



LW5D 万能转换开关

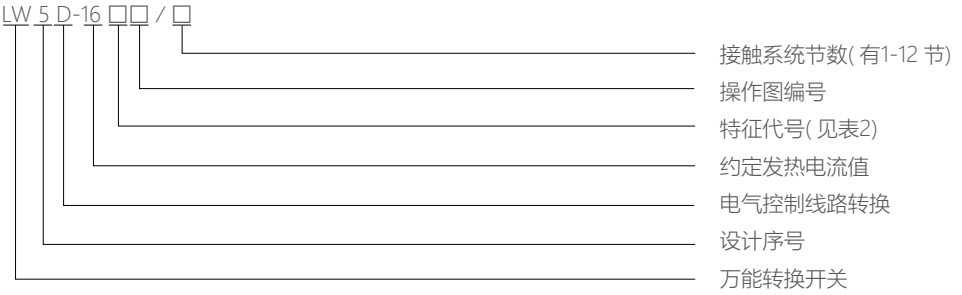
1 产品概述

LW5D 系列万能转换开关主要适用于交流 50Hz、电压 380V，直流电压 220V 的电路中转换电气控制线路（电磁线圈、电气测量仪表和伺服电动机等），也可直接控制 5.5kW 三相鼠笼型感应电动机（启动、可逆转换、变速）。

符合标准：GB/T 14048.5、IEC 60947-5-1。

2 型号及含义

2.1 主令控制用时型号



2.2 直接控制电动机时型号



3 正常使用、安装与运输、贮存条件

3.1 周围空气温度

周围温度的上限值不超过+40℃，下限值不低于-5℃；且24h 的平均温度不超过+35℃。

3.2 海拔高度

安装地点海拔不超过2000m。

3.3 大气条件

3.3.1 湿度

最高温度为+40℃时，空气相对湿度不得超过50%，比较低温度下允许有较高的相对湿度，例如+20℃时湿度达90%，对由于温度变化偶尔产生的凝露应采取特殊的措施。

3.3.2 污染等级：3 级。

3.4 安装条件

安装在无显著摇动、冲击振动和没有雨雪侵袭的地方；无爆炸危险的介质中；无足以腐蚀金属和破坏绝缘的地方(包括导电尘埃)；安装类别为Ⅲ类。

4 主要参数及技术性能

表 1

| 项目 | AC-15 | DC-13 | AC-3 |
|--------|-------|-------|------|
| Ue(V) | 380 | 220 | 380 |
| Ie(A) | 2.6 | 0.27 | 11 |
| Ui(V) | 550 | | |
| Ith(A) | 16 | | |

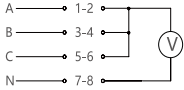
5 其它

表 2

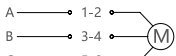
| 操作型式 | 特征代号 | 操作器位置 | | | | | | | | | | | |
|------|-------|-----------------------------------|------|-------|-----|-------|------|--------|------|--------|------|--------|------|
| 自复型 | A | 0° ← 45° | | | | | | | | | | | |
| | B | 45°→ 0° ← 45° | | | | | | | | | | | |
| | C | 0° 45° | | | | | | | | | | | |
| | D(TD) | 45° 0° 45° | | | | | | | | | | | |
| | E | 45° 0° 45° 90° | | | | | | | | | | | |
| | F | 90° 45° 0° 45° 90° | | | | | | | | | | | |
| | G | 90° 45° 0° 45° 90° 135° | | | | | | | | | | | |
| | H | 135° 90° 45° 0° 45° 90° 135° | | | | | | | | | | | |
| 定位型 | I | 135° 90° 45° 0° 45° 90° 135° 180° | | | | | | | | | | | |
| | J | 120° | 90° | 60° | 30° | 0° | 30° | 60° | 90° | 120° | | | |
| | K | 120° | 90° | 60° | 30° | 0° | 30° | 60° | 90° | 120° | 150° | | |
| | L | 150° | 120° | 90° | 60° | 30° | 0° | 30° | 60° | 90° | 120° | 150° | |
| | M | 150° | 120° | 90° | 60° | 30° | 0° | 30° | 60° | 90° | 120° | 150° | 180° |
| | N | 45° 45° | | | | | | | | | | | |
| | P | 90° 0° 90° | | | | | | | | | | | |
| | YH | 0° 90° 180° 270° | | | | | | | | | | | |
| | | 135° | 90° | 45° | 0° | 45° | 90° | 135° | | | | | |
| | LH | 0° 90° 180° 270° | | | | | | | | | | | |
| | TM | 30° | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° |
| | | 30° | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | | |
| | | 45° | 0° | 45° | 90° | 135° | 180° | 225° | 270° | | | | |
| | | 45° | 0° | 45° | 90° | 135° | 180° | | | | | | |
| | | 22.5° | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |

