

电动工具的首选开关品牌

KEJIAN ELECTRONICS



KOJEA®

乐清市科舰电子有限公司
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YUEQING KEJIAN ELECTRONICS CO.,LTD.



4万m²工厂外景

公司简介

乐清市科舰电子有限公司始创于2007年是一家年轻而充满活力的企业，主要生产的产品为器具类开关和轻触开关，其中电动工具开关广泛应用于各类手持式电动工具、充电式电动工具、台式电动工具、电动园林工具、清洁器具、家用电器等，我们致力于成为电动工具的首选开关品牌，让世界信任中国造！

科舰电子经过多年的制程改良与技术革新，不断引进和学习国内外先进的生产工艺和管理理念，公司通过了ISO9001:2015、ISO14001:2015、ISO45001:2018以及TS16949体系认证，核心产品全部实现了自动化生产，配备了设备齐全的实验室获美国UL的UL61058 WTDP目击实验室认证，并通过德国莱茵TÜV公司认可。

科舰电子立足国内市场的同时，为了架构全球服务体系，公司在德国、英国、巴西等相继成立据点，用我们最专业的知识为国内外市场提供全面快速服务。

INTRODUCTION

Yueqing Kejian Electronics Co.,Ltd.was founded in 2007 as a young and dynamic enterprise. Its main products are appliance switches and tact switches, among which power tool switches are widely used in various hand-held power tools, rechargeable Power tools, desktop power tools, power garden tools, cleaning appliances, household appliances, etc., we are committed to becoming the preferred switch brand for power tools, so that the world trusts made in China!

After years of process improvement and technological innovation, Kejian Electronics has continuously introduced and learned advanced domestic and foreign Production process and management concept, the company has passed ISO9001:2015, ISO14001:2015, ISO45001:2018 and TS16949 system certification, all core products have achieved automatic production, equipped with a well-equipped laboratory, and obtained the UL61058 WTDP witness laboratory certification of UL in the United States , and approved by TÜV Rheinland.

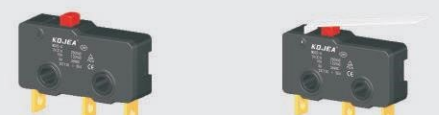
While Kejian Electronics is based in the domestic market, in order to build a global service system, the company has successively established bases in Germany, the United Kingdom, Brazil, etc., using our most professional knowledge to provide comprehensive and fast services for domestic and foreign markets.

A. 微动开关 Micro Switch



MS 01 series
微动开关(弹片式)
Micro Switch (Leaf Spring Type)

A01~A06



MS 02 series
微动开关(拉簧式)
Micro Switch (Tension Spring Type)

A07~A08

B. 直流扳机开关 DC Trigger Switches



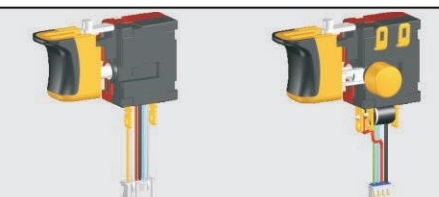
DT 01 series
防尘直流信号扳机开关
Dustproof DC Signal Trigger Switch

B01~B02



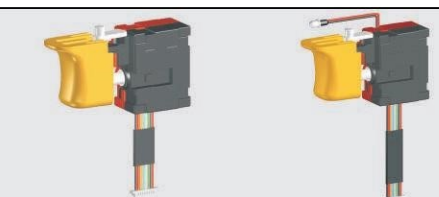
DT 02 series
防尘直流扳机开关
Dustproof DC Trigger Switches

B03~B07



DT 03 series
防尘直流扳机开关
Dustproof DC Trigger Switch

B08~B11



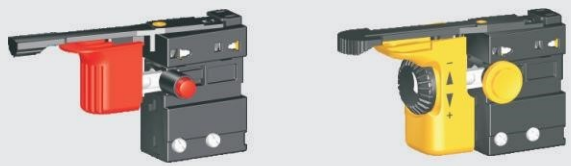
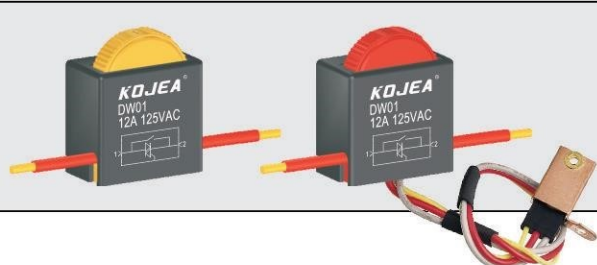
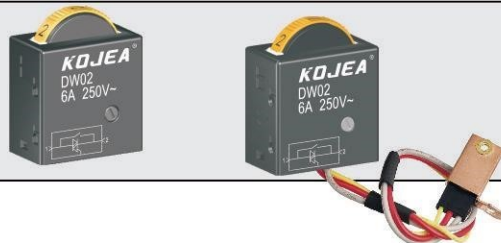
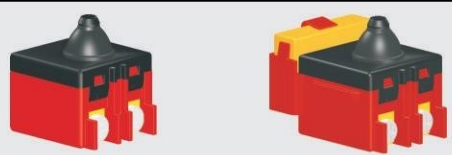
DT 04 series
防尘直流信号扳机开关
Dustproof DC Signal Trigger Switch

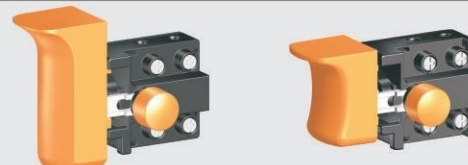
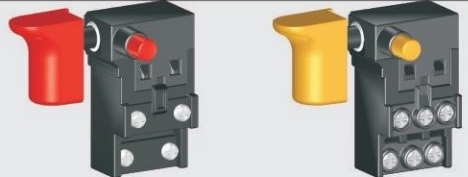
B12~B15

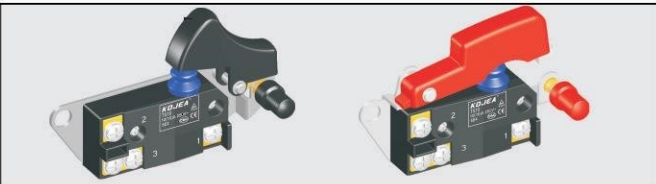
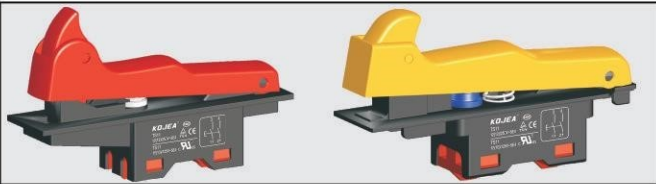
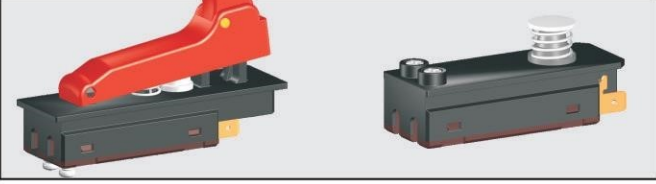


DT 05 series
防尘直流扳机开关
Dustproof DC Trigger Switch

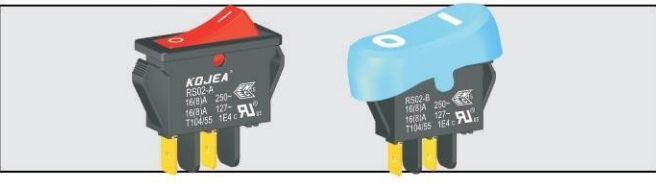
B16~B19

B. 直流扳机开关 DC Trigger Switches			
		DT 06 series 防尘(智能)直流扳机调速开关 Dustproof (Multi-function) DC Variable Speed Trigger Switches	B20~B23
C. 交流扳机调速开关 AC Variable Speed Trigger Switches			
		AT 01 series 防尘交流扳机调速开关 Dustproof Variable Speed Trigger Switch	C01~C04
		AT 02 series 防尘交流扳机调速开关 Dustproof Variable Speed Trigger Switch	C05~C08
D. 交流转盘 调速器 AC Dial Wheel Speed Control			
		DW 01 series 交流转盘调速器 AC Dial Wheel Speed Controls	D01~D02
		DW 02 series 交流转盘调速器 AC Dial Wheel Speed Controls	D03~D06
E. 按钮开关 Push button Switches			
		PB 01 series 防尘 按钮开关 Dustproof Push-button Switches	E01~E04

F. 扳机开关 Trigger Switches			
		TS 01 series 防尘 扳机开关 Dustproof Trigger Switches	F01~F04
		TS 02 series 防尘快速动作扳机开关 Dustproof Snap-action Trigger Switches	F05~F08
		TS 03 series 防尘 扳机开关 Dustproof Trigger Switches	F09~F12
		TS 04 series 防尘 扳机开关 Dustproof Trigger Switches	F13~F16
		TS 05 series 防尘 扳机开关 Dustproof Trigger Switches	F17~F20
		TS 06 series (防尘) 扳机开关 (Dustproof) Trigger Switches	F21~F26
		TS 07series (防尘) 快速动作扳机开关 (Dustproof) Snap-action Trigger Switches	F27~F32
		TS 08 series 防尘快速动作扳机开关 Dust-proof Snap-action Trigger Switches	F33~F40
		TS 09 series 防尘快速动作扳机开关 Dust-proof Snap-action Trigger Switches	F41~F46

F. 扳机开关 Trigger Switches			
		TS 10 series 防尘快速动作扳机开关 Dust-proof Snap-action Trigger Switches	F47~F50
		TS 11series 防尘快速动作扳机开关 Dustproof Snap-action Trigger Switches	F51~F54
		TS 12 series 防尘快速动作扳机开关 Dustproof Snap-action Trigger Switches	F55~F58
		TS 13 series 防尘快速动作扳机开关 Dustproof Snap-action Trigger Switches	F59~F62

G. 倒扳开关 Lever Switches			
		LS 01 series 防尘倒扳开关 Dustproof Lever Switches	G01~G04
		LS 02 series 防尘倒扳开关 Dustproof Lever Switches	G05~G08

H. 跷板开关 Rocker Switches			
		RS 01 series (防尘) 跷板开关 (Dustproof) Rocker Switches	H01~H04
		RS 02 series (防尘) 跷板开关 (Dustproof) Rocker Switches	H05~H10

H. 跷板开关 Rocker Switches			
		RS 03 series 跷板开关 Rocker Switches	H11~H12
		RS 04 series (防尘防水) 跷板开关 (Dustproof and Waterproof)Rocker Switches	H13~H20

MS 01 微动开关 Micro Switch

MS01-A



MS01-B



产品描述 Product description

◆ **MS 01** 系列是一款标准型的微动开关, 触点间隙 $\geq 3.0\text{mm}$, 用途极广, 可用于各类电动工具和园林工具, 如: 型材切割机, 斜切锯, 高压清洗机, 打草机, 修枝剪, 电链锯, 电动螺丝刀, 电动钉枪, 电动喷枪, 脚踏开关等, 也可应用于各类家用电器及办公设备, 如: 碎纸机, 微波炉, 水泵浮球开关, 游戏摇杆, 门开关等。

◆ **MS 01** series are one standard micro switches, contact gap $\geq 3.0\text{mm}$, commonly for used in all kinds of power-tools and gardening tools, such as Cut-off Machines, Miter Saws, Electric Chain Saws, Grass Trimmers, Hedge Trimmers, Electric Screw Drivers, Electric Nailers, Electric Sprayers, High Pressure Cleaner, etc. Also for used in home appliances and office equipments, such as Paper Shredders, Microwave Ovens, Pumps Ball Cock Switches, Game Control Handles, Door Switches, etc.

特征 Features

◆ 可选附带以下功能 Optional with the function as follows:

- 单极常开 SPNO (Single Pole Normally Open)
- 单极常闭 SPNC (Single Pole Normally Close)
- 单极常闭常开 SPCO (Single Pole Close and Open)
- 双极常开 DPNO (Double Pole Normally Open)
- 双极常闭 SPNC (Double Pole Normally Close)
- 双极常闭常开 SPCO (Double Pole Close and Open)
- 双极常闭常开异步 SPCO **asynchronously** (Double Pole Close and Open **asynchronously**)
- 一极常开, 另一极常闭 One Pole NO, the Other NC
- 一极常开, 另一极常闭常开 One Pole NO, the Other CO

◆ 可选附带以下附件 Optional with the accessories as follows:

- 压柄 Push Handle

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 5\text{E}4 / 10\text{E}5$
- 电气耐久寿命 Electrical life endurance $\geq 5\text{E}4$
- 最大冲击电流 Max. Inrush current at 250V 84A
- 最大冲击电流 Max. Inrush current at 125V 120A
- 接触电阻 Contact resistance $\leq 30\text{m Ohm}$
- 绝缘电阻 Insulation resistance $\geq 7\text{M Ohm}$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}\text{C} \sim 55^{\circ}\text{C}$
- 环境温度 Ambient temperature $-25 \sim 125^{\circ}\text{C}$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type Ip40
- 适用于II类防护器具 Suitable for appliances of protection class II
- 开关操作力选择范围 Operating force range 3N~10N
- 开关内部触点间隙 Contact gap range 0.8~3.0mm

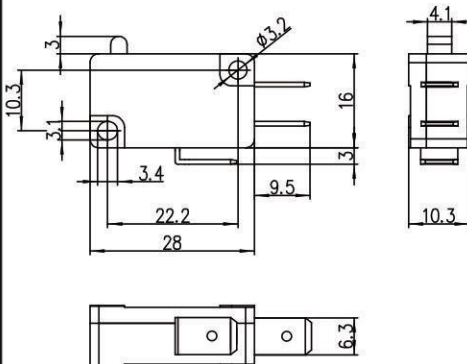
端子类型 Terminals

- ◆ COM, NO, NC端子 Terminals:
- 插片端子 Plug-in terminals $6.3 \times 0.8\text{mm}$
- 插片端子 Plug-in terminals $4.8 \times 0.8\text{mm}$
- 插片端子 Plug-in terminals $4.8 \times 0.5\text{mm}$
- 焊接端子 Solder terminals
- 线路板焊接端子 PCB Solder terminals

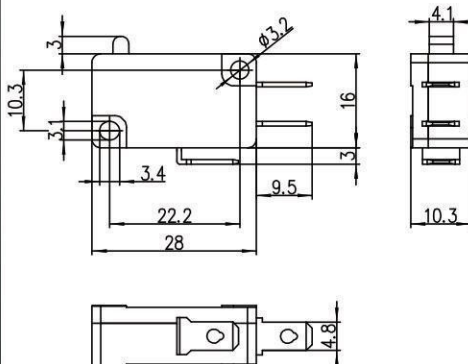
★ 本产品荣获实用新型专利
★ Utility Model patented

型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		EN61058	GB15092	UL61058	EN61058
MS 01	最小 / min.	6(6)A 125/250V~ / 15A 36/48Vd.c	6(6)A 125/250V~ / 15A 36/48Vd.c	10(10)A 127V~ / 10A 0-84Vd.c	6(6)A 250V~ / 10A 0-84Vd.c
	最大 / max.	16(16)A 125/250V~ / 30A 36/48Vd.c	16(16)A 125/250V~ / 30A 36/48Vd.c	20(20)A 127V~ / 30A 0-84Vd.c	16(16)A 250V~ / 30A 0-84Vd.c

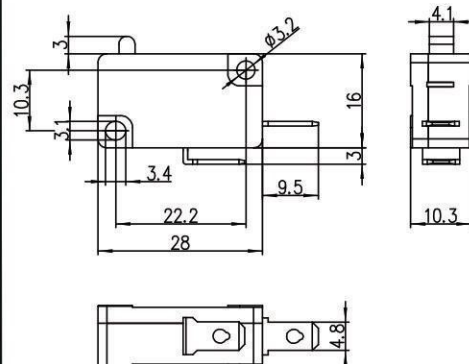
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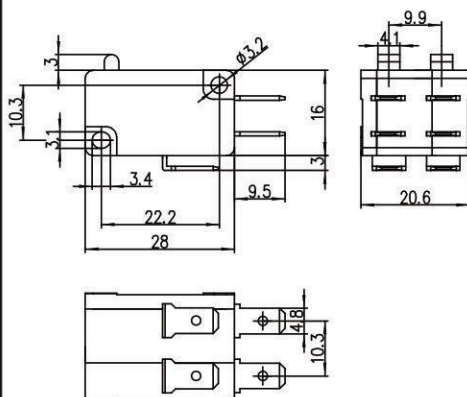
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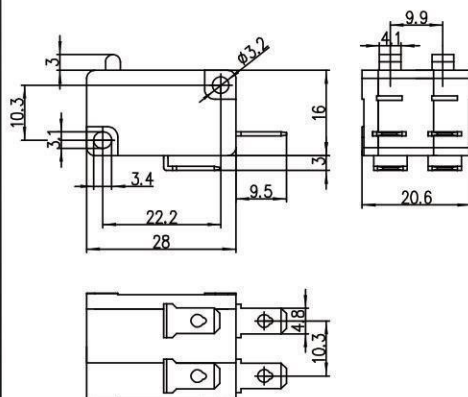
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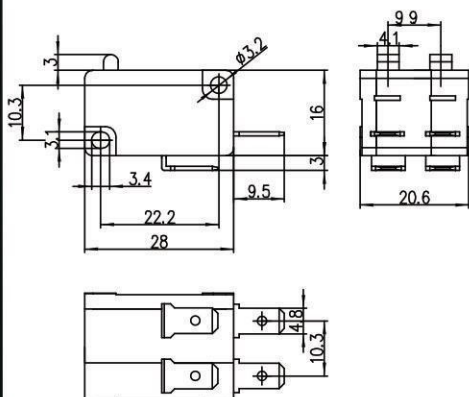
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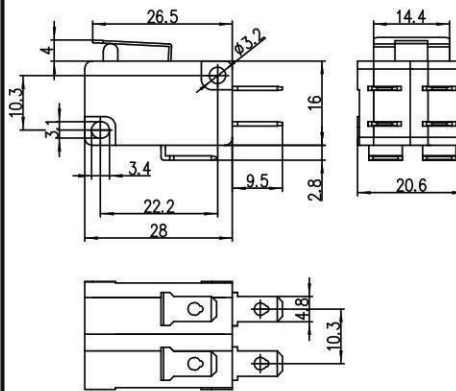
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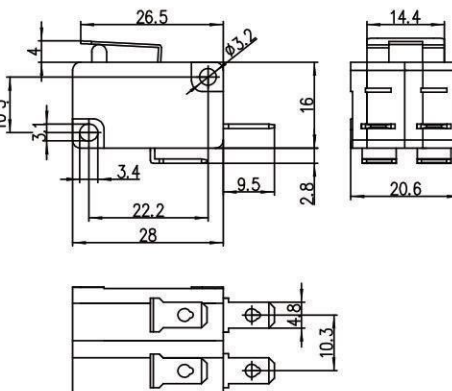
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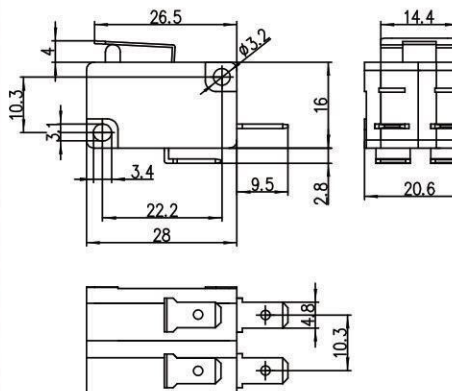
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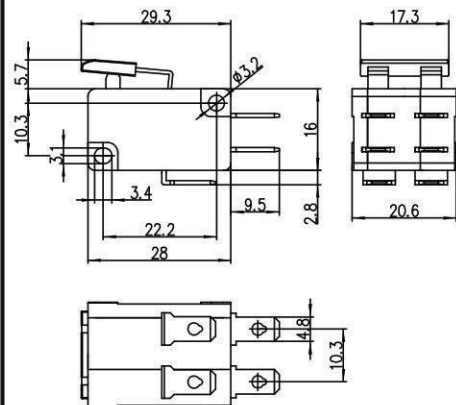
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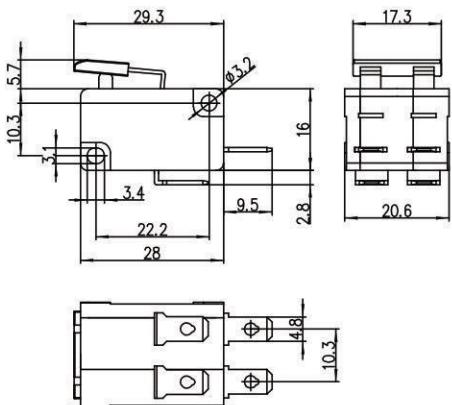
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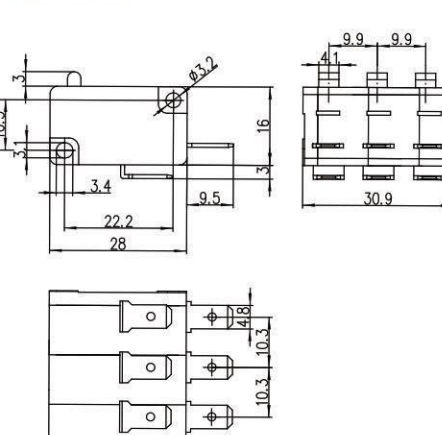
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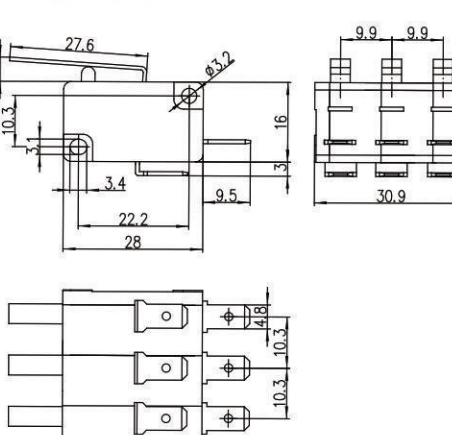
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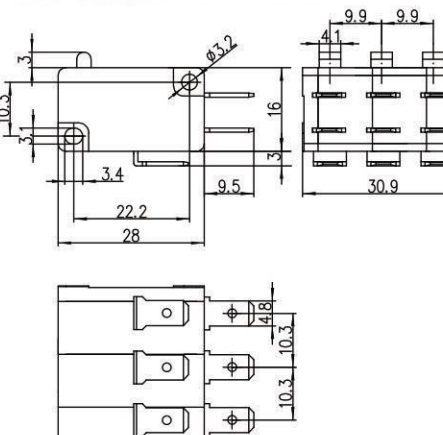
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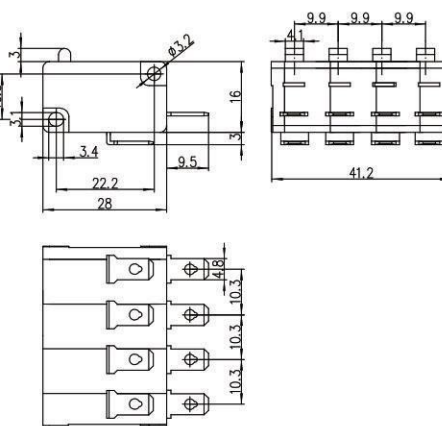
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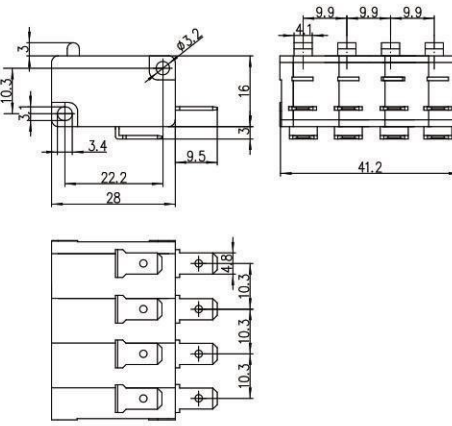
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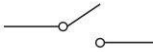
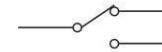
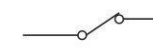
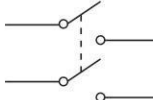
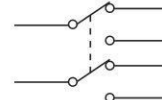
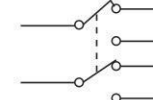
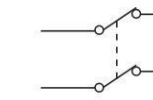
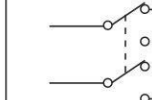
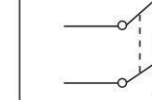
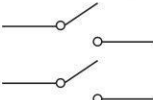
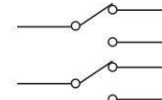
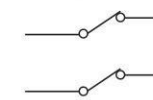
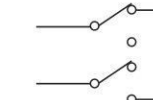
客户定制款 / Customized Versions



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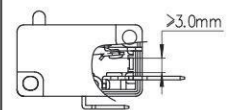
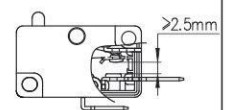
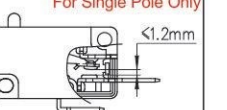
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MS 01	-	B	-	21	16	M	-	X1	Y1	-	A1	6N	-	L03
		I		II	III	IV		V	VI		VII	VIII		IX

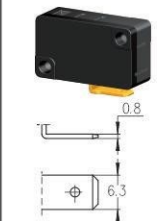
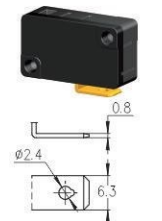
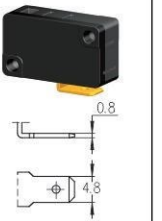
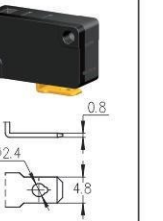
I : 主体类型 / Body Types													
A	B												
													

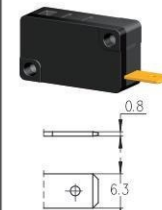
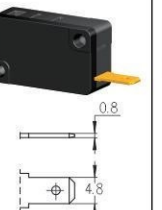
II : 功能类型 / Function Types													
11	12	13											
													
单极常开 SPNO	单极双掷复位 SPDT Momentary	单极常闭 SPNC											
21	22	22A	23	213	2×3A								
													
双极常开 DPNO	双极双掷复位 DPDT Momentary	双极双掷复位 DPDT Momentary 异步 Asynchronous	双极常闭 DPNC	一极常闭, 另一极常开 One pole NO, 2nd NC	一极常闭, 另一极常开 One pole NO, 2nd NC 异步 Asynchronous								
2×11	2×12	2×13	2×3										
													
双极常开 DPNO 两极独立 Independently	双极双掷复位 DPDT Momentary 两极独立 Independently	双极常闭 DPNC 两极独立 Independently	一极常闭, 另一极常开 One pole NO, 2nd NC 两极独立 Independently										

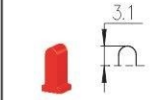
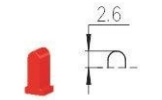
III: 适合交流电动工具和园林工具 / Electric Ratings - For AC Power-tools and Gardening Tools													
06	10	16											
6(6)A 250V~ 6(6)A 125V~ 25T125 5E4	10(10)A 250V~ 10(10)A 125V~ 25T125 5E4	16(16)A 250V~ 16(16)A 125V~ 25T125 5E4											

III: 电气参数 - 适合直流电动工具和园林工具 / Electric Ratings - For DC Power-tools and Gardening Tools													
06	10	16											
15A 48Vd.c 25T125 5E4	20A 48Vd.c 25T125 5E4	30A 48Vd.c 25T125 5E4											

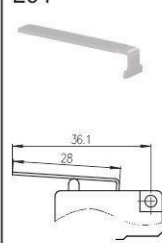
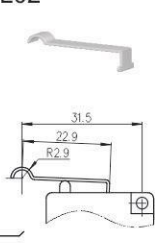
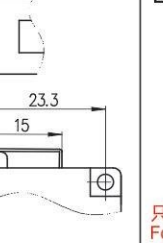
IV: 主体类型和电气间隙 / Body Types and Contact Gap													
M	N	μ											
													
电气间隙 ≥ 3.0mm Contact Gap ≥ 3.0mm	电气间隙 ≥ 2.5mm Contact Gap ≥ 2.5mm	只适用于单极功能 For Single Pole Only 电气间隙 ≤ 1.2mm Contact Gap ≤ 1.2 mm											

V : COM端子类型 / COM Terminal types													
X1	X2	X3	X4										
													

VI: NO/NC 端子类型 / NO and NC Terminal types													
Y1	Y2	Y3	Y4										
													

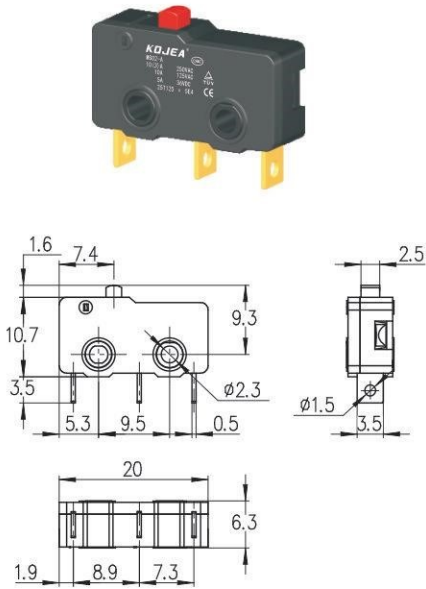
VII: 按钮 / Push Buttons													
A1	A2												
													

VIII: 操作力 / Operating Force (只适用于单极开关, 双极开关要乘以2 For Single Pole Switch only, Double Pole Switch×2)													
3N	6N												
3±2 N	6±2 N												
只适用于 ≤ 16A For rating ≤ 16A only													

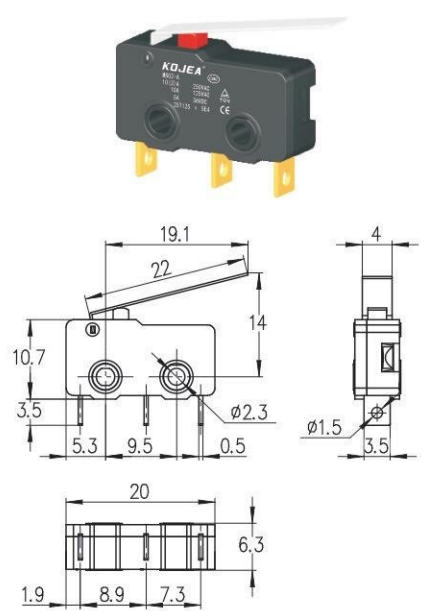
IX: 压柄 / Handles													
L01	L02	L03	L04										
													
		只用于双极 For double pole only	只用于双极 For double pole only										

MS 02 微动开关 Micro Switch

MS02-1206-X1



MS02-1206-X1-L1



产品描述 Product description

- ◆ MS 02 系列是一款标准的小型微动开关，可用于小型手持电动工具和家用电器，如：小型充电式螺丝起子，迷你型直流修枝剪，豆浆机，电动榨汁机等。
- ◆ MS 02 series are standard mini-type micro switches, commonly for use in low current portable power-tools and home appliances such as Mini Screw Drivers, Mini DC Hedge Trimmers, Soybean Milk Machines, Electric Juicers, etc.

特征 Features

- ◆ 可选附带以下功能 Optional with the function as follows:
 - 单极常开 SPNO (Single Pole Normally Open)
 - 单极常闭 SPNC (Single Pole Normally Close)
 - 单极常闭常开 SPCO (Single Pole Close and Open)
- ◆ 可选附带以下附件 Optional with the accessories as follows:
 - 压柄 Push Handle

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 5E4 / 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大冲击电流 Max.Inrush current at 250V 18A
- 最大冲击电流 Max.Inrush current at 127V 18A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 500V
- 加强介电强度 Dielectric strength of reinforced 500V
- 环境温度 Ambient temperature $-25^{\circ}C \sim 125^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II
- 开关操作力选择范围 Operating force range 0.5N~5N
- 开关内部触点间隙 Contact gap 0.8~1.0mm

端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 焊接端子 Soldering terminals $3.5 \times 0.5mm$
 - 插片端子 Plug-in terminals $2.8 \times 0.5mm$

订货信息 Ordering Information:

MS 02 - A - 12 06 - X1 - A1 3N - L01
I II III IV V VI VII

I：主体类型/ Body Types					
A:					

II：功能类型 / Function Types			III：电气参数 / Electrical Ratings		
11	12	13	03	05	10
			3(2)A 250V~ 3A 125V~ 1A 36Vd.c 25T125 u 5E4	5(3)A 250V~ 5A 125V~ 3A 36Vd.c 25T125 u 5E4	10(3)A 250V~ 10A 125V~ 5A 36Vd.c 25T125 u 5E4
单极常开 SPNO	单极常闭常开 SPCO	单极常闭 SPNC			

IV：COM, NO, NC端子 类型 / COM, NO and NC Terminal Types		
X1	X2	X3

V：按钮 / Push Buttons		
A1		

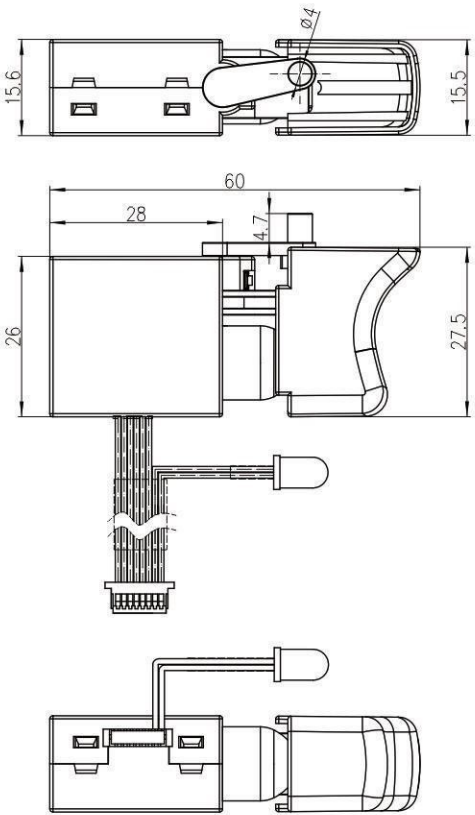
VI：操作力 / Operating Force						
0.5N	1N	2N	3N	4N		
0.5±0.1 N	1±0.3 N	2±0.3 N	3±0.3 N	4±0.3 N		

VII：压柄 / Push Handles		
L1	L2	L3

型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		EN61058	GB15092		
MS02	最小 / min.	3(2)A 125/250V~ / 1A 0-36Vd.c	3(2)A 125/250V~ / 1A 0-36Vd.c		
	最大 / max.	10(3)A 125/250V~ / 5A 0-36Vd.c	10(3)A 125/250V~ / 5A 0-36Vd.c		

DT 01直流扳机开关 DCTriggeSwitch

DT01-1100K-A1B-Z1-X6-85



产品描述 Product description

◆ **DT 01** 系列是一款专用型的直流信号扳机开关, **集成防尘功能**, 是特别为直流 **无刷** 充电式电动工具设计的, 可适用于: **无刷** 充电式电钻, **无刷** 充电式电锤, **无刷** 充电式螺丝起子, **无刷** 充电式冲击扳手等. 特殊设计的外形可以和线路板直接连接, 而不需要外接导线.

◆ **DT 01** series are one special type DC signal trigger switches, **integrated dustproof**, designed specially for used in **Brushless** DC power-tools such as: **Brushless** Cordless Drills, **Brushless** Cordless Screw Drivers, **Brushless** Cordless Impact Wrenches, etc. With special design for assembly with PCB, needn't any wires.

特征 Features

- ◆ 可选带以下功能或附件:
 - 信号通断带电位器输出功能
 - 信号通断带正反转信号输出和电位器输出功能
 - 信号刹车
 - **带软胶扳机**
- ◆ Optional with the function or accessories as follows:
 - Signal On-off version with linear potentiometer
 - Signal On-off version with Reversing and linear potentiometer
 - Signal Brake
 - **Trigger covered with rubber (overmolding)**

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance ≥5E4
- 电气耐久寿命 Electrical life endurance ≥1E4
- 最大电流 Max. current at 42Vd.c 0.1A
- 接触电阻 Contact resistance ≤30m Ohm
- 绝缘电阻 Insulation resistance ≥7M Ohm
- 基本介电强度 Dielectric strength of function 500V
- 加强介电强度 Dielectric strength of reinforced 500V
- 环境温度 Ambient temperature 0℃~55℃
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- ◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用.

端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 导线端子 Wire terminal
 - 带插头导线端子 Wire terminal with Plug

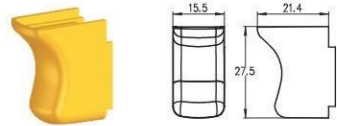
型号 Model	范围 Range	标准及认证 / Standard and Approvals		
DT 01	最小 / min.	20mA 12Vd.c 5E4	20mA 12Vd.c 5E4	
	最大 / max.	0.1A 42Vd.c 5E4	0.1A 42Vd.c 5E4	

订货信息 Ordering Information:

DT01 - 11 00 K - A1 B - Z1 - X6-85
I II III IV V VI VII

I :功能类型 / Function Types				II :电流 / Current	
11	21			00- 20mA	01 - 0.1A
单通道信号通断 Single Pole Signal On-Off	双通道信号通断 Double Pole Signal On-Off				

III :功能类型 / Function Types			
K	K1	R	
单通道信号通断, 带电位器和换向信号输出 Single Pole Signal On-Off, with linear potentiometer and change-over signal output	单通道信号通断, 带电位器和换向信号输出 Single Pole Signal On-Off, with linear potentiometer and change-over signal output	单通道信号通断, 带电位器输出 Single Pole Signal On-Off, with linear potentiometer output	

IV :扳机 / Triggers		
A1		

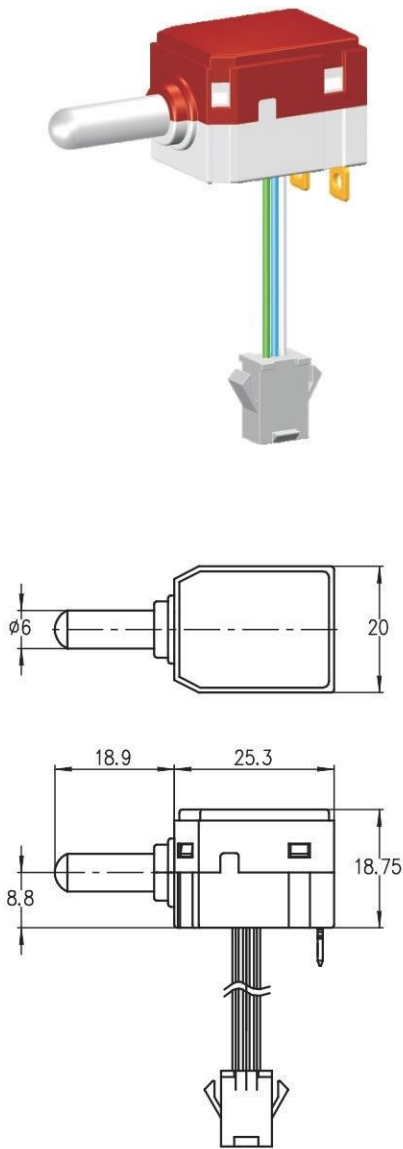
V :扳机颜色 / Triggers Colour				
B: 黑色	R: 红色	Y: 黄色	G: 绿色	

VI : 拨杆 / Levers for Reversing		
Z1		

VII : 附件 / Accessroies		
X(a-b)	外接导线端子 a表示导线数量, b代表长度 a-Quantity of wires, b-length of wires	

DT 02 直流扳机开关 DC Trigger Switch

DT02-2036R-A0-X3-80



产品描述 Product description

◆ DT 02 系列是一款专用型的直流扳机开关, 集成防尘 和机械刹车触点, 应用于各类充电式手持电动工具和电动园林工具, 如: 充电式电钻, 充电式电锤, 充电式螺丝起子, 充电式冲击扳手, 充电式打草机, 充电式吹吸机等, 也可应用各类直流 无刷 电动工具。

◆ DT 02 series are one special type DC trigger switches, integrated dustproof and mechanical brake contact, optional with inner reversing structure, commonly for used in DC cordless portable power-tools and power gardening tools such as: Cordless Drills, Cordless Screw Drivers, Cordless Rotary Hammers, Cordless Impact Wrenches, Cordless Grass Trimmers, Cordless Blowers, etc. Besides, they also suitable for brushless DC tools.

特征 Features

- ◆ 本开关结构紧凑, 可选带以下功能或附件:
 - 通断功能带电位器输出
 - 通断功能带机械换向和电位器输出 (有刷直流工具专用)
 - 通断功能带正反转信号和电位器输出 (无刷直流工具专用)
 - 通断功能带正反转霍尔信号和电位器输出 (无刷直流工具专用)
 - 外接各类导线和电池夹
- ◆ The switches combine compact size, optional with the function or accessories as follows:
 - On-off with linear potentiometer output
 - On-off with mechanical reversing and linear potentiometer output
 - On-off with reversing signal indication potentiometer output (Special for DC brushless applications)
 - On-off with reversing hall signal and linear potentiometer output (Special for DC brushless applications)
 - Auxiliary wire or battery clamp

技术数据 Technical data

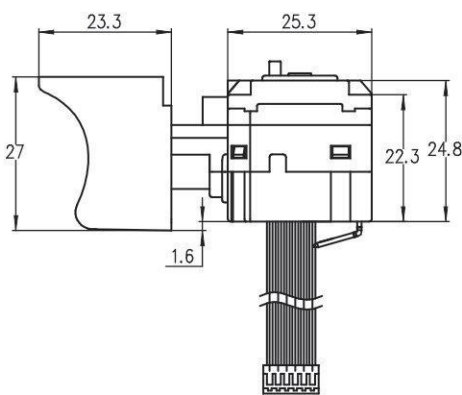
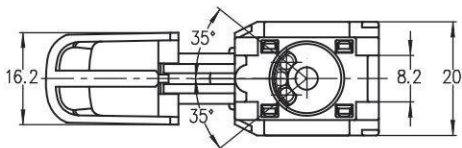
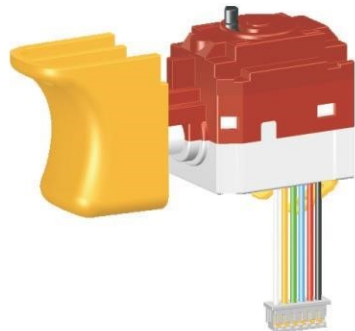
- 机械耐久寿命 Mechanical life endurance $\geq 5E4/1E5$
- 电气耐久寿命 Electrical life endurance $\geq 1E4/5E4$
- 最大电流 Max. current at 36Vd.c 30A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1300V
- 加强介电强度 Dielectric strength of reinforced 2600V
- 环境温度 Ambient temperature $0^{\circ}C \sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- ◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用。

◆ The electronics in the switches had to be tested together with the corresponding appliances, so the switches are suitable for appliance of class II.

