

防爆合格证

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY



国家防爆

Manufacturer R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

Product Load and motor switch

Type 8544/1-**

Marking Ex db eb IIC Gb

Standard(s) --

Drawing No. 8544 0 000 002 0

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

- GB/T3836.1-2021 Explosive atmospheres - Part 1: Equipment - General requirements
- GB/T 3836.2-2021 Explosive atmospheres - Part 2: Equipment protection by flameproof enclosures "d"
- GB/T3836.3-2021 Explosive atmospheres - Part 3: Equipment protection by increased safety "e"

Note:
See Annex (2 pages in total).

Director

Date: 2024-05-21

Valid until: 2029-05-20



南阳防爆电气研究所有限公司
NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE
国家防爆电气产品质量检验检测中心
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1. This product has been IECEx certified, certificate No. IECEx PTB 09.0011U, issue 1, dated on 2012-01-27.

2. Nomenclature:

8544	/	1	-	*	*
a	/	b	-	c	d

a: Type series

b: Version: 1

c: Number of poles

3=3P

4=3P+N

d: additional information without reference to explosion-protection

3. Technical data:

Rated insulation voltage	800V	
Rated operating voltage	Main contacts	up to 690V
	Aux. contacts	up to 500V
The switch for the auxiliary contacts is also suitable for the connection of circuits in Intrinsic safety.		

4. Rated limit values:

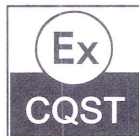
Rated operating voltage up to	500V	690V	220V	220V	Main contacts
Rated current up to	80A	63A	80A	80A	
Utilisation category	AC 3	AC 3	DC 1	DC 23	Auxiliary contacts
Rated current up to	6A	6A	6A		

Provided the making and breaking capacities are met, rated values other than those specified above are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

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5. Rated terminal cross-section:

Main contacts	6 mm ² up to 10 mm ² (AWG 10 up to AWG 8) with insertion profile single-wire and finely stranded
	16 mm ² up to 50 mm ² (AWG 6 up to AWG 1/0) multi stranded and finely stranded
	2×50 mm ² with cable lug (AWG 1/0)
Auxiliary contacts	1.5 mm ² up to 2.5 mm ² (AWG 14) single-wire and finely stranded
Gripping terminal	0.5 mm ² up to 10 mm ² (AWG 20 up to AWG 8) single-wire and finely stranded

6. Suited for temperature class:

T6 at 80A, T_{amb}≤60℃T5 at 80A, T_{amb}≤75℃

7. Specific conditions of use:

- Service temperature range: -50℃ to +80℃.
- The load and motor switch type 8544/1-** shall be installed in an enclosure that meets the requirements of an approved type of protection as specified in GB/T 3836.1 section 1.
- When installing the load and motor switch type 8544/1-** is installed into an enclosure designed to type of protection Increased safety“e” as specified in GB/T 3836.3, the clearance and creepage distances given in section 4.3, section 4.4 shall duly be considered.
- When the load and motor switch type 8544/1-** is operated with intrinsic safe circuits, an additional warning plate is to be provided: “Only for intrinsic safe circuits!”

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制造单位 R. STAHL Schaltgeräte GmbH
 Am Bahnhof 30, 74638 Waldenburg, Germany

产品名称 防爆负荷和马达开关

型号规格 8544/1-**

防爆标志 Ex db eb IIC Gb

产品标准 --

总装图号 8544 0 000 002 0

经对上述产品图样及技术文件的审查和样品检验,确认符合下列标准:
 GB/T 3836.1-2021 《爆炸性环境 第1部分:设备 通用要求》
 GB/T 3836.2-2021 《爆炸性环境 第2部分:由隔爆外壳“d”保护的设备》
 GB/T 3836.3-2021 《爆炸性环境 第3部分:由增安型“e”保护的设备》

记事:见附页(共2页)。

中心主任

颁发日期

2024年06月05日

本证有效期

2024年06月05日至2029年06月04日



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1. 本产品已取得 IECEx 认证, 证书号: IECEx PTB 09.0011U, issue1, 2012-01-27 颁发。
2. 命名规则

8544	/	1	-	*	*
a	/	b	-	c	d

- a: 系列型号
- b: 版本: 1
- c: 极数
3=3P
4=3P+N
- d: 附加代码 (与防爆无关)

3. 技术参数:

额定绝缘电压	800V	
额定工作电压	主触点	最高 690V
	辅助触点	最高 500V
辅助触点开关也适用于本质安全电路的连接		

4. 额定限值:

额定工作电压 (最高)	500V	690V	220V	220V	主触点
额定电流 (最大)	80A	63A	80A	80A	
使用类别	AC 3	AC 3	DC 1	DC 23	辅助触点
额定电流 (最大)	6A	6A	6A		

如果满足接通和分断能力, 上述规定以外的额定值是可以接受的, 并将由制造商根据运行模式、使用类别等来定义。

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5. 端子额定横截面积:

主触点	6 mm ² ~10 mm ² (AWG 10~ AWG 8) 单芯或细绞线
	16 mm ² ~50 mm ² (AWG 6~ AWG 1/0) 多芯或细绞线
	2 × 50 mm ² (AWG 1/0) 电缆接线片
辅助触点	1.5 mm ² ~2.5 mm ² (AWG 14) 单芯或细绞线
分接端子	0.5 mm ² ~10 mm ² (AWG 20~ AWG 8) 单芯或细绞线

6. 适用的温度组别:

T6: 80A, Tamb≤60℃

T5: 80A, Tamb≤75℃

7. 特殊使用条件:

- 工作温度: -50℃~+80℃。
- 防爆负荷和马达开关 8544/1-**应安装在符合 GB/T 3836.1 第 1 章规定的相应保护型式的外壳中。
- 防爆负荷和马达开关 8544/1-**安装在增安型外壳内时, 电气间隙和爬电距离应满足 GB/T 3836.3 第 4.3、4.4 条中的要求。
- 防爆负荷和马达开关 8544/1-**用于本安电路时, 应设置警告牌: “仅适用于本质安全电路!”。

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