- 5.1 按操作方式与操动器位置组合分类
- 5.2 分类
- 5.2.1 按用途分有主令控制用和直接控制5.5kW 电动机用两种；
- 5.2.2 按操作方式分有定位型和自复型两种；
- 5.2.3 按接触系统节数分有1~12 节，共12 种。
- 附：LW5D-16 系列电压，电流测量转换开关和常用控制开关接线图

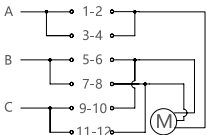
相电压测量开关

| LW5D-16 YH1/2 | | 0° | UAN | UBN | UCN |
|---|-----|----|-----|------|------|
| LW112-16/9.YH1.2 | | 0° | 90° | 180° | 270° |
|  | 1-2 | | x | | |
| | 3-4 | | | x | |
| | 5-6 | | | | x |
| | 7-8 | | x | x | x |

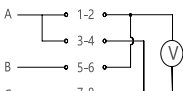
电机直接起动开关

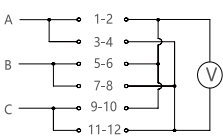
| LW5D-16 5.5Q/2 | | 0° | 45° |
|---|-----|----|-----|
| LW112-16/4.5.5.Q.2 | | | |
|  | 1-2 | | x |
| | 3-4 | | x |
| | 5-6 | | x |

可逆转换开关

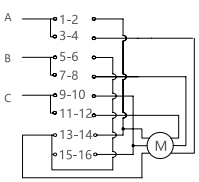
| LW5D-16 5.5N/3 | | 45° | 0° | 45° |
|---|-------|-----|----|-----|
| LW112-16/4.5.5N.3 | | | | |
|  | 1-2 | x | | x |
| | 3-4 | x | | x |
| | 5-6 | x | | |
| | 7-8 | | | x |
| | 9-10 | | | x |
| | 11-12 | x | | |

线电压测量开关

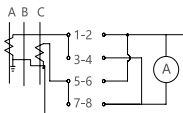
| LW5D-16 YH2/2 | | 0 | UAB | UBC | UCA |
|---|-----|----|-----|------|------|
| LW112-16/9.YH2.2 | | 0° | 90° | 180° | 270° |
|  | 1-2 | | | | x |
| | 3-4 | | x | | |
| | 5-6 | | x | x | |
| | 7-8 | | | x | x |

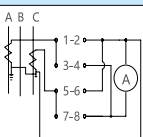
| LW5D-16 YH3/3 | | 0 | UAB | UBC | UCA |
|--|-------|----|-----|------|------|
| LW112-16/9.YH3.3 | | 0° | 90° | 180° | 270° |
|  | 1-2 | | x | | |
| | 3-4 | | | | x |
| | 5-6 | | | x | |
| | 7-8 | | x | | |
| | 9-10 | | | | x |
| | 11-12 | | | x | |