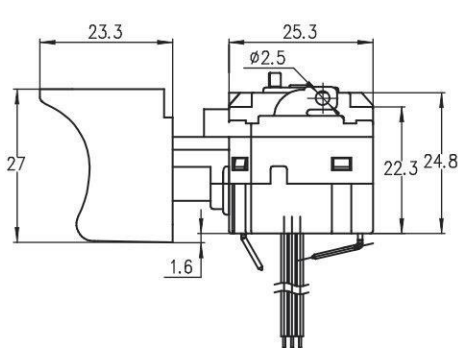
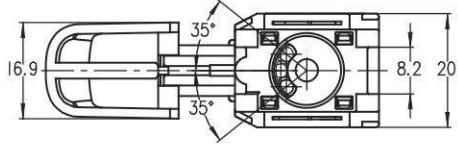
端子类型 Terminals

- ◆ 输入端 Input side:
 - 焊接端子 Solder terminal $4.2 \times 0.8mm$
- ◆ 输出端 Output side:
 - 焊接端子 Solder terminal $4.6 \times 0.5mm$

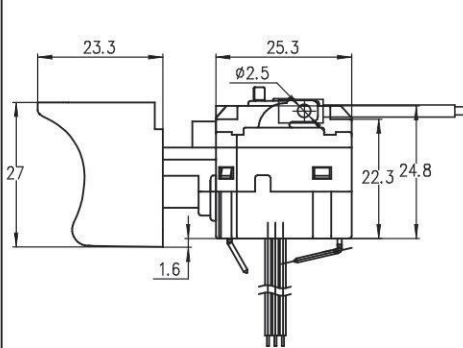
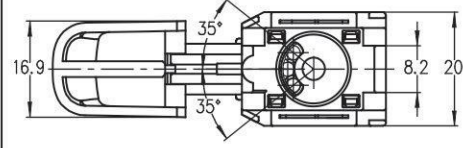
DT02-2036K-A1-X6-100



DT02-2036R-A1-X3-60



DT02-2036R-A1-X3-60



型号 Model	范围 Range	标准及认证 / Standard and Approvals		
		UL61058 	EN61058 	
DT 02	最小 / min.	10A 15Vd.c 1E4 / 10A 36Vd.c 1E4	10A 15Vd.c 1E4 / 10A 36Vd.c 1E4	
	最大 / max.	15A 60Vd.c 1E4 / 30A 36Vd.c 1E4	15A 60Vd.c 1E4 / 30A 36Vd.c 1E4	
	最小 / min.	50mA 0-84Vd.c 5E4 / 50mA 0-130Vd.c 1E4	50mA 0-84Vd.c 5E4 / 50mA 0-130Vd.c 1E4	
	最大 / max.	0.1A 0-84Vd.c 5E4 / 0.1A 0-130Vd.c 1E4	0.1A 0-84Vd.c 5E4 / 0.1A 0-130Vd.c 1E4	

订货信息 Ordering Information:

DT 02	-	20	36	R	-	A5	Z1	-	X4-60
		I	II	III		IV	V		VI
DT 02	-	11	00	S	-	A0		-	X3-60
		①	②	③		IV			VI

I: 电流 / Current	
15 - 15A up to 60Vd.c	
20 - 20A	
25 - 25A	
30 - 30A up to 36Vd.c	

II: 电压 / Voltage	
18 - 18Vd.c	48 - 48Vd.c.
24 - 24Vd.c	60 - 60Vd.c.
36 - 36Vd.c	
42 - 42Vd.c	

III: 功能及主体类型 / Function and Body Types

K

通断功能带换向信号和电位器输出 (无刷电机专用)
On-Off version with change-over signal and linear potentiometer output (Special for brushless Motor)

KH

通断功能带换向霍尔信号和电位器输出 (无刷电机专用)
On-Off version with reversing hall signal and linear potentiometer output (Special for brushless Motor)

R

通断, 带刹车, 带换向和电位器输出
On-Off version with brake and change-over, with linear potentiometer output

R2

通断功能带电位器输出
On-Off version with linear potentiometer output

KN

通断功能带换向信号和电位器输出 (无刷电机专用)
On-Off version with change-over signal and linear potentiometer output (Special for brushless Motor)

KHN

通断功能带换向霍尔信号和电位器输出 (无刷电机专用)
On-Off version with reversing hall signal and linear potentiometer output (Special for brushless Motor)

III: 功能及主体类型 / Function and Body Types

RN

通断, 带刹车, 带换向和电位器输出
On-Off version with brake and change-over, with linear potentiometer output

RN2

通断功能带电位器输出
On-Off version with linear potentiometer output

①: 功能及主体类型 / Function and Body Types (只适用于信号功能 For Signal function only)

11

单通道信号通断 Single Pole Signal On-Off

②: 电流 / Current (只适用于信号功能 For Signal function only)

00

50mA 0-84Vd.c 5E4vor 50mA 130Vd.c 1E4

001

0.1A 0-84Vd.c 5E4 or 0.1A 130Vd.c 1E4

③: 功能类型 / Function Types

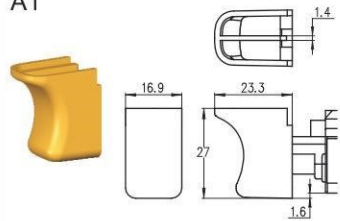
S

单通道信号通断 Single Pole Signal On-Off

SR

单通道信号通断, 带电位器输出
Single Pole Signal On-Off, with linear potentiometer output

IV: 扳机 / Triggers			
A1			



V: 拨杆 / Levers			
Z1			



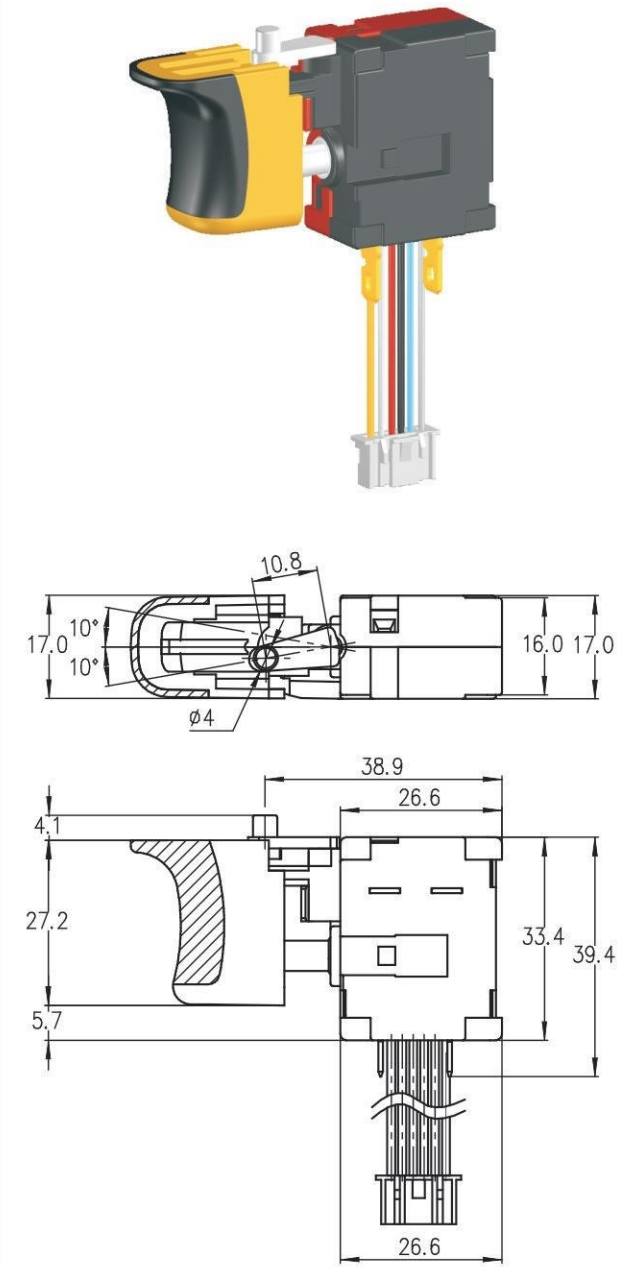
VI: 外接导线数 量及长度 / Quantity and Length of wires			
X(3-Y)	X(4-Y)		

导线数量为3根
后面Y代表长度
Quantity of wires is 3,
Y means length of wires

导线数量为4根
后面Y代表长度
Quantity of wires is 4,
Y means length of wires

DT 03 直流扳机开关 DC Trigger Switch

DT03-2042K-A1-Z1-X6-100



产品描述 Product description

◆ DT 03 系列是一款通用型的直流扳机开关, 集成防尘 和机械刹车接点, 内部带换向结构, 应用于各类直流充电式手持电动工具, 如: 充电式电钻, 充电式电锤, 充电式电圆锯, 充电式螺丝起子, 充电式冲击扳手等, 也可应用各类直流 无刷 电动工具.

◆ DT 03 series are general type DC trigger switches, integrated dustproof, mechanical brake contact and reversing box, commonly for used in DC cordless portable power-tools such as: Cordless Drills, Cordless Screw Drivers, Cordless Rotary Hammers, Cordless Impact Wrenches, etc. Besides, they also suitable for DC Cordless brushless DC tools.

特征 Features

- ◆ 可选带以下功能或附件:
 - 通断带电位器输出功能
 - 通断带正反转信号和电位器输出功能(无刷直流电机专用)
 - 通断带正反转霍尔信号和电位器输出功能(无刷直流电机专用)
 - 可选带闭合锁定
 - 带软胶扳机
- ◆ Optional with the function or accessory as follows:
 - On-off with linear potentiometer
 - On-off with Reversing Signal and linear potentiometer output (Special for DC brushless motor)
 - On-off with Reversing Hall Signal and linear potentiometer output (Special for DC brushless motor)
 - Optional with Lock-on button
 - Trigger covered with rubber (overmolding)

技术数据 Technical data

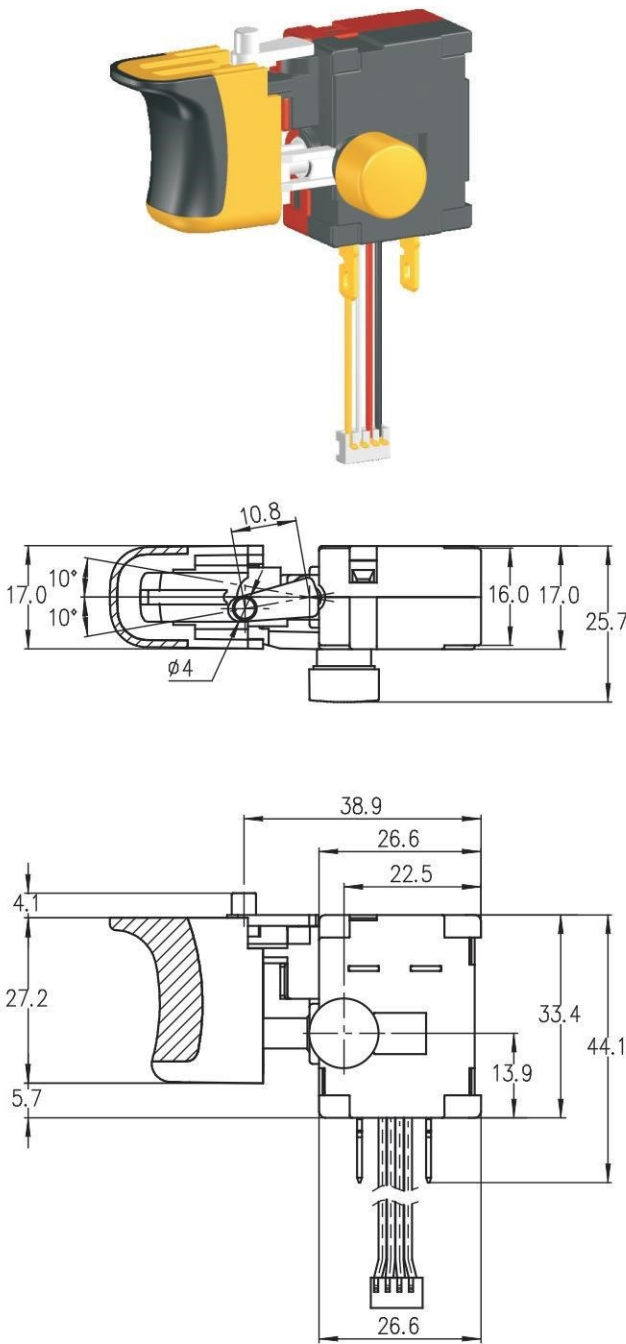
- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大电流 Max. current at 60Vd.c 30A
- 最大电流 Max. current at 130Vd.c 25A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C \sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- ◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用.

◆ The electronics in the switches had to be tested together with the corresponding appliances, so the switches are suitable for appliance of class II.

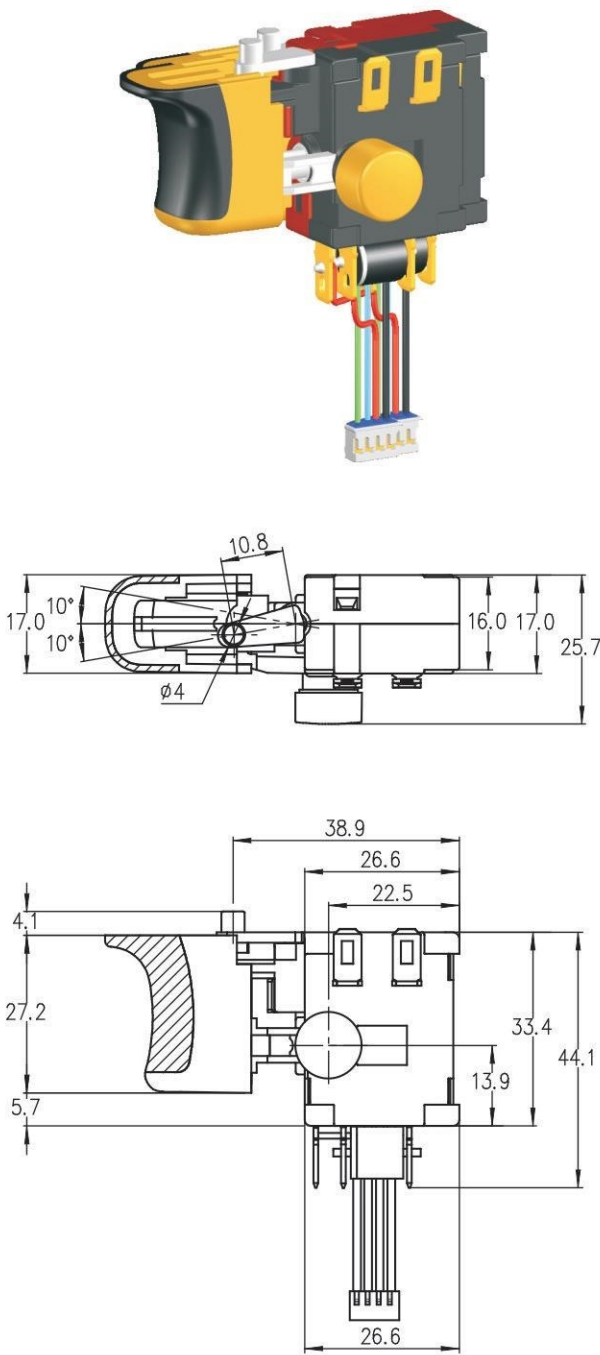
端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 焊接端子 Solder terminal $4.7 \times 0.8mm$
 - 沾锡导线 Wire with tin conductor
- ◆ 电位器输出 Potentiometer Output :
 - 沾锡导线 Wire with tin conductor
 - 带插头导线 Wire terminal with Plug

DT03-2042KHB-A1B2-Z1-X4-100



DT03-2042RB-A1B2-Z1D-X4-100



型号 Model	范围 Range	标准及认证 / Standard and Approvals		
		UL61058 	EN61058 	
DT 03	最小 / min.	15A 0-60Vd.c 5E4 / 15A 0-130Vd.c 5E4	15A 0-60Vd.c 5E4 / 15A 0-130Vd.c 5E4	
	最大 / max.	30A 0-60Vd.c 5E4 / 25A 0-130Vd.c 5E4	30A 0-60Vd.c 5E4 / 25A 0-130Vd.c 5E4	

订货信息 Ordering Information:

DT 03 - 20 42 R B - A5 B2 - Z1 D - X 4-100
I II III IV V VI VII VIII IX

I: 电流 / Current	
15 - 15A	
20 - 20A	
25 - 25A up to 130Vd.c	
30 - 30A up to 60Vd.c	

II: 电压 / Voltage		
18 - 18Vd.c.	48 - 48Vd.c.	96 - 96Vd.c.
24 - 24Vd.c.	60 - 60Vd.c.	120 - 120Vd.c.
36 - 36Vd.c.	72 - 72Vd.c.	130 - 130Vd.c.
42 - 42Vd.c.	84 - 84Vd.c.	

III: 功能及主体类型 / Function and Body Types

K

通断功能带换向信号和电位器输出(无刷电机专用)
On-Off version with change-over signal and linear potentiometer output(Special for brushless Motor)

KH

通断功能带霍尔换向信号和电位器输出(无刷电机专用)
On-Off version with Hall change-over signal and linear potentiometer output (Special for brushless Motor)

R

通断, 带刹车, 带换向和电位器输出
On-Off version with brake and change-over, linear potentiometer output

R2

通断功能带电位器输出
On-Off version with linear potentiometer output

IV: 锁定功能 / Lock Types

空blank

B

空blank

B

V: 扳机 / Triggers

A1

A2

VI: 锁钮 / Lock Buttons

A

B

C

D

H: 锁钮最高点到开关底部的高度
H: Dimension between the top of lock button to the bottom of the switch

1: H=25mm	7: H=28mm
2: H=25.5mm	8: H=28.5mm
3: H=26mm	9: H=29mm
4: H=26.5mm	10: H=29.5mm
5: H=27mm	11: H=30mm
6: H=27.5mm	12: H=30.5mm

VII: 拨杆 / Levers

Z1

Z2

VIII: 附件 / Accessories

D

二极管 Diode

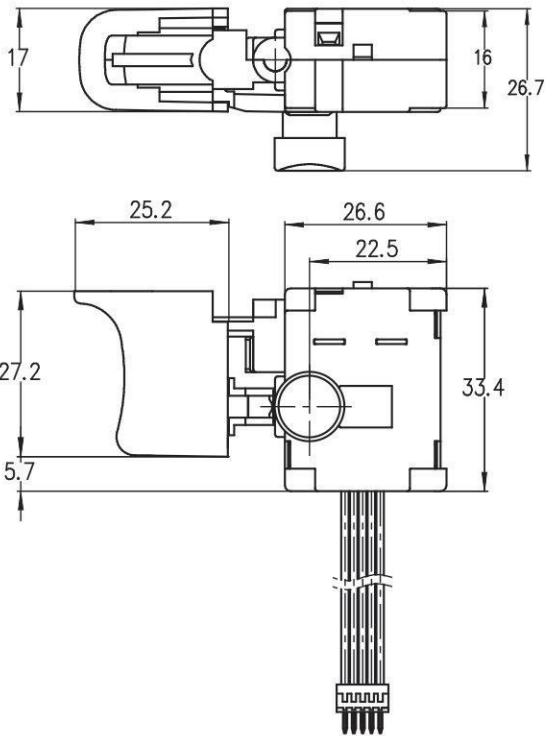
IX: 外接导线数 量及长度 / Quantity and Length of wires

X(a-b)

外接导线端子
a表示导线数量, b代表长度
a-Quantity of wires,
b-length of wires

DT 04 直流信号开关DC SingleSwitch

DT 04-11001SR-A2B2-Z1-X5-100



产品描述 Product description

◆ DT 04 系列是一款通用型的直流信号扳机开关, 集成防尘功能, 内部带换向结构, 特别应用于各类直流 无刷 充电式手持电动工具和园林工具, 如: 无刷 充电式电钻, 无刷 充电式电锤, 无刷 充电式螺丝起子, 无刷 充电式冲击扳手, 无刷 充电式打草机, 无刷 充电式吹风机等.

◆ DT 04 series are general type DC signal trigger switches, integrated dustproof and reversing box, specially for used in DC cordless brushless portable power-tools and gardening tools such as: Cordless brushless Drills, Cordless brushless Screw Drivers, Cordless Rotary Hammers, Cordless brushless Impact Wrenches, Cordless brushless grass trimmer, Cordless brushless blowers, etc.

特征 Features

- ◆ 可选带以下功能或附件:
 - 信号通断带电位器输出功能
 - 信号通断带正反转信号和电位器输出功能
 - 信号通断带正反转 霍尔信号 和电位器输出功能
 - 霍尔信号 通断带正反转 霍尔信号 和霍尔电位器 输出功能
 - 可选带闭合锁定
 - 带软胶扳机
- ◆ Optional with the function or accessory as follows:.
 - On-off with linear potentiometer
 - On-off with ReversingSignal and linear potentiometer output
 - On-off with ReversingHall Signal and linear potentiometer output
 - Optional with Lock-on button
 - Trigger covered with rubber (overmolding)

技术数据 Technical data

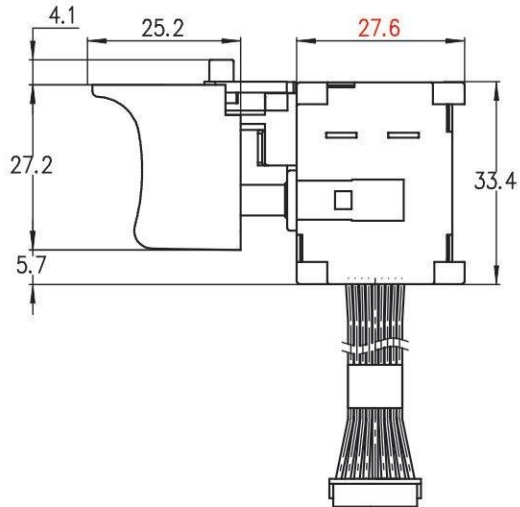
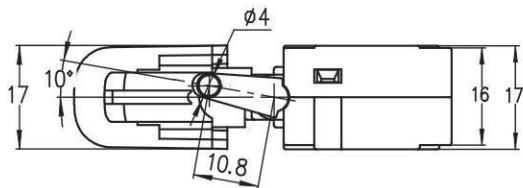
- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大电流 Max. current 0.1A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C\sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- ◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用.

◆The electronics in the switches had to be tested together with the corresponding appliances, so the switches are suitable for appliance of class II.

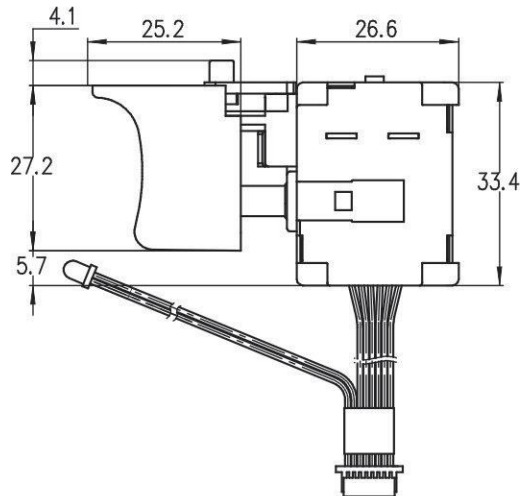
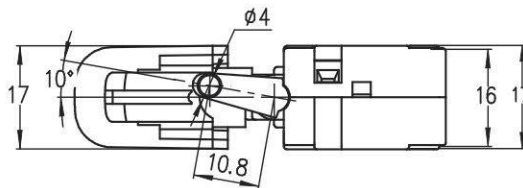
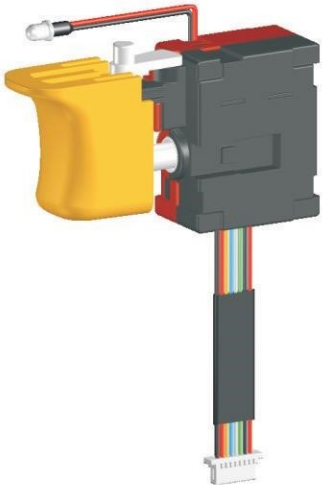
端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 带插头导线 Wire terminal with Plug

DT 04-21001KS-A2-Z1-X9-100



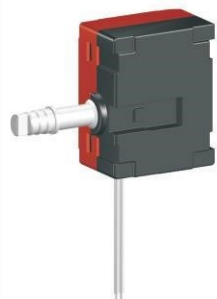
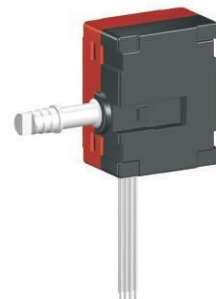
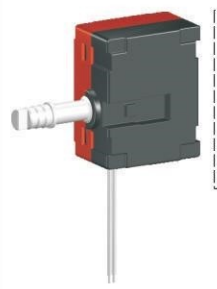
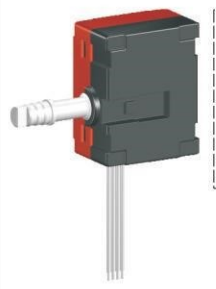
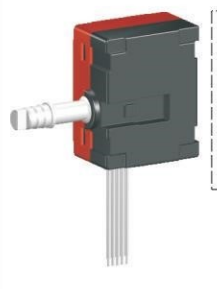
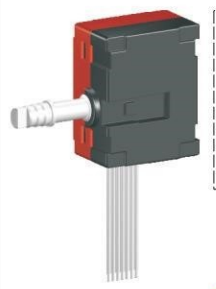
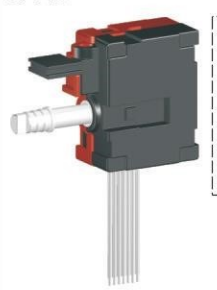
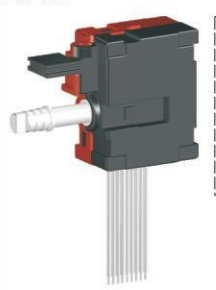
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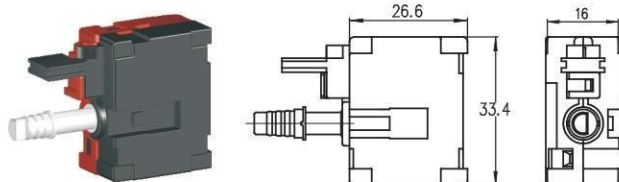
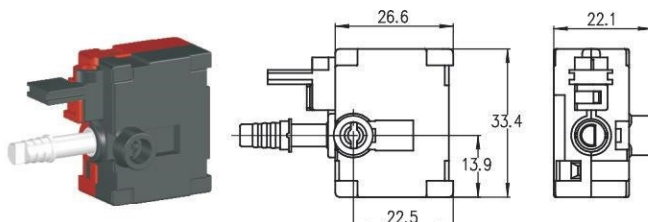
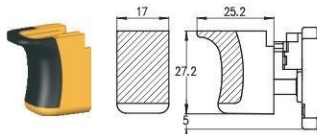
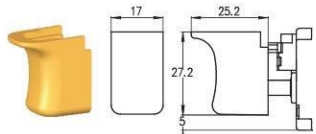
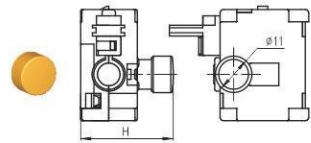
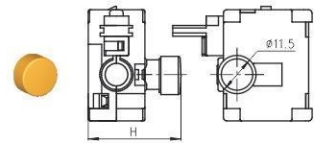
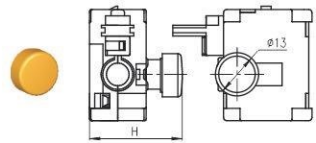
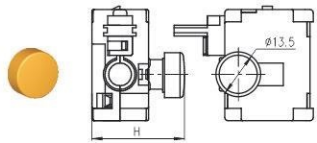
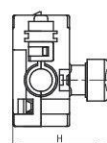


型号 Model	范围 Range	标准及认证 / Standard and Approvals		
		UL61058 	EN61058 	
DT 04	最小 / min.	50mA 0-84Vd.c 5E4 / 50mA 0-130Vd.c 1E4	50mA 0-84Vd.c 5E4 / 50mA 0-130Vd.c 1E4	
	最大 / max.	0.1A 0-84Vd.c 5E4 / 0.1A 0-130Vd.c 1E4	0.1A 0-84Vd.c 5E4 / 0.1A 0-130Vd.c 1E4	

订货信息 Ordering Information:

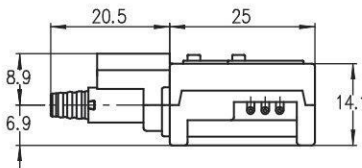
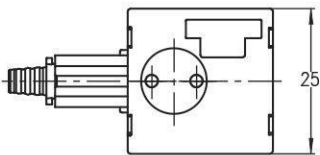
DT 04 - 11 00 S B - A2 B2 - Z1 - X5-240
I II III IV V VI VII VIII

I: 功能及主体类型 / Function and Body Types	
11  单通道信号通断 Single Pole Signal On-Off	21  双通道信号通断 Double Pole Signal On-Off
II: 电流 / Current	
00 50mA 0-84Vd.c 5E4vor 50mA 130Vd.c 1E4	001 0.1A 0-84Vd.c 5E4 or 0.1A 130Vd.c 1E4
III: 功能类型 / Function Types	
11-S  单通道信号通断 Single Pole Signal On-Off	21-S  双通道信号通断 Double Pole Signal On-Off
11-SR  单通道信号通断, 带电位器输出 Single Pole Signal On-Off, with linear potentiometer output	21-SR  双通道信号通断, 带电位器输出 Double Pole Signal On-Off, with linear potentiometer output
11-KS  单通道信号通断, 带电位器和换向信号输出 Single Pole Signal On-Off, with linear potentiometer and change-over signal output	21-KS  双通道信号通断, 带电位器和换向信号输出 Double Pole Signal On-Off, with linear potentiometer and change-over signal output

IV: 锁定功能 / Lock Types															
空blank		B													
															
V: 扳机 / Triggers															
A1	A2														
															
VI: 锁钮 / Lock Buttons															
A	B	C	D												
															
H: 锁钮最高点到开关底部的高度 H: Dimension between the top of lock button to the bottom of the switch <table><tr><td>1: H=25mm</td><td>7: H=28mm</td></tr><tr><td>2: H=25.5mm</td><td>8: H=28.5mm</td></tr><tr><td>3: H=26mm</td><td>9: H=29mm</td></tr><tr><td>4: H=26.5mm</td><td>10: H=29.5mm</td></tr><tr><td>5: H=27mm</td><td>11: H=30mm</td></tr><tr><td>6: H=27.5mm</td><td>12: H=30.5mm</td></tr></table> 				1: H=25mm	7: H=28mm	2: H=25.5mm	8: H=28.5mm	3: H=26mm	9: H=29mm	4: H=26.5mm	10: H=29.5mm	5: H=27mm	11: H=30mm	6: H=27.5mm	12: H=30.5mm
1: H=25mm	7: H=28mm														
2: H=25.5mm	8: H=28.5mm														
3: H=26mm	9: H=29mm														
4: H=26.5mm	10: H=29.5mm														
5: H=27mm	11: H=30mm														
6: H=27.5mm	12: H=30.5mm														
VII: 拨杆 / Levers															
Z1	Z2														
															
VIII: 外接导线数 量及长度 / Quantity and Length of wires															
X(a-b)															
a表示导线数量, b代表长度 a-Quantity of wires, b-length of wires															

DT 05 直流扳机开关 DC Trigger Switch

DT05-1115B-A0-X3



产品描述 Product description

◆ **DT 05** 系列是一款通用型的直流扳机开关, **集成防尘功能和 机械刹车触点**, 应用于各类直流 充电 式手持电动工具和园林工具, 如: 充电式电钻, 充电式电锤, 充电式螺丝起子, 充电式冲击扳手, 充电式吹吸机, 充电式打草机等。

◆ **DT 05** series are general type DC trigger switches, **integrated dustproof and mechanical brake contact**, commonly for used in DC cordless portable power-tools and gardening power-tools such as: Cordless Drills, Cordless Screw Drivers, Cordless Blowers, Cordless Grass Trimmer, etc. Besides, they also suitable for brushless DC tools.

特征 Features

◆ 可选带以下附件 Optional with the accessories as follows:

- 换向盒 Reversing box
- 外接各种联接导线 Auxiliary wire output
- 带软胶扳机 Trigger covered with rubber (Overmoulding)

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
 - 电气耐久寿命 Electrical life endurance $\geq 5E4$
 - 最大电流 Max. current at 24Vd.c 20A
 - 接触电阻 Contact resistance $\leq 30m\ \Omega$
 - 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
 - 基本介电强度 Dielectric strength of function 1300V
 - 加强介电强度 Dielectric strength of reinforced 2600V
 - 环境温度 Ambient temperature $0^{\circ}C \sim 55^{\circ}C$
 - 阻燃等级 Flammability UL 94V-0
 - 防护等级 Protection type IP40
- ◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用。

◆ The electronics in the switches had to be tested together with the corresponding appliances, so the switches are suitable for appliance of class II.

端子类型 Terminals

◆ 输入端/输出端 Input side/ Output side:

- 焊接端子 Solder terminal
- 沾锡导线 Wire with tin conductor

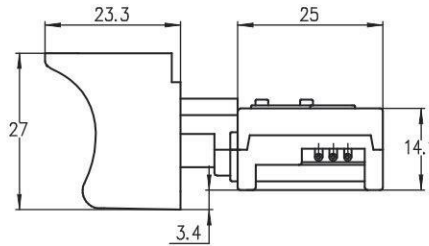
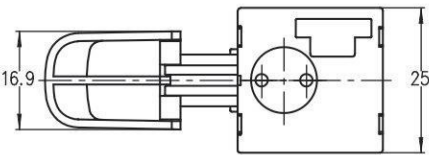
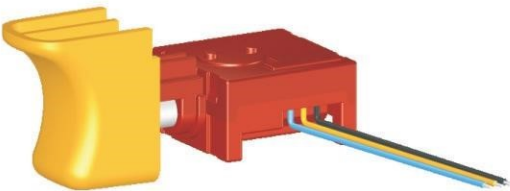
◆ 换向盒 Reversing Box:

- 焊接端子 Solder terminal
- 沾锡导线 Wire with tin conductor

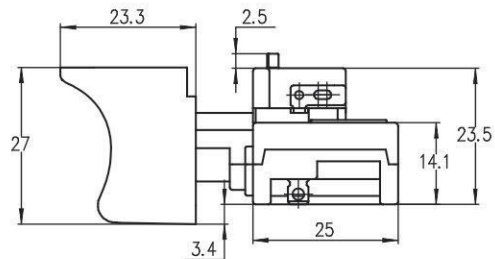
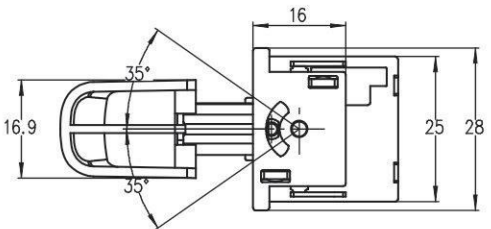
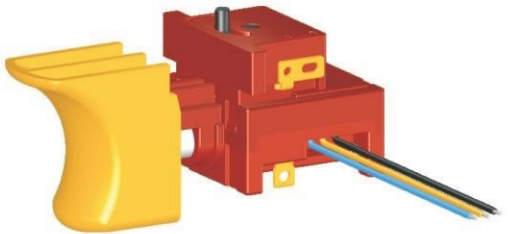
◆ 电位器输出 Potentiometer Output :

- 沾锡导线 Wire with tin conductor
- 带插头导线 Wire terminal with Plug

DT05-1115B-A1-X3



DT05-1115C-A1-X3



型号 Model	范围 Range	标准及认证 / Standard and Approvals		
		UL61058 	EN61058 	EN61058 
DT 05	最小 / min.	0.5A 24Vd.c 5E4 / 0.5A 84Vd.c 5E4	6A 24Vd.c 1E4 / 6A 60Vd.c 1E4	0.5A 0-24Vd.c 5E4 / 0.5A 25-84Vd.c 5E4
	最大 / max.	20A 24Vd.c 5E4 / 12A 84Vd.c 5E4	20A 24Vd.c 1E4 / 10A 60Vd.c 1E4	20A 0-24Vd.c 5E4 / 12A 25-84Vd.c 5E4

订货信息 Ordering Information:

DT 05 - 11 10H C2 - A5 - X2+3
I II III IV

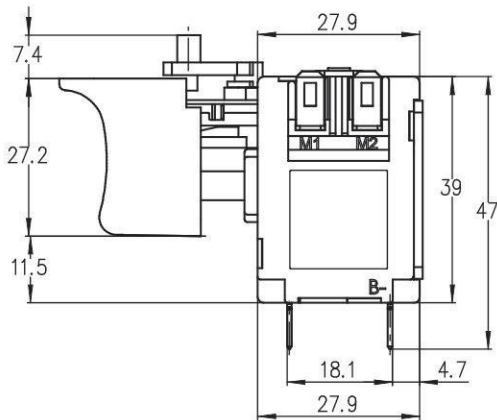
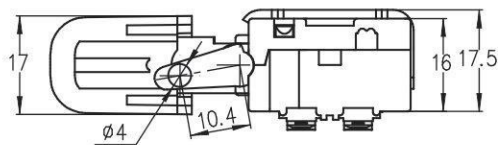
I : 电气参数 / Electrical Ratings					
005	02	06	10	15	20
0.5A 0-24Vd.c U.T 5E4	2A 0-24Vd.c U.T 5E4	6A 0-24Vd.c U.T 5E4	10A 0-24Vd.c U.T 5E4	15A 0-24Vd.c U.T 5E4	20A 0-24Vd.c U.T 5E4
005H	02H	06H	08H	10H	12H
0.5A 25-84Vd.c U.T 5E4	2A 25-84Vd.c U.T 5E4	6A 25-84Vd.c U.T 5E4	6A 25-84Vd.c U.T 5E4	10A 25-84Vd.c U.T 5E4	12A 25-84Vd.c U.T 5E4

II : 功能及主体类型 / Function and Body Types	
A	B
不带刹车接点带换向盒 with Brake Contact but without Reversing Box	不带刹车接点不带换向盒 without Brake Contact and Reversing Box
B2	C
不带刹车接点不带换向盒 without Brake Contact and Reversing Box	带刹车接点带换向盒 with Brake Contact and Reversing Box
D	
带刹车接点不带换向盒 with Brake Contact but without Reversing Box	

III : 扳机 / Triggers			
A1	A2		
16.9 23.3 27 1.4 3.4	3.8 2 6 24.4		
IV : 外接导线数量 / Quantity and Length			
X(a+b)			
外接导线 a表示输出为2根导线， b输入为3根导线 a-2 for input and b-3 for output			

DT 06 直流调速开关 DC Variable Speed Switch

DT06-2018E-A1-Z1-ES2



产品描述 Product description

◆ DT 06 系列是一款通用型的直流扳机调速开关, 集成防尘 和机械刹车接点, 内部带换向结构, 应用于各类直流充电式手持电动工具, 如: 充电式电钻, 充电式电锤, 充电式螺丝起子, 充电式冲击扳手等。

◆ DT 06 series are one general type DC variable speed trigger switches, integrated dustproof, mechanical brake contact and reversing box, commonly for used in DC cordless portable power-tools such as: Cordless Drills, Cordless Screw Drivers, Cordless Rotary Hammers, Cordless Impact Wrenches, etc.

特征 Features

◆ 本开关结构紧凑效率高, 大面积的固定式散热片为开关的安装提供方便, 开关内部为单极常开直通接点结构, 通过改变输入脉冲的占空比来控制场效应管的输出电压, 而实现电子调速功能。

◆ 开关输出端的平均电压为总电压的8 - 50% 至 8 - 90%, 也可以按客户要求定制, 开关按到底由直通接点接至电池端电压。

◆ 可选带以下功能或附件:

- 外置MOS管 → 带软胶扳机
- 外接LED及导线 → 外接电池温度检测导线
- 智能调速功能, 可带软启动, 欠压保护, 过流保护, 电池过温保护

◆ The switches combine compact size with high performance, a wide scope of heat sink for MOSFET and further options provide easy to mount solutions. They employ SPST-NO with by-pass contact, integrated PWM (Pulse Width Modulated) electronics in various dimensions.

◆ Average duty cycle of motor voltage 8 - 50% to 8 - 99%, then by-pass to battery voltage (according to customer's demand).

◆ Optional with the function or accessory as follows:

- External MOSFET version → Trigger covered with rubber
- Auxiliary LED and wires → Auxiliary wire for temperature test
- Multi-function, optional soft start, under-voltage protection, over current protection, battery temperature protection

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance ≥1E5
- 电气耐久寿命 Electrical life endurance ≥5E4
- 最大电流 Max. current at 42Vd.c 25A
- 接触电阻 Contact resistance ≤30m Ohm
- 绝缘电阻 Insulation resistance ≥7M Ohm
- 基本介电强度 Dielectric strength of function 500V
- 加强介电强度 Dielectric strength of reinforced 500V
- 环境温度 Ambient temperature 0°C~55°C
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40

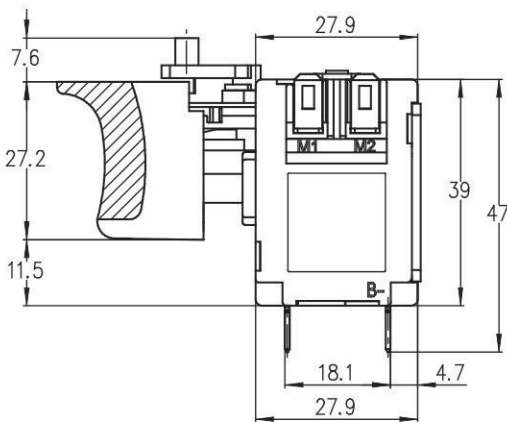
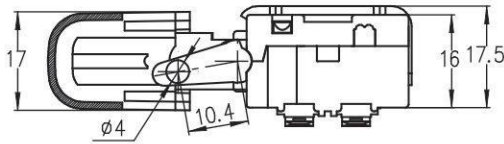
◆ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用。

◆ The electronics in the switches had to be tested together with the corresponding appliances, so the switches are suitable for appliance of class II.

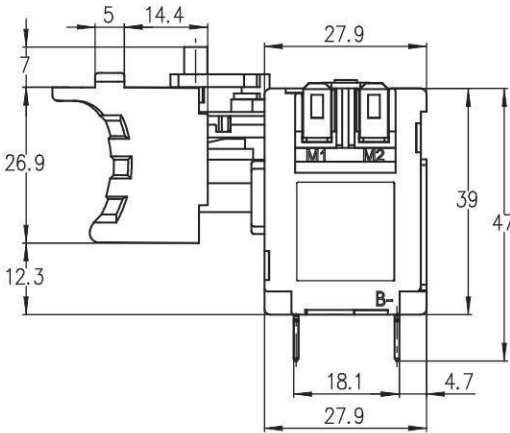
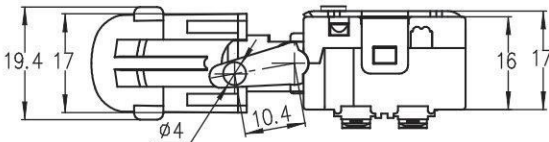
端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
- 焊接端子 Solder terminal

DT06-2018E-A2-Z1-ES1



DT06-2018E-A3-Z1-ES2



型号 Model	范围 Range	标准及认证 / Standard and Approvals	
		UL61058 	EN61058 
DT 06	最小 / min.	15A 12Vd.c 5E4 / 15A 42Vd.c 5E4	15A 12Vd.c 5E4 / 15A 42Vd.c 5E4
	最大 / max.	25A 12Vd.c 5E4 / 25A 42Vd.c 5E4	25A 12Vd.c 5E4 / 25A 42Vd.c 5E4

订货信息 Ordering Information:

DT 06 - 20 24 M - 1 A20 - Z11 - ES 1 - BS-01
I II III IV V VI VII VIII

I: 电流 / Current		II: 电压 / Voltage	
15 - 15A		12 - 12Vd.c.	36 - 36Vd.c.
20 - 20A		15 - 15Vd.c.	42 - 42Vd.c.
25 - 25A		18 - 18Vd.c.	
		24 - 24Vd.c.	

