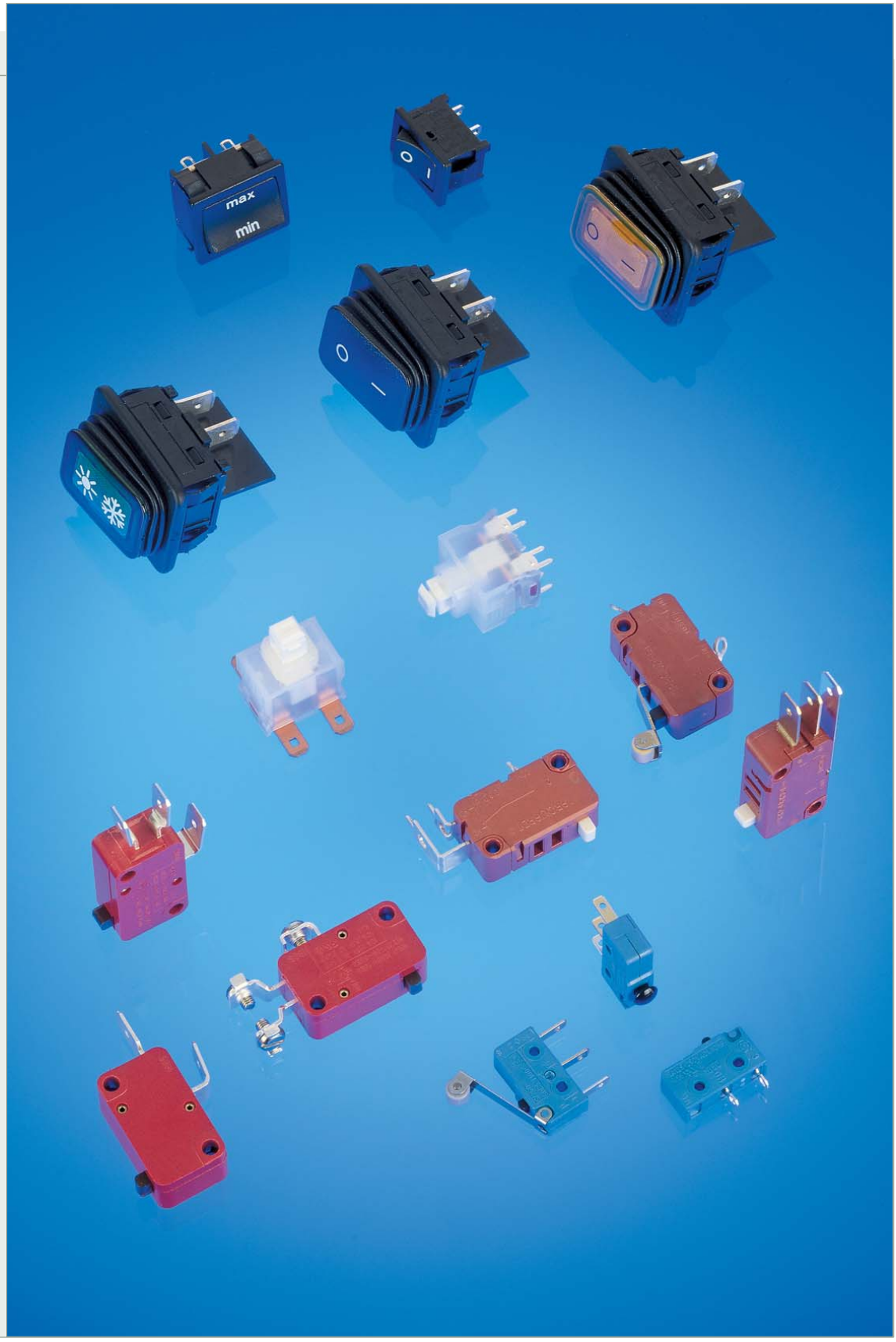
CUSTOMIZED SPEED-CONTROL UNITS WITH AND WITHOUT FEEDBACK

SOLID STATE CONTROL UNITS



ROBUST APPLIANCE AND SNAP ACTION SWITCHES

FOR USE IN POWER TOOLS



For further information about these switches please request our standard switches catalog.

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PRODUCT RANGE

SWITCHES AND SWITCHING SYSTEMS FOR AUTOMOBILES	Rocker, toggle and push button switches, bus-capable switches, multifunctional switches, control panels, control devices, electronic keys, electronic ignition starter switches, Keyless Go systems, electronic steering locks
POWER TOOL SWITCHES	Mechanical and electronic switches and switching systems for DC and AC electrical power tools
APPLIANCE SWITCHES	Rocker switches, toggle switches, slide switches, push button switches, rotary multistep switches, foot switches and pilot lights
SNAP ACTION SWITCHES	Open, enclosed and bistable snap action switches, open leaf switches, snap action switches with dust and splash water protection
SENSORS AND SYSTEM SOLUTIONS	Flow sensors, turbidity sensors, displacement sensors, automatic control systems

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