双速电机变速开关

| LW5D-16 5.5S/4 | | 45° | 0° | 45° |
|---|-------|-----|----|-----|
| LW112-16/4.5.5S.4 | | | | |
|  | 1-2 | x | | |
| | 3-4 | | | x |
| | 5-6 | x | | |
| | 7-8 | | | x |
| | 9-10 | x | | |
| | 11-12 | | | x |
| | 13-14 | | | x |
| | 15-16 | | | x |

电流测量开关

| LW5D-16 LH1/2 | | IA | | IB | | IC |
|---|-----|-----|---|----|---|-----|
| LW112-16/9.LH1.2 | | 90° | | 0° | | 90° |
|  | 1-2 | | | | x | x |
| | 3-4 | x | x | x | x | |
| | 5-6 | x | x | | | |
| | 7-8 | | x | x | x | x |

| LW5D-16 LH2/2 | | 0 | IA | | IB | | IC | |
|---|-----|----|----|-----|----|------|----|------|
| LW112-16/9.LH2.2 | | 0° | | 90° | | 180° | | 270° |
|  | 1-2 | x | x | | | | x | x |
| | 3-4 | | x | x | x | x | | |
| | 5-6 | x | x | x | x | | | x |
| | 7-8 | | | | x | x | x | x |

| LW5D-16 LH3/3 | | 0 | | IA | | IB | | IC | |
|------------------|-------|----|---|-----|---|------|---|------|---|
| LW112-16/9.LH3.3 | | 0° | | 90° | | 180° | | 270° | |
| | 1-2 | x | x | | x | x | x | x | x |
| | 3-4 | | x | x | x | | | | |
| | 5-6 | x | x | x | x | | x | x | x |
| | 7-8 | | | | x | x | x | | |
| | 9-10 | x | x | x | x | x | x | | x |
| | 11-12 | | | | | | x | x | x |

双速电机变速可逆开关

| LW5D-16 5.5SN/6 | | 135° | 90° | 45° | 0° | 45° | 90° | 135° | 180° |
|---------------------|-------|------|-----|-----|----|-----|-----|------|------|
| LW112-16/4. 5.5SN.6 | | | | | | | | | |
| | 1-2 | | | x | | | | | |
| | 3-4 | | | | | x | | | |
| | 5-6 | | | x | | | | | |
| | 7-8 | | | | | x | | | |
| | 9-10 | x | | | | | | x | |
| | 11-12 | x | | | | | | x | |
| | 13-14 | | | x | | x | | | |
| | 15-16 | x | | | | | | x | |
| | 17-18 | x | | | | | | | |
| | 19-20 | | | | | | | x | |
| | 21-22 | x | | | | | | | |
| | 23-24 | | | | | | | x | |

电流测量开关

| LW5D-16 LH5/4 | | 0 | | IA | | IB | | IC | |
|------------------|-------|----|---|-----|---|------|---|------|---|
| LW112-16/9.LH5.4 | | 0° | | 90° | | 180° | | 270° | |
| | 1-2 | x | x | | x | x | x | x | x |
| | 3-4 | x | x | x | x | | x | x | x |
| | 5-6 | x | x | x | x | x | x | | x |
| | 7-8 | | x | x | x | x | x | x | x |
| | 9-10 | | | | | | x | x | x |
| | 11-12 | | | | x | x | x | | |
| | 13-14 | | x | x | x | | | | |
| | 15-16 | x | x | | | | | | x |