III: 功能类型 / Function Types

E

带调速功能 Variable speed control

M

带智能调速功能. 可选软启动. 欠压保护. 过流保护. 电池过温保护
with Multi-function, optional soft start, low voltage and over current protection, battery high temperature protection

IV: 主体类型 / Body Types

1

2

3

4

V: 扳机 / Triggers

A1

A2

A3

VI: 换向拨杆 / Reversing Levers

Z1

VII: 散热片 / Heat Sinks

ES1
材料: 铝
Material: Aluminum

ES2
材料: 铝
Material: Aluminum

ES3
材料: 铝
Material: Aluminum

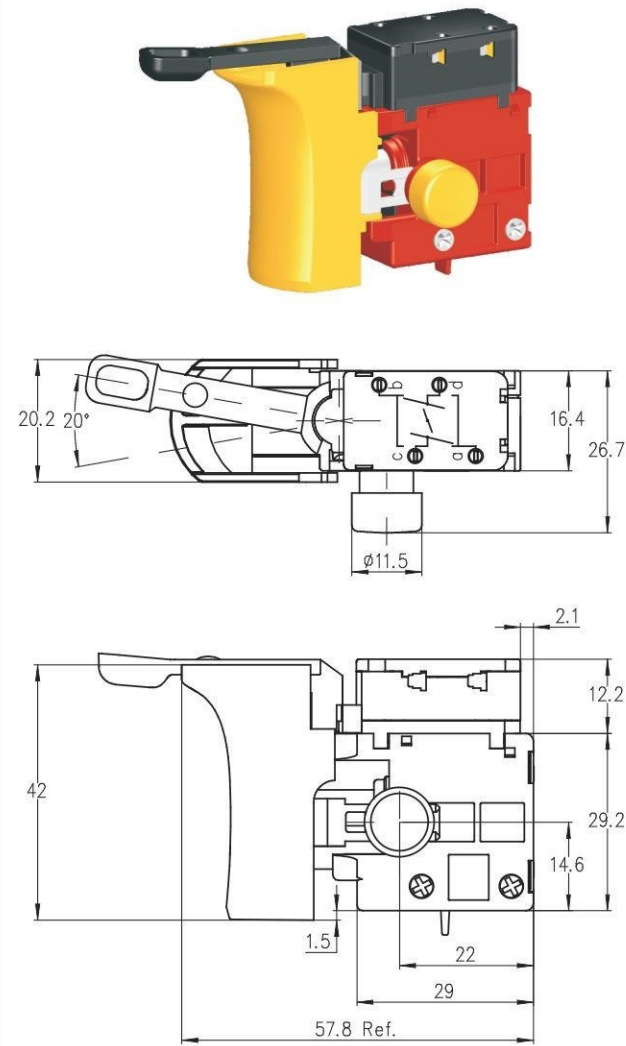
VIII: 电池夹 / Battery Camps

BC-01

BC-02

AT 01 交流调速开关AC Variable Speed Switch

AT01-2506E1-1A1A4-ZAP1



产品描述 Product description

◆ AT 01 系列是一款通用型扳机电调速开关，集成防尘功能，广泛应用于各类手持式电动工具，如：电钻，冲击钻，电锤，曲线锯，往复锯，搅拌机，抛光机，砂光机等。开关有多种换向盒可以选择，扳机、锁钮和扳杆可根据客户要求定制。

◆ AT 01 series are general type multi-speed trigger switches with by-pass contact, integrated dustproof, are popular for used in portable power-tools such as: Electric Drills, Impact Drills, Jig Saws, Electric Hammers, Reciprocating Saws, Grinder Polishers, Sanders, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function:

- 全波调速 Full-wave speed control
- 半波调速 Half-wave speed control
- 通断功能 On-Off version
- 通断功能带电位器输出 On-Off with Passive linear potentiometer
- 机械正转或反转限速 Speed limited in forward or reverse
- 内部电子正转或反转限速 Electronics Speed limited internal in forward or reverse

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁 No Lock
- 闭合锁定(自锁) Lock-on
- 断开锁定(反自锁) Lock-off
- 断开锁定带 闭合锁定(反自锁带自锁) Lock-off with lock-on

◆ 可选带以下附件 Optional with the accessories as follows:

- 初始电压微调节旋钮 Knob for adjusting start voltage
- 扳机旋钮 Dial wheel of Trigger
- 包软胶扳机 Rubberized Trigger(Overmolding)
- 双向可控硅或晶闸管外置用导线连接，并附加散热片 Triac or SCR connected to PCB externally, optional with heat-sink

◆ 开关内部电子部分在相应使用中一并做过相关测试，本开关适合做二类器具开关使用。

◆ The electronics in the switches are to be tested together with the corresponding appliance, the switches are suitable for appliance of class II.

端子类型 Terminals

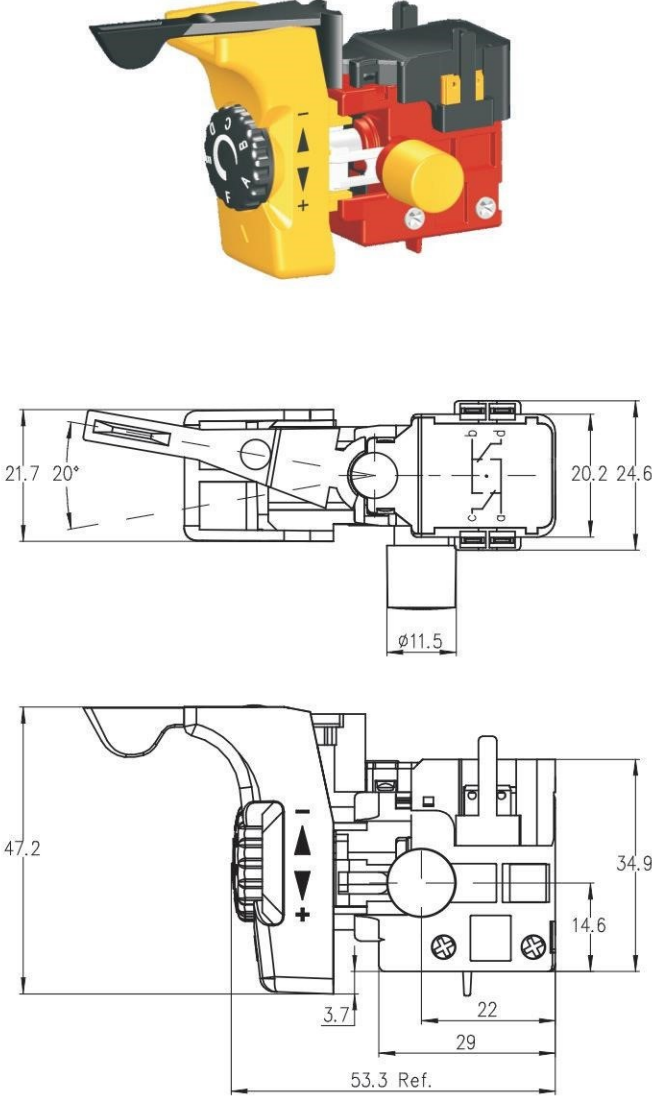
◆ 输入端 Input side:

- 接线柱端子 Pillar terminals $\phi=3\text{mm}$

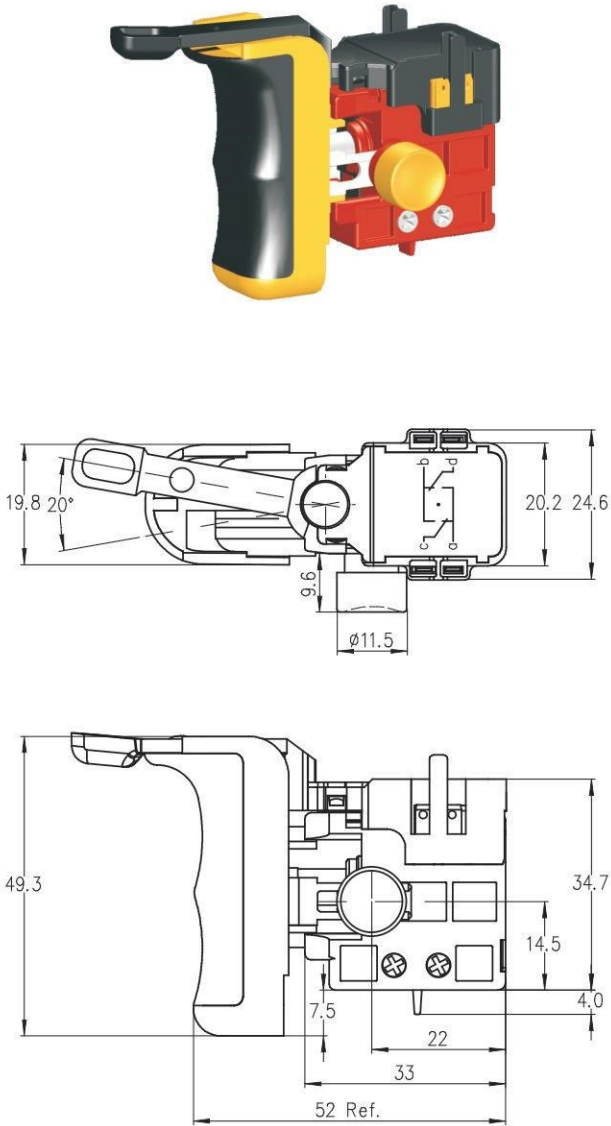
◆ 输出端 Motor side:

- 插入式端子 可插入沾锡导线，带插片端子导线或铜包头导线
- Push-in terminals for soldered strands, strands with end sleeves or strands with end claws

AT01-2506E1-1A2B11-ZBP2



AT01-2506E1-1A3C3-ZBP1



型号 Model	范围 Range	标准及认证 / Standard and Approvals				
		UL61058 	EN61058 	EN61058 	GB15092 	K61058 
AT 01	最小 / min.	6(6)A 127V~ 5E4	4(4)A 250V~ 5E4 / 6(6)A 127V~ 5E4	4(4)A 250V~ 5E4	4(4)A 250V~ 5E4	4(4)A 250V~ 5E4
	最大 / max.	12(12)A 127V~ 5E4	8(8)A 250V~ 5E4 / 12(12)A 127V~ 5E4	8(8)A 250V~ 5E4	8(8)A 250V~ 5E4	8(8)A 250V~ 5E4
	最小 / min.	6(6)A 125V~ 5E4	6(6)A 250V~ 5E4 / 6(6)A 127V~ 5E4		4(4)A 250V~ 5E4	
	最大 / max.	15(15)A 127V~ 5E4	10(10)A 250V~ 5E4 / 15(15)A 127V~ 5E4		8(8)A 250V~ 5E4	
	最小 / min.				4(4)A 250V~ 5E4	
	最大 / max.				8(8)A 250V~ 5E4	

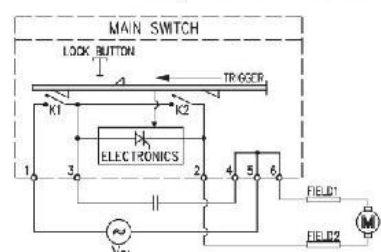
AT 01	-	25	06	E	-	1	80	B8	-	ZQ	36	F
		I	II	III		IV	V	VI		VII	VIII	IX

1: 电压/频率	Voltage / Frequency
15 - 125V a. c. / 50Hz	up to 15(15)A
16 - 125V a. c. / 60Hz	up to 15(15)A
25 - 250V a. c. / 30Hz	up to 8(8)A
26 - 250V a. c. / 60Hz	up to 8(8)A

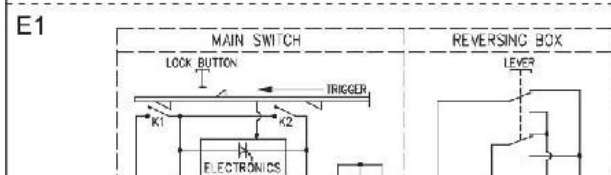
II: 电流 / Current	
04 - 4(4)A	12 - 12(12)A
06 - 6(6)A	14 - 14(14)A For EX only
08 - 8(8)A	15 - 15(15)A For EX only
10 - 10(10)A	

- 空 blank: 无限位功能
with no Speed Limited
- F: 反向(R向)限位功能
with Reverse Speed Limited
- Z: 正向(F向)限位功能
with Forward Speed Limited

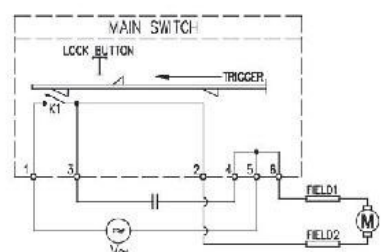
E	EX(SCR or Triac external version)
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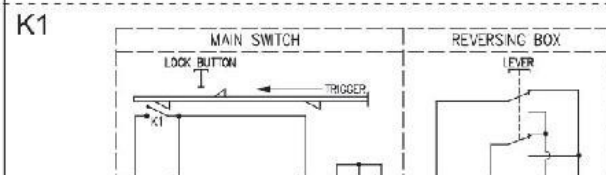
调速功能不带换向盒 Variable Speed without Reversing Box



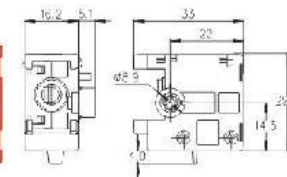
K



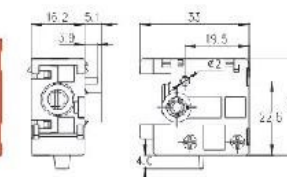
通断功能不带换向盒 On-off Version without Reversing Box



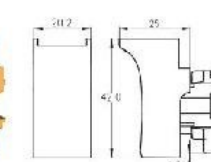
1



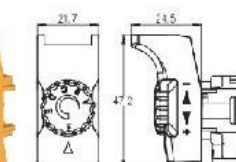
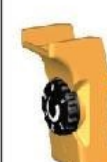
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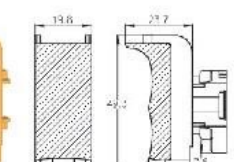
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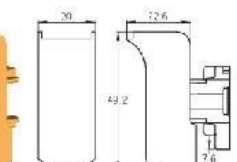
	A2
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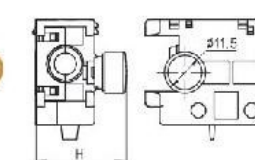
	A3
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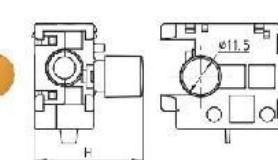
	A4
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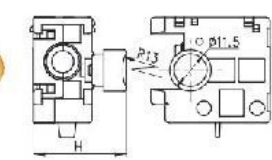
A



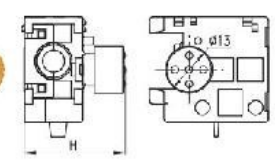
	B
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	C
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D

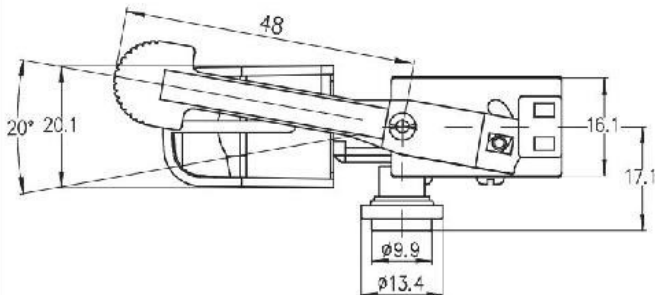


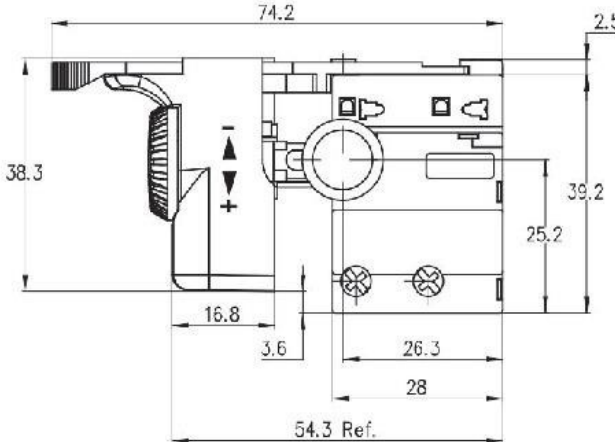
H: 锁钮最高点到底部的高度

AT 02 交流调速开关 AC Variable Speed

AT02-2506E-2A1B3-ZCP2







产品描述 Product description

◆ AT 02 系列是一款通用型扳机电子调速开关, 其中集成防尘功能, 广泛应用于各类电动工具, 如: 6mm电钻, 10mm电钻, 冲击钻, 冲击螺丝起子, 电锤, 曲线锯, 搅拌器, 平板砂光机等. 也可用于吊磨机的脚踏开关等. 开关有多种扳机, 锁钮和拨杆可以选择, 也可以根据客户要求定制.

◆ AT 02 series are one general type variable speed trigger switches with by-pass contact, integrated dustproof, for popular used in portable power-tools such as: 6mm Drills, 10mm Drills, Impact Drills, Impact Screw Drivers, Rotary Hammers, Jig Saws, Electric Mixers, Orbit Sanders, etc. Also used for Foot switch of Hanging Carving Machine.

特征 Features

◆ 可选带以下 功能 Optional with following functions:

- 全波调速 Full-wave speed control
- 半波调速 Half-wave speed control
- On-Off 通断功能 On-Off version
- On-Off 通断功能带线性电位器输出 On-off version with Passive linear potentiometer
- 正转或反转限速 Speed limited in forward or reverse

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁 No Lock
- 闭合锁定 Lock-on

◆ 可选带以下附件 Optional with the accessories as follows:

- 初始电压微调节旋钮 Knob for adjusting start voltage
- 扳机旋钮 Dial wheel of Trigger
- 包软胶扳机 Trigger covered with rubber (overmolding)

◆ 开关内部电子部分在相应使用中 并做过相关测试, 本开关适合做二类器具开关使用.

◆ The electronics in the switches are to be tested together with the corresponding appliance, the switches are suitable for appliance of class II .

端子类型 Terminals

◆ 输入端 Input side:

- 接线柱端子 Pillar terminals $\phi=3mm$

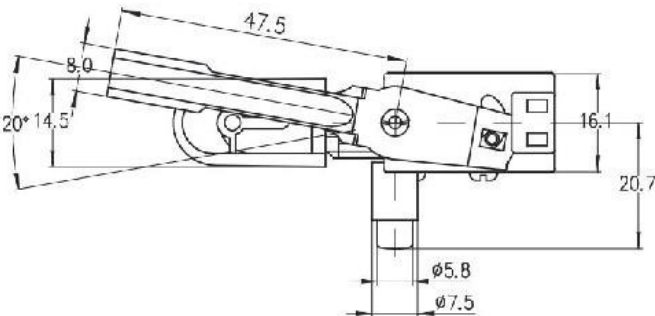
◆ 输出端和换向盒端 Output side and Reversing Box side:

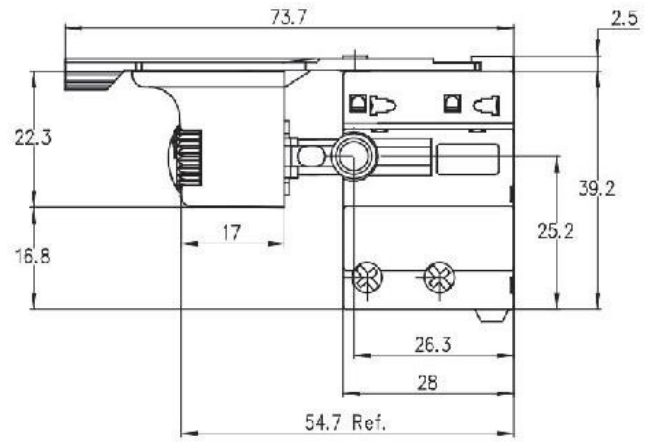
- 插入式端子 可插入沾锡导线, 带插片端子导线或铜包头导线
- Push-in terminals for soldered strands, strands with end sleeve or strands with end claws

型号 Model	范围 Range	标准及认证 / Standard and Approvals				
		UL61058 	EN61058 	EN61058 	GB15092 	K61058 
AT 02	最小 / min.	4(4)A 127V~ 5E4	4(4)A 250V~ 5E4 / 4(4)A 127V~ 5E4	3(3)A 250V~ 5E4	3(3)A 250V~ 5E4	
	最大 / max.	10(10)A 127V~ 5E4	8(8)A 250V~ 5E4 / 10(10)A 127V~ 5E4	6(4)A 250V~ 5E4	6(6)A 250V~ 5E4	6(4)A 250V~ 5E4

AT02-2506E-3A2B1-ZCP1

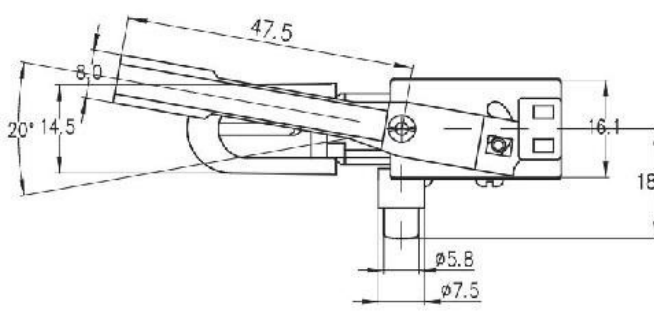


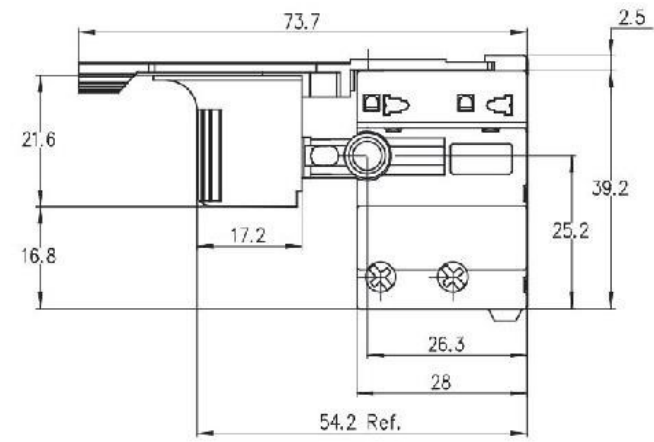




AT02-2506E-3A2B1-ZCP1







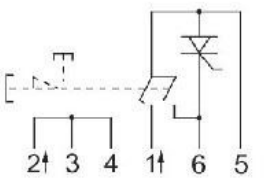
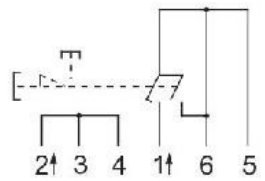
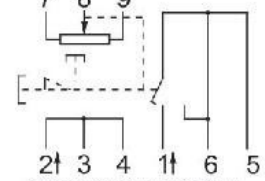
订货信息 Ordering Information:

AT 02 - 25 06 E - 1 A1 B1 - ZC P1
I II III IV V VI VII VIII

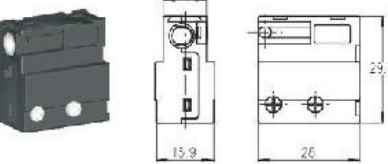
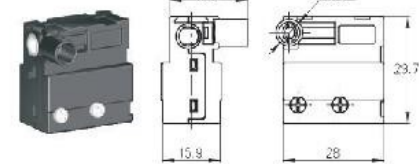
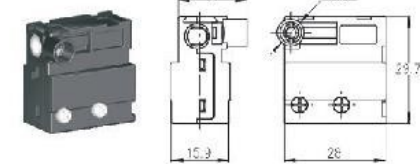
I: 电压/频率 Voltage / Frequency
15 - 127V a.c. / 50Hz up to 10(10)A
16 - 127V a.c. / 60Hz up to 10(10)A
25 - 250V a.c. / 50Hz up to 8(8)A
26 - 250V a.c. / 60Hz up to 8(8)A

II: 电流 / Current
04 - 4(4)A or 6(4)A
06 - 6(6)A
08 - 8(8)A
10 - 10(10)A

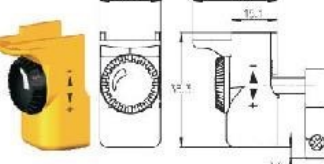
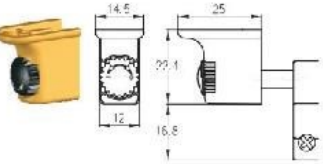
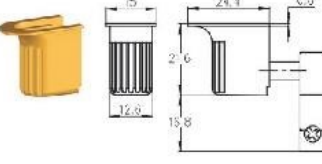
III: 功能类型 / Function Types

E  带调速功能 Variable speed	K  通断功能 On-Off function	R  通断功能带电位器输出 On-Off version with potentiometer	
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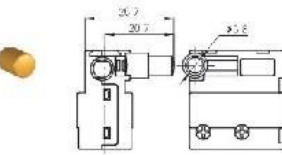
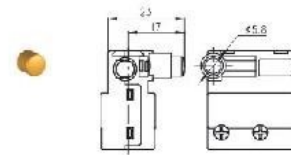
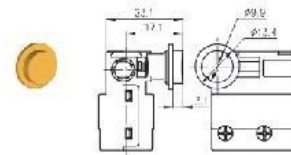
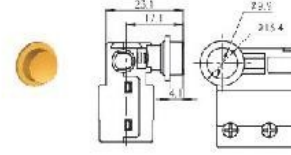
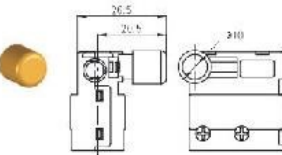
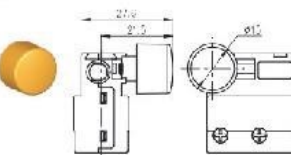
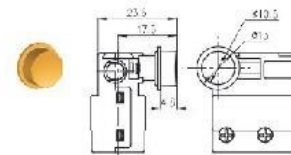
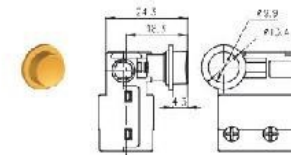
IV: 主体类型 / Body Types

1 	2 	3 
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V: 扳机 / Triggers

A1 	A2 	A3 	
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VI: 锁钮 / Lock Buttons

B1 	B2 	B3 	B4 
B5 	B6 	B7 	B8 

VII: 换向盒 / Reversing Boxes

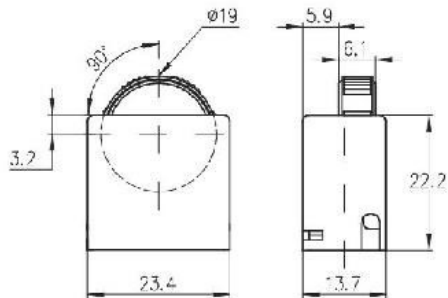
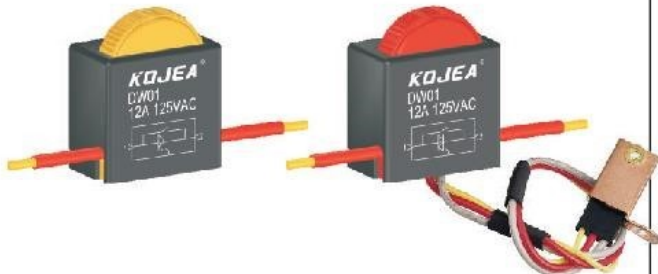
ZC 	P2		
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VI: 锁钮 / Lock Buttons

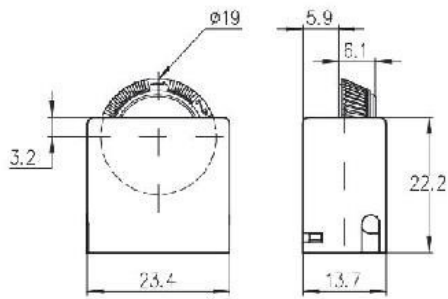
P1 	P2 		
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DW 01 转盘调速器 Dial Wheel Speed Control

DW01-1612E-C1 DW01-1612E-C1-S3-X120



DW01-2506E-C1X DW01-1612E-C1X-S3-X120



产品描述 Product description

◆ DW 01 系列是一款通用型的转盘电子调速器, 是应用于各类手持电动工具, 如: 电锤, 曲线锯, 往复锯, 100和125角向磨光机, 抛光机, 搅拌机, 电木钻, 砂光机, 模具电磨等。

◆ DW 01 series are one general type AC Dial Wheel Speed Controls, the mini-type of for popular used in portable power-tools such as: Rotary Hammer, Jig Saws, Reciprocating Saws, 100mm and 125mm Angle Grinders, Polisher Grinders, Electric Routers, Sanders, Die Grinders, etc.

特征 Features

◆ 可选带以下功能 Optional with following function:

→ 全波调速 Full-wave speed control

→ 半波调速 Half-wave speed control

→ On-Off通断功能带可变电阻输出

On-off version with Passive linear potentiometer

◆ 可选带以下附件 Optional with the accessories as follows:

→ 初始电压微调节旋钮 Knob for adjusting start voltage

→ 可控硅外置适合更大电流并可附带散热片

External Triac version for high currents additional with heat sink

技术数据 Technical data

→ 机械耐久寿命 Mechanical life endurance

≥1E5

→ 电气耐久寿命 Electrical life endurance

≥5E4

→ 最大电流 Max. current at 250V

8A

→ 最大电流 Max. current at 125V

12A

→ 接触电阻 Contact resistance

≤30m Ohm

→ 绝缘电阻 Insulation resistance

≥7M Ohm

→ 基本介电强度 Dielectric strength of function

500V

→ 加强介电强度 Dielectric strength of reinforced

3000V

→ 环境温度 Ambient temperature

0°C~55°C

→ 阻燃等级 Flammability

UL 94V-0

→ 防护等级 Protection type

IP40

→ 开关内部电子部分在相应使用中一并做过相关测试, 本开关适合做二类器具开关使用。

→ The electronics in the switches are to be tested together with the corresponding appliance, the switches are suitable for appliance of class II .

端子类型 Terminals

◆ 输入端/输出端 Input side/Output side:

→ 导线端子 Wires terminals AWG14 ~ AWG18

订货信息 Ordering Information:

DW 01 - 25 06 E - C1 X - S3 - X120

X - 表示可控硅外置, 后面的数字为联接导线的长度, 单位为mm
X - SCR or Triac Outside, suffix is the length of wire, unit mm

I : 电压/频率 Voltage / Frequency

15 - 125V a.c. / 50Hz 后缀 for suffix 06, 08, 10, 12

16 - 125V a.c. / 60Hz 后缀 for suffix 06, 08, 10, 12

25 - 250V a.c. / 50Hz 后缀 for suffix 04, 06, 08

26 - 250V a.c. / 60Hz 后缀 for suffix 04, 06, 08

II : 电流 / Current

04 - 4A 12 - 12A

06 - 6A

08 - 8A

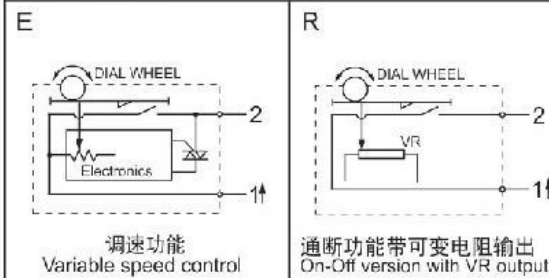
10 - 10A

V : 转盘类型 / Dial Wheel Types

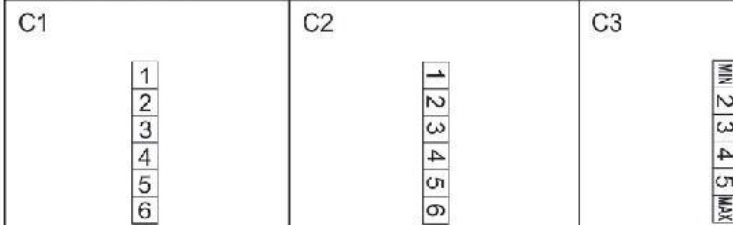
X - Tilted I Dial Wheel

空缺 blank - Normal

III: 功能类型 / Function Types



IV: 转盘印字标识 / Prints on Dial Wheel

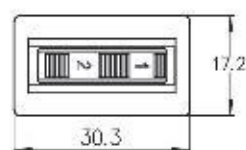


VI: 散热片 / Heat Sinks (具体尺寸见页码A32 / For more dimension, please see page A32)

S1	S2	S3	S4	S5
S6	S7	S8	S9	S10
S11	S12			

DW 02 转盘调速器 Dial Wheel Speed Control

DW02-2506E-A1



产品描述 Product description

◆ DW 02系列是一款通用型的转盘电子调速器, 集成一般防尘功能, 应用于各类手持电动工具, 如: 电锤, 曲线锯, 往复锯, 抛光机, 搅拌机, 电木钻, 砂光机, 100, 125和150角向磨光机, 模具电磨等。

◆ DW 02 series are one general type AC Dial Wheel Speed Controls, integrated dustproof, for popular used in portable power-tools such as: Rotary Hammers, Jig Saws, Reciprocating Saws, Polisher Grinders, Electric Mixers, Electric Routers, Sanders, 100 ~ 150mm Angle Grinders, Die Grinders, etc.

特征 Features

◆ 可选带以下功能 Optional with following function:

- 全波调速 Full-wave speed control
- 半波调速 Half-wave speed control
- On-off通断功能带可变电阻输出

On-off version with Passive linear potentiometer

→ 带可变电阻输出 with Passive linear potentiometer

◆ 可选带以下附件 Optional with the accessories as follows:

→ 初始电压微调节旋钮 Knob for adjusting start voltage

→ 可控硅外置适合更大电流并可附带散热片

External Triac version for high currents additional with heat sink

▲ 可选转盘一档印字与壳体上表面成67.5°

▲ Optional the angle between the printing of 1 and the up surface of shell is 67.5°

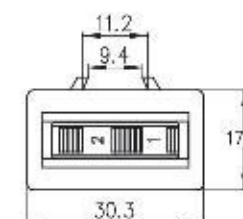
■ 可选转盘一档印字与壳体上表面成90°

■ Optional the angle between the printing of 1 and the up surface of shell is 90°

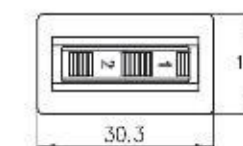
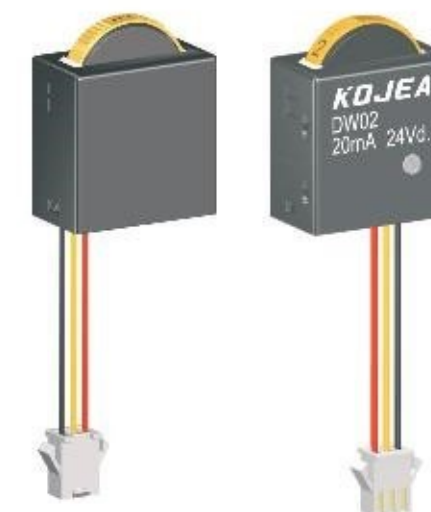
技术数据 Technical data

- | | |
|------------------------------------|----------|
| → 机械耐久寿命 Mechanical life endurance | ≥1E5 |
| → 电气耐久寿命 Electrical life endurance | ≥5E4 |
| → 最大电流 Max. current at 250V | 10A |
| → 最大电流 Max. current at 125V | 16A |
| → 接触电阻 Contact resistance | ≤30m Ohm |

DW02-2506E-TA1-S3-X150



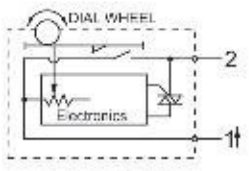
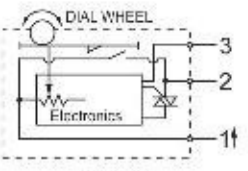
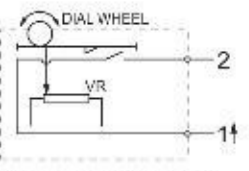
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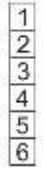
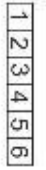
订货信息 Ordering Information:

DW 02 - 25 06 E - T A1 - X120 - S3
I II III IV V VII VI

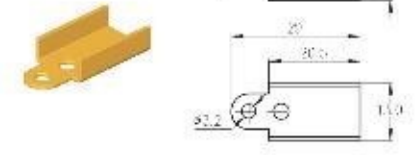
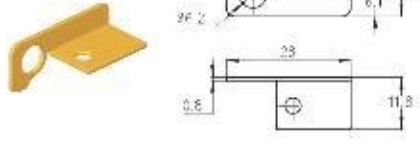
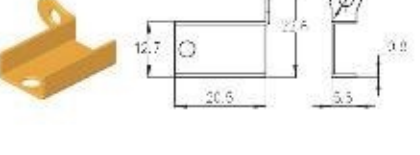
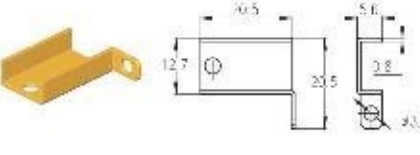
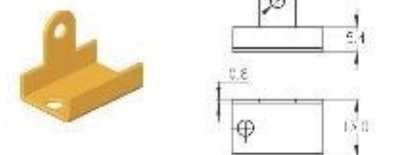
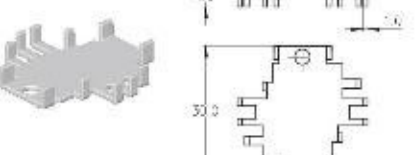
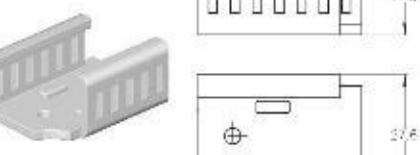
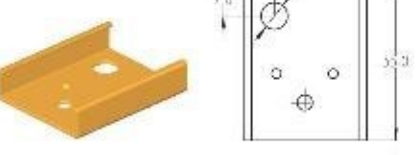
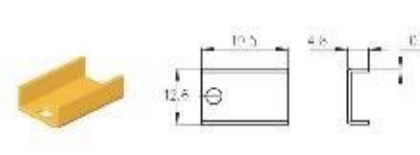
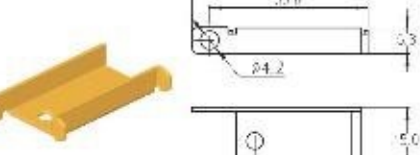
I : 电压/频率 Voltage / Frequency	II : 电流 / Current
15 - 125V a.c. / 50Hz 后缀 for suffix 08, 10, 12, 14, 16	04 - 4A 12 - 12A
16 - 125V a.c. / 60Hz 后缀 for suffix 08, 10, 12, 14, 16	06 - 6A 14 - 14A
25 - 250V a.c. / 50Hz 后缀 for suffix 04, 06, 08, 10	08 - 8A 16 - 16A
26 - 250V a.c. / 60Hz 后缀 for suffix 04, 06, 08, 10	10 - 10A

III: 功能类型 / Function Types				
E  调速功能 Variable speed control	E2  调速功能 Variable speed control	R  通断功能带可变电阻输出 On-Off version with potentiometer		

IV: 主体类型 / Body Types				
空缺 blank  without dovetail	T  with dovetail			

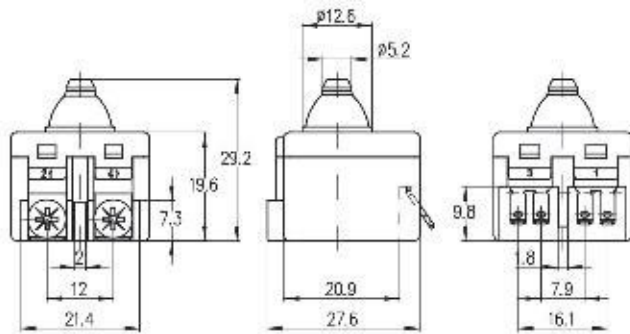
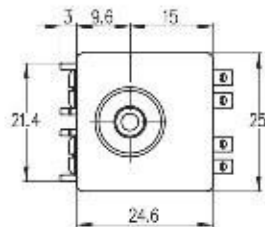
V: 转盘印字标识 / Prints on Dial Wheel				
A1  正字 Right mark	A2  斜字 Tilted mark	A3 	A4 	

IV: 主体类型 / Body Types				
空缺 blank 可控硅内置 Triac Internally	X 可控硅外置 后面的数字为外接导线的 长度. 单位为mm Triac Externally suffix is the length of wire unit mm			

VII: 散热片 / Heat Sinks		
S1 	S2 	S3 
S4 	S5 	S6 
S7 	S8 	S9 
S10 	S11 	S12 

PB 01 按钮开关 Push-button Switch

PB01-2110-1S



产品描述 Product description

◆ PB 01 系列是一款通用型的按钮开关, 集成防尘功能

, 一般应用于各类需要高防尘要求的手持式电动工具, 如:

100,125和150角向磨光机, 抛光机, 模具电磨, 砂光机等。

◆ PB 01 series are general type push-button switch, integrated dustproof, commonly for used in portable heavy dust power-tools such as 100mm,125mm and 150mm Angle Grinders, Polisher Grinders, Die Grinders, Sanders, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function types:

→ 单极常开 Single Pole Normally Open (SPNO)

→ 双极常开 Double Pole Normally Open (DPNO)

→ 双极并联常开 Double Pole Normally Open Paralleled (DPNOP)

→ 一极常闭, 另一极常开

One Pole Normally Open, the other Normally Close

◆ 可选带以下附件 Optional with the accessories as follows:

→ 滤波电容 (电容值由客户选定, 一般为0.22 μ F或0.33 μ F)

Suppression capacitor (commonly 0.22 or 0.33 μ F)

技术数据 Technical data

→ 机械耐久寿命 Mechanical life endurance

$\geq 1E5$

→ 电气耐久寿命 Electrical life endurance

$\geq 5E4$

→ 最大冲击电流 Max.Inrush current at 250V

48A

→ 最大冲击电流 Max.Inrush current at 127V

72A

→ 接触电阻 Contact resistance

$\leq 30m\ \Omega$

→ 绝缘电阻 Insulation resistance

$\geq 7M\ \Omega$

→ 基本介电强度 Dielectric strength of function

1500V

→ 加强介电强度 Dielectric strength of reinforced

3000V

→ 环境温度 Ambient temperature

0°C~55°C

→ 阻燃等级 Flammability

UL 94V-0

→ 防护等级 Protection type

IP40

→ 适用于II类防护器具 Suitable for appliances of protection class II

端子类型 Terminals

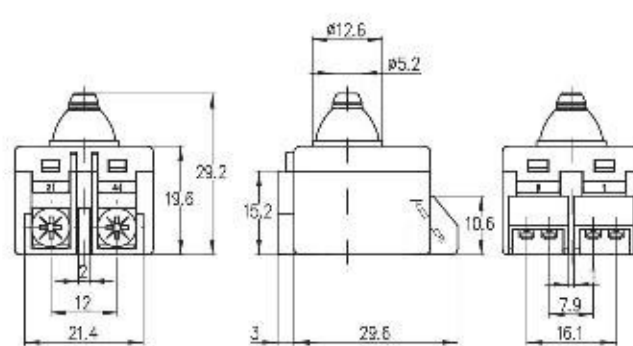
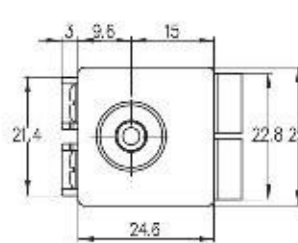
◆ 输入端 Input side:

→ 螺钉端子 Screw terminals M3.5

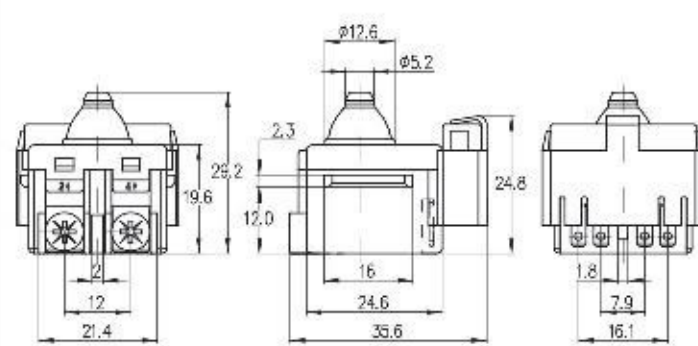
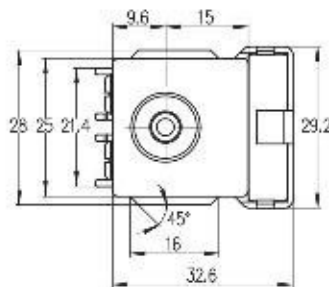
◆ 输出端 Output side:

→ 插片端子 Plug-in terminals 2.8 $\times$ 0.8mm

PB01-2310-1S-A3



PB01-2110-2S-C0.22



型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058 	EN61058 	GB15092 	K61058 
PB 01	最小 / min.	8(8)A 127V~ 5E4 / 12A 42Vd.c 1E4	5(5)A 250V~ 5E4 / 8(8)A 125V~ 5E4	5(5)A 250V~ 5E4	5A 250V~ 5E4
	最大 / max.	12(12)A 127V~ 5E4 / 18A 42Vd.c 1E4	8(8)A 250V~ 5E4 / 12(12)A 125V~ 5E4	8(8)A 250V~ 5E4	6(6)A 250V~ 5E4

订货信息 Ordering Information:

PB 01	-	21	10	-	1	3	-	0	0.22	-	-	-
		I	II		V	VI		VI				

I: 功能类型 / Function Types				
11 单极常开 SPNO	21 双极常开 DPNO	23 单极常闭 SPNC	25 双极常闭 DPNC	

II: 电气参数 / Electrical Ratings				
05	06	09	10	12
5(5)A 250V~ 5E4	6(6)A 250V~ 6E4	9(9)A 250V~ 9E4	10(10)A 250V~ 10E4 10(10)A 125V~ 5E4 10(10)A 125V~ 5E4 15A 250Vd.c 1E1 15A 42Vd.c 1E4	12(12)A 250V~ 12E4 12(12)A 125V~ 5E4 12(12)A 125V~ 5E4 18A 250Vd.c 1E1 18A 42Vd.c 1E4
1E for 250V only	0E for 250V only	0E for 250V only		

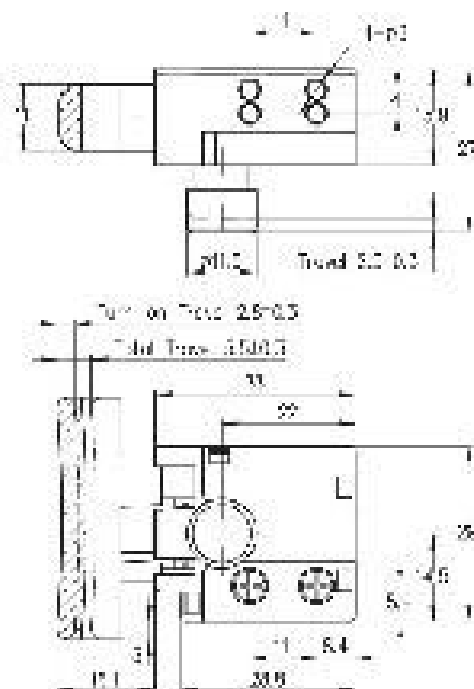
III: 电气参数 / Electrical Ratings (只适用于功能类型25 / For function type 25 only)				
20	25	30		

V: 外壳类型 / Shell Types	
A: 空壳 Blank 	B
C 	D

VI: 附件 / Accessories (只适合外壳B / For Shell Type B only)					
空壳 blank	0.22	0.33			

TS 01 扳机开关 Trigger Switch

TSD1-22123-41-P4



产品描述 Product description

● T5-01 系列是一款通用型升级机开关。集成稳压功能，广泛适用于各种手持式电动工具，如：电钻、电锤、往复锯、曲线锯、根切器、石材切割机、压路机、冲击钻、砂磨机、抛光机、电刨、电动磨床、电动机壳、也可应用于无刷电机产品，如：打草机、吹风机、电动机壳、电灯开关等。

• **T5-01** - these are general type trigger switch **Integrated dustproof**, commonly for use in portable power tools such as Electric Drills, Rotary Hammers, Recirculating Saws, Jig Saws, Electric Mixers, Cut-Off Machines, Marble Cutters, Electric Sanders, Circular Saws, Belt Sanders, Disk Sanders, Trimmers, Electric Planers, Electric Sprayers, Electric Mowers, etc. Besides, they are also suitable for power cordless tools, such as Grass Trimmers, Electric Chain Saws, Electric lawnmowers, Electric Snowblowers, etc.