部分通用接点图

| 型号 | 标号 | 45° | 45° | 节数 |
|------------------|-------|-----|-----|------|
| LW5D-16 N0296/1 | 1-2 | × | | 1 节 |
| | 3-4 | | × | |
| LW5D-16 N0608/2 | 5-6 | × | | 2 节 |
| | 7-8 | | × | |
| LW5D-16 N5938/3 | 9-10 | × | | 3 节 |
| | 11-12 | | × | |
| LW5D-16 N1255/4 | 13-14 | × | | 4 节 |
| | 15-16 | | × | |
| LW5D-16 N6576/5 | 17-18 | × | | 5 节 |
| | 19-20 | | × | |
| LW5D-16 N0629/6 | 21-22 | × | | 6 节 |
| | 23-24 | | × | |
| LW5D-16 N7217/7 | 25-26 | × | | 7 节 |
| | 27-28 | | × | |
| 特 LW5D-16/8 N | 29-30 | × | | 8 节 |
| | 31-32 | | × | |
| 特 LW5D-16/9 N | 33-34 | × | | 9 节 |
| | 35-36 | | × | |
| 特 LW5D-16/10 N | 37-38 | × | | 10 节 |
| | 39-40 | | × | |
| 特 LW5D-16/11 N | 41-42 | × | | 11 节 |
| | 43-44 | | × | |
| LW5D-16 N1212/12 | 45-46 | × | | 12 节 |
| | 47-48 | | × | |

| 型号 | 标号 | 45° | 45° | 节数 |
|------------------|-------|-----|-----|------|
| LW5D-16 C0071/1 | 1-2 | | × | 1 节 |
| | 3-4 | | × | |
| LW5D-16 C5391/2 | 5-6 | | × | 2 节 |
| | 7-8 | | × | |
| LW5D-16 C5714/3 | 9-10 | | × | 3 节 |
| | 11-12 | | × | |
| LW5D-16 C6031/4 | 13-14 | | × | 4 节 |
| | 15-16 | | × | |
| LW5D-16 C6351/5 | 17-18 | | × | 5 节 |
| | 19-20 | | × | |
| LW5D-16 C6671/6 | 21-22 | | × | 6 节 |
| | 23-24 | | × | |
| LW5D-16 C6991/7 | 25-26 | | × | 7 节 |
| | 27-28 | | × | |
| LW5D-16 C7312/8 | 29-30 | | × | 8 节 |
| | 31-32 | | × | |
| 特 LW5D-16/9 C | 33-34 | | × | 9 节 |
| | 35-36 | | × | |
| LW5D-16 C7892/10 | 37-38 | | × | 10 节 |
| | 39-40 | | × | |
| 特 LW5D-16/11 C | 41-42 | | × | 11 节 |
| | 43-44 | | × | |
| 特 LW5D-16/12 C | 45-46 | | × | 12 节 |
| | 47-48 | | × | |

| 型号 | 标号 | 45° | 0° | 45° | 节数 |
|------------------|-------|-----|----|-----|------|
| LW5D-16 D0083/1 | 1-2 | x | | | 1 节 |
| | 3-4 | | | x | |
| LW5D-16 D0414/2 | 5-6 | x | | | 2 节 |
| | 7-8 | | | x | |
| LW5D-16 D0723/3 | 9-10 | x | | | 3 节 |
| | 11-12 | | | x | |
| LW5D-16 D1050/4 | 13-14 | x | | | 4 节 |
| | 15-16 | | | x | |
| LW5D-16 D1369/5 | 17-18 | x | | | 5 节 |
| | 19-20 | | | x | |
| LW5D-16 D1689/6 | 21-22 | x | | | 6 节 |
| | 23-24 | | | x | |
| LW5D-16 D2002/7 | 25-26 | x | | | 7 节 |
| | 27-28 | | | x | |
| LW5D-16 D2324/8 | 29-30 | x | | | 8 节 |
| | 31-32 | | | x | |
| LW5D-16 D7621/9 | 33-34 | x | | | 9 节 |
| | 35-36 | | | x | |
| LW5D-16 D7902/10 | 37-38 | x | | | 10 节 |
| | 39-40 | | | x | |
| 特 LW5D-16/11 D | 41-42 | x | | | 11 节 |
| | 43-44 | | | x | |
| LW5D-16 D3462/12 | 45-46 | x | | | 12 节 |
| | 47-48 | | | x | |

注1: 接触系统节数为8 及以上, 转换角度可能根据实际情况调整为90°;

注2: 如型号为带“特”的产品, 下单时应备注“按样本接点图”。

| 型号 | 标号 | 45° | 0° | 45° | 节数 |
|-------------------|-------|-----|----|-----|------|
| LW5D-16 D111/2 | 1-2 | x | | | 1 节 |
| | 3-4 | | x | | |
| | 5-6 | | | x | |
| LW5D-16 D222/3 | 7-8 | x | | | 2 节 |
| | 9-10 | | x | | |
| | 11-12 | | | x | |
| LW5D-16 D333/5 | 13-14 | x | | | 4 节 |
| | 15-16 | | x | | |
| | 17-18 | | | x | |
| LW5D-16 D444/6 | 19-20 | x | | | 5 节 |
| | 21-22 | | x | | |
| | 23-24 | | | x | |
| LW5D-16 D555/8 | 25-26 | x | | | 7 节 |
| | 27-28 | | x | | |
| | 29-30 | | | x | |
| 特 LW5D-16/9 D666 | 31-32 | x | | | 8 节 |
| | 33-34 | | x | | |
| | 35-36 | | | x | |
| 特 LW5D-16/11 D777 | 37-38 | x | | | 10 节 |
| | 39-40 | | x | | |
| | 41-42 | | | x | |
| 特 LW5D-16/12 D888 | 43-44 | x | | | 11 节 |
| | 45-46 | | x | | |
| | 47-48 | | | x | |

| 型号 | 标号 | 0° | 45° | 90° | 135° | 180° | 节数 |
|-----------------|-------|----|-----|-----|------|------|------|
| 特 LW5D-16/2F | 1-2 | | x | | | | 1 节 |
| | 3-4 | | | x | | | |
| | 5-6 | | | | x | | 2 节 |
| | 7-8 | | | | | x | |
| LW5D-16 F6166/4 | 9-10 | | x | | | | 3 节 |
| | 11-12 | | | x | | | |
| | 13-14 | | | | x | | 4 节 |
| | 15-16 | | | | | x | |
| 特 LW5D-16/6F | 17-18 | | x | | | | 5 节 |
| | 19-20 | | | x | | | |
| | 21-22 | | | | x | | 6 节 |
| | 23-24 | | | | | x | |
| 特 LW5D-16/8F | 25-26 | | x | | | | 7 节 |
| | 27-28 | | | x | | | |
| | 29-30 | | | | x | | 8 节 |
| | 31-32 | | | | | x | |
| 特 LW5D-16/10F | 33-34 | | x | | | | 9 节 |
| | 35-36 | | | x | | | |
| | 37-38 | | | | x | | 10 节 |
| | 39-40 | | | | | x | |
| 特 LW5D-16/12F | 41-42 | | x | | | | 11 节 |
| | 43-44 | | | x | | | |
| | 45-46 | | | | x | | 12 节 |
| | 47-48 | | | | | x | |

备注: “特”为特殊开关产品, 应按图纸订做。下单时请备注“按样本接点图”。

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电容柜主柜有自动、停、手动切换转换开关

| 型号 | 标号 | 自动 | 停 | 手动 | 节数 |
|------------------|-------|-----|----|-----|------|
| | | 45° | 0° | 45° | |
| LW5D-16 TD710/1 | 1-2 | | | × | 1 节 |
| | 3-4 | × | | | |
| LW5D-16 TD710/2 | 5-6 | × | | | 2 节 |
| | 7-8 | × | | | |
| LW5D-16 TD710/3 | 9-10 | × | | | 3 节 |
| | 11-12 | × | | | |
| LW5D-16 TD710/4 | 13-14 | × | | | 4 节 |
| | 15-16 | × | | | |
| LW5D-16 TD710/5 | 17-18 | × | | | 5 节 |
| | 19-20 | × | | | |
| LW5D-16 TD710/6 | 21-22 | × | | | 6 节 |
| | 23-24 | × | | | |
| LW5D-16 TD710/7 | 25-26 | × | | | 7 节 |
| | 27-28 | × | | | |
| LW5D-16 TD710/8 | 29-30 | × | | | 8 节 |
| | 31-32 | × | | | |
| LW5D-16 TD710/9 | 33-34 | × | | | 9 节 |
| | 35-36 | × | | | |
| LW5D-16 TD710/10 | 37-38 | × | | | 10 节 |
| | 39-40 | × | | | |