特長 Features

◆ 丁腈橡胶下 胶冲床型 Equipped with shock absorber, load capacity

- 无符号十进制 0~1023
- 闭区间 [lock, hi]
- 开区间 [lock, hi)
- 闭区间 [lock, hi) 的变体 lock_val, wait, lock_val

◆ 可供以下程序: <http://www.sagepub.com> 或 1-800-818-7243 或 1-800-818-7243

- = 橡胶板密封，上部覆有软木衬垫（见图 6-10）

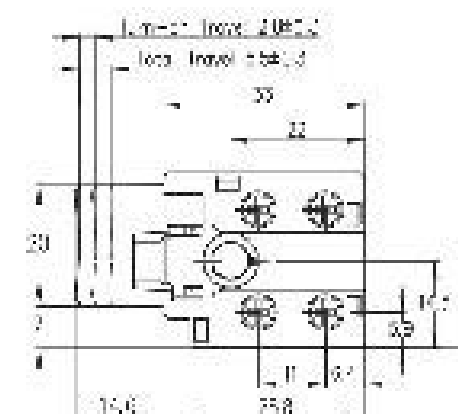
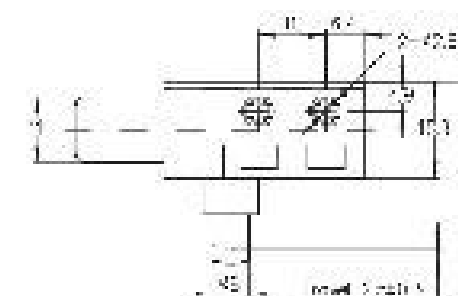
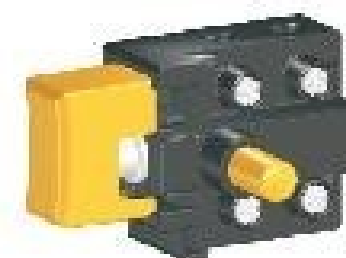
技术规格 Technical data

- | | | |
|-------------|---|-----------------------|
| → 机械耐久寿命 | Mechanical life endurance | 30000 |
| → 电气耐久寿命 | Electrical life endurance | 30000 |
| → 最大工作电压 | Voltage: maximum at 25°C | 60V |
| → 最大工作电流 | Current: maximum at 25°C | 80A |
| → 接触电阻 | Contact resistance | ≤30m Ohm |
| → 绝缘电阻 | Insulation resistance | ≥10 ¹⁰ Ohm |
| → 日本介电强度 | Dielectric strength of JIS test | 1500V |
| → 加温介电强度 | Dielectric strength of reinforced | 2000V |
| → 环境温度 | Ambient temperature | 0°C~55°C |
| → 耐湿等级 | Fumid: 100% | UL 94V-0 |
| → EMI 等级 | Product class | 1000 |
| → 符合日本应用规格书 | Software: General class of product class 11 | |

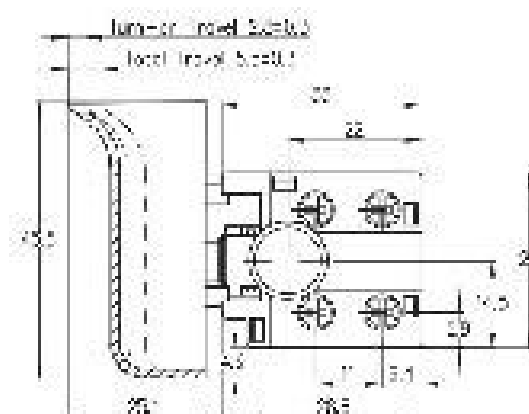
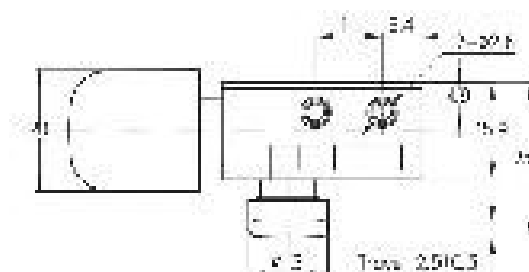
拉丁生詞 | *terminus* | 9

- ◆ 输入端 Input side:
 - 2 个标准端子 Pin1: terminals 0.51.5mm or 1.8mm
- ◆ 输出端 Output side:
 - 3 个标准端子 Pin1: terminals 0.51.5mm or 1.8mm
 - 1 个插入端子 可插入各种型号, 直径与端子系统规格和长度
如 Push-in terminals for colored wires, distance with end
between in distance with end wire

型号 Model	范围 Range	标准及认证 / Standard and Approval		
		UL 51058 	FNR1058 	EN12082 
TS-01	最小 / min	200VA 125V~50Hz / 8A 280Vdc 1E1	200VA 250V~50Hz / 800VA 125V~50Hz 2A 300Vdc 1E1	800VA 250V~50Hz
	最大 / max	1800VA 125V~50Hz / 18A 300Vdc 1E1	1000VA 250V~50Hz / 1600VA 125V~50Hz / 15A 300Vdc 1E1	1000VA 250V~50Hz



T901-2112B-A3-B3



订货信息 Ordering Information:

TS 01 - 21 15 R - A1 - R1
I II I IV V

I. 端子类型 / Terminal Types	
21 4x 插线式 / Pin	22/22A 2x 插线式 / Pin 22B 2x 插线式 / Pin
21F 4x 插线式 / Pin	

II. 电气参数-交流 / Electrical Ratings - AC					
08	10	12	14	15	16
4(4)A 250V~ 5E4 8(5)A 125V~ 5P4	6(6)A 250V~ 5E4 10(10)A 125V~ 5P4	6(6)A 250V~ 5E4 10(10)A 125V~ 5P4	8(8)A 250V~ 5E4 14(14)A 125V~ 5P4	10(10)A 250V~ 5E4 15(15)A 125V~ 5P4	10(10)A 250V~ 5E4 15(15)A 125V~ 5P4
08 only for 250V	05 only for 270V	05 only for 270V	08 only for 250V	08 only for 250V	10 only for 250V

III. 电气参数 - 直流 / Electrical Ratings - DC					
08	10	12	14	15	16
5A 30Vdc 1E4	10A 30Vdc 1E4	12A 30Vdc 1E4	14A 30Vdc 1E4	15A 30Vdc 1E4	15A 30Vdc 1E4

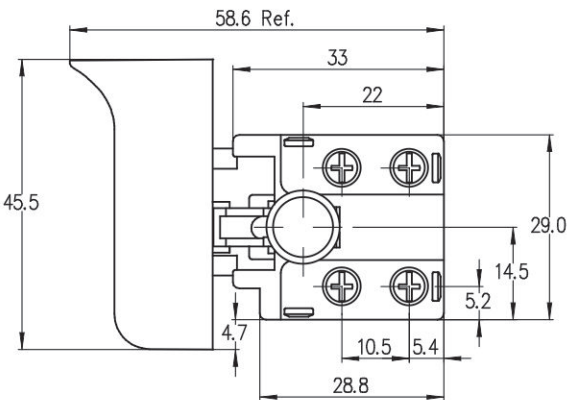
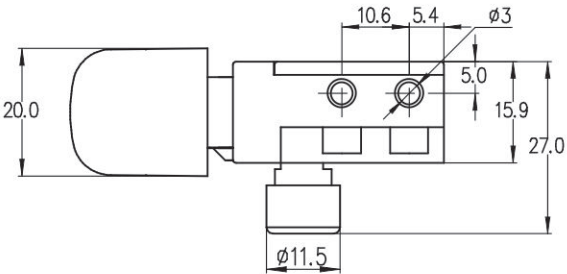
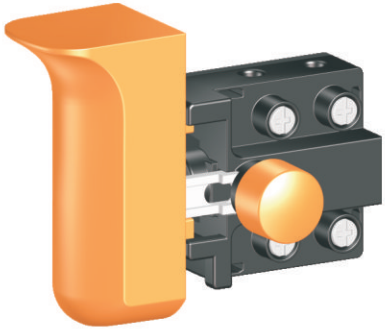
I. 锁定类型 / Lock Types	
W 无锁定 / No Lock	R 闭锁锁定 / Lock-on
D 闭锁锁定 / Lock-off	DR 闭锁锁定 / Lock-on

VI. 扳机 / Triggers			
A1	A2	A3	A4
A5			

V. 锁钮 / Lock Buttons				
R1	R2	R3	R4	R5
B6	R7	B8	B9	E10

TS 02 扳机开关 Trigger Switch

TS02-2116B-A4-BB5



产品描述 Product description

◆ TS 02 系列是一款通用型的扳机开关，集成防尘功能，内部为快速动作结构，广泛应用于各类手持式电动工具，如：电钻，电锤，往复锯，曲线锯，角向磨光机，搅拌机，型材切割机，云石机，电圆锯，电木铣，砂带机，砂光机，抛光机，电刨，电动喷枪，电动钉枪，也可应用于电动和园林工具，如：打草机，电链锯，电动割草机，电动扫雪机等。

◆ TS 02 series are general type trigger switch, integrated dustproof, with snap-action structure, commonly for used in portable power tools such as Electric Drills, Rotary Hammers, Reciprocating Saws, Jig Saws, Angle Grinders, Electric Mixers, Cut-Off Machines, Marble Cutters, Electric Routers, Circular Saws, Belt Sanders, Orbit Sanders, Polishers, Electric Planers, Electric Sprayers, Electric Nailers, etc. Besides, they are also suitable for gardening tools, such as Grass Trimmers, Electric Chain Saws, Electric Lawnmowers, Electric Snowthrowers, etc.

特征 Features

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁定 No Lock
- 闭合锁定 Lock-on
- 断开锁定 Lock-off

◆ 可选带以下附件 Optional with the accessories as follows:

→ 包胶胶扳机 Trigger covered with rubber (overmolding)

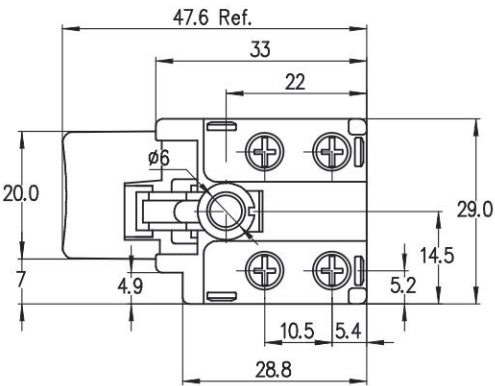
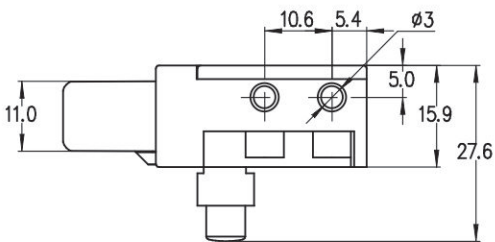
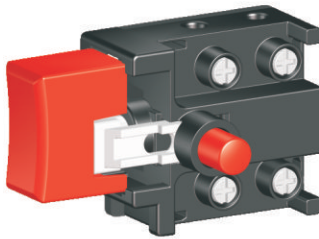
技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大冲击电流 Max.Inrush current at 250V 60A
- 最大冲击电流 Max.Inrush current at 125V 96A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C\sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

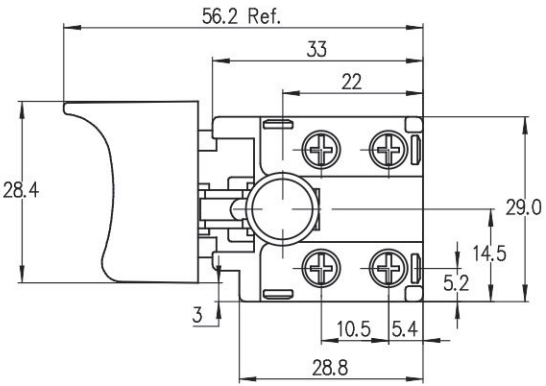
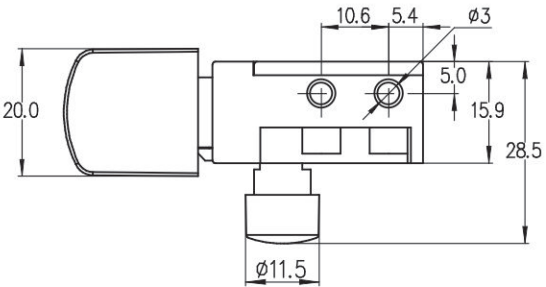
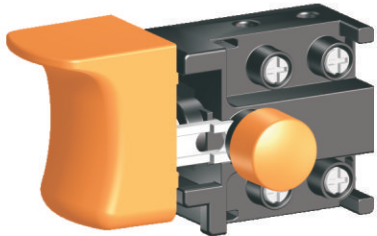
端子类型 Terminals

- ◆ 输入端 Input side:
 - 2×接线柱端子 Pillar terminals $\phi=2.9mm$
- ◆ 输出端 Output side:
 - 2×接线柱端子 Pillar terminals $\phi=2.9mm$
 - 4×插入式端子 可插入沾锡导线、带插片端子导线或铜包头导线
 - 4× Push-in terminals for soldered strands, strands with end sleeves or strands with end claws

TS02-2116B-A3-BK6



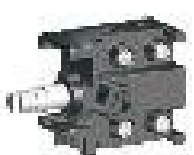
TS02-2116B-A5-BB8



型号 Model	范围 Range	标准及认证 / Standard and Approvals		
		UL61058 	EN61058 	GB15092 
TS 02	最小 / min.	8(8)A 125V~ 5E4 / 8A 36Vd.c 1E4	4(4)A 250V~ 5E4 / 8(8)A 125V~ 5E4 / 8A 36Vd.c 1E4	6(6)A 250V~ 5E4
	最大 / max.	16(16)A 125V~ 5E4 / 18A 36Vd.c 1E4	13(13)A 250V~ 5E4 / 16(16)A 125V~ 5E4 / 18A 36Vd.c 1E4	13(13)A 250V~ 5E4

订货信息 Ordering Information:

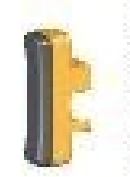
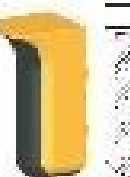
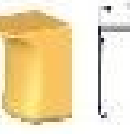
S 02 - 21 15 E - A2 - B35
I II I IV V

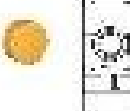
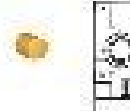
I: 主体及端子类型 / Body and Terminal Types		
11	11W	21
		
4× 针式插端子 Pin terminals 双极开关 DPST	4× 针式插端子 Pin terminals	4× 针式插端子 Pin terminals 双极开关 DPST
22	21W	
		
2× 针式插端子 Pin terminals 4× 插入式端子 Push-in terminals 双极开关 DPST	2× 针式插端子 Pin terminals 4× 插入式端子 Push-in terminals 双极开关 DPST	

II: 电气参数 / Electrical Ratings (只适合功能11 / For function 11 only)					
18	11	12	15		
60VA 250V~ 5E4 60VA 125V~ 5E4 10A 36Vd.c 1E4	30VA 250V~ 5E4 10/10A 125V~ 5E4 15A 36Vd.c 1E4	10/10A 250V~ 5E4 10/10A 125V~ 5E4 5A 36Vd.c 1E4	13/13A 250V~ 5E4 13/13A 125V~ 5E4 15A 36Vd.c 1E4		
08 only for 250V	08 only for 250V	11 only for 250V	15 only for 250V		

II: 电气参数 / Electrical Ratings (只适合功能21 / For function 21 only)					
08	10	12	14	15	16
40VA 250V~ 5E4 40VA 125V~ 5E4 5A 36Vd.c 1E4	40VA 250V~ 5E4 10/10A 125V~ 5E4 10A 36Vd.c 1E4	30VA 250V~ 5E4 12/12A 125V~ 5E4 12A 36Vd.c 1E4	40VA 250V~ 5E4 14/14A 125V~ 5E4 14A 36Vd.c 1E4	40VA 250V~ 5E4 13/13A 125V~ 5E4 15A 36Vd.c 1E4	10/10A 250V~ 5E4 13/13A 125V~ 5E4 15A 36Vd.c 1E4
04 only for 250V	05 only for 250V	06 only for 250V	08 only for 250V	09 only for 250V	10 only for 250V

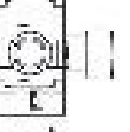
III: 锁定类型 / Lock Types		
W	E	D
		
无锁定 No Lock	锁定状态 Lock-on	断开锁定 Lock-off

VI: 扳机 / Triggers			
A1	A2	A3	A4
			
A5			
			

VII: 按钮 / Lock Buttons			
BA	BB	BC	BD
			
BE	BF	BK	BL
			

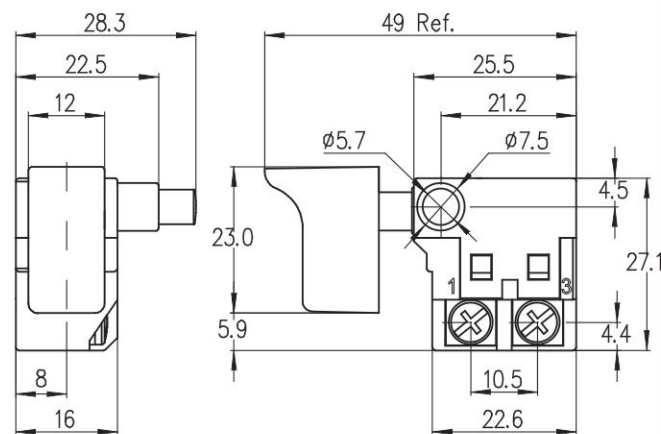
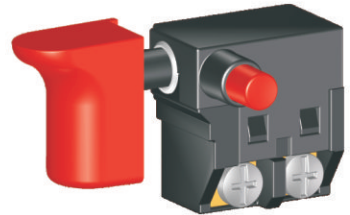
II: 按钮最高点到开关底部的高度
H=the dimension between the top of lock button to bottom of the switch.

1: H=25mm	7: H=28mm
2: H=25.5mm	8: H=28.5mm
3: H=26mm	9: H=29mm
4: H=26.5mm	10: H=29.5mm
5: H=27mm	11: H=30mm
6: H=27.5mm	12: H=30.5mm



TS 03 扳机开关 Trigger Switch

TS03-1115B-A1-B1



产品描述 Product description

◆ **TS 03** 系列是一款通用型的扳机开关, **集成防尘功能**, 广泛应用于各类手持式电动工具, 如: 电钻, 云石机, 电圆锯, 电木铣, 砂带机, 砂光机, 电刨等。

◆ **TS 03** series are one general type trigger switch, **integrated dustproof**, commonly used in portable power tools such as Electric Drills, Marble Cutters, Circular Saws, Electric Routers, Belt Sanders, Electric Planers, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function:

- 单极常开 SPNO
- 一极常开, 另一极直通 One Pole NO, the other Connected

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁定 No Lock
- 闭合锁定 Lock-on
- 断开锁定 Lock-off

技术数据 Technical data

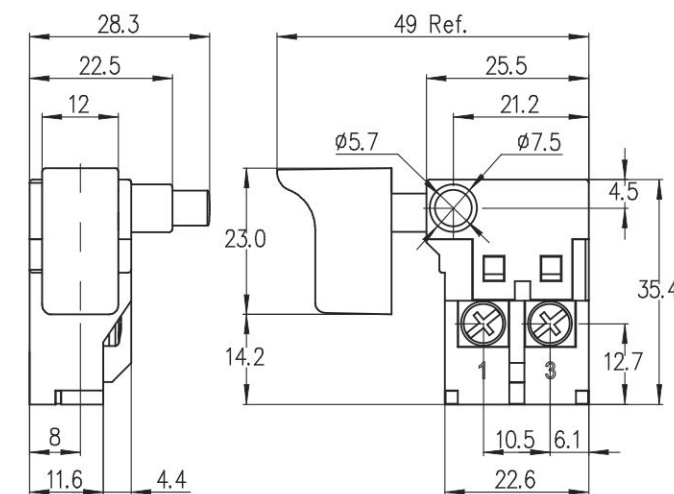
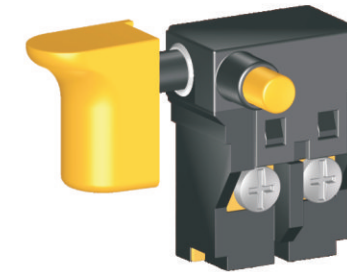
- | | | |
|--------------|--|----------|
| → 机械耐久寿命 | Mechanical life endurance | ≥1E5 |
| → 电气耐久寿命 | Electrical life endurance | ≥5E4 |
| → 最大冲击电流 | Max. Inrush current at 250V | 60A |
| → 最大冲击电流 | Max. Inrush current at 125V | 96A |
| → 接触电阻 | Contact resistance | ≤30m Ohm |
| → 绝缘电阻 | Insulation resistance | ≥7M Ohm |
| → 基本介电强度 | Dielectric strength of function | 1500V |
| → 加强介电强度 | Dielectric strength of reinforced | 3000V |
| → 环境温度 | Ambient temperature | 0℃~55℃ |
| → 阻燃等级 | Flammability | UL 94V-0 |
| → 防护等级 | Protection type | IP40 |
| → 适用于II类防护器具 | Suitable for appliances of protection class II | |

端子类型 Terminals

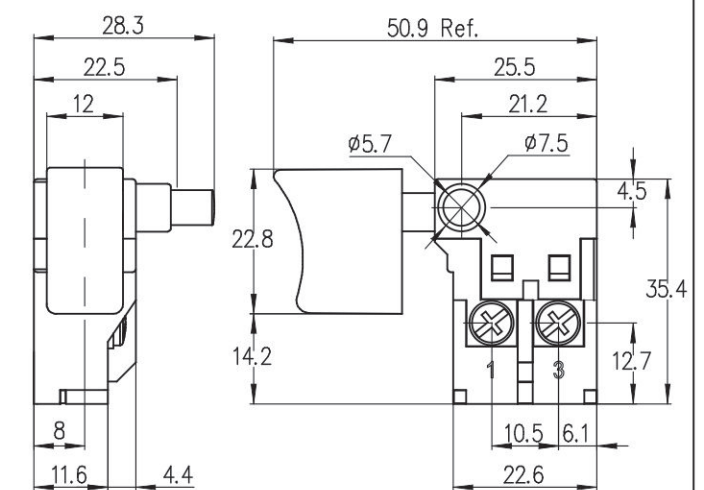
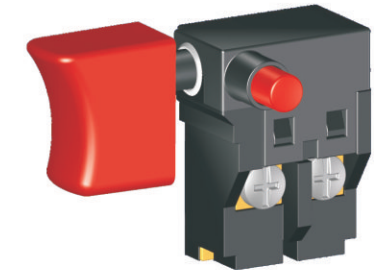
- ◆ 输入端/输出端 Input side/Output side:
→ 螺钉端子 Screw terminals M3.5

型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058 	EN61058 	GB15092 	K61058 
TS 03	最小 / min.	8(8)A 125V~ 5E4 / 8A 36Vd.c 1E4	4(4)A 250V~ 5E4 / 8A 36Vd.c 1E4	6(6)A 250V~ 5E4	
	最大 / max.	16(16)A 125V~ 5E4 / 18A 36Vd.c 1E4	10(10)A 250V~ 5E4 / 18A 36Vd.c 1E4	10(10)A 250V~ 5E4	10(10)A 250V~ 5E4

TS03-2115B-A1-B1



TS03-2115B-A2-B1

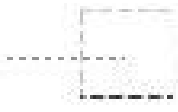
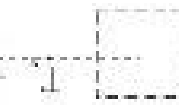
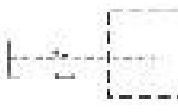


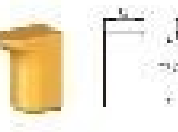
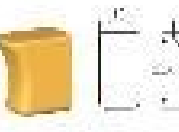
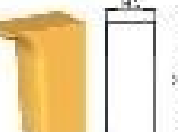
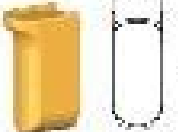
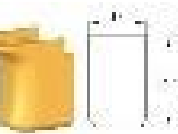
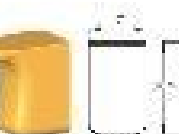
订货信息 Ordering Information

TS 03 - 21 15 H - A1 - B1
I II II e v

主体及功能类型 / Body and Function Types	
11	21
	
单极常开 SPNO	一极常开, 另一极止闭 One pole NO, the other connected

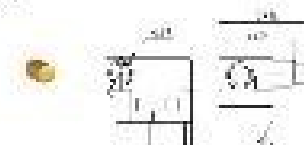
I: 电气参数 / Electrical Ratings			
10	12	15	16
8(8)A 200V~ 5E4 10(10)A 125V~ 5F4 10A 30Vd.c 1E4	8(8)A 250V~ 5E4 12(12)A 125V~ 5F4 12A 30Vd.c 1E4	10(10)A 200V~ 5E4 15(15)A 125V~ 5F4 15A 30Vd.c 1E4	10(10)A 250V~ 5E4 15(15)A 125V~ 5F4 15A 30Vd.c 1E4
05 only for 250V	05 only for 200V	10 only for 200V	10 only for 250V

II: 锁闭类型 / Lock Types			
W	L	D	
			
无锁闭 No Lock	闭锁锁闭 Lock-on	翻开锁闭 Lock-off	

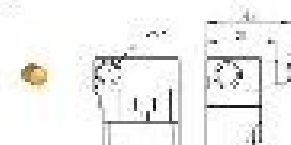
III: 扳机 / Triggers			
A1	A2	A3	A4
			
A5	A6	A7	A8
			

V: 按钮 / Lock Buttons

B1



B2

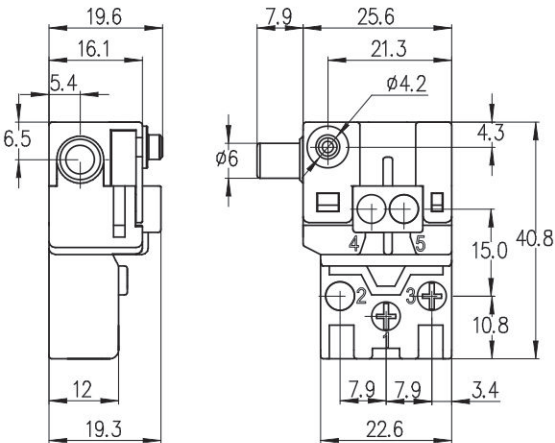
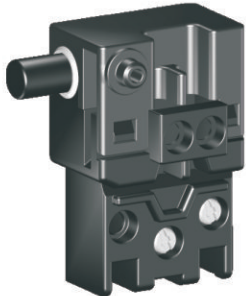


B3



TS 04 扳机开关 Trigger Switch

TS04-1115-A0



产品描述 Product description

◆ TS 04 系列是一款通用型的扳机开关, 集成防尘功能, 广泛应用于各类电动工具, 如: 型材切割机, 斜切锯, 电圆锯, 电锤等.

◆ TS 04 series are one general type trigger switch, integrated dust-proof, commonly for used in power tools such as Cut-off Machines, Miter Saws, Circular Saws, Electric Hammers, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function:

- 单极常开 SPNO
- 单极双掷 SPDT
- 一极常开, 另一极直通 One Pole NO, the other Directly
- 一极双掷, 另一极直通 One Pole DT, the other Directly

◆ 可选带以下附件 Optional with the accessories as follows:

- 包软胶扳机 Trigger covered with rubber (overmolding)

技术数据 Technical data

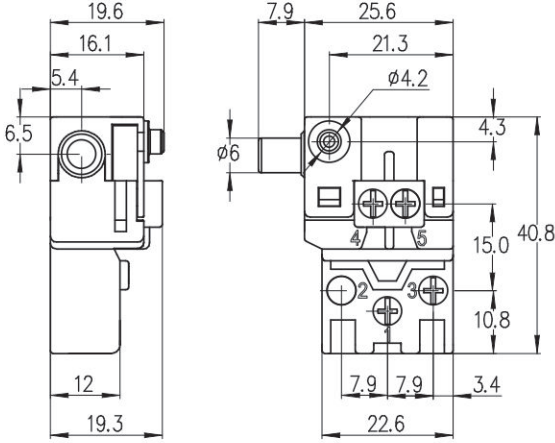
→ 机械耐久寿命 Mechanical life endurance	≥1E5
→ 电气耐久寿命 Electrical life endurance	≥5E4
→ 最大冲击电流 Max.Inrush current at 250V	60A
→ 最大冲击电流 Max.Inrush current at 125V	90A
→ 接触电阻 Contact resistance	≤30m Ohm
→ 绝缘电阻 Insulation resistance	≥7M Ohm
→ 基本介电强度 Dielectric strength of function	1500V
→ 加强介电强度 Dielectric strength of reinforced	3000V
→ 环境温度 Ambient temperature	0°C~55°C
→ 阻燃等级 Flammability	UL 94V-0
→ 防护等级 Protection type	IP40
→ 适用于II类防护器具 Suitable for appliances of protection class II	

端子类型 Terminals

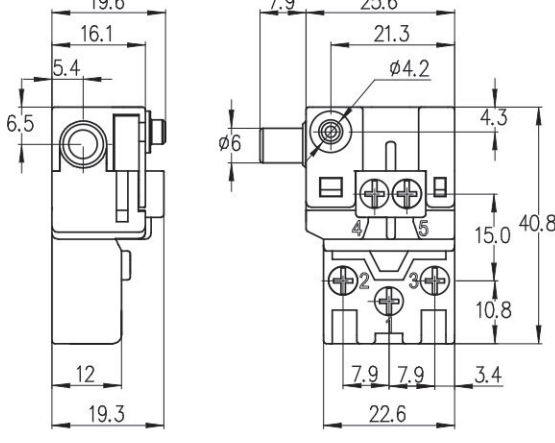
◆ 输入端/输出端 Input side/Output side:

- 接线柱端子 Pillar terminals $\phi=3.0\text{mm}$

TS04-2115-A0



TS04-2215-A0



型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058 	EN61058 	GB15092 	
TS 04	最小 / min.	8(8)A 125V~ 5E4 / 12A 36Vd.c 1E4	4(4)A 250V~ 5E4 / 12A 36Vd.c 1E4	6(6)A 250V~ 5E4	
	最大 / max.	15(15)A 125V~ 5E4 / 25A 36Vd.c 1E4	10(10)A 250V~ 5E4 / 25A 36Vd.c 1E4	10(10)A 250V~ 5E4	

订货信息 Ordering Information

18 L4 - 11 15 - A13
I II

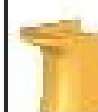
功能类型 / Function Types

11  三极常开 SPNO	12  三极双掷 SPDT	21  一极常开, 另一极常闭 One pole NO, the 2nd connected
22  一极常开, 另一极常闭 1st pole NO, the 2nd connected		

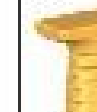
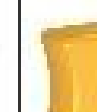
电气参数 / Electrical Ratings

10	12	15		
8(8)A 250V~ 5P4 10(10)A 125V~ 3E4 16A 36Vdc 1P4	8(8)A 250V~ 5P4 12(12)A 125V~ 3E4 20A 36Vdc 1P4	10(10)A 250V~ 5P4 15(15)A 125V~ 5E4 25A 36Vdc 1P4		
DS only for 250V	DS only for 250V	DS only for 250V		

1. 扳机 / Triggers

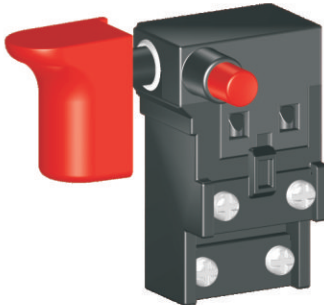
A1 	A2 	A3 	A4 
A5 	A6 	A7 	A8 

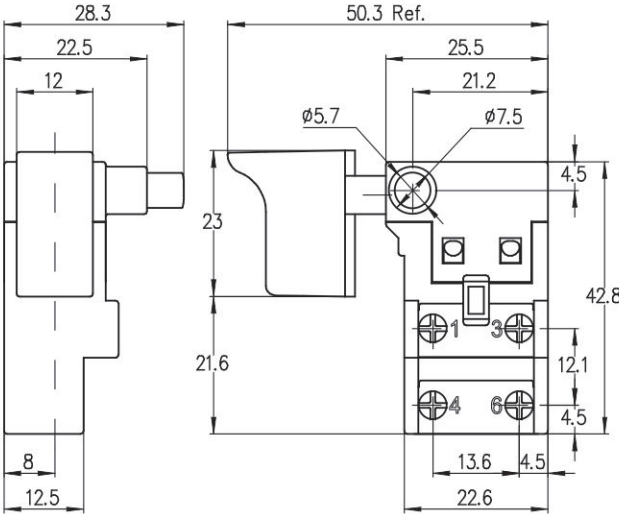
1. 扳机 / Triggers

A9 	A10 	A11 	A12 
A13 	A13B 	A14 	A15 
A16 	A17 	A18 	

TS 05 扳机开关 Trigger Switch

TS05-2110B-A1-B1





产品描述 Product description

◆ TS 05 系列是一款通用型的扳机开关, 集成防尘功能, 广泛应用于各类电动工具, 如: 型材切割机, 斜切锯, 云石机, 电圆锯, 电锤, 电木铣, 砂带机, 砂光机, 电刨等.

◆ TS 05 series are one general type trigger switch, integrated dustproof, commonly for used in power tools such as Cut-off Machines, Miter Saws, Marble Cutters, Circular Saws, Electric Hammers, Electric Routers, Belt Sanders, Electric Planers, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function:

- 双极常开 DPNO
- 双极双掷 DPDT
- 一极常开, 另一极常闭 One Pole NO, the other NC
- 一极常开, 另一极双掷 One Pole NO, the other DT

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁定 No Lock
- 闭合锁定 Lock-on
- 断开锁定 Lock-off

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大冲击电流 Max.Inrush current at 250V 60A
- 最大冲击电流 Max.Inrush current at 125V 96A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C\sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

端子类型 Terminals

◆ 输入端/输出端 Input side/Output side:

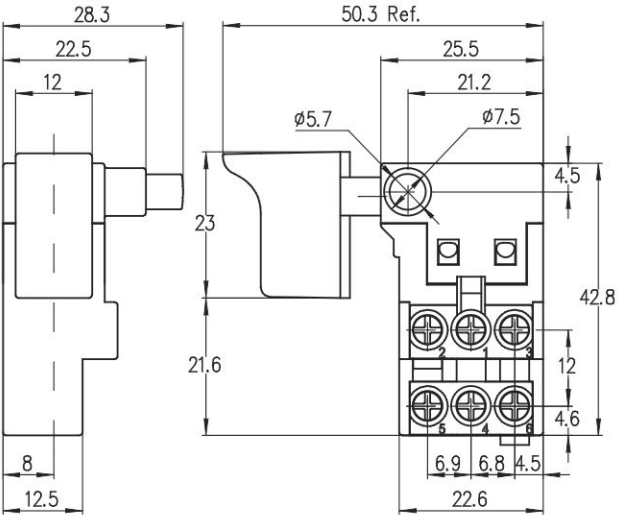
- 接线柱端子 Pillar terminals $\phi=3.0mm$

★ 本产品荣获实用新型专利
★ Utility Model patented

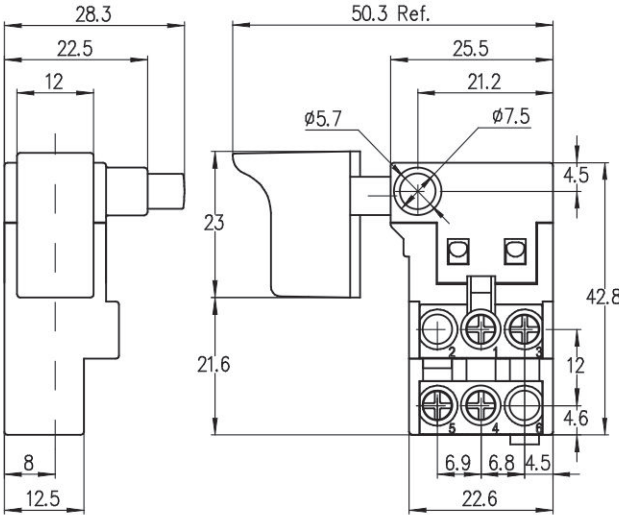
型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058 	EN61058 	GB15092 	
TS 05	最小 / min.	8(8)A 127V~ 5E4 / 12A 36Vd.c 1E4	4(4)A 250V~ 5E4 / 12A 36Vd.c 1E4	6(6)A 250V~ 5E4	
	最大 / max.	16(16)A 127V~ 5E4 / 25A 36Vd.c 1E4	10(10)A 250V~ 5E4 / 25A 36Vd.c 1E4	10(10)A 250V~ 5E4	

TS05-2210B-A1-B1





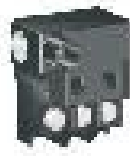
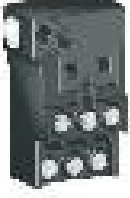
TS05-2310B-A1-B1



订货信息 Ordering Information

S 05 - 21 15 B - A1 - R1
I II IV V

1. 外形及功能类型 / Body and Function Types

11  单极开关 SPST 2 3 1	12  单极双掷 SPDT 2 3 1	21  双极开关 DPST 3 1 5 4
22  双极双掷 DPDT 2 3 1 5 6 4	23  一极常开，另一极常闭 One pole NO, the other NC 3 1 5 4	24  一极常开，另一极双掷 One pole NO, the other DT 3 1 5 6 4

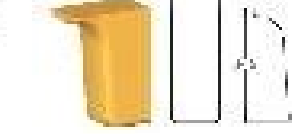
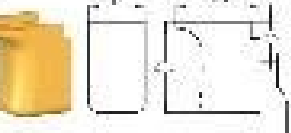
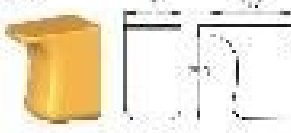
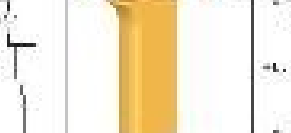
2. 电气参数 / Electrical Ratings

10	12	15	16
6(3)A 250V~ 5P4 10(10)A 127V~ 5E4 18A 380Vdc 1P4	6(3)A 250V~ 5P4 12(12)A 127V~ 5E4 24A 380Vdc 1P4	10(10)A 250V~ 5P4 10(15)A 127V~ 5E4 24A 380Vdc 1P4	10(10)A 250V~ 5P4 10(15)A 127V~ 5E4 24A 380Vdc 1P4
05 only for 200V	05 only for 200V	10 only for 200V	10 only for 200V

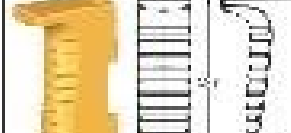
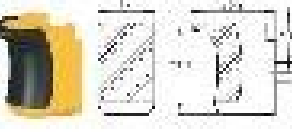
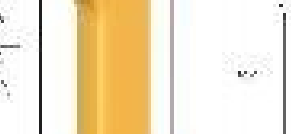
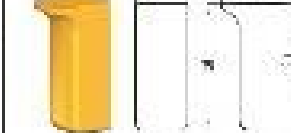
3. 锁定类型 / Lock Types

W	B	D
 无锁定 No Lock	 闭锁锁定 Lockman	 脱开锁定 Lockoff

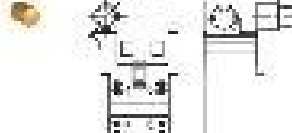
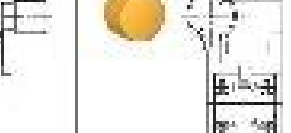
4. 扳机 / Triggers

A1 	A2 	A3 	A4 
A5 	A6 	A7 	A8 

5. 扳机 / Triggers

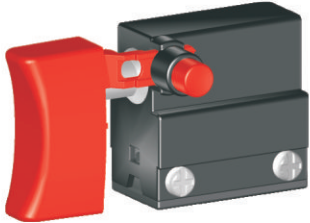
A9 	A10 	A11 	A12 
A13 	A14 	A15 	A16 
A17 	A18 		

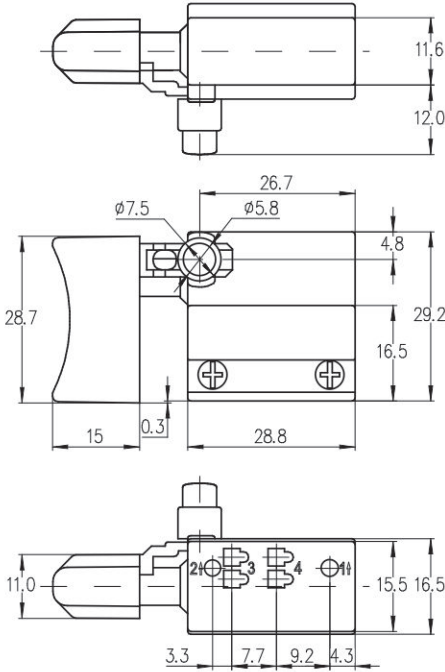
6. 按钮 / Lock Buttons

R1 	R2 	R3 	R4 
R5 	R6 	R7 	R8 
R9 	R10 		

TS 06 扳机开关 Trigger Switch

TS06-A1213B-A12-B1





产品描述 Product description

◆ TS 06 系列是一款通用型的扳机开关, 可选集成防尘功能. 广泛应用于各类电动工具, 如: 云石机, 电圆锯, 电锤, 电木铣, 砂带机, 带锯机, 砂光机, 电刨, 搅拌机, 电动喷枪等.

◆ TS 06 series are one general type trigger switch, optional integrated dustproof version, commonly for used in power tools such as Marble Cutters, Circular Saws, Electric Hammers, Electric Routers, Belt Sanders, Belt Saws, Electric Planers, Electric Mixers, Electric Sprayers, etc.

特征 Features

◆ 可选带以下 功能 Optional with following function:

- 双极常开 DPNO
- 单极常开 SPNO

◆ 可选带以下 锁定类型 Optional with following lock types:

- 无锁定 No Lock
- 闭合锁定 Lock-on
- 断开锁定 Lock-off

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance ≥1E5
- 电气耐久寿命 Electrical life endurance ≥5E4
- 最大冲击电流 Max.Inrush current at 250V 48A
- 最大冲击电流 Max.Inrush current at 125V 96A
- 接触电阻 Contact resistance ≤30m Ohm
- 绝缘电阻 Insulation resistance ≥7M Ohm
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature 0°C~55°C
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

端子类型 Terminals

◆ 输入端 Input side:

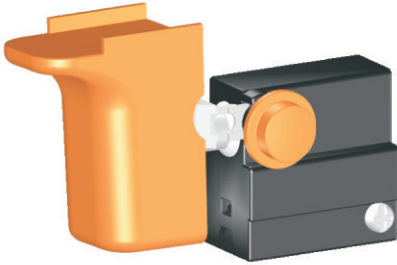
- 接线柱端子 Pillar terminals $\phi=3\text{mm}$
- 插入式端子 可插入沾锡导线, 带插片端子导线或铜包头导线
- Push-in terminals for soldered strands, strands with end sleeve

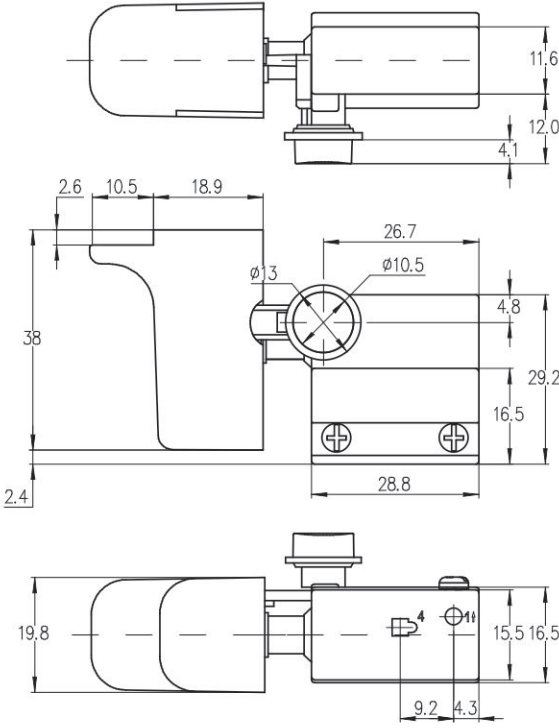
◆ 输出端 Output side:

- 插入式端子 可插入沾锡导线, 带插片端子导线或铜包头导线
- Push-in terminals for soldered strands, strands with end sleeve or strands with end claws

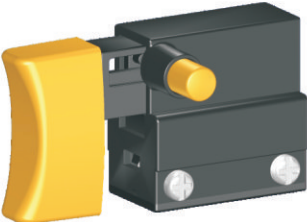
型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058 	EN61058 	GB15092 	K61058 
TS 06	最小 / min.	6(6)A 125V~ 5E4 / 9A 36Vd.c 1E4	4(4)A 250V~ 5E4 / 9A 36Vd.c 1E4	6(6)A 250V~ 5E4	
	最大 / max.	16(16)A 127V~ 5E4 / 18A 36Vd.c 1E4	8(8)A 250V~ 5E4 / 18A 36Vd.c 1E4	8(8)A 250V~ 5E4	8(8)A 250V~ 5E4

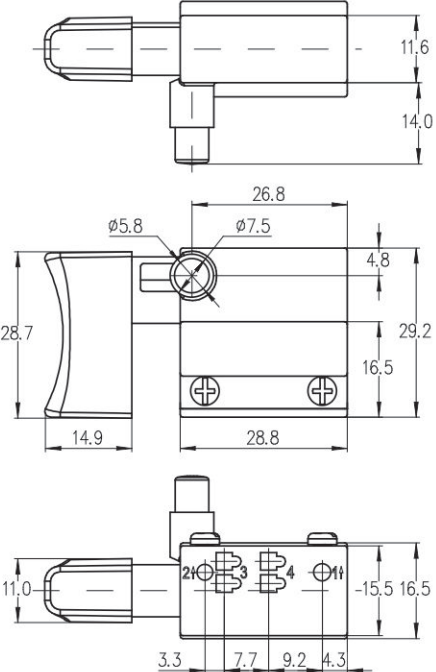
TS06-A1208DN-A1-B2





TS06-A23L13DN-A35-B22

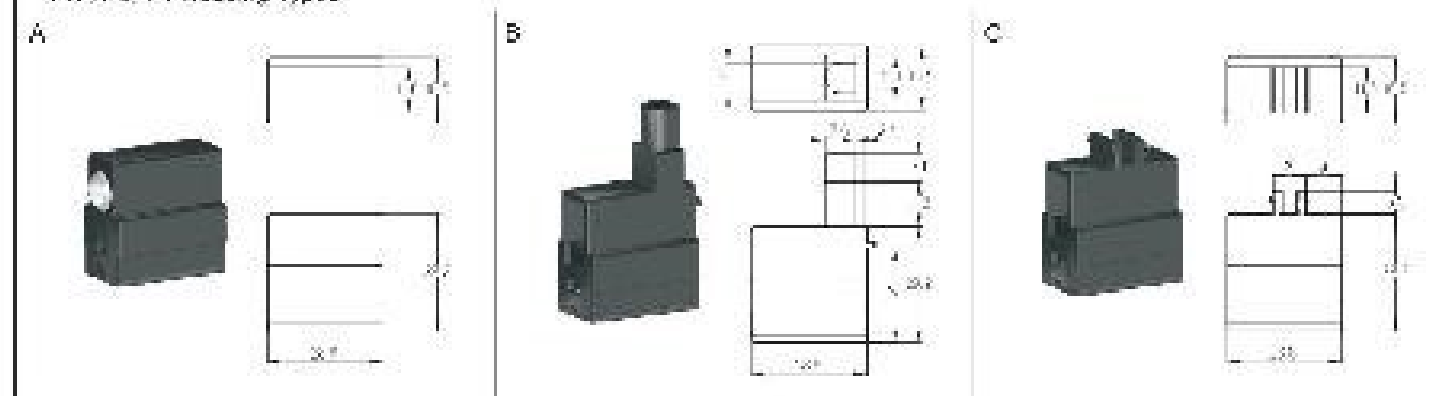




订货信息 Ordering Information

S 06 - A 12 13 B - 012 - R1
I I II IV V V

外形类型 / Housing Types



功能和端子类型 / Function and Terminal Types

11 单极常开 (SPNO)	12 单极常闭 (SPNC)	21 双极常开 (DPNO)
13 单极常开 (SPNO)	23 双极常开 (DPNO)	23L 双极常开 (DPNO)

电气参数 / Electrical Ratings

06	06	10	13	15	16
6(5)A 250V~ 5E4 12A 30Vdc 5E4	8(8)A 250V~ 5E4 16A 30Vdc 5E4	6(6)A 250V~ 5F4 10(10)A 125V~ 5E4 10(10)A 127V~ 5F4 12A 30Vdc 5E4	6(6)A 250V~ 5F4 10(10)A 125V~ 5E4 10(10)A 127V~ 5F4 10A 30Vdc 5E4	10(10)A 250V~ 5F4 10(10)A 125V~ 5E4 15(15)A 127V~ 5F4 10A 30Vdc 5E4	12(12)A 250V~ 5F4 10(10)A 125V~ 5E4 15(15)A 127V~ 5F4 10A 30Vdc 5E4

锁止类型 / Lock Types

W	B	BN	D	DN
A.无锁 No Lock	锁合锁止 Lock on 常开锁止 Lock on Type	锁合锁止 Lock on 常开锁止 Lock on Type	锁开锁止 Lock off 常闭锁止 Lock off Type	锁开锁止 Lock off 常闭锁止 Lock off Type

V 扳机 / Triggers (只适合于FA2-8D外形 / For Housing FA2-8D only)

A1	A2	A3	A5
A6	A8	A12	A13
A14	A19	A20	A21
A23	A24	A28	A33
A34	A35		

V: 扳机 / Triggers			
A1X	A2X	A3X	

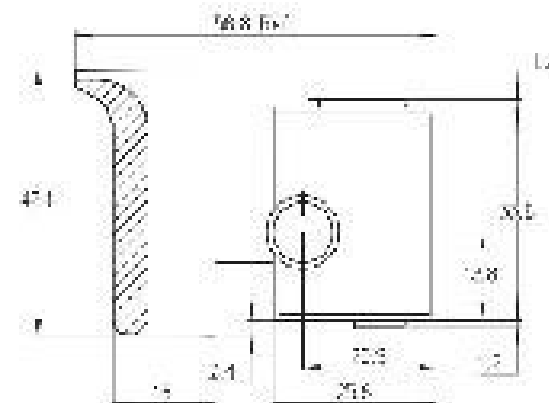
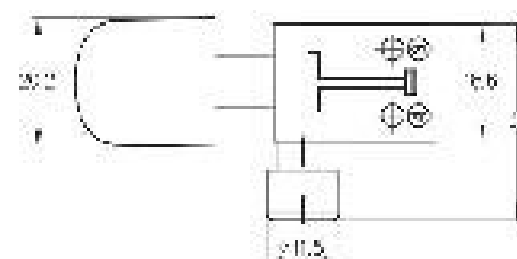
V: 锁钮 / Lock Buttons			
B1	B2	B3	B4
B5	B6	B7	B8
B9	B10	B11	B12
B13	B14	B15	B16
B17	B18	B19	B20
B21	B22	B23	B24

VI: 锁钮 / Lock Buttons			
B1X			

VI: 锁钮 / Lock Buttons			
B1Y	B2Y	B3Y	

19 07 扳机开关 Trigger Switch

TS07-A21163-A1-B4



产品描述 Product description

[illegible]

- **TS-01** series are one general type trigger switch with snap action structure, optional integrated cutproof design, for used in power tools and gardening tools such as Electric Mixers, Circular Saws, Jig Saws, Pushers, Gil mix, Electric Electric Rotary hammer, Demolition Hammer, Wre saws, Cut off Machines, Electric Chain Saws, Electric Lawnmowers, etc.

特征 Features

◆ 可決雨以下 幾度まで Optional with following lock types:

- 无限是 No limit
- 闭合区间 Close on
- 开区间是 Look left

● 非流动资产与流动资产的比例

Optional with following function or accessories:

→ 2000年10月

● 没有开始创业

一、一級科升，到一校完因

One Day Outside Open, his other recently closed

→ 環境技術 1999年10月号掲載

技术规格 Technical data

- | | |
|--|----------|
| → 额定耐久寿命 (Rated life) | 30000h |
| → 额定耐久寿命 (Rated life) | 30000h |
| → 最大开口电流 (Max. inrush current at 100V) | 90A |
| → 最大开口电流 (Max. inrush current at 120V) | 120A |
| → 接触电阻 (Contact resistance) | ≤100 mΩ |
| → 绝缘电阻 (Insulation resistance) | ≥20M Ohm |
| → 过水电压耐受 (Dielectric strength at 100°C) | 1500V |
| → 过电压电压耐受 (Dielectric strength at 100°C, induced) | 3000V |
| → 环境温度 (Ambient temperature) | 0°C~45°C |
| → 相对湿度 (Humidity) | UL 87V-0 |
| → 防火等级 (Protection type) | IP40 |
| → 适用于下列器具器具 (Suitable for appliances of protection class II) | |

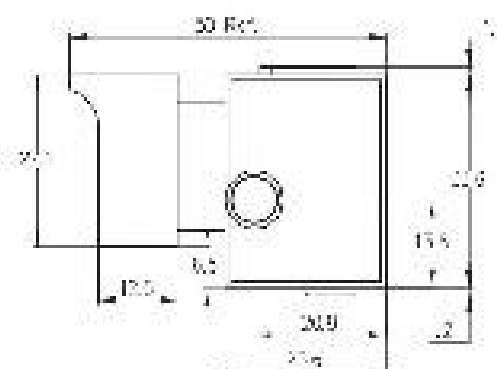
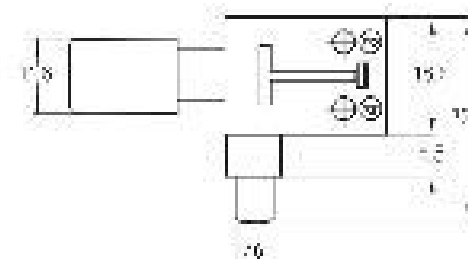
科学出版社 Terrina 等

- ◆ 输入式样：南 m:n 的九九乘法表
- 一 输出样例：

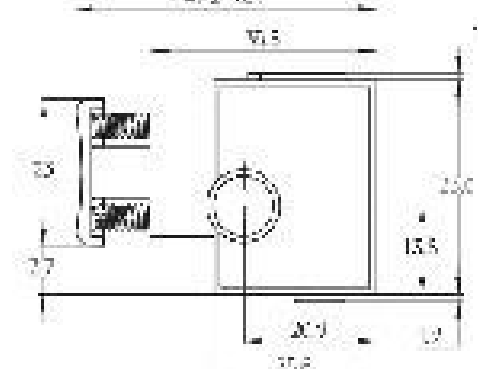
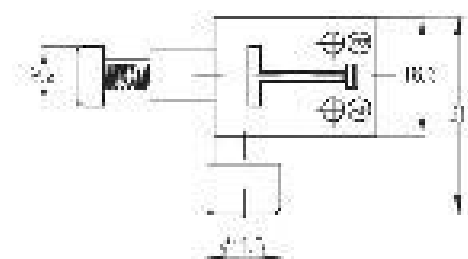

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1 1 2 3 4 5 6 7 8 9
1 2 4 6 8 10 12 14 16 18
1 3 6 9 12 15 18 21 24 27
1 4 8 12 16 20 24 28 32 36
1 5 10 15 20 25 30 35 40 45
1 6 12 18 24 30 36 42 48 54
1 7 14 21 28 35 42 49 56 63
1 8 16 24 32 40 48 56 64 72
1 9 18 27 36 45 54 63 72 81
      
```

TS07-A2116E-A3-E8



TS07-A2116D-A9-31



品名 Model	范围 Range	符合标准 / Standard and Approvals		
		UL1008E 	F90-07F 	GR1000 
TE-07	最小 / min.	12 (13A 120V-5F0 / 13A 380V-0.5F0)	A8(4250V-5F0 / 13(13A 120V-5F0 / 13A 380V-0.5F0)	10(10A 250V-5F0)
	最大 / max.	20(20A 250V-5L1 / 25A 0Vvd-5L1)	13(10A 250V-0B4 / 20(20A 120V-0B4 / 20A 0Vvd-0B4)	15(15A 250V-5L1)

订货信息 Ordering Information:

TS 07 - A 21 16 B - A3 - B8
I II III IV V VI

I : 主体类型 / Body Types	
A	B

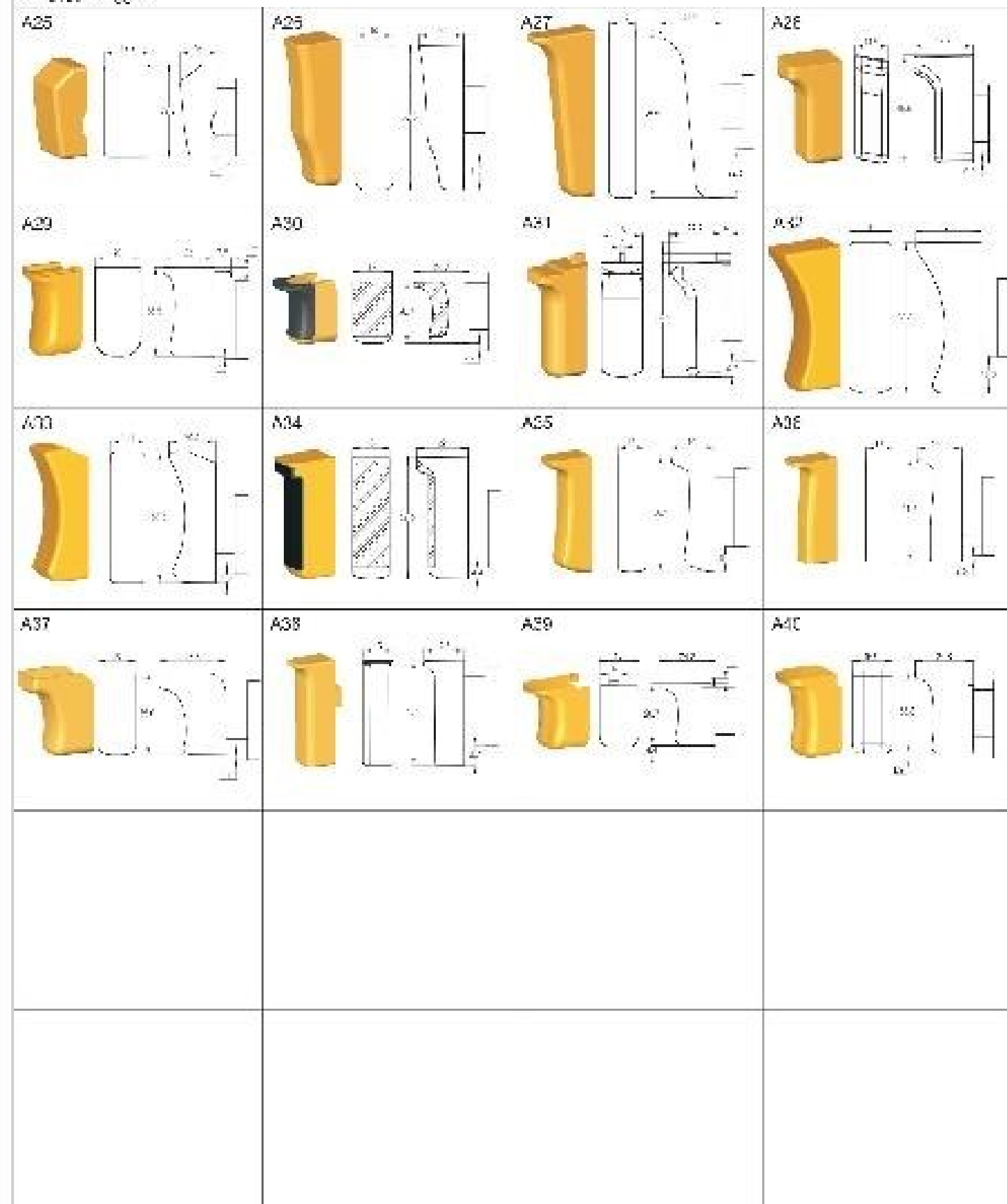
II : 功能类型 / Function Types					
21	11	23			

III : 电气参数 / Electrical Ratings					
13	15	16	18	20	25

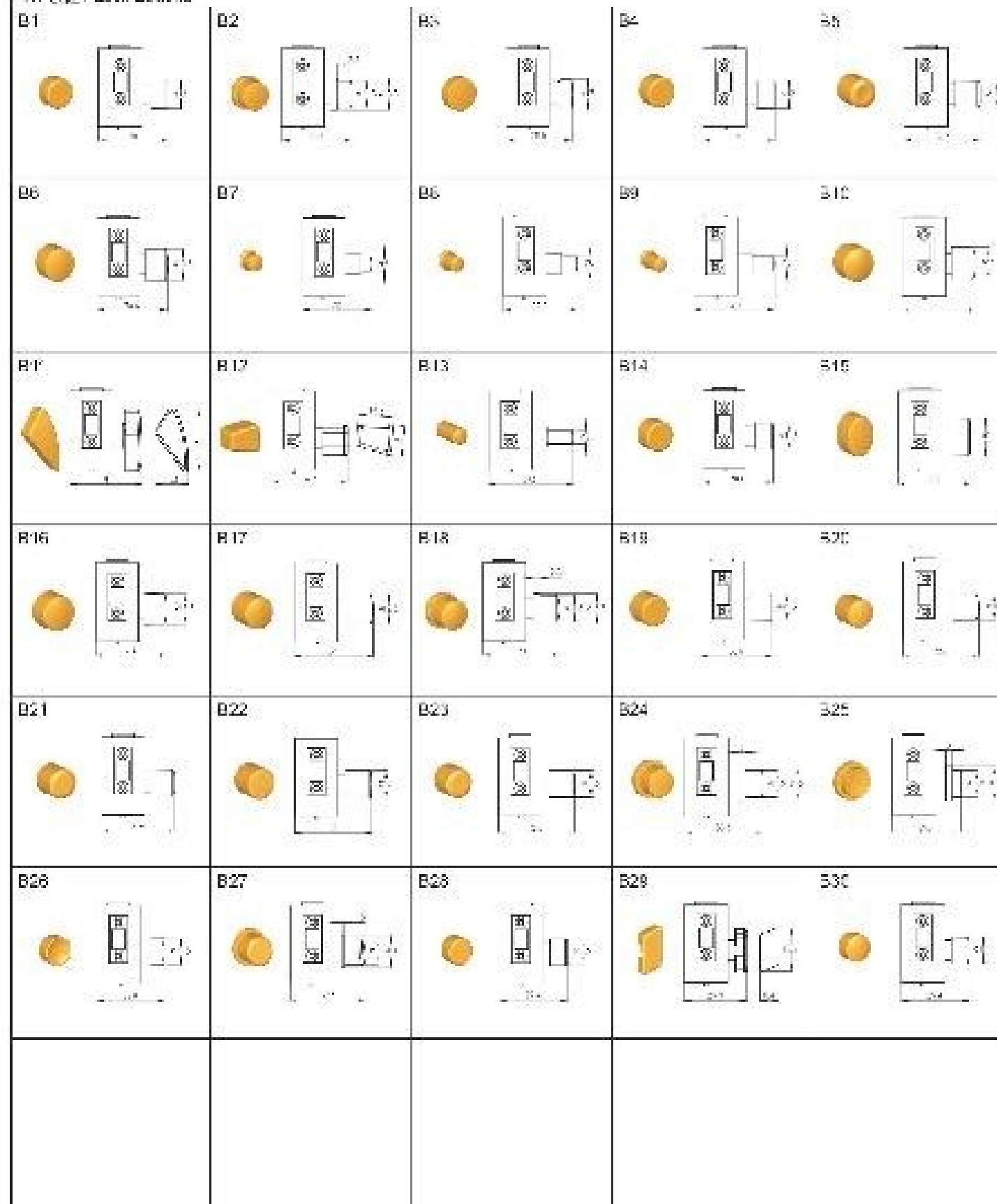
IV : 锁定类型 / Lock Types		
W	B	D

V : 扳机 / Triggers			
A1	A2	A3	A4
A5	A6	A7	A8
A9	A10	A11	A12
A13	A14	A15	A16
A17	A18	A19	A20
A21	A22	A23	A24

V: 扳机 / Triggers

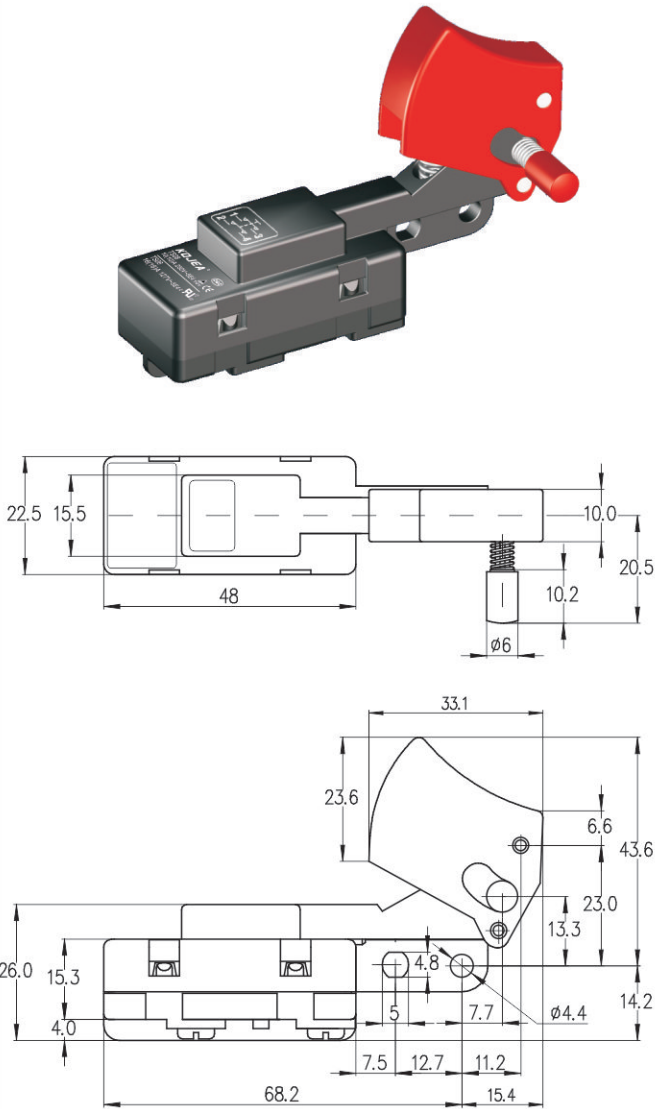


W: 锁钮 / Lock Buttons



TS 08 扳机开关 Trigger Switch

TS08-2116B-A-A1-B12



产品描述 Product description

◆ TS 08 系列是一款通用性的大电流扳机开关,集成防尘功能,内部为快速动作结构,适合大功率的台式和手持式电动工具以及园林工具,如:型材切割机,斜切锯(介铝机),150,180和230大角磨,抛光机,电圆锯,电锤,电镐等,电链锯等。

◆ TS 08 series are general type high rated trigger switches, integrated dustproof, with snap-action structure, for used in high rated bench-top, portable power-tools and gardening tools such as Cut-off Machines, Miter Saws, 150mm, 180mm and 230mm Large Angle Grinders, Polishers, Circular Saws, Rotary Hammers, Demolition Hammers, Electric Chain Saws, etc.

特征 Features

- ◆ 可选带以下 功能 Optional with following function:
 - 双极常开 Double Pole Normally Open (DPNO)
 - 一极常开,另一极常闭 One Pole Normally Open, the other Normally Close
 - 单极双掷(常闭常开)(用极间连接片实现) Single Pole Double Throw (SPDT)(with pole joint)
- ◆ 可选带以下 附件 Optional with following accessories:
 - 带软胶扳机 Trigger covered with rubber (Overmolding)
 - 刹车连接片 Connection Piece for brake
- ◆ 可选带以下 锁定类型 Optional with following lock types:
 - 无锁 No Lock
 - 闭合锁定 Lock-on
 - 断开锁定 Lock-off
 - 断开锁定带闭合锁定 Lock-off with lock-on
- ◆ 有部分外壳结构断开锁定抗压力≥300N
Some shell for lock-off, the resistibility of lock-off≥300N

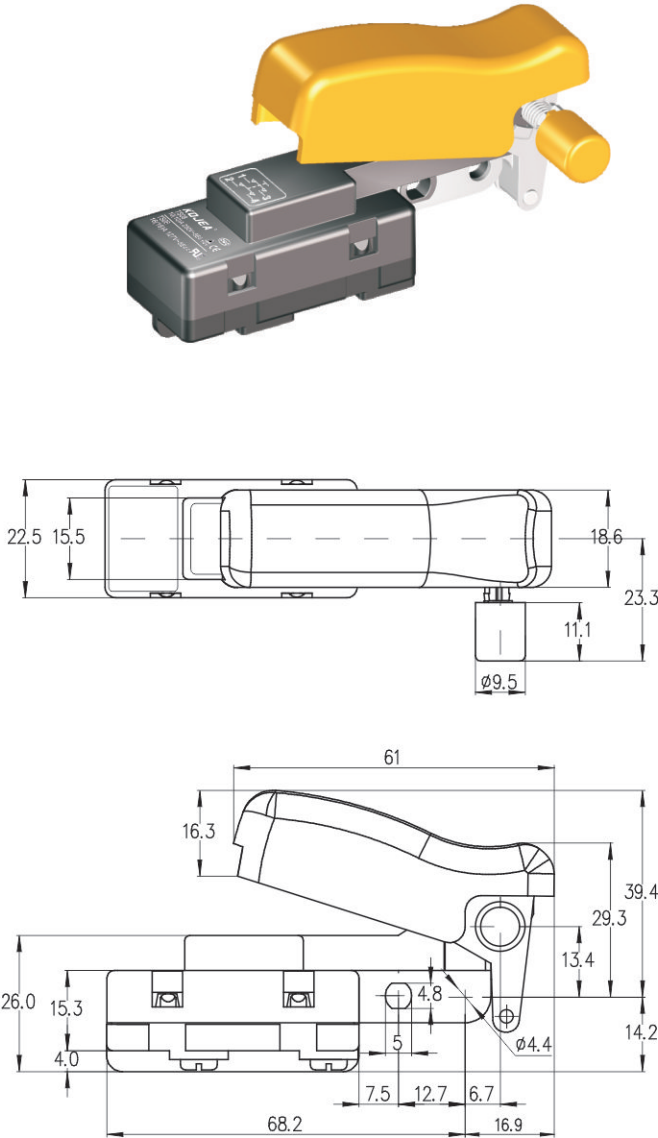
技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance ≥1E5
- 电气耐久寿命 Electrical life endurance ≥5E4
- 最大冲击电流 Max.Inrush current at 250V 90A
- 最大冲击电流 Max.Inrush current at 127V 132A
- 接触电阻 Contact resistance ≤30m Ohm
- 绝缘电阻 Insulation resistance ≥7M Ohm
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature 0℃~55℃
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

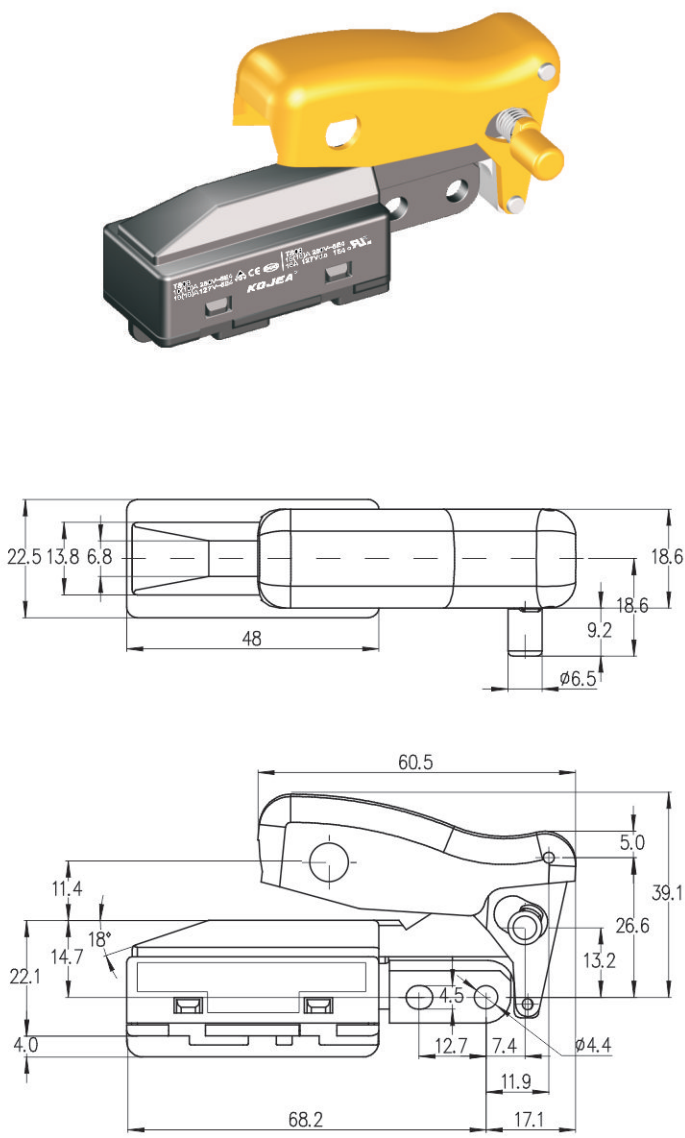
端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 4×螺钉端子 Screw terminals M4
- ★ 本产品荣获多项实用新型专利
- ★ Utility Models patented

TS08-2116DB-A-A17-B25



TS08-2122D-B-A21K-B24



型号 Model	范围 Range	标准及认证 / Standard and Approvals				
		UL61058 	EN61058 	GB15092 	K61058 	
TS 08	最小 / min.	16(16)A 127V~ 5E4 / 16A 60Vd.c 5E4	10(10)A 250V~ 5E4 / 16A 60Vd.c 5E4	10(10)A 250V~ 5E4		
	最大 / max.	22(22)A 127V~ 5E4 / 30A 60Vd.c 5E4	15(15)A 250V~ 5E4 / 30A 60Vd.c 5E4	15(15)A 250V~ 5E4	13(13)A 250V~ 5E4	

订货信息 Ordering Information

TS 08 - 21 16 08 - 3 - A2B - B02

I: 功能类型 / Function Types

21	11	11X	11-01 防尘 / IP67 Dustproof / IP67 for Internal part 2
双极常开 DPNO	11-01 开, 2-2-NO 11-NO 2-2-NO	11-01 开, 2-2-NO 11-NO 2-2-NO	

I: 功能类型 / Function Types

21	11	11X	11-01 防尘 / IP67 Dustproof / IP67 for Internal part 4
双极常开 DPNO	11-01 开, 2-4-NO 11-NO 2-4-NO	11-01 开, 2-4-NO 11-NO 2-4-NO	

II: 电气参数-额定5F4耐久次数 / Electrical Ratings - 5F4 Life time for DC rating

18	19	20	22	25	30
10/10A/250V~ 5E4 5/16A/127V~ 5F4 18A/127Vdc 5E4 18A/42Vdc 5F4 18A/60Vdc 5E4	12/12A/250V~ 5E4 5/16A/127V~ 5E4 18A/127Vdc 5E4 18A/42Vdc 5F4 18A/60Vdc 5F4	14/14A/250V~ 5E4 20/20A/127V~ 5E4 20A/127Vdc 5E4 20A/42Vdc 5F4 20A/60Vdc 5F4	18/18A/250V~ 5E4 22/22A/127V~ 5E4 22A/127Vdc 5E4 22A/42Vdc 5F4 22A/60Vdc 5F4	25A/42Vdc 5F4 25A/60Vdc 5E4	30A/42Vdc 5F4 30A/60Vdc 5E4
0 for 250V only	12 for 250V only	4 for 250V only	5 for 250V only		

II: 电气参数-额定1E4耐久次数 / Electrical Ratings - 1E4 Life time for DC rating

18S	19S	20S	22S	25S	30S
10/10A/250V~ 5E4 5/16A/127V~ 5F4 18A/127Vdc 1E4 18A/42Vdc 1E4 18A/60Vdc 1E4	12/12A/250V~ 5E4 5/16A/127V~ 5E4 18A/127Vdc 1E4 18A/42Vdc 1E4 18A/60Vdc 1E4	14/14A/250V~ 5E4 20/20A/127V~ 5E4 20A/127Vdc 1E4 20A/42Vdc 1E4 20A/60Vdc 1E4	18/18A/250V~ 5E4 22/22A/127V~ 5E4 22A/127Vdc 1E4 22A/42Vdc 1E4 22A/60Vdc 1E4	25A/42Vdc 1E4 25A/60Vdc 1E4	30A/42Vdc 1E4 30A/60Vdc 1E4
10 for 250V only	12 for 250V only	4 for 250V only	5 for 250V only		

I: 锁定类型 / Lock Types

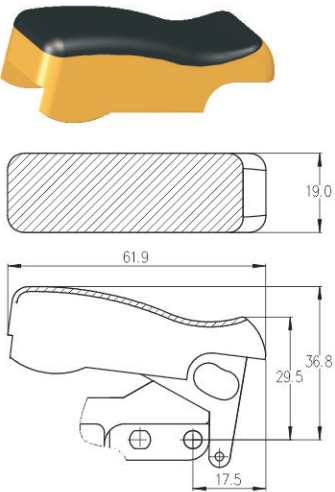
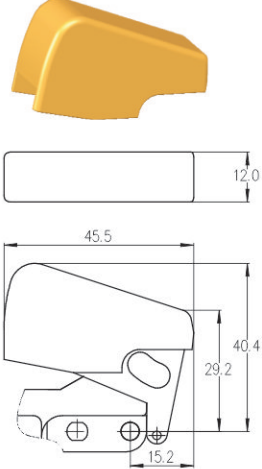
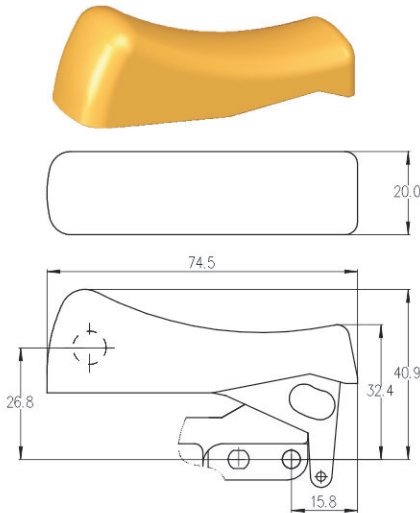
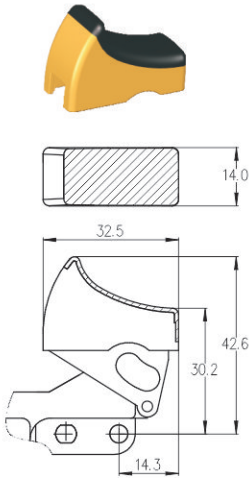
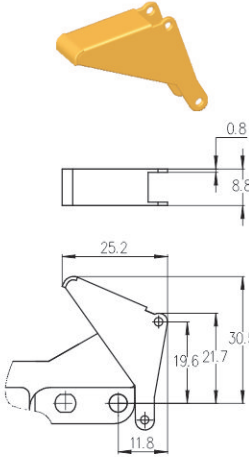
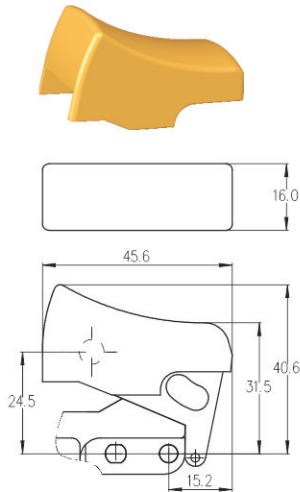
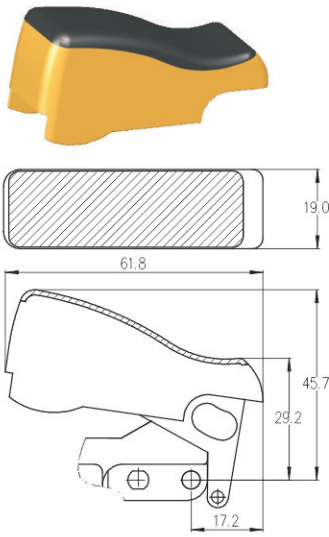
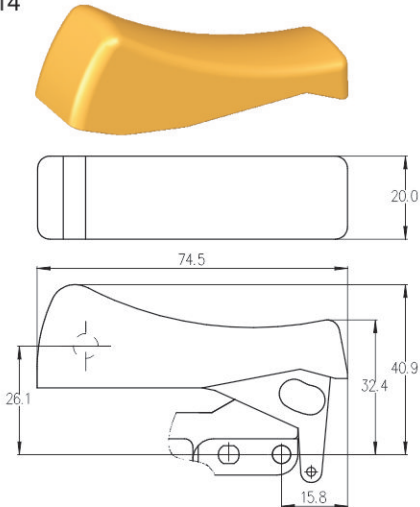
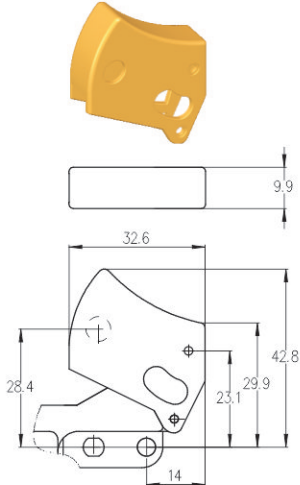
W	B	D	DB
无锁定 No Lock	闭锁锁定 Lock-off	扣开锁定 Lock-on	扣开锁定无闭锁切换 Lock-off with Lock-on

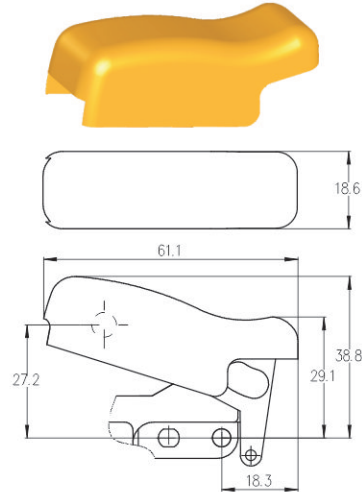
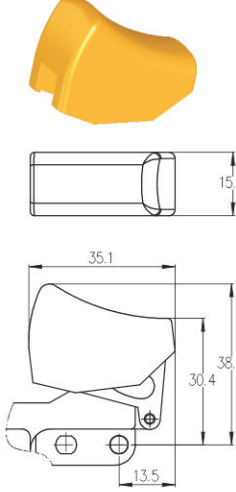
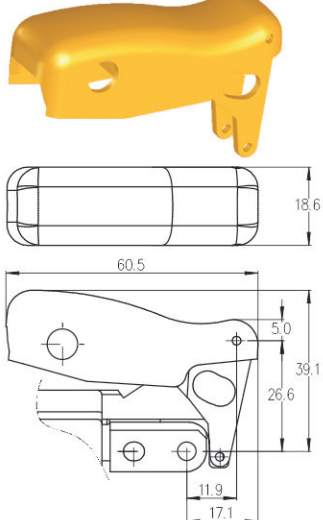
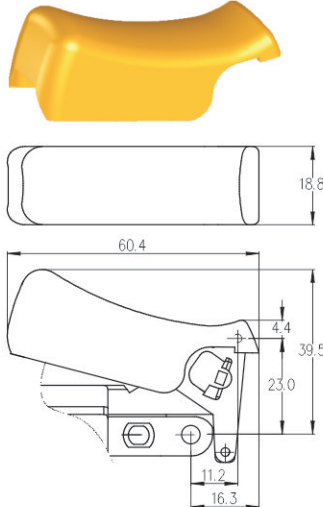
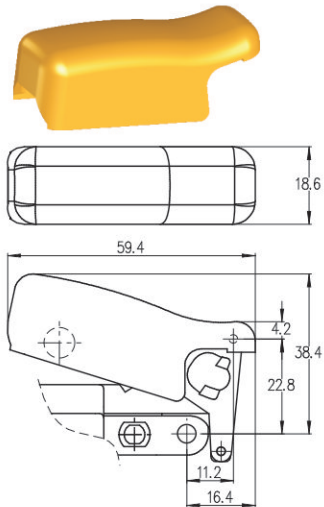
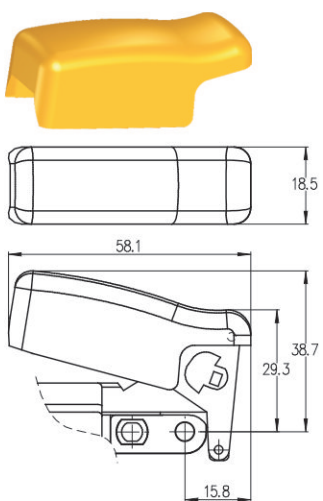
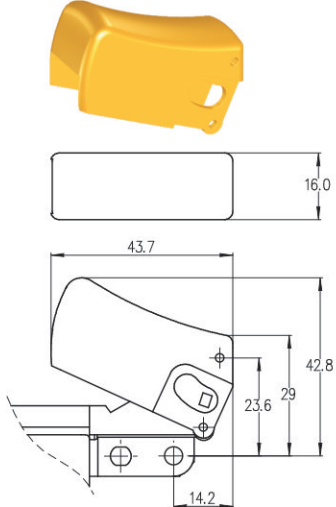
VI: 主体类型 / Body Types

A	B	C
		快速动作 / 0.05s Snap action 0.05s

V: 扳机 / Triggers

A1	A2	A3
A4	A5	A6

V : 扳机 / Triggers		
A7 	A8 	A9 
A10 	A11 	A12 
A13 	A14 	A15 

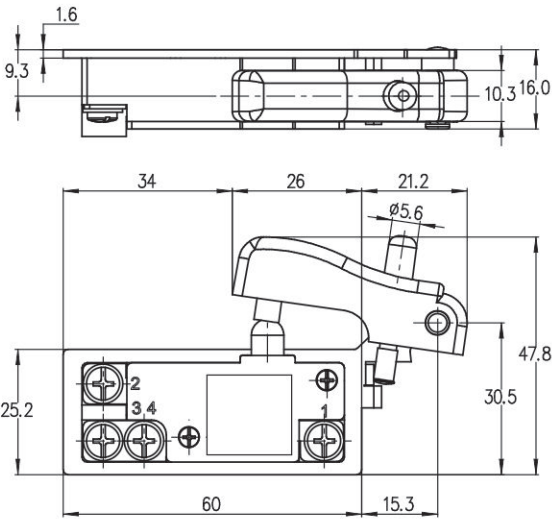
V : 扳机 / Triggers		
A17 	A20 	A21K 
A24 	A25 A25K(with lock hole) 	A26 
A27 		

VI 扳机 / Triggers		
A17	A20	A21K
A24	A25 A25K(with lock hole)	A26
A27		

VII 按钮 / Lock Buttons			
B7	B8	B9	B11
B12	B13	B14	B15
B16	B17	B18	B19
B20	B21	B22	B23
B24	B25	B26	
VIII 按钮 / Gaps of lock button			
SM1	SM2	SM3	SM4
SM5	SM6	SM7	

TS 09 扳机开关 Trigger Switch

TS09-1110B-A8-B4



产品描述 Product description

- ◆ TS 09 系列是一款通用性的扳机开关, 集成防尘功能, 内部为快速动作结构, 适合一般功率的电动工具, 如: 型材切割机, 斜切锯 (介铝机), 125和150大角磨, 中型电锤, 中型电镐等。
- ◆ TS 09 series are one general type trigger switch, integrated dustproof, with snap-action structure, for used in portable or bench top power-tools such as Cut-off Machines, Miter Saws, 125mm and 150mm Angle Grinders, Rotary Hammers, Demolition Hammers, etc.

特征 Features

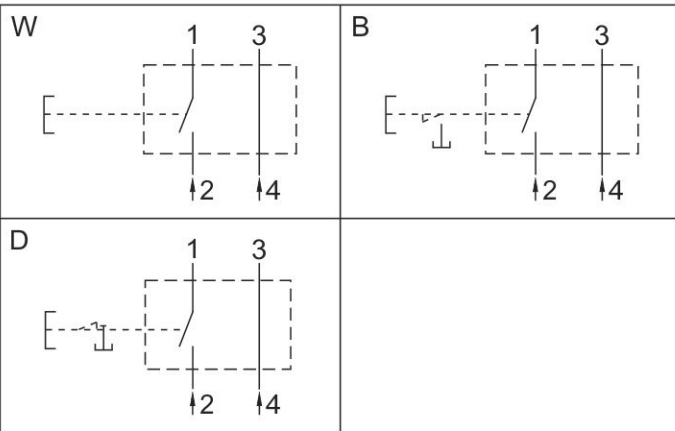
- ◆ 有多种支架和扳机可选
Optional with different supports and triggers
- ◆ 可选带以下 锁定类型 Optional with following lock types:
 - 无锁 No Lock
 - 闭合锁定 Lock-on
 - 断开锁定 Lock-off

技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 5E4$
- 最大冲击电流 Max.Inrush current at 250V 60A
- 最大冲击电流 Max.Inrush current at 125V 90A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C\sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

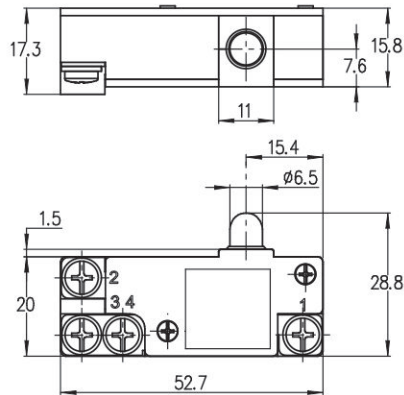
端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
- 螺钉端子 Screw terminals M4

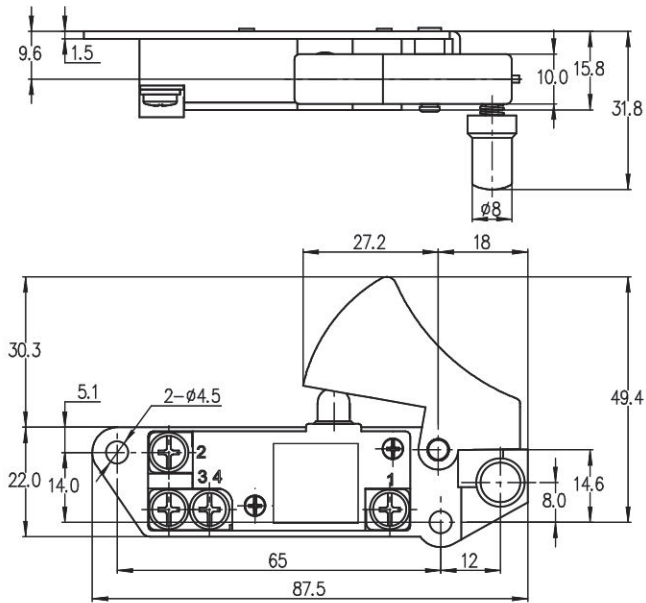
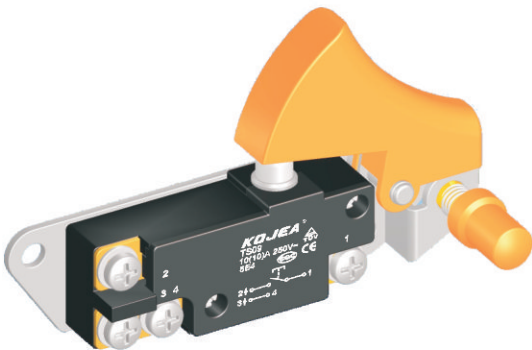


型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL1054	EN61058	GB15092	K61058
TS 09	最大 / max.	20A 125VAC	10(10)A 250V~ 5E4	10(10)A 250V~ 5E4	10(10)A 250V~ 5E4
	最大 / max.				10(10)A 250V~ /15(15)A125V~

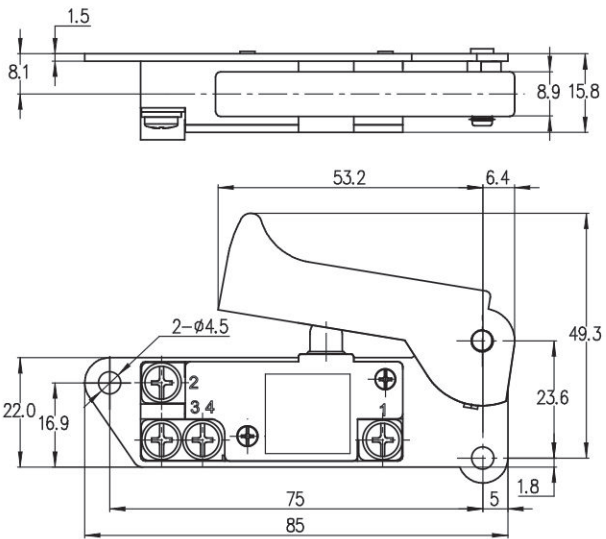
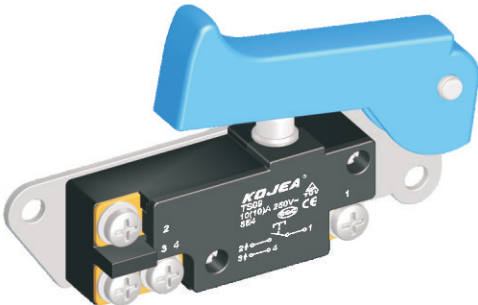
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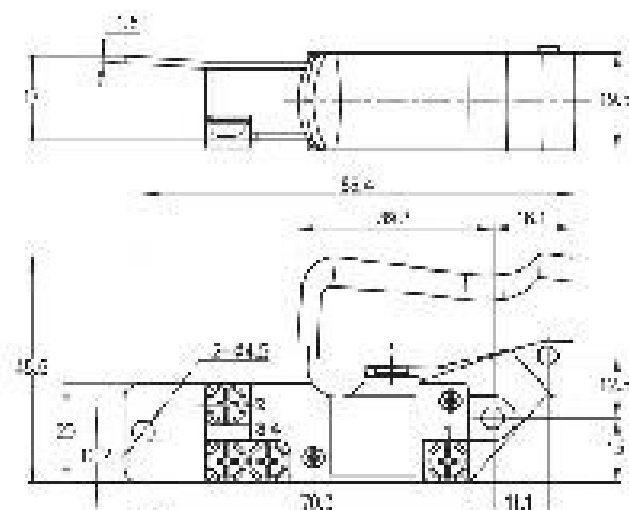
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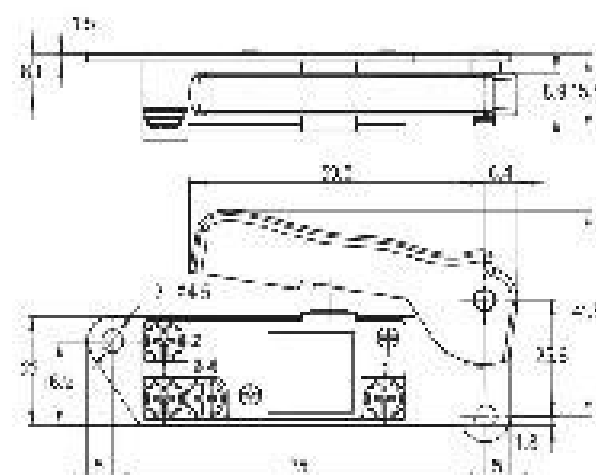
TS09-1110W-A2



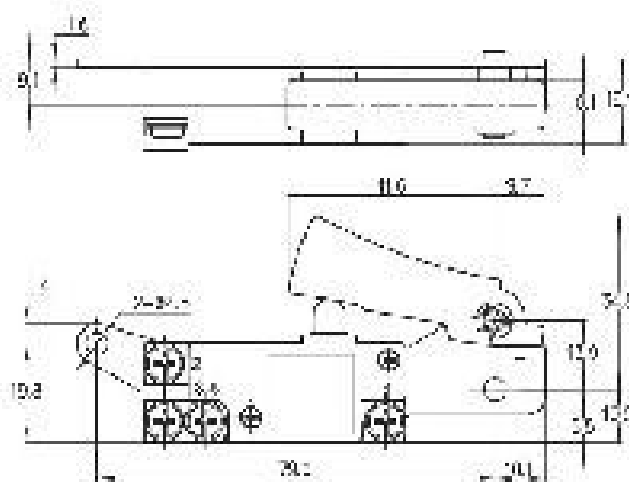
TS09-1110B-A3



TS09-1110W-A4



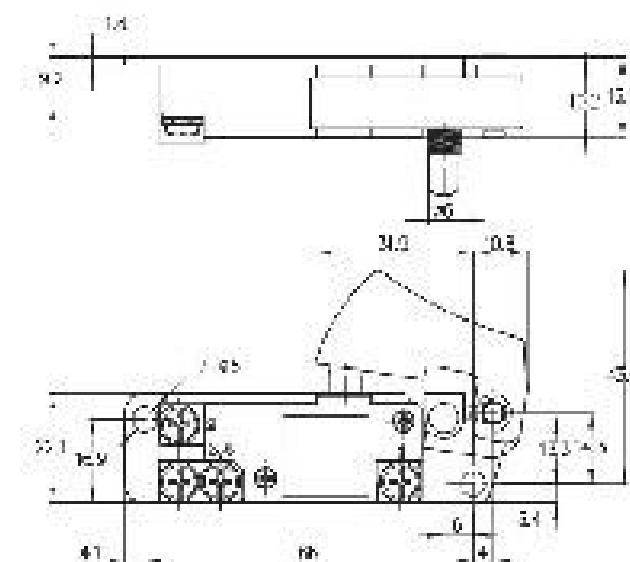
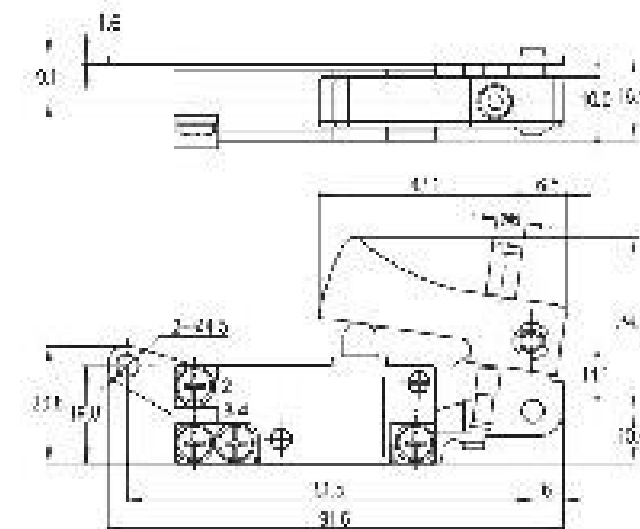
TS09-1110W-A5



TS09-1110B-A6-B3

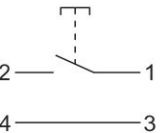
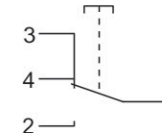


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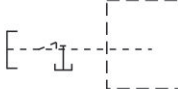


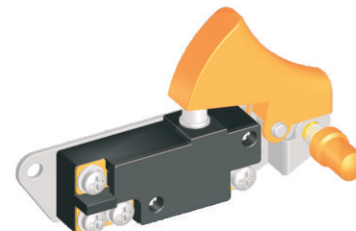
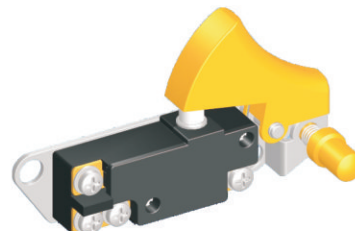
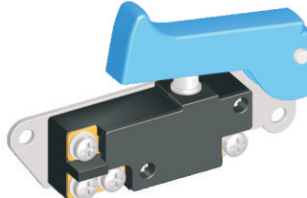
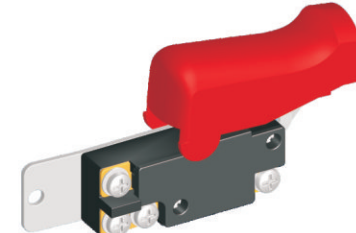
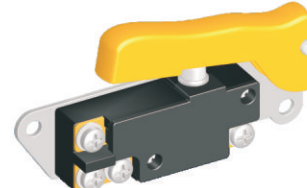
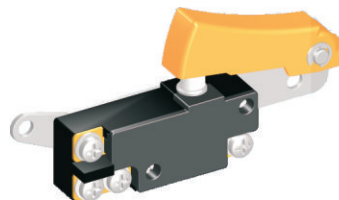
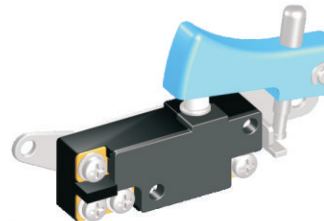
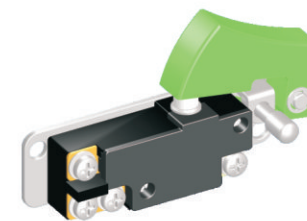
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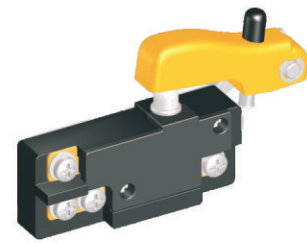
TS 09 - 11 10 B - A8 - B4 SM2
I II III IV V V

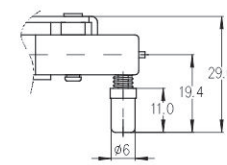
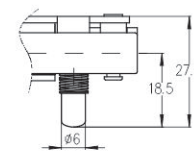
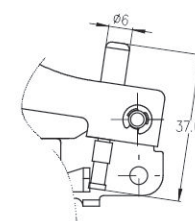
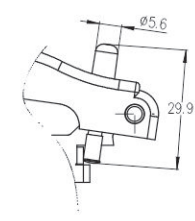
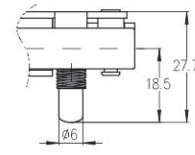
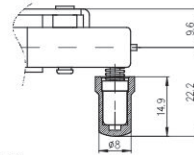
I: 功能类型 / Function Types		
11  单极常开 SPNO	12  单极双掷 SPDT	

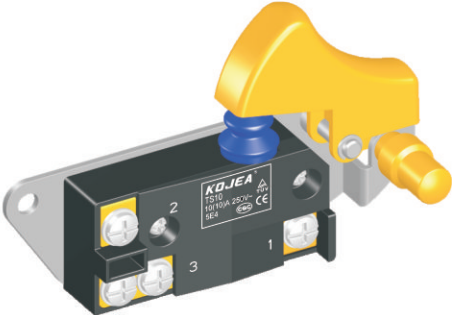
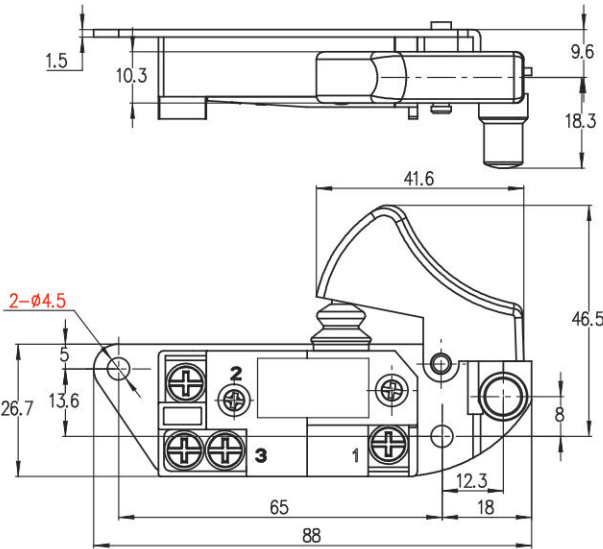
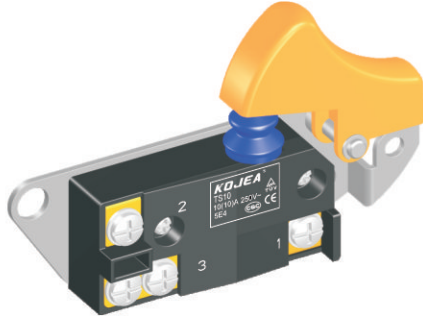
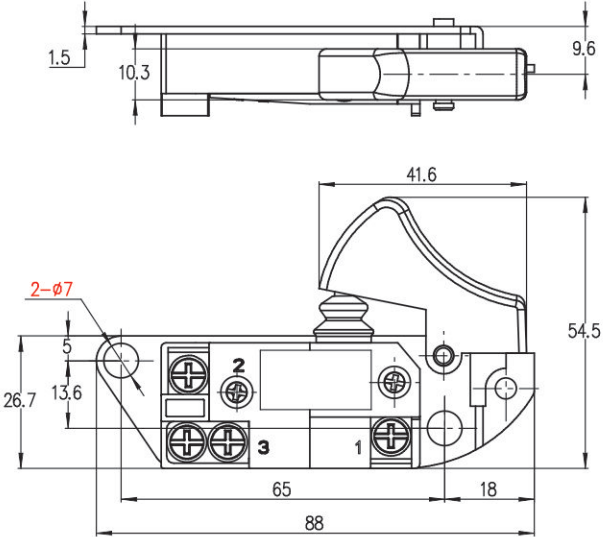
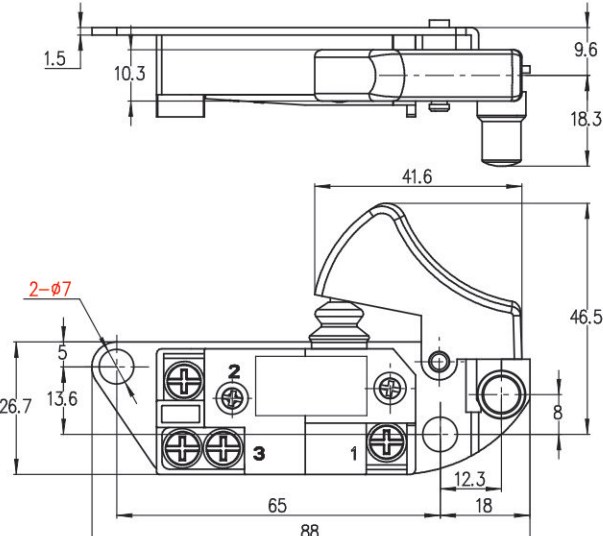
II: 电气参数 / Electrical Ratings	
10 10(10)A 250V~ 5E4 20A 125VAC	

III: 锁定类型 / Lock Types					
W  无锁定 No Lock	B  闭合锁定 Lock-on	D  断开锁定 Lock-off			

IV: 扳机及配套铁架类型 / Trigger and Support Types		
A0  锁定类型 lock type: W	A1  可选锁定类型 Optional lock type: W, B, D	A1B  可选锁定类型 Optional lock type: W, B, D
A2  锁定类型 locktype: W	A3  锁定类型 lock type: W	A4  锁定类型 locktype: W
A5  锁定类型 locktype: W	A6  可选锁定类型 Optional locktype: W, B	A7  可选锁定类型 Optional lock type: W, B

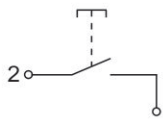
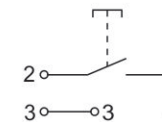
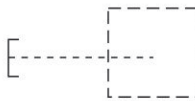
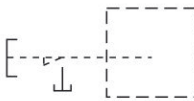
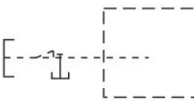
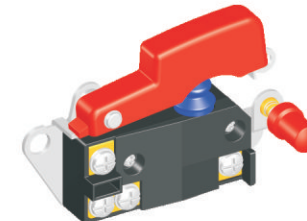
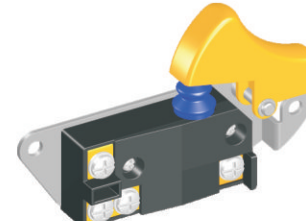
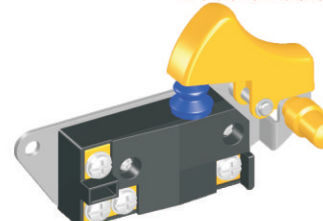
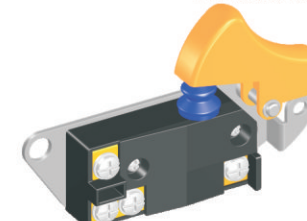
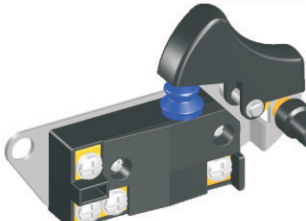
IV: 扳机及配套铁架类型 / Trigger and Support Types		
A8  可选锁定类型 Optional locktype: W, B		

V: 锁钮和锁帽 / Lock buttons and Caps of Lock button			
B1  	B2  	B3  	B4  
B5  	SM1   只适用于锁钮: B1 For lock button: B1	SM2	

TS10-2112D-A2 	
TS10-2112W-A2K 	
TS10-2112B-A2K 	

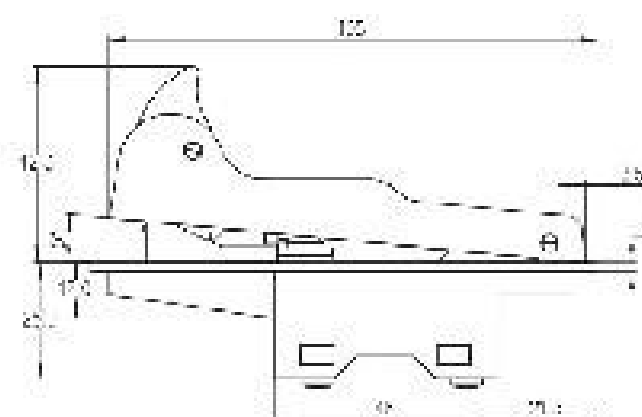
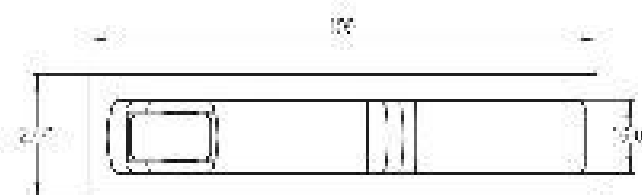
订货信息 Ordering Information:

TS 10 - 21 12 B - A1
I II III IV

I : 功能类型 / Function Types					
11  单极常开 SPNO	21  单极常开 SPNO				
II : 电气参数 / Electrical Ratings					
10 10(10)A 250V~ 5E4 16(16)A 127V~ 5E4 16A 42Vd.c 5E4	12 12(12)A 250V~ 5E4 18(18)A 127V~ 5E4 18A 42Vd.c 5E4	15 15(15)A 250V~ 5E4 20(20)A 127V~ 5E4 20A 42Vd.c 5E4			
III : 锁定类型 / Lock Types					
W  无锁定 No Lock	B  闭合锁定 Lock-on	D  断开锁定 Lock-off			
IV : 扳机及配套铁架类型 / Trigger and Support Types					
A0  锁定类型 Lock type:W	A1  可选锁定 类型 Optional lock type: W, B 定位孔 $\phi=6.5\text{mm}$ The dia. of hole is 6.5mm	A2  锁定类型 Lock type:W 定位孔 $\phi=4.5\text{mm}$ The dia. of hole is 4.5mm			
A2  可选锁定 类型 Optional lock type: B, D 定位孔 $\phi=4.5\text{mm}$ The dia. of hole is 4.5mm	A2K  可选锁定 类型 Optional lock type: W 定位孔 $\phi=7\text{mm}$ The dia. of hole is 7mm	A2K  可选锁定 类型 Optional lock type: B, D 定位孔 $\phi=7\text{mm}$ The dia. of hole is 7mm			

TS 11 扳机开关 Trigger Switch

TS11-2118DB-A1



产品描述 Product description

◆ TS 11 系列是一款通用型的大电流扳机开关，集成防尘功能，内部为快速动作结构，适合大型机械化施工工具。4 型材料制成，额定电压有 16V、120V 和 250V 大电压，* 直流电，* 交流电，主触点和辅助触点均可定制。

◆ TS 11 series is a general type high-voltage trigger switch, integrated dustproof, with snap action structure, for used in high-voltage large type portable power tools such as Cut-off Machines, Miter Saws, 100mm and 200mm Large Angle Grinders, Heavy Rotary Hammers, Heavy Demolition Hammers, etc. The body and trigger accept customize according to customer's request.

特点 Features

◆ 可快拆及下锁类型 Optional with following lock types:

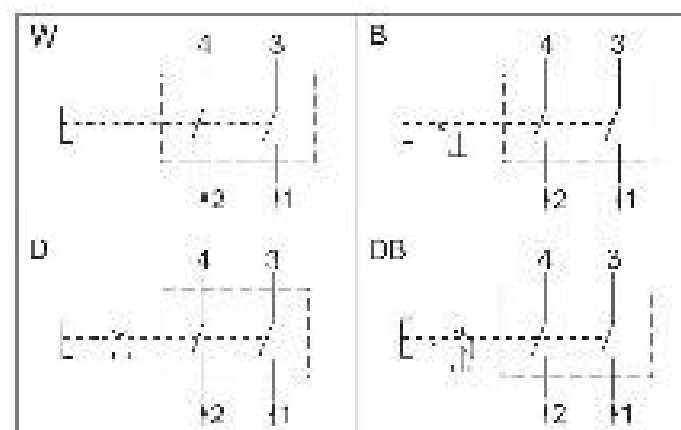
- 无锁定 No Lock
- 闭锁锁定 Lock on
- 松开锁定 Lock off
- 松开锁定带闭锁功能 Times off Lock Lock on

技术数据 Technical data

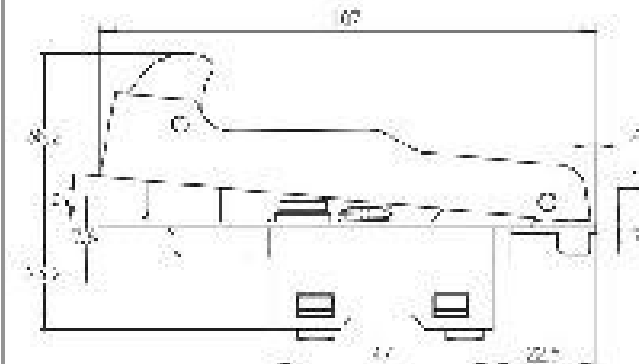
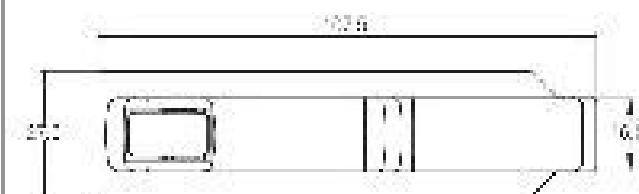
- 额定耐受电压 Rated voltage 16V max. 120V max.
- 额定耐受电压 Rated voltage 16V max. 120V max.
- 最大峰值电流 Max. Inrush current at 16V 120A
- 最大峰值电流 Max. Inrush current at 120V 144A
- 接触电阻 Contact resistance 0.030~0.04m
- 绝缘电阻 Insulation resistance 50M Ohm
- 绝缘介电强度 Dielectric strength at 1min 1500V
- 机械分断能力 Mechanical strength at 1min 3000W
- 环境温度 Ambient temperature 0°C~55°C
- 阻燃等级 Flame rating UL 94V-0
- 防护等级 Protection type IP40
- 符合于 II 类防护等级 II Class for application of protection class II

端子类型 Terminals

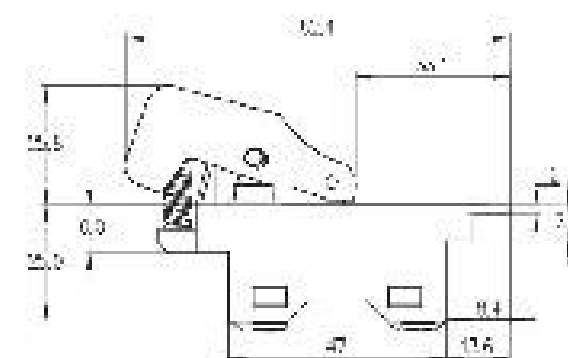
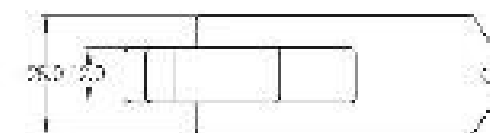
- ◆ 输入/输出端子 Input/Output type: 16mm
- 16 线端子 16 Pin terminal on mm



TS11-2118DB-A16

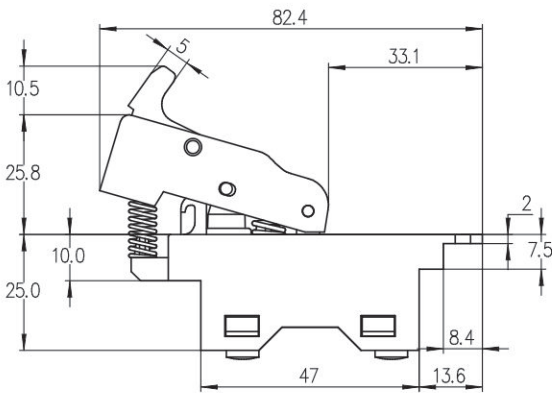
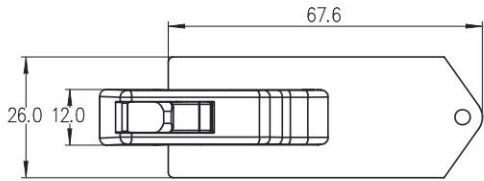


TS11-2116W-A3

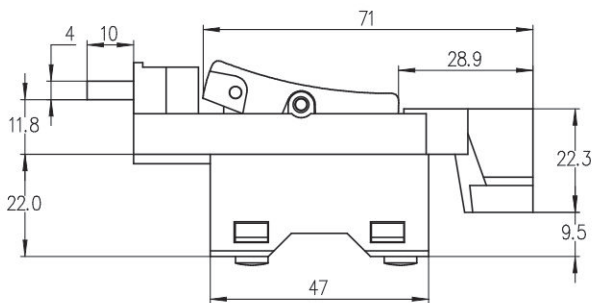
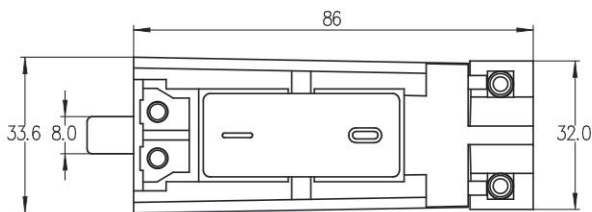
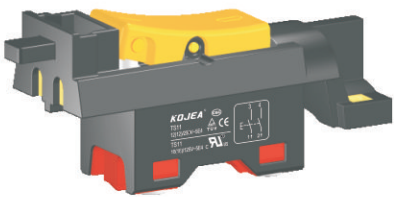


型号 Model	范围 Range	标准及认证 / Standards and Approvals			
		IEC 60529	EN61058	GB19832	KS1055
TS 11	最小 / min	16V/50A/220V~5P4/16A/50A/220V~5P4	16V/10A/250V~5P4/16A/50A/220V~5P4	16V/10A/250V~5P4	
	最大 / max	24/24V/125V~3E4/100A/60V~3E4	10V/50A/220V~5P4/100A/60V~3E4	16V/16A/250V~5E4	12A/250V~5E4

TS11-2116B-A5



TS11-2116W-A4



订货信息 Ordering Information:

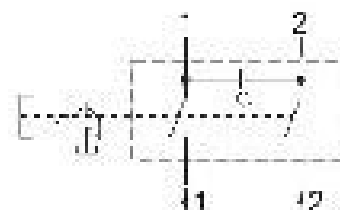
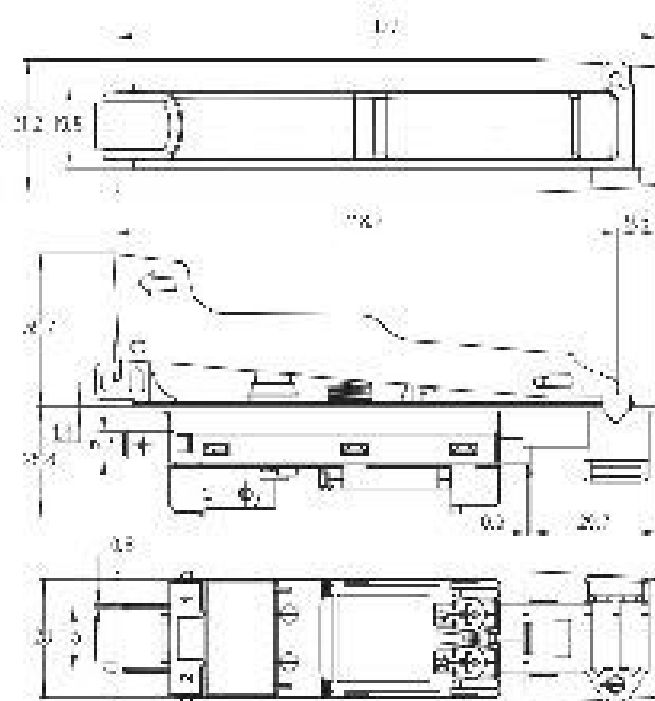
TS 11 - 21 18 DB - A11N
I II III

I : 电气参数 / Electrical Ratings					
10 or 16	12 or 18	14 or 20	15 or 22	18H or 24	30
10(10)A 250V~ 5E4 16(16)A 127V~ 5E4 16A 36Vd.c 5E4 16A 42Vd.c 5E4 16A 60Vd.c 5E4	12(12)A 250V~ 5E4 18(18)A 127V~ 5E4 18A 36Vd.c 5E4 18A 42Vd.c 5E4 18A 60Vd.c 5E4	14(14)A 250V~ 5E4 20(20)A 127V~ 5E4 20A 127Vd.c 5E4 20A 42Vd.c 5E4 20A 60Vd.c 5E4	15(15)A 250V~ 5E4 22(22)A 127V~ 5E4 22A 36Vd.c 5E4 22A 42Vd.c 5E4 22A 60Vd.c 5E4	18(18)A 250V~ 5E4 24(24)A 127V~ 5E4 24A 36Vd.c 5E4 24A 42Vd.c 5E4 24A 60Vd.c 5E4	30A 36Vd.c 5E4 30A 42Vd.c 5E4 30A 60Vd.c 5E4

II : 锁定类型 / Lock Types					
W	B	D	DB		
无锁定 No Lock	闭合锁定 Lock-on	断开锁定 Lock-off	断开锁定带闭合锁定 Lock-off with Lock-on		

III: 扳机和外壳类型 / Trigger and Shell Types					
A1B	A2	A3	A4	A5	A6
可选锁定类型 Optional lock type: B, D, DB	可选锁定类型 Optional lock type: W, B	锁定类型 Lock type: W	锁定类型 Lock type: W	锁定类型 Lock type: B	可选锁定类型 Optional lock type: B, D, DB

TS12-2118DB-A1-0138



- **TS 12** 系列是广泛应用于大型工业控制开关。集成防尘功能，内部为快速动作机构，适合大电流的电力工具。如：铝材切割机，切割机（功率在：150和230大瓦特），电焊机，电焊机等。主回路和辅助回路均可交流或直流运行。
- **TS 12** series are special type high rated trigger switches. They are dust-proof, with snap-action机构, for use in high rated branch tap or portable power tools such as Cut-off Machines, Mill Saws, 150mm and 230mm Taper Angle Grinders, Heavy Duty Motors, Heavy, thermistor Heaters, etc. The main and trigger accept customized according to customer's request.

- ◆ 可如种以下 功能 Optional with following function
 - 双极能开 Double side Normal Open (DO)
 - 单极能开 Single side Normal Open (DO)
- ◆ 可如种以下 键定类型 Optional with following keytypes
 - 无键 No key
 - 闭台键定 Lock on
 - 打开键定 Lock off
 - 打开键定带闭合的键 Lock on + Off Lock on
- ◆ 可如种以下 材料 Material In the parenthesis is the Material
 - 双极能开 (电导值由客户决定, 一般为 $0.22 \pm 0.02 \text{ A/mm}^2$)

Supplies separately (generally 0.22 or 0.35 A/mm²)

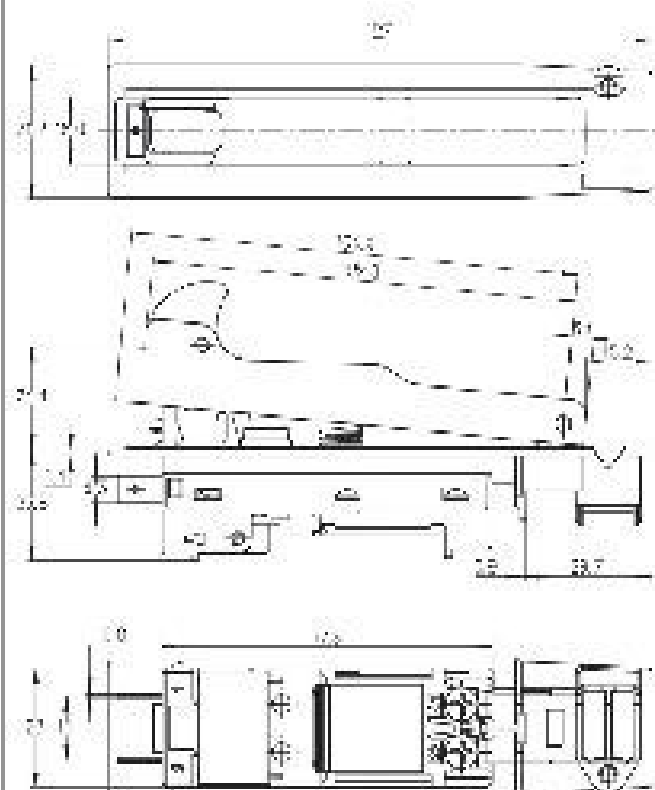
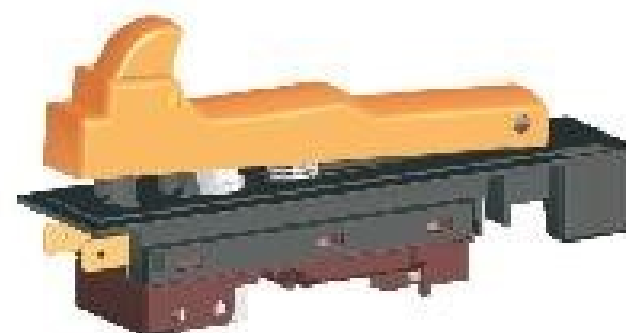
- 电导值由客户决定 (generally 0.22 or 0.35 A/mm²)

→ 机械使用寿命 Mechanical life endurance	341EC
→ 电学额定寿命 Electrical life endurance	345E4
→ 最大平均电流 Max. average current at 25°C	120A
→ 最大平均电流 Max. average current at 25°C	144A
→ 额定电压 Nominal rated voltage	600V AC
→ 额定功率 Rated power	3.0W (30m)
→ 基本击穿电压 Dielectric strength of insulation	1500V
→ 加强击穿电压 Dielectric strength of reinforced	3000V
→ 环境温度 Ambient temperature	0°C~55°C
→ 额定容值 Nominality	(0.1~100)
→ 额定等级 Rated grade	D40
→ 附加上 额定功率及寿命 Rated power and life of parts from class	

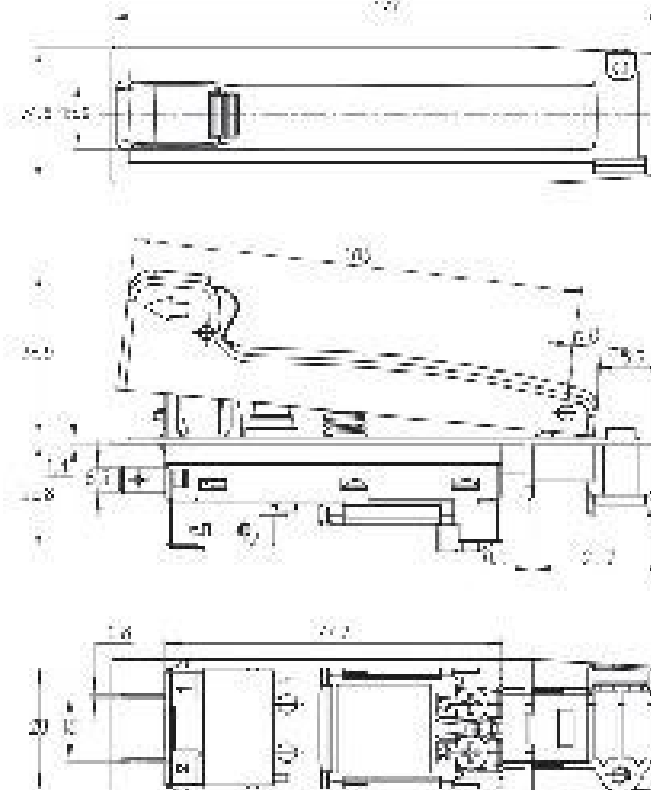
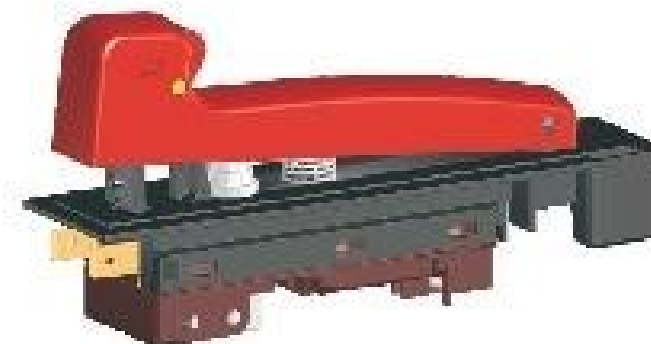
- 输入端 Input: analog
 - 2 根绞线通过 2 个焊脚 Pin 1 和 Pin 2 焊接到 Pin 1 和 Pin 2 上
- 输出端 Output: analog
 - 2 根绞线位于 Pin 4 和 Pin 5 上

品番 Model	電圧 Range	出力特性 / Standard and Appox. Output			
		UL 81038 	FMS1055 	GS1500-2 	K51053 
TE-12	最小 / min	10(10A, 120V) ~ 50(10A, 50V) ~ 50V	10(10A, 250V) ~ 50(10A, 50V) ~ 50V	10(10A, 250V) ~ 50V	10(10A, 250V) ~ 50V
	最大 / max	24(24A, 120V) ~ 35(10A, 50V) ~ 35V	10(10A, 250V) ~ 50(10A, 50V) ~ 50V	10(10A, 250V) ~ 50V	10(10A, 250V) ~ 50V

TS12 2118DE A9 C0.83



TS12-2118DB-A5-00.53



订货信息 Ordering Information:

TS 12 - 21 18 DB - A6N - C0.33
I II III IV V

I：功能类型 / Function Types					
21	11				
双极常开 DPNO	单极常开 SPNO				

II：电气参数 / Electrical Ratings					
10 or 16	12 or 18	14 or 20	15 or 22	18H or 24	30
10(10)A 250V~ 5E4 16(16)A 127V~ 5E4 16A 36Vd.c 5E4 16A 42Vd.c 5E4 16A 60Vd.c 5E4	12(12)A 250V~ 5E4 18(18)A 127V~ 5E4 18A 36Vd.c 5E4 18A 42Vd.c 5E4 18A 60Vd.c 5E4	14(14)A 250V~ 5E4 20(20)A 127V~ 5E4 20A 127Vd.c 5E4 20A 42Vd.c 5E4 20A 60Vd.c 5E4	15(15)A 250V~ 5E4 22(22)A 127V~ 5E4 22A 36Vd.c 5E4 22A 42Vd.c 5E4 22A 60Vd.c 5E4	18(18)A 250V~ 5E4 24(24)A 127V~ 5E4 24A 36Vd.c 5E4 24A 42Vd.c 5E4 24A 60Vd.c 5E4	30A 36Vd.c 5E4 30A 42Vd.c 5E4 30A 60Vd.c 5E4

III：锁定类型 / Lock Types					
W	B	D	DB		
无锁定 No Lock	闭合锁定 Lock-on	断开锁定 Lock-off	断开锁定带闭合锁定 Lock-off with Lock-on		

IV：扳机及外壳 类型 / Trigger and Shell Types		
A1	A2	A3
可选锁定类型Optional lock type: W, B, D, DB	可选锁定类型Optional lock type: B, D, DB	只适用于功能11 For function type11only 可选锁定类型 Optional lock type: B, D, DB
A4	A4-B	A5
可选锁定类型 Optional lock type:DB, D	可选锁定类型 Optional lock type:DB, D	可选锁定类型 Optional lock type:B, D, DB

V：附件 / Accessories					
blank 空缺	C0.22	C0.33	PB+S	SP	TB
不带附件 without accessory					
	滤波电容容值为 0.22 μ F Capacitance of suppression capacitor is 0.22 μ F	滤波电容容值为 0.33 μ F Capacitance of suppression capacitor is 0.33 μ F	电缆线压线板和螺钉 Pressing board for cable and screw	两极隔离片 Spacer for Two Poles	端子定位块 Block for Terminals

订货信息 Ordering Information:

TS 13 - 21 16 DB - A8 - C0.33
I II III IV

I: 电气参数 / Electrical Ratings					
10 or 16	12 or 18	14 or 20	15 or 22	30	
10(10)A 250V~ 5E4 16(16)A 127V~ 5E4 16A 127Vd.c 5E4 16A 42Vd.c 5E4 16A 60Vd.c 5E4	12(12)A 250V~ 5E4 18(18)A 127V~ 5E4 18A 36Vd.c 5E4 18A 42Vd.c 5E4 18A 60Vd.c 5E4	14(14)A 250V~ 5E4 20(20)A 127V~ 5E4 20A 36Vd.c 5E4 20A 42Vd.c 5E4 20A 60Vd.c 5E4	15(15)A 250V~ 5E4 22(22)A 127V~ 5E4 22A 36Vd.c 5E4 22A 42Vd.c 5E4 22A 60Vd.c 5E4	30A 36Vd.c 5E4 30A 42Vd.c 5E4 30A 60Vd.c 5E4	

II: 锁定类型 / Lock Types					
W	B	D	DB		
无锁定 No Lock	闭合锁定 Lock-on	断开锁定 Lock-off	断开锁定带闭合锁定 Lock-off with Lock-on		

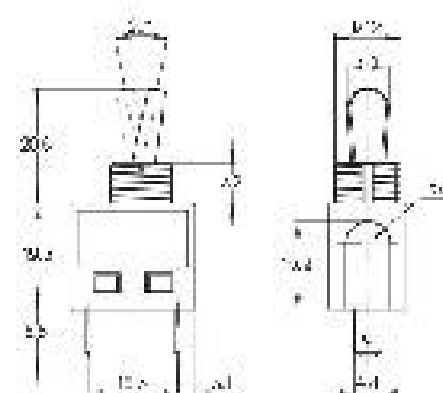
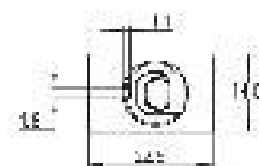
III: 扳机和外壳类型 / Trigger and Shell Types		
A1 可选锁定类型 Optional lock type: B, D, DB	A2 可选锁定类型 Optional lock type: B, D, DB	A3 可选锁定类型 Optional lock type: B, D, DB
A4 不带电容 without Capacitor 锁定类型 Lock type: W	A4-B 锁定类型 Lock type: W	A4-C 不带电容 without Capacitor 锁定类型 Lock type: B
A4-D 锁定类型 Lock type: W	A5 不带电容 without Capacitor 锁定类型 Lock type: W	A6 不带电容 without Capacitor 锁定类型 Lock type: W

III: 扳机和外壳类型 / Trigger and Shell Types		
A7 不带电容 without Capacitor 无弹簧 without spring	A8 不带电容 without Capacitor 锁定类型 Lock type: W	A8-B 不带电容 without Capacitor 无弹簧 without spring
A8-C 锁定类型 Lock type: W	A8-D 无弹簧 without spring	A9 可选锁定类型 Optional lock type: B, D, DB
A10 无弹簧 without spring	A11 锁定类型 Lock type: B	A12 无弹簧 without spring
A13 不带电容 without Capacitor 无弹簧 without spring	A13-B 不带电容 without Capacitor 无弹簧 without spring	A14 可选锁定类型 Optional lock type: B, D, DB

IV: 附件 / Accessories					
blank 空缺	C0.22	C0.33	PB+S 只适用于A3N For A3N only		
不带电容 without capacitor	 滤波电容容值为 0.22 μF Capacitance of suppression capacitor is 0.22 μF	 滤波电容容值为 0.33 μF Capacitance of suppression capacitor is 0.33 μF	 电缆线压线板和螺钉 Pressing Board for Cable and Screw		

LS 01 倒扳开关 Lever Switch

LS01-1112B-C



产品描述 Product description

◆ LS 01系列是一款专用型防尘扳开关,也叫摇杆开关或拨动开关,防尘防尘扳。适用于各类电动工具,如:100mm 125角向磨光机、电钻、扳口电钻等。

◆ LS 01 series is a special type lever switch, **dustproof** dustproof, commonly used in portable power tools such as 100mm and 125mm Angle Grinders, Routers, Die Grinders etc.

特点 Features

- ◆ 可选带以下附件: Optional with following accessories:
- 防尘盖 Dustproof sheet
- 安装螺母 Nut for installation

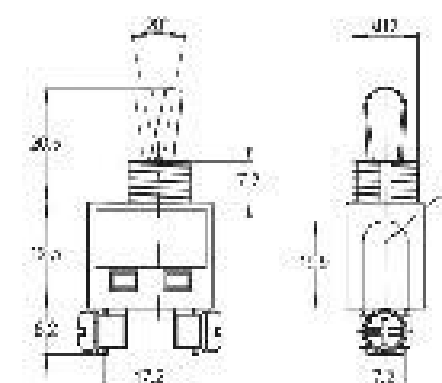
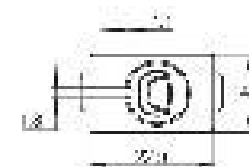
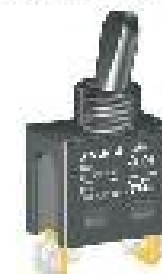
技术参数 Technical data

- 机械耐久寿命 Mechanical life endurance 2*10⁵
- 电气耐久寿命 Electrical life endurance 2*10⁵
- 最大额定电流 Max. rated current AC 250V 40A
- 最大额定电流 Max. rated current DC 250V 20A
- 接触电阻 Contact resistance ≤100m Ohm
- 绝缘电阻 Insulation resistance ≥70M Ohm
- 基本绝缘电压 Dielectric strength of insulation 1500V
- 加强绝缘电压 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature 0℃~55℃
- 阻燃等级 Flame Rating UL 94V-0
- 防护等级 Protection grade IP40
- 适用于 防护等级 IP40 Suitable for appliances of protection class I

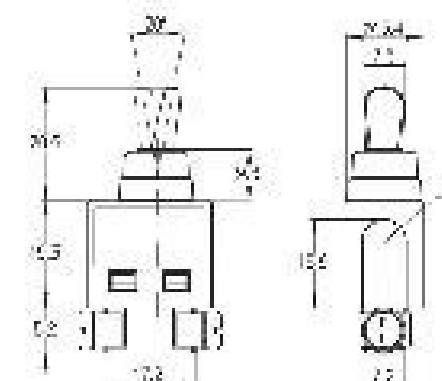
端子类型 Terminals

- ◆ 输入功率等级 Input 0.1W/0.1W/0.1W
- 铝片端子 Plug-in terminals 0.8X0.6mm
- 铝片端子 Plug-in terminals 0.8X0.6mm
- 插接端子 Insertion terminals 0.8X0.6mm
- 螺钉端子 Screw terminals 0.8X0.6

LS01-1112M1A-C



LS01-1112M1A-BDZ

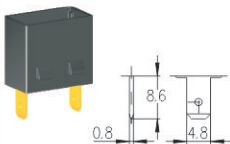
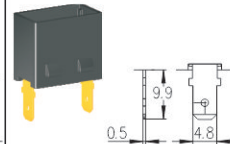
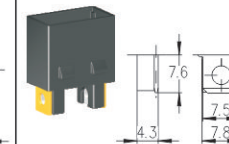
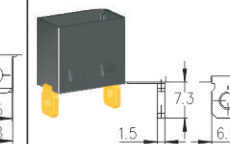
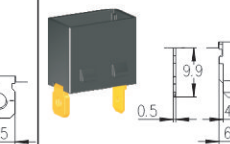


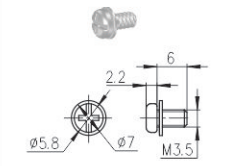
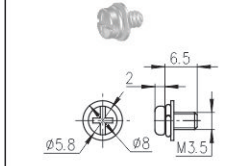
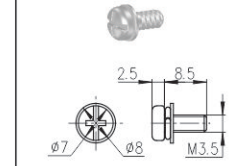
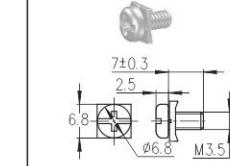
型号 Model	范围 Range	UL 81058 cULus	认证及认证 / Standard and Approvals		
			EN61058	EN61058	GB15046
LS01	最小 / min	8(5)A 125V~5P4 + 6A 380V~1P4		10(5)A 250V~5P4 + 6A 380V~1P4	6(5)A 250V~5P4
	最大 / max	12(12)A 125V~5P4 + 13A 380V~1P4	10(10)A 250V~5P4	10(10)A 250V~5P4 + 13A 380V~1P4	10(10)A 250V~5P4

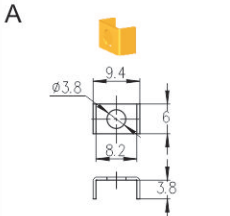
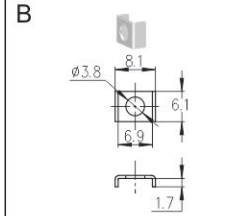
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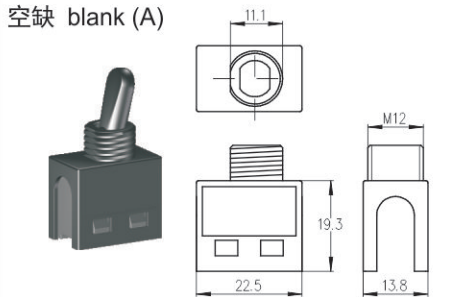
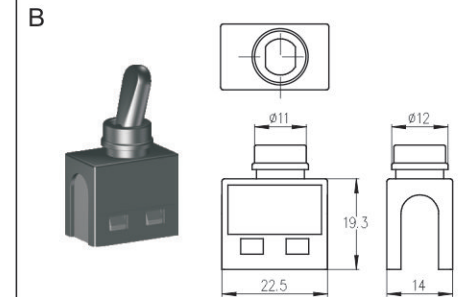
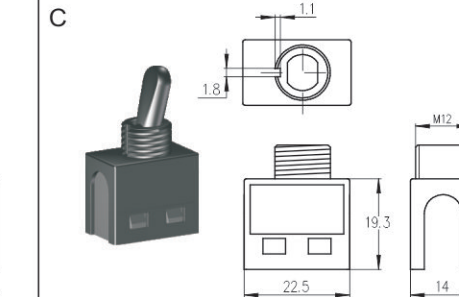
LS 01 - 11 12 M 1 A - B D2
I II III IV V VI

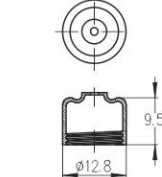
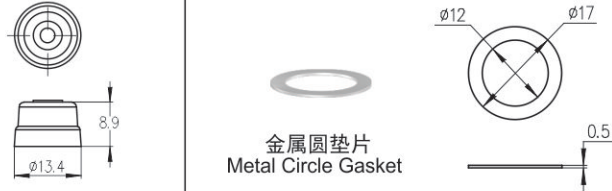
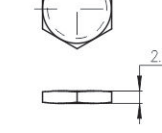
I : 电气参数 / Electrical Ratings					
06	08	10	12	15	
6(6)A 125V~ 5E4 3(3)A 250V~ 5E4 6A 36Vd.c 1E4	8(8)A 125V~ 5E4 4(4)A 250V~ 1E4 8A 36Vd.c 1E4	10(10)A 250V~ 5E4 6(6)A 250V~ 5E4 12A 36Vd.c 5E4	12(12)A 125V~ 5E4 8(8)A 250V~ 5E4 12A 36Vd.c 1E4	15A 36Vd.c 1E4	
03 for 250V~ only	04 for 250V~ only	06 for 250V~ only	08 for 250V~ only		

II : 端子类型 / Terminal Types					
B	BX.5	M	MX	BMX	
 插片式 4.8×0.8mm Plug-in Type	 插片式 4.8×0.5mm Plug-in Type	 螺钉式 M3.5 Screw Type	 螺钉式 M3.5 Screw Type	 插片式及螺钉式 Plug-in and Screw Type	

III : 螺钉类型 / Screw Types (只适合端子M, MX, MBX / For Terminal Type M, MX, BMX only)					
1	2	3	4		
 M3.5×6	 M3.5×6.5	 M3.5×8.5	 M3.5×7		

IV : 垫片类型 / Gasket Types (只适合端子M, MX, BMX / For Terminal Type M, MX, BMX only)					
A	B				
 Ø3.8 9.4 6 8.2 3.8	 Ø3.8 8.1 6.1 6.9 1.7				

V : 外壳类型 / Shell Types		
空缺 blank (A)	B	C
 11.1 19.3 22.5 13.8 M12	 11.1 19.3 22.5 14 M12	 1.1 1.8 19.3 22.5 14 M12

VI: 附件 / Accessories			
D1	D2	G1	
 防尘套 Dustproof sheath	 防尘套 Dustproof sheath	 金属圆垫片 Metal Circle Gasket	
N1	N2		
 金属安装螺母 Nut for installation Material-Stell Alloy	 塑料安装螺母 Nut for installation Material-Nylon		

产品描述 Product description

[illegible]

- **LS 02 series** are special type Lever switches, **Integrated** (shutoff and "waterproof"), commonly be used in bench top power tools such as Bench Push Pull Saws, Bench Circular Saws, Bench Planers, Bench Routers, Bench Band Saws, Drill Presses, Bench Lathes, Bench Grinders, Bench Marble Cutters, Floor Cutters, etc.

Key Features

◆ 可獲聲以下功成 *you need not follow the same*

- 三角關係 3角形 3 angles, 3 sides, 3 angles, 3 sides
- 三角雙邊 雙面 3 angles, 2 sides, 2 angles, 3 sides
- 三角雙邊中國語譯 3 angles, 2 sides, 2 angles, 3 sides
- 雙角雙邊 2角形 2 angles, 2 sides, 2 angles, 2 sides
- 雙角雙邊中國語譯 2 angles, 2 sides, 2 angles, 2 sides

★可配搭以下附件: Optional with following accessories:

- 一、廣告公司 1. 廣告公司之成立 2. 廣告公司之組織 3. 廣告公司之業務 4. 廣告公司之管理 5. 廣告公司之發展

技術情報 Technical data

- | | |
|---|------------|
| → 预期耐久寿命 Median life and range | 3-15F/15F4 |
| → 电气耐久寿命 Electrical life and range | 3-5F4/1F4 |
| → 最大额定功率 Max. rated power (VA) 25°C | 80A |
| → 最大额定功率 Max. rated power (VA) 25°C | 132A |
| → 额定电压 Nominal voltage | 0-99V/100V |
| → 额定电压 Nom. rated voltage | 2-5M/0.5V |
| → 基本安全电压度 Basic safety strength of insulation | 1500V |
| → 加强安全电压度 Reinforced strength of insulation | 3000V |
| → 环境温度 Ambient temperature | 0°C-55°C |
| → 额定等级 Reliability | DL-84V-0 |
| → 额定等级 Protection class | IP40 |
| → 器具认证和器具 Suitable for appliances of protection class | |

5744 [01/03/02]

- ◆ 输入元件: 南: input side/output side
- 泊松比: Poisson's ratio: 0.3
- 泊松比: Poisson's ratio: 0.3
- 弹性模量: Young's modulus: 4.0E+08
- 密度: Density: 7.8E+03

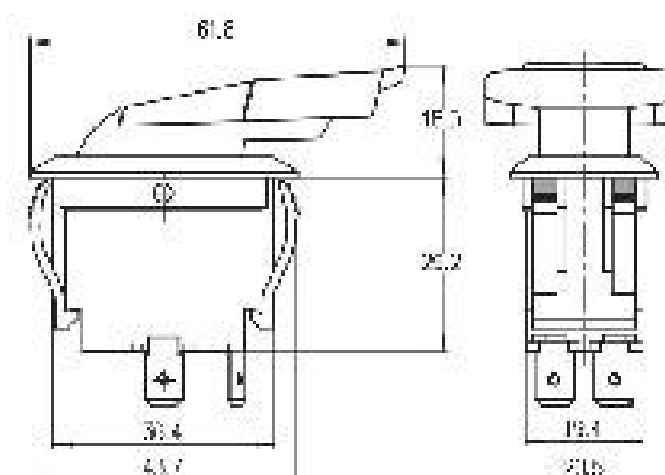
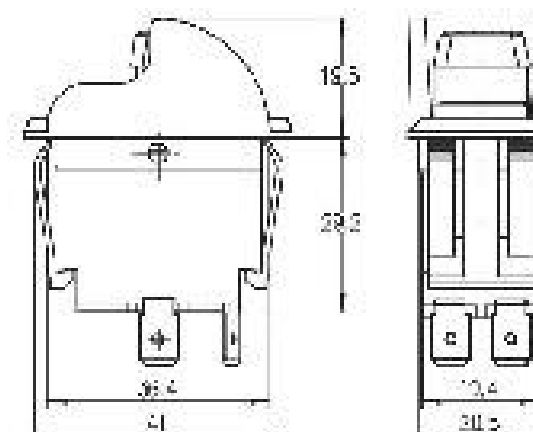
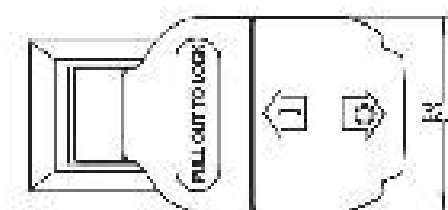
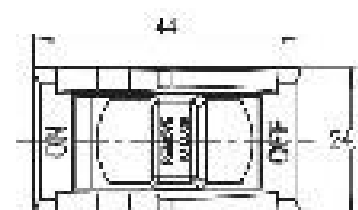
Figure 1. Panel Dimension



計算項目 Calculation Item	式 Formula
1.5-2.0	80.4×1.2
2.0-3.0	107.0×1.2

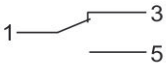
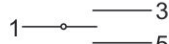
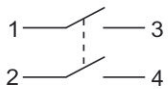
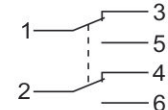
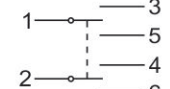
1507-21154-P

1502-2164-G0

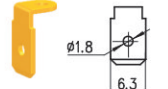
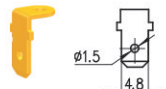
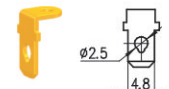
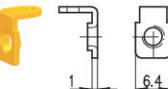


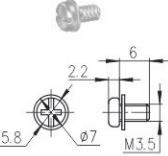
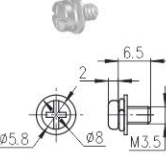
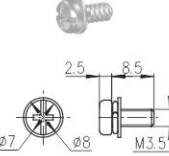
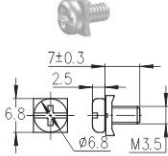
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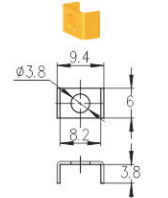
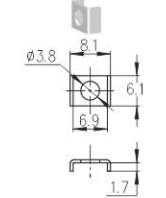
LS 02 - 21 16 A - D 1
I II III IV V VI VII

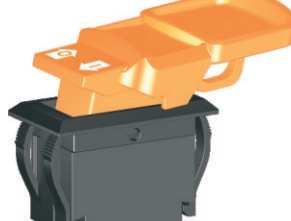
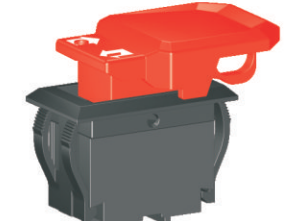
I: 功能类型 / Function Types					
11  单极单掷 SPST	12  单极双掷 SPDT	13  单极双掷带中间OFF SPDT with centre-off	21  双极单掷 DPST	22  双极双掷 DPDT	23  双极双掷带中间OFF DPDT with centre-off

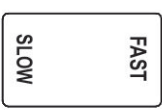
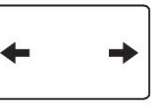
II: 电气参数 / Electrical Ratings					
16 16(16)A 125V~ 5E4 10(10)A 250V~ 5E4 16A 48Vd.c 1E4	18 18(18)A 125V~ 5E4 12(12)A 250V~ 5E4 18A 48Vd.c 1E4	20 20(20)A 125V~ 5E4 14(14)A 250V~ 5E4 20A 48Vd.c 1E4	22 22(22)A 125V~ 5E4 15(15)A 250V~ 5E4 20A 48Vd.c 1E4	24 24A 48Vd.c 1E4	

III: 端子类型 / Terminal Types					
A  插片式 6.3×0.8mm Plug-in Type	B  插片式 4.8×0.8mm Plug-in Type	C  焊接式 4.8×0.8mm Soldering Type	M  螺钉式 Screw Type		

IV: 螺和垫片钉类型 / Screw and Gasket Types (只适合端子M / For Terminal Type M only)					
1  M3.5×6	2  M3.5×6.5	3  M3.5×8.5	4  M3.5×7		

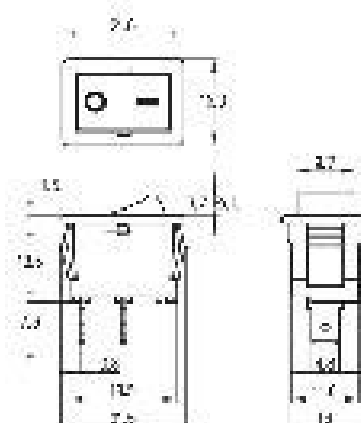
V: 垫片类型 / Gasket Types (只适合端子M / For Terminal Type M only)					
A 	B 				

VI: 主体类型 / Body Types			
A 	B 	C0 	C1 
C2 	C3  OEM	C4  OEM	D 
E 			

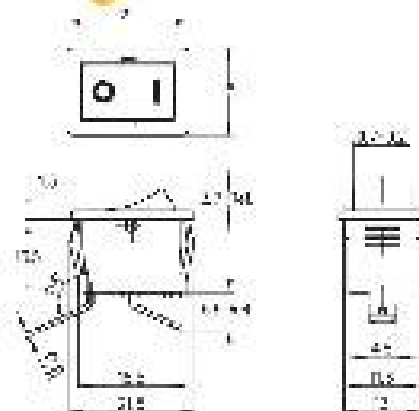
VII按钮标识 / Prints on Button (只适用于主体D / For Body Type D only)					
1 	2 	4 	5 	8 	9 
10 	11 	12 			

RS 01 跷板开关 Rocker switch

RS01-1106B-E1



RS01-1106A1(15°) NE2



产品描述 Product description

◆ RS 01 系列是一款标准型的小型跷板开关, 它通断容量大, 外形尺寸小, 有普通结构、带防尘罩结构、防水及内部锁定结构, 我们可以选择, 只须板焊, 可用于小型电动工具, 如: 磨具电磨, 电动砂轮, 电砂机, 电动钻等, 也可用于家用电器用电及办公设备, 如: 台灯, 电脑, 打印机, 游戏机, 电话机, 电话机, 有语音设备等。

◆ RS 01 series are one standard type rocker switch, optional with Protection Cap for dustproof and waterproof, or with inner dustproof structure, commonly for use in portable power tools such as Hand Sanders, Die Grinders, Electric Nailers, Laser Actuators, etc. Also be used in small home appliances and office equipments, such as Reading Lamp, Electric Fans, Printers, Game Players, Computer Power-supplys, Power Sound Box, etc.

特征 Features

- ◆ 可选带以下附件 Optional with the function as follows:
 - 单极单掷 Single Pole Single Throw (SPST)
 - 单极双掷 Single pole double throw (SPDT)
 - 单极双掷带中间断开 SPDT with break off
 - 带防尘罩 Dust cap on

◆ 可选带以下附件 Optional with the accessories as follows:

- 防尘罩 Protection Cap
- 内部防尘结构 Inner Dustproof Structure
- 锡烙点端子类型 Soldering with leads and terminals

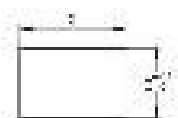
技术参数 Technical data

- 机械寿命 Mechanical life (cycles) 1000000
- 电气寿命 Electrical life (cycles) 500000
- 最大额定电流 Max. rated current (10s) 40A
- 最大额定电压 Max. rated voltage (10s) 48V
- 接触电阻 Contact resistance 400m Ohm
- 绝缘电阻 Insulation resistance 1000 Ohm
- 五十个电寿命 Dielectric strength of function 1500V
- 加强个电寿命 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature 0°C~55°C
- 存储环境温度 Storage temperature 0°C~55°C
- 爬电等级 Creepage rating UL94V-0
- 防护等级 Protection type IP40
- 适用于三极开关器具 Suitable for appliances of protective class III

端子类型 Terminals

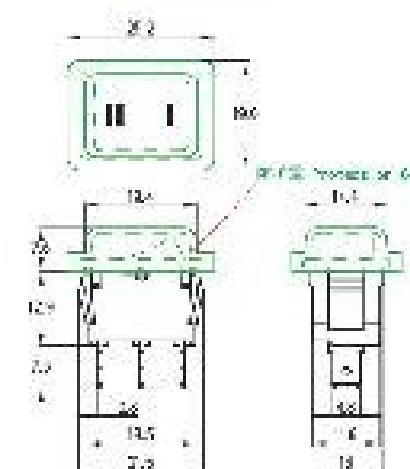
- ◆ 输入线宽 Input wire/Cable width
- 贴片端子 Through terminals 4.5×3.5mm
- 焊接端子 Solder terminals
- 点胶板焊接端子 SMD Solder terminals

安装尺寸 Panel Dimension

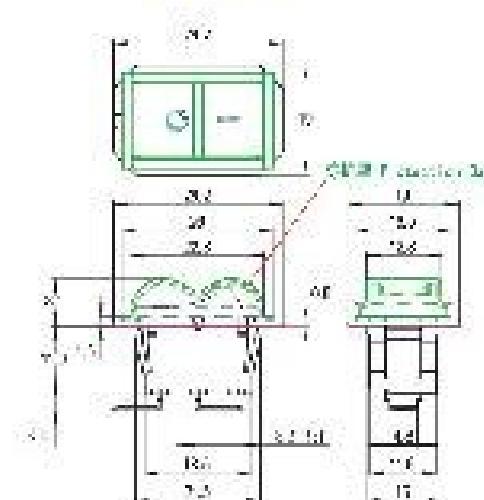


尺寸范围 Panel Size Range	尺寸 Size
6.25~1.25	16.1±0.1
1.25~2	16.2±0.1
2~2.5	16.2±0.1

RS01-1206B1-E9-C1



RS01-1108A1(90°) E1 C3B



型号 Model	范围 Range	标准认证 / Standard and Approval			
		UL ENEC	FM01068	EN60529	CCC
RS 01	最小 / min.	40(A) 125(V)~50(A) 250(V)~1E4	40(A) 250(V)~50(A)	40(A) 250(V)~50(A) 250(V)~1E4	40(A) 250(V)~50(A)
	最大 / max.	120(A) 125(V)~1E4~120(A) 250(V)~1E4	120(A) 250(V)~1E4	120(A) 250(V)~1E4~120(A) 250(V)~1E4	120(A) 250(V)~1E4

订货信息 Ordering Information:

RS 01 - 11 06 A1 (90°) - N E1 - C3 B
I II III IV V VI VI
端子 and 垂直面之间的角度
The angle between the teminal and apeak

I: 功能类型 / Function Types					
11	12	13	11M	12M	
单极单掷 SPST	单极双掷 SPDT	单极双掷带 中间断开 SPDT with centre-off	单极单掷带点动方式 SPST Momentary act	单极双掷带点动方式 SPDT Momentary act	

II: 电气参数 / Electrical Ratings					
04	06	08	10	12	
4(4)A 250V~ 4(4)A 125V~ T85/55 5E4 4A 24Vd.c T85/55 1E4	6(6)A 250V~ 6(6)A 125V~ T85/55 5E4 6A 24Vd.c T85/55 1E4	8(8)A 250V~ 8A 24Vd.c T85/55 1E4 8(8)A 125V~ T85/55 5E4	10(8)A 250V~ 10(8)A 125V~ 10A 24Vd.c T85/55 1E4	12(8)A 250V~ 12(8)A 125V~ 12A 24Vd.c T85/55 1E4	

III: 端子类型 / Terminal Types					
A1	A2	B	C	D1	D2
 插片式 4.8×0.8 Plug-in type	 焊接式 4.8×0.8 Soldering type	 插片式 4.8×0.8 Plug-in type	 焊接式 4.8×0.8 Soldering type	 焊接式 3.0×0.8 Soldering type	 焊接式 3.8×0.8 Soldering type
E1	E2				
 线路板焊接式 1.2×0.8 PCB Soldering type	 线路板焊接式 1.2×0.8 PCB Soldering type				

IV: 主体类型 / Body Types					
A	B	C			
普通款 Normal Type	 内部防尘款 Inner Dustproof	 只适用于按钮M, m For Button M, m only 内部防尘款 Inner Dustproof			

V: 按钮 / Buttons					
E	(N)	M	m	n	

V: 按钮标识 / Markings on Button							
E1	E2	E3	E4	E5	E6	E7	E8
E9	E10	E11	E12	E13	E14	E15	E16
E17	E18	E19	E20	E21	E22	E23	E24
E25							

VI: 按钮标识 / Makings on Button (只适用于按钮M, m / For Button M, m only)					
2	3	4	5	7	8
14	20				

VI: 附件 / Accessories		
空缺 blank 不带附件 without Accessory	C1 防护罩 Protection Cap 19.4 14.4 7.6 25.2 19	C2 防护罩 Protection Cap 20 14 7.6 22.4 16.4
C3 防护罩 Protection Cap 22.8 12.8 7.3 26 0.8 16.5	B 固定安装板 Installation Board 19.0 29.2 0.8 5.5	

RS 02 跷板开关 Rocker Switch

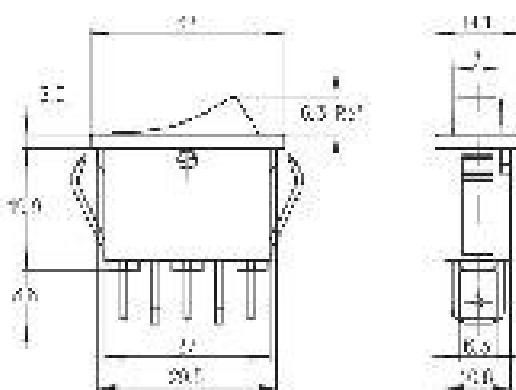
RS22-4-1164-E1



高估刊民: 1998-1999 年



环境温度 Furnal Temperature	γ
22-2	26.6±0.5
22-23	22.8±0.1



产品描述 Product description

- **RS 02系列**—一种标准型的脚踏开关，也适用于手控开关。外形开关可安装在墙上的特殊可平衡的防水及防腐型结构。内部可以这样：在踏板中，通过防水密封可发现：防水结构，功能：广泛使用于桑拿浴室电器及办公设备，如：热风枪、电吹风、电熨斗、打印机、家用吸尘器、干燥器、吹风机等。产品目录见附录等。

Key Features

- ◆ 可用以下方法对 Thermal 属性进行设置:
 - 设置单管 Single Cold Single Phase (3/3/0)
 - 设置双管 Single Cold Double Phase (3/3/0)
 - 设置双管中间断开 Split with Break off
 - 设置防倒 Valve anti-suck
- ◆ 可用以下方法对 Electrical 属性进行设置:
 - 防电涌 Protection Cap
 - 内部零件固定 Inner Component Structure
 - 绝缘密封与焊接 Sealing with bands and welding

技术规格 Technical data

→ 机械耐久寿命 Mechanical life endurance	≥5E4 h / 1E5
→ 电气耐久寿命 Electrical life endurance	≥5E4 h / 1E5
→ 最大平均电流 Max. mean current, I_{avg}	200 A / 228
→ 最大峰值电流 Max. peak current, I_{pk}	480 A / 560
→ 冷却电阻 Thermal resistance	≤30m Ohm
→ 绝缘电阻 Insulation resistance	≥10M Ohm
→ 基本击穿电压 Breakdown strength of junction	1800V
→ 加强击穿电压 Breakdown strength of reinforced	3000V
→ 不燃温度 Anti-arc temperature	300°C/950°F
→ 最高结温度 Junction temperature	175°C/350°F
→ 爬电等级 Creepage rating	UL94V-0
→ 阻燃等级 Flammability rating	UL94
→ 符合下列标准符合 Submits for standard use of production class	

第二單元 Testing

- ◆ 输入侧(第二侧) Top side/Inner side:
 - 短片侧了 (The is terminated 2.983 mm)
 - 接片侧了 (The is terminated 4.883 mm)
 - 短片侧了 (The is terminated)
 - 接片侧短片侧了 (The is terminated)

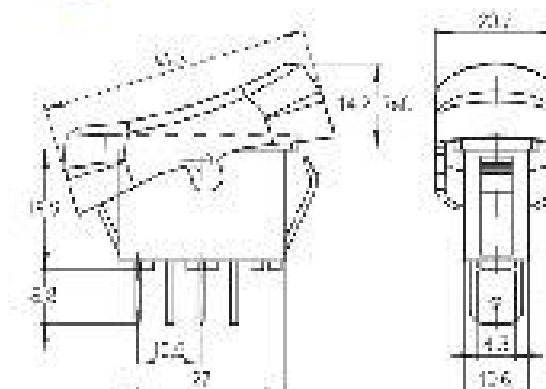
型号 Model	范围 Range	UL 61058 	EN61055 	EN61055 	GB15399 
RS-02	最小 / min. 1000 最大 / max. 2000	122V~50A, 1040~2200~50A	220V~50A	100V~220V~50A, 1040~2200~50A	100V~250V~17A

RG02-P-11164-M5

Figure 3.3 Panel Dimensions

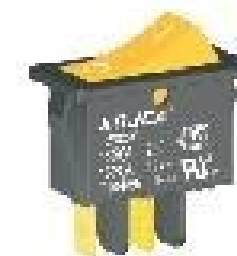


假設係數 Partial correlation	r
1.20-2	0.040(0.00)
2.20-3	0.022(0.00)

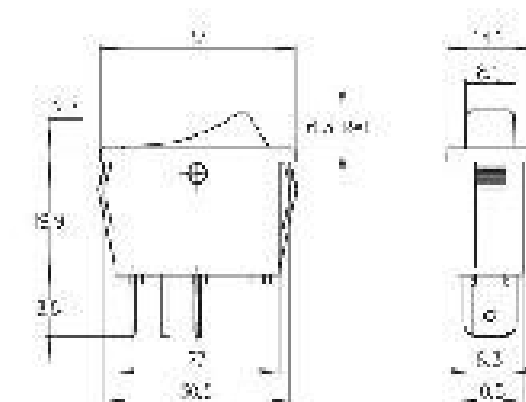


RS02-C-116A-E1

247 英寸 Panel Dimensions



Period	Mean	SD
Pre-Intervention	4.35 ± 0.7	5.16 ± 0.9
Post-Intervention	2.23 ± 1.0	22.6 ± 0.8

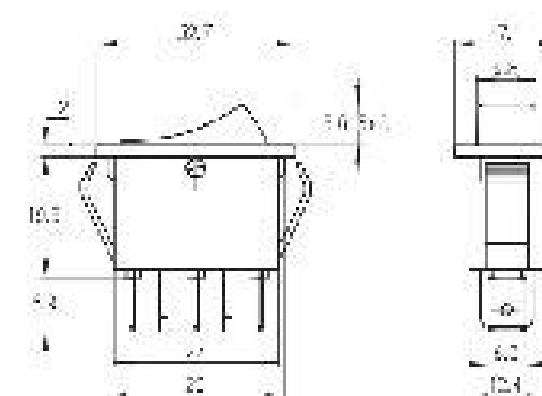


R902-D-13' GA-E10

अधिकारों पर Panel Discussion



Box Size Length x Width	X
1.5 x 2	20.0 ± 0.1
2.5 x 3.0	20.0 ± 0.1

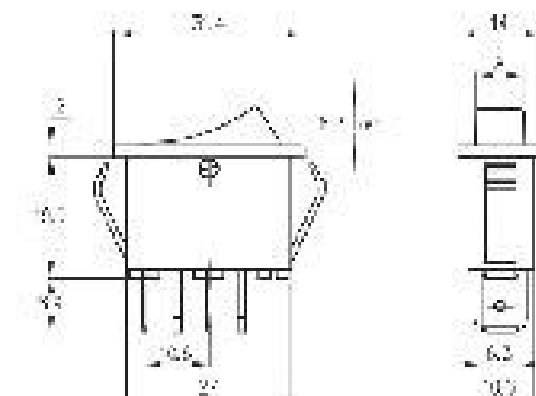


RGD2-F-1116A-F

可變尺寸 Panel Dimension

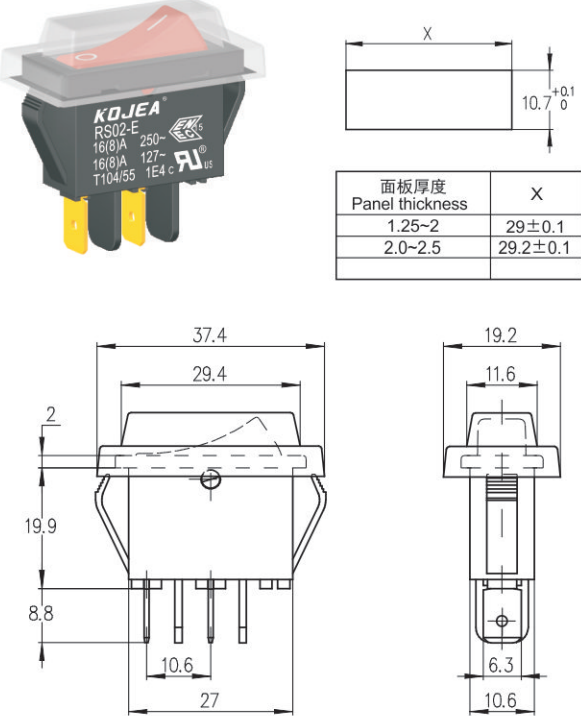


已收房租 Paid Rent	8
100-0	100-0
20-00	20-20



RS02-E-1116A-E1-C

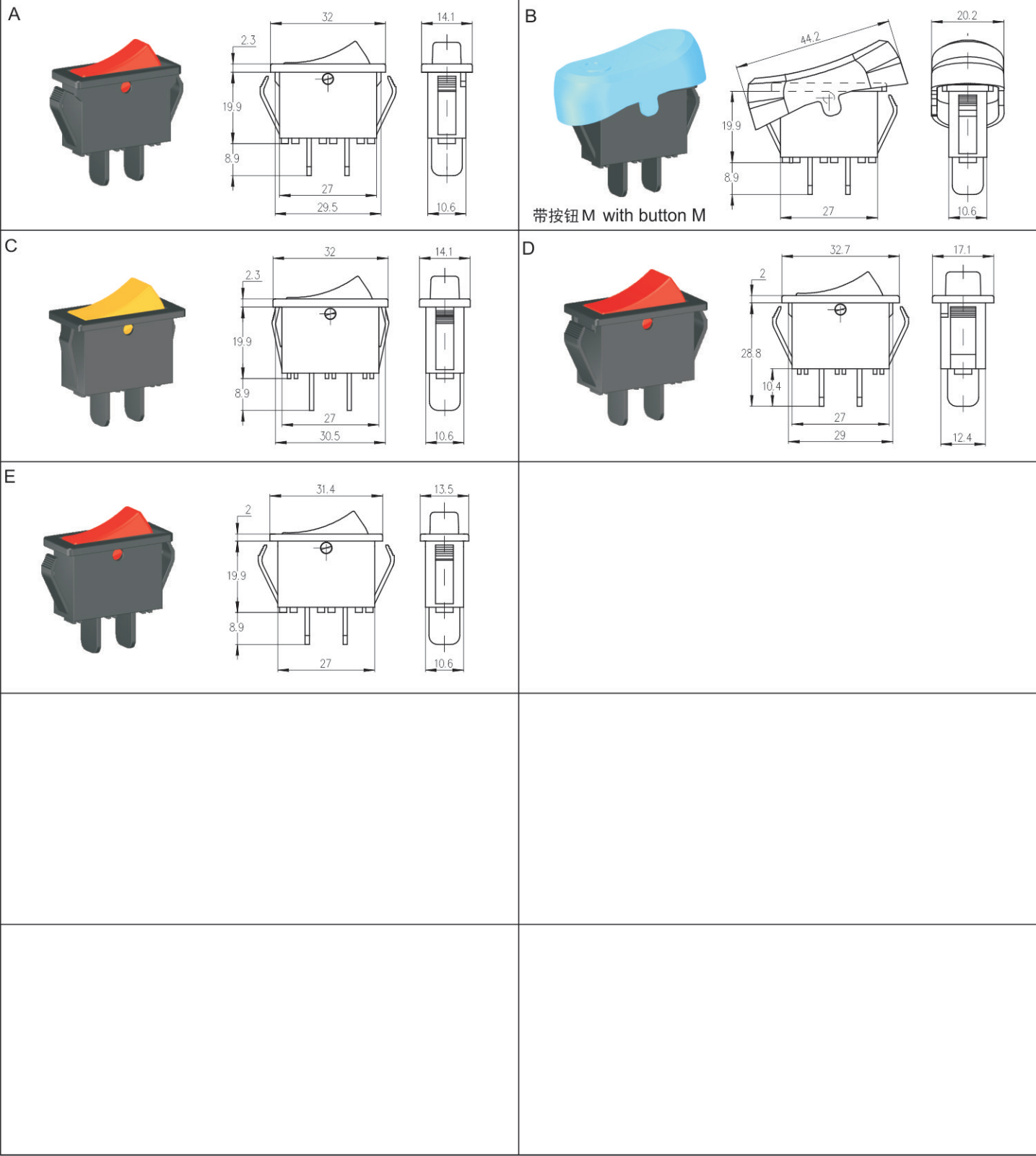
安装孔尺寸 Panel Dimension



订货信息 Ordering Information:

RS 02 A - 11 10 A - E1 - C
I II III IV V VI

I: 主体类型 / Body Types



I. 功能类型 / Functions Types					
11	11L	11LE	12	12	12M
单投单掷 SPST	带灯 11 Illuminated	带LED+LED 11LE (for locked)	单投单掷 SPST	单投单掷带中心停止 SPST with Center-stop	单投单掷带点动方式 SPST Momentary act
12M					
单投单掷带点动方式 SPST Momentary act					

II. 电气参数 - 交流 (ENEC, CQC/UL 认证) / Electrical Ratings - AC (ENEC, CQC and UL Approval)					
10	12	11	16	18	20
10(A) 250V~ 100(A) 127V~ T10S55 5P4 6(A) 250V~ 10(A) 125V~ T10S55 5P4	12(A) 250V~ 120(A) 127V~ T10S55 5P4 8(A) 250V~ 12(A) 125V~ T10S55 5P4	11(A) 250V~ 110(A) 127V~ T10S55 5P4 10(A) 250V~ 11(A) 125V~ T10S55 5P4	16(A) 250V~ 160(A) 127V~ T10S55 5P4 12(A) 250V~ 15(A) 125V~ T10S55 5P4	18(A) 250V~ 180(A) 127V~ T10S55 5P4	20(A) 250V~ 200(A) 127V~ T10S55 5P4

II. 电气参数 - 直流 (ENEC/UL 认证) / Electrical Ratings - DC (ENEC and UL Approval)					
00	10	12	16	20	25
20(A) 0.42Vdc T10S55 5P4	10(A) 0.42Vdc T10S55 5P4	12(A) 0.42Vdc T10S55 5P4	16(A) 0.42Vdc T10S55 5P4	20(A) 0.42Vdc T10S55 5P4	25(A) 0.42Vdc T10S55 5P4

III. 电气参数 (TUV 认证) / Electrical Ratings (TUV Approval)				
08T	10T	12T	14T	15T
8(A) 250V~ 12(A) 36Vdc T10S55 5-L1	10(A) 250V~ 14(A) 36Vdc T10S55 5-L1	12(A) 250V~ 16(A) 36Vdc T10S55 5-L1	14(A) 250V~ 18(A) 36Vdc T10S55 5-L1	15(A) 250V~ 20(A) 36Vdc T10S55 5-L1

IV. 端子类型 / Terminal Types				
A	B	G	D	E
插片式 Plug-in Type	插片式 Plug-in Type	焊接式 Soldering Type	焊接式 Soldering Type	焊接式 Soldering Type

V. 按钮及标识 / Buttons and Markings on Button					
E1	E2	E3	E4	E5	E6
E7	E8	E9	E10	E11	E12

VI. 按钮及标识 / Buttons and Markings on Button				
m2	m4	m5		

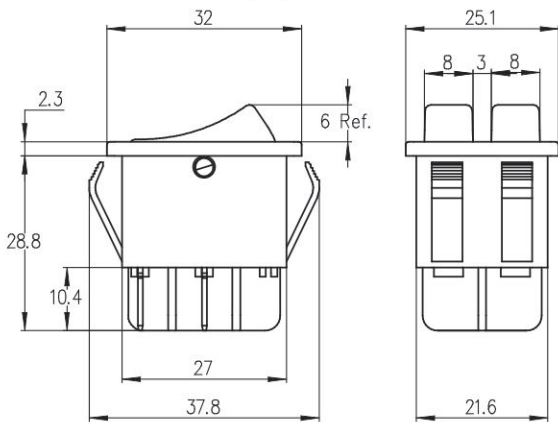
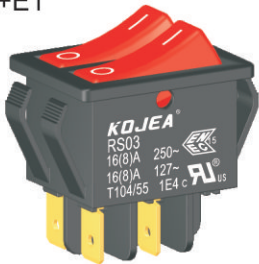
VI. 按钮标识 / Markings on Button (只适用于按钮 M / For Button M only)				
M2	M4	M20		

VI. 按钮及标识 / Buttons and Markings on Button				
G1	G2	G4	G12	

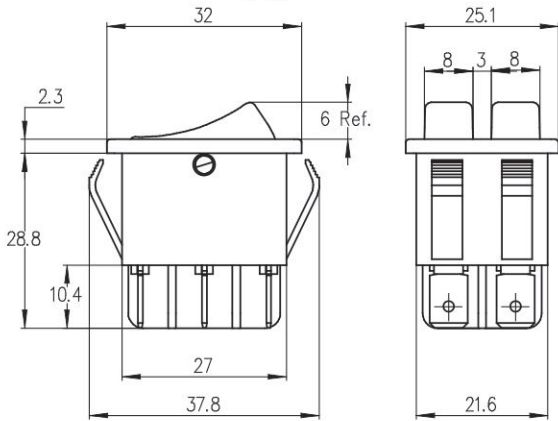
VI. 附件 / Accessories				
C	C			
防护罩 Protective Cap	底座圈 Bed Ring			

RS 03 跷板开关 Rocker Switch

RS03-2116A-E1+E1



RS03-2316A-E10+E10



产品描述 Product description

◆ **RS 03** 系列是一款标准型的跷板开关, 也称船型开关, 波形开关等, 用途极广, 广泛应用于各类家用电器及办公设备, 如: 电扇, 饮水机, 取暖器等。

◆ **RS 03** series are standard type rocker switches, commonly for use in small Home appliances and office equipments, such as Electric Fans, Drinking Machines, Electric Heaters, etc.

特征 Features

- ◆ 可选带以下功能 Optional with the function as follows:
 - 两极单掷 2 Pole Single Throw (2PST)
 - 两极双掷 2 Pole Double Throw (2PDT)
 - 两极双掷带中间断开 2PDT with Centre-off
 - 点动功能 Momentary act

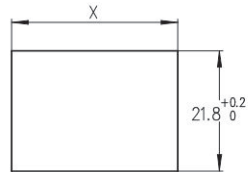
技术数据 Technical data

- 机械耐久寿命 Mechanical life endurance $\geq 5E4 / 1E5$
- 电气耐久寿命 Electrical life endurance $\geq 1E4 / 5E4$
- 最大冲击电流 Max. Inrush current at 250V 48A / 72A
- 最大冲击电流 Max. Inrush current at 125V 48A / 96A
- 接触电阻 Contact resistance $\leq 30m\ \Omega$
- 绝缘电阻 Insulation resistance $\geq 7M\ \Omega$
- 基本介电强度 Dielectric strength of function 1500V
- 加强介电强度 Dielectric strength of reinforced 3000V
- 环境温度 Ambient temperature $0^{\circ}C \sim 105^{\circ}C$
- 操动件温度 Actuator temperature $0^{\circ}C \sim 55^{\circ}C$
- 阻燃等级 Flammability UL 94V-0
- 防护等级 Protection type IP40
- 适用于II类防护器具 Suitable for appliances of protection class II

端子类型 Terminals

- ◆ 输入端/输出端 Input side/Output side:
 - 插片端子 Plug-in terminals $6.3 \times 0.8mm$
 - 插片端子 Plug-in terminals $4.8 \times 0.8mm$
 - 焊接端子 Solder terminals

安装孔尺寸 Panel Dimension



安装面板厚度 Panel thickness	X
1.25~2	30.0 ± 0.1
2.0~2.5	30.2 ± 0.1

订货信息 Ordering Information:

RS 03 - 21 16 A - E1+E1
I II III IV

I : 功能类型 / Function Types

21 两极单掷 2PST	21M 两极单掷带点动方式 2PST Momentary act	22 两极双掷 2PDT	22M 两极双掷带点动方式 2PDT Momentary act	23 两极双掷带中间断开 2PDT with Centre-off	
---------------------	--	---------------------	--	---	--

III: 电气参数 / Electrical Ratings

10 10(8)A 250V~ 10(8)A 125V~ 10A 36Vd.c T105/55 1E4 6(6)A 250V~ 10(10)A 125V~ T105/55 5E4	12 12(8)A 250V~ 12(8)A 125V~ 16A 36Vd.c T105/55 1E4 8(8)A 250V~ 12(12)A 125V~ T105/55 5E4	14 14(8)A 250V~ 14(8)A 125V~ 14A 36Vd.c T105/55 1E4 10(10)A 250V~ 14(14)A 125V~ T105/55 5E4	16 16(8)A 250V~ 16(8)A 125V~ 16A 36Vd.c T105/55 1E4 12(12)A 250V~ 16(16)A 125V~ T105/55 5E4	18 18(8)A 250V~ 18(8)A 125V~ T105/55 1E4 18A 36Vd.c T105/55 1E4	20 20(8)A 250V~ 20(8)A 125V~ T105/55 1E4 20A 36Vd.c T105/55 1E4
--	--	--	--	--	--

III: 端子类型 / Terminal Types

A 插片式 Plug-in Type	B 插片式 Plug-in Type	C 焊接式 Soldering Type			
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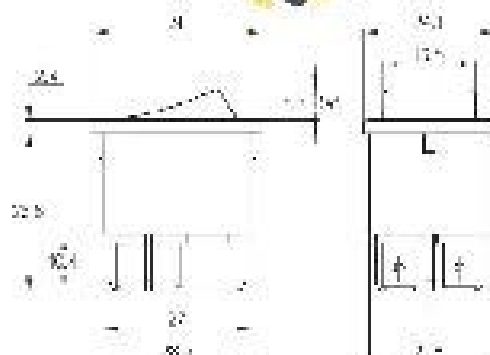
IV: 按钮标识 / Markings on Button

E1 	E2 	E3 	E4 	E5 	E6
E7 	E8 	E9 	E10 	E11 	

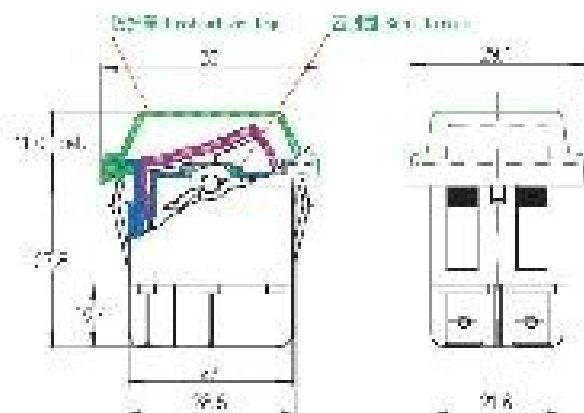
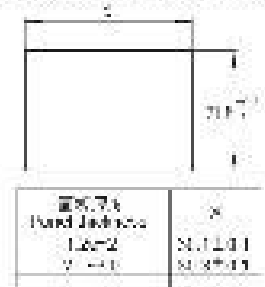
型号 Model	范围 Range	标准及认证 / Standard and Approvals			
		UL61058	EN61058		GB15092
RS 03	最小 / min.	10(8)A 125V~ 1E4 / 10A 24Vd.c 1E4	10(8)A 250V~ 1E4 / 10A 36Vd.c 1E4		
	最大 / max.	20(8)A 125V~ 1E4 / 20A 36Vd.c 1E4	20(8)A 250V~ 1E4 / 20A 36Vd.c 1E4		12(10)A 250V~ 5E4

RS 04 脚踏开关 Rocker Switch

RS24 A 2-16A D1 C2



RS04-B-2116A-D1-C1



产品描述 Product description

◆ RGS 04系列是一款可冲型的密封开关，内置控制元件，常开并入端，当需要断开时以磁子，用磁棒来分离。该系列有：板内型、板外型两种结构和防止触电、防止短路、广泛适用于各种工具、器材、器材与液体接触等。如：台钻、台式砂轮机等。电焊机开关、切割机开关、高压清洗机、气动式救生设备等。也可作通用工业类家电产品，如洗衣机、电吹风等。

- **RS-04** series are standard type made with new improved design of type, optional with Protection Cap for dustproof and an exposed optional with inner Protection Structure for disjunct and waterproof, mainly for use in power tools, grinding lathes and cleaning appliances such as Table Saws, Bench Grinders, Electric Sawmills, Cutting Fluids, etc., Electric High Pressure Washers, Dry and Wet Vacuum Cleaners, etc. Also for used in all kinds of Home Appliances, Testing Equipments, Office Equipments.

Key Features

◆ 可沿用以下证明. *Identical* with the function as follows.

- [illegible]

技术规格 Technical data

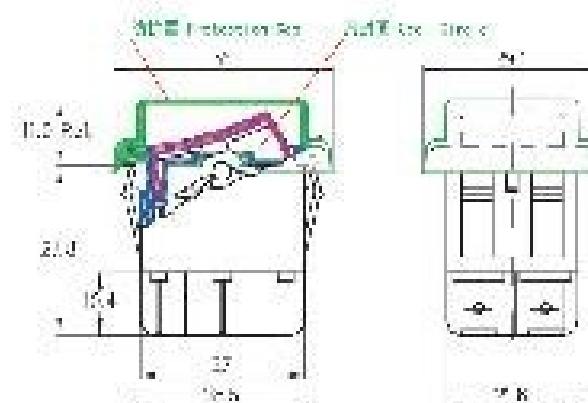
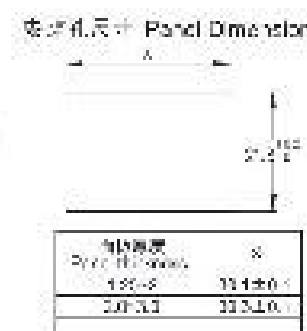
- | | |
|--|--------------|
| → 额定耐久寿命 (rated life expectancy) | 245F4 / 1F |
| → 电气耐久寿命 (electrical life expectancy) | 245E4 / 5E |
| → 最大平均电流 (maximum current at 25°C) | 48A / 50A |
| → 最大平均电流 (maximum current at 125°C) | 48A / 108A |
| → 接触电阻 (contact resistance) | 8.00 mΩ / 0F |
| → 绝缘电阻 (insulation resistance) | 570A Ohm |
| → 基本介电强度 (dielectric strength of insulation) | 1500V |
| → 加强介电强度 (dielectric strength of reinforced) | 3000V |
| → 环境温度 (ambient temperature) | 0°C ~ 105°C |
| → 额定结温 (rated temperature) | 0°C ~ 65°C |
| → 额定等级 (rated life) | UL 818V-0 |
| → 额定等级 (Protection type) | IP65 / Max |
| → 使用手册 (manual) 目录 (index for significance of notation class II) | |

的半期 $\frac{1}{2} \pi$ 的奇数倍

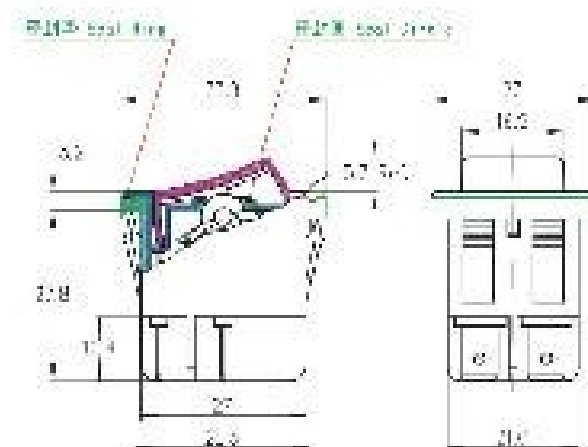
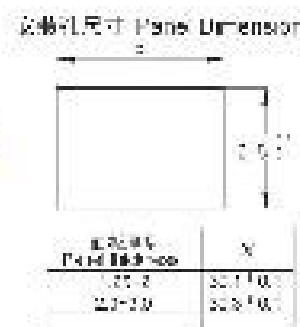
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- 切片大小: 10g in remainder: 3.383.3.3m
- 切片大小: 10g in remainder: 4.883.3.3m
- 切片大小: 10g in remainder: 10g
- 切片大小: 10g in remainder: 10g

모델 Model	범위 Range	REFERENCE / Standard and Approvals			
		10A/0.5S 	FN100S 	ENC100 	ER100Z 
RE-04	최소 / min.	100mA / 127V~110V 10A / 127V~110V 125W/d	100mA/250V~	100mA/250V~1414V/250V/125W/d	100mA/250V~
	최대 / max.	200mA / 127V~110V 10A / 127V~125W 300W/d	1516V/250V~	200V/250V~1414V/250V/125W/d	100V/150V

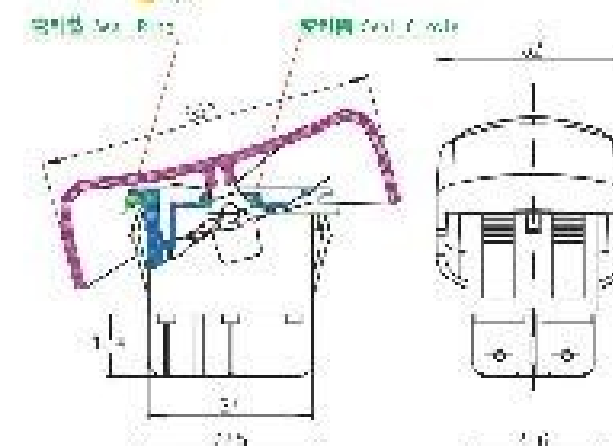
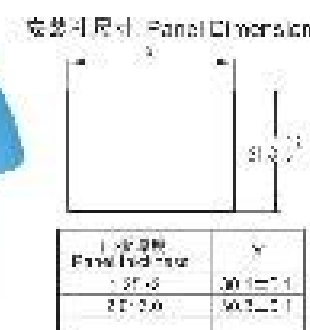
RSD#-E-2118A-D-C2



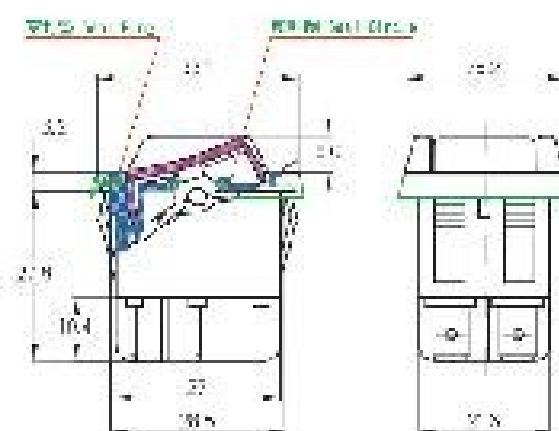
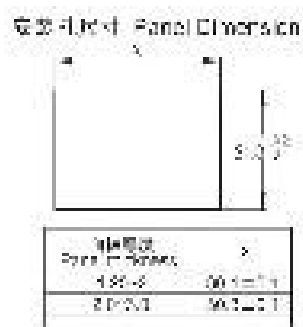
RE04-B-2116A-U1-21



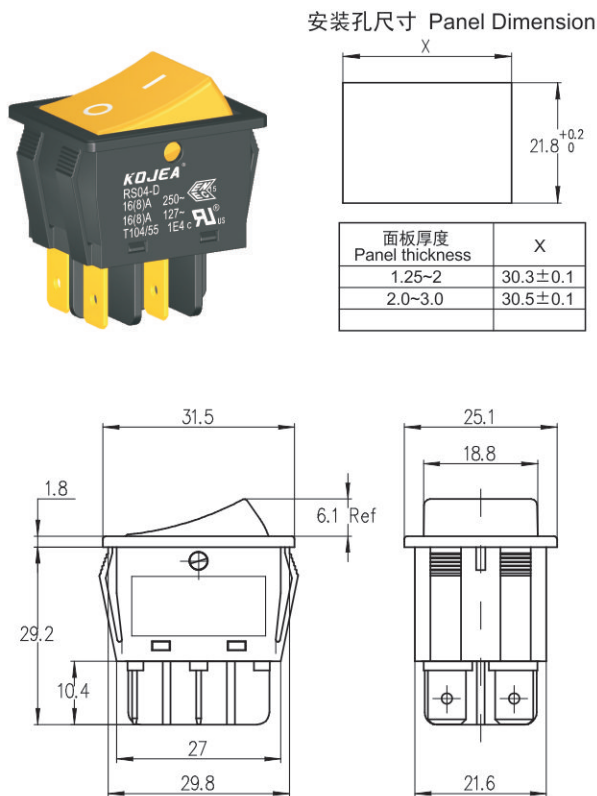
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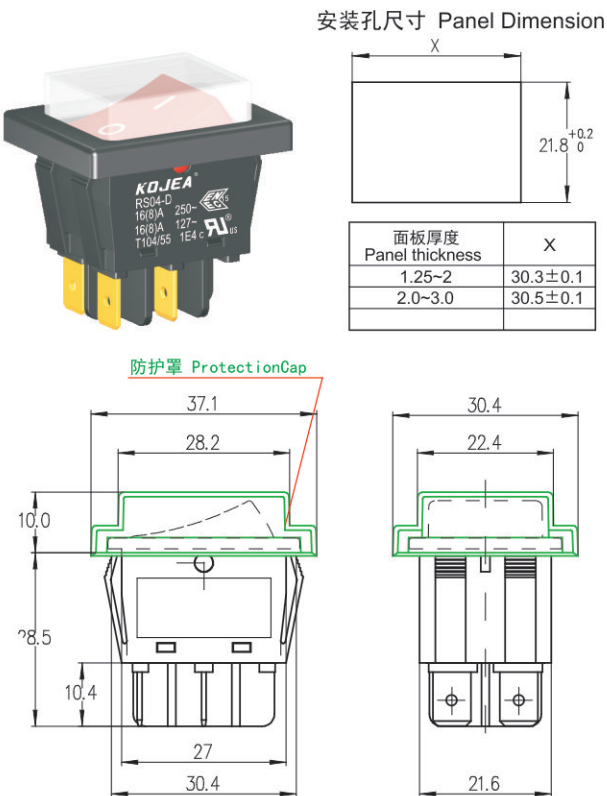
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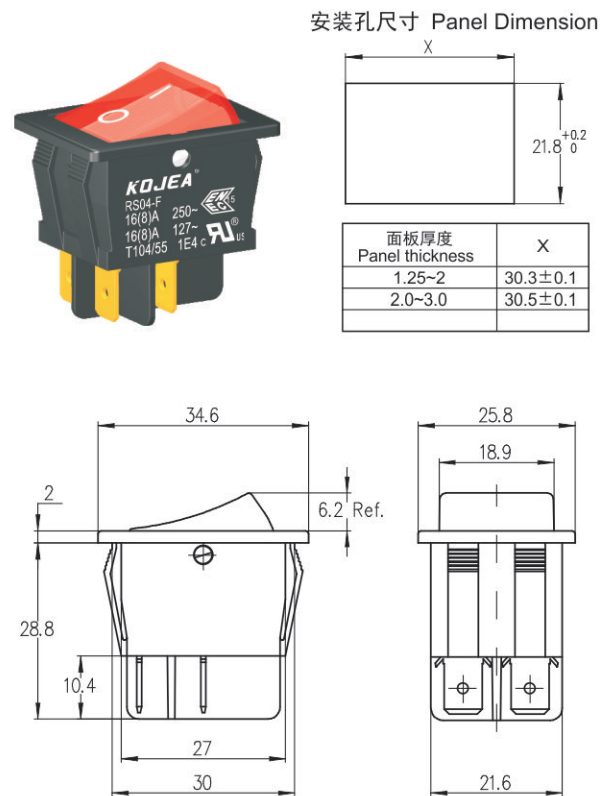
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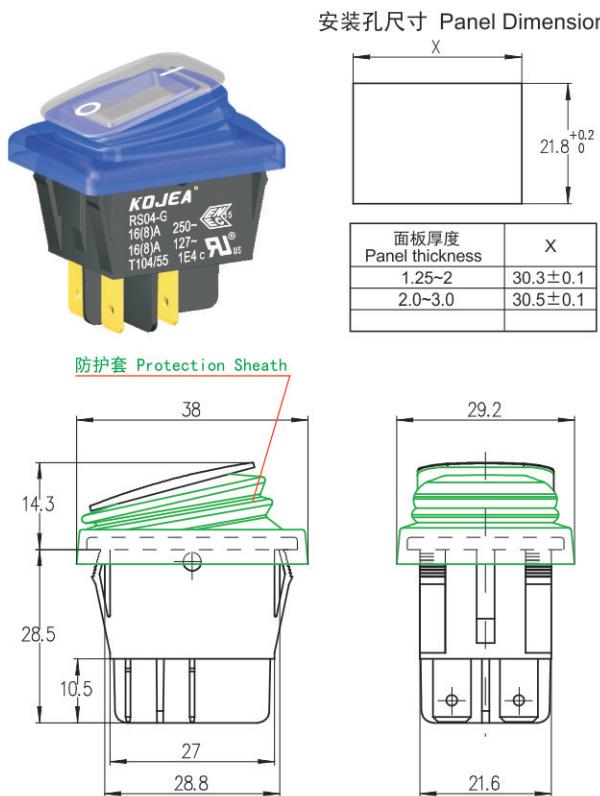
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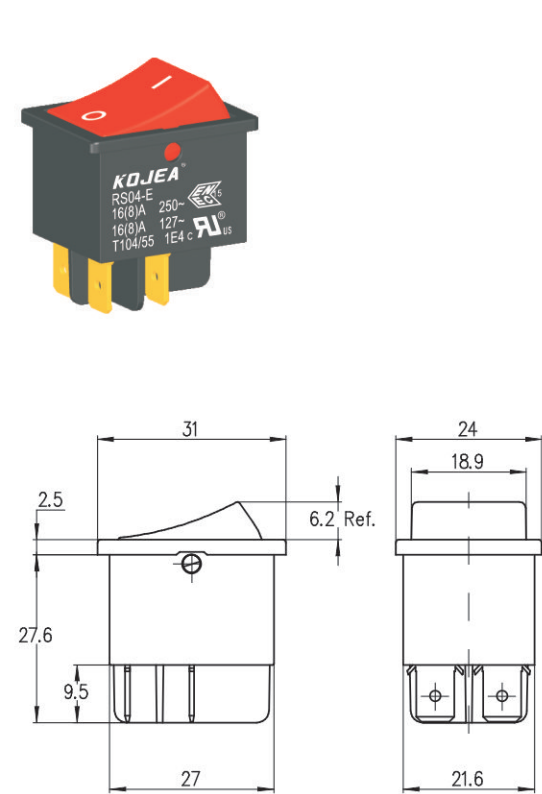
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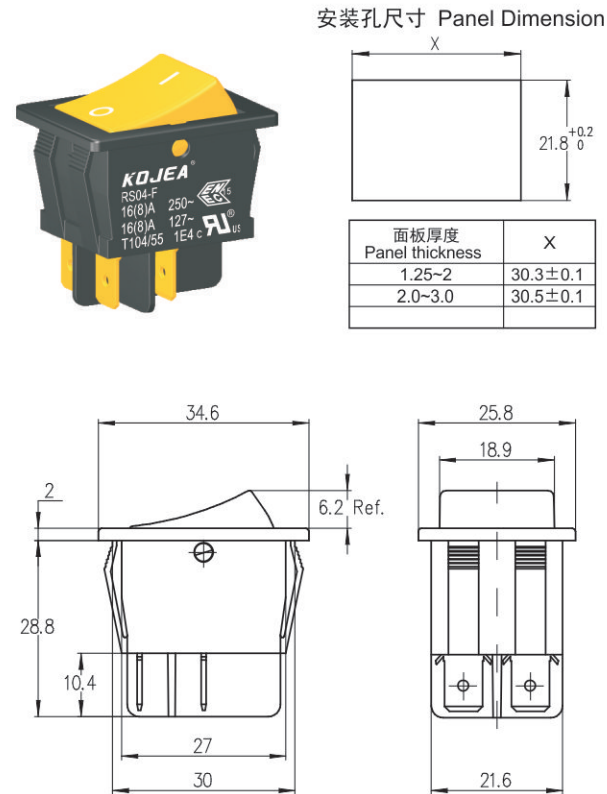
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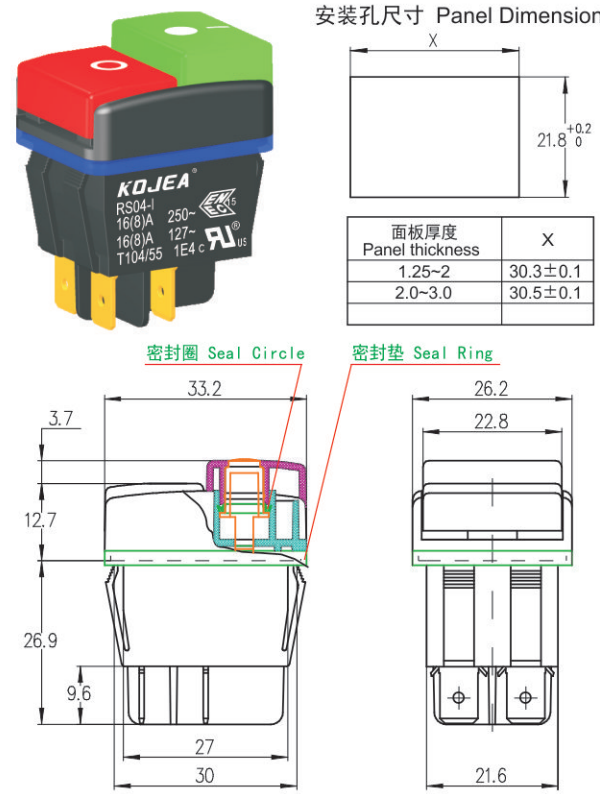
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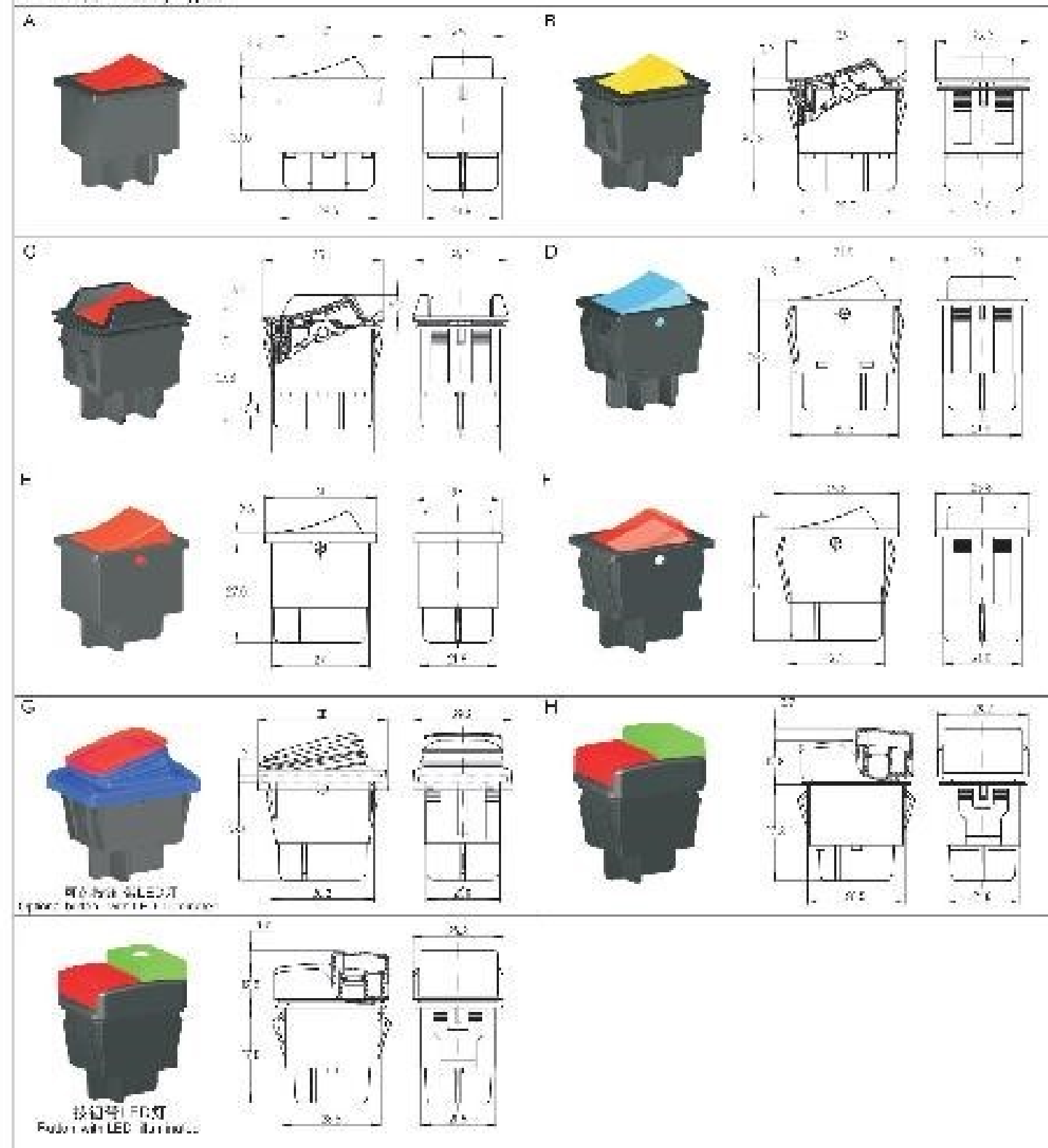
RS04-I-21L16A-G1-V3



订货信息 Ordering Information

RS 04 - A - 21 18 A - D 1 - 01
I II III IV V VI VII

I. 主体型号 / Body Types



I. 功能类型 / Function Types

21 双极单掷 DPST LED 指示灯 LED Indicator	21M 双极单掷带指示灯方式 DPST with Indicator	21L 带 LED 指示灯 LED Indicator	21XL 带 LED 指示灯 LED Indicator	21XF 带 LED 指示灯 LED Indicator
22 双极双掷 DPDT	22M 双极双掷带指示灯方式 DPDT with Indicator	23 双极双掷带指示灯方式 DPDT with Indicator	23M 双极双掷带指示灯方式 DPDT with Indicator	23N 双极双掷带指示灯方式 DPDT with Indicator
11 单极单掷 SPST	12 二极双掷 SPDT	13 单极双掷带指示灯方式 SPDT with Indicator	13M 单极双掷带指示灯方式 SPDT with Indicator	

II. 电气参数 - 交流或直流 / Electrical Ratings - AC or DC (CQC, ENEC and UL Approval)

10	12	14	16	18	20
10(10)A 250V~ 10(10)A 127V~ 10A 0.60Vdc T85/55 1F4	12(12)A 250V~ 12(12)A 127V~ 12A 0.60Vdc T85/55 1F4	14(14)A 250V~ 14(14)A 127V~ 14A 0.60Vdc T105/55 1F4	16(16)A 250V~ 16(16)A 127V~ 16A 0.60Vdc T105/55 1F4	18(18)A 250V~ 18(18)A 127V~ 18A 0.60Vdc T105/55 1F4	20(20)A 250V~ 20(20)A 127V~ 20A 0.60Vdc T105/55 1F4

II. 电气参数 - 交流 (ENEC 和 UL 认证) / Electrical Ratings - AC (ENEC and UL Approval)

10	12	14	16	18
10(10)A 250V~ 10(10)A 127V~ 10A 0.60Vdc T85/55 5E4	12(12)A 250V~ 12(12)A 127V~ 12A 0.60Vdc T105/55 5E4	14(14)A 250V~ 14(14)A 127V~ 14A 0.60Vdc T105/55 5E4	16(16)A 250V~ 16(16)A 127V~ 16A 0.60Vdc T105/55 5E4	18(18)A 250V~ 18(18)A 127V~ 18A 0.60Vdc T105/55 5E4

II. 电气参数 (TUV 认证) - 适合各类型、直流的园林工具 / Electrical Ratings (TUV Approval) For AC and DC Gardening Tools

8T	10T	12T	14T	15T
8(8)A 250V~ 10A 30Vdc T85/55 5E4	10(10)A 250V~ 14A 30Vdc T85/55 5E4	12(12)A 250V~ 16A 30Vdc T85/55 5E4	14(14)A 250V~ 18A 30Vdc T85/55 5E4	15(15)A 250V~ 20A 30Vdc T85/55 5E4

IV: 端子类型 / Terminal Types					
A	A2	B	C	D	E
插片式 6.3×0.8 Plug-in Type	插片式 6.3×0.8 Plug-in Type	插片式 48×0.8 Plug-in Type	焊接式 48×0.8 Soldering Type	焊接式 48×0.8 Soldering Type	焊接式 48×0.8 Soldering Type

V: 按钮类型 / Buttons Types					
D	DL 带LED灯按钮 LED illuminated button	H	J	K	M
N	P	Q	X	Y	Z

VI: 按钮标识 / Makings on Button					
1	2	3	4	5	6
7	8	9	10	11	12
14	15				

VI: 按钮标识 / Makings on Button (只适用于按钮 M / For Button M only)					
2	3	4	5	7	8
14	20				

VI: 按钮标识 / Makings on Button (只适用于按钮 N / For Button N only)					
2	3	4	5	7	8
14	20				

VI: 按钮标识 / Makings on Button (只适用于按钮 G / For Button G only)					
1	2	4	11	14	

VI: 附件 / Accessories					
C1	C2	C3	C4	C5	
防护罩 Protection Cap	防护罩 Protection Cap	防护罩 Protection Cap	防护罩 Protection Cap	防护罩 Protection Cap	
V1	V2	V3	O	S1	
密封圈 Seal Ring	密封圈 Seal Ring	密封圈 Seal Ring	密封圈 Seal Ring	防护套 Protection Sheath	