注：接触系统节数为8 及以上，转换角度可能根据实际情况调整为90°。

电容器主柜有零位、自动、手动切换转换开关

| | | | | | A | | B | | C | | D | | E | | F | | | |
|-----------------|-------|----|---|----|---|---|---|---|---|---|---|---|----|----|----|-----|--------------------|--|
| 型号 | 标号 | 自动 | 停 | 手动 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 节数 | 备注 | |
| | 1-2 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | 1 节 | | |
| | 3-4 | x | | | | | | | | | | | | | | | | |
| | 5-6 | x | | | | | | | | | | | | | | 2 节 | | |
| | 7-8 | | x | x | x | x | x | x | x | x | x | x | x | x | x | | | |
| LW5D-16 TM703/3 | 9-10 | | | | x | x | x | x | x | x | x | x | x | x | x | 3 节 | A: 电容器 主柜 2 回路 | |
| | 11-12 | | | | | x | x | x | x | x | x | x | x | x | x | | | |
| LW5D-16 TM704/4 | 13-14 | | | | | | x | x | x | x | x | x | x | x | x | 4 节 | B: 电容器 主柜 4 回路 | |
| | 15-16 | | | | | | | x | x | x | x | x | x | x | x | | | |
| LW5D-16 TM705/5 | 17-18 | | | | | | | | x | x | x | x | x | x | x | 5 节 | C: 电容器 主柜 6 回路 | |
| | 19-20 | | | | | | | | | x | x | x | x | x | x | | | |
| LW5D-16 TM706/6 | 21-22 | | | | | | | | | | x | x | x | x | x | 6 节 | D: 电容器 主柜 8 回路 | |
| | 23-24 | | | | | | | | | | | x | x | x | x | | | |
| LW5D-16 TM707/7 | 25-26 | | | | | | | | | | | | x | x | x | 7 节 | E: 电容器 主柜 10 回路 | |
| | 27-28 | | | | | | | | | | | | | x | x | | | |
| LW5D-16 TM708/8 | 29-30 | | | | | | | | | | | | | | x | 8 节 | F: 电容器 主柜 12 回路 | |
| | 31-32 | | | | | | | | | | | | | | | | | |

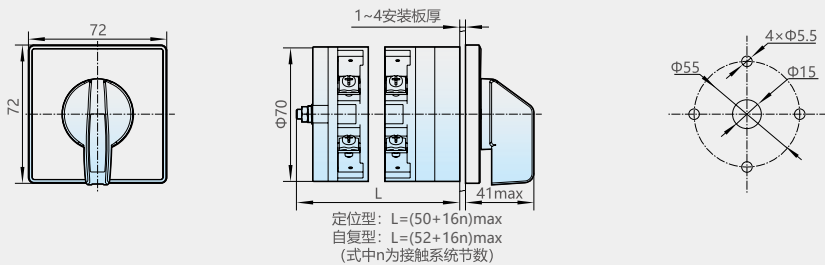
电容器辅柜转换开关

| | | | | A | B | | C | | D | | E | | F | | | |
|-----------------|-------|---|----|---|---|---|---|---|---|---|---|----|----|----|-----|-------------------|
| 型号 | 标号 | 停 | 手动 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 节数 | 备注 |
| LW5D-16 TM601/1 | 1-2 | x | x | x | x | x | x | x | x | x | x | x | x | x | 1 节 | A：电容器 辅柜 2 回路 |
| | 3-4 | | | x | x | x | x | x | x | x | x | x | x | x | | |
| LW5D-16 TM602/2 | 5-6 | | | | x | x | x | x | x | x | x | x | x | x | 2 节 | B：电容器 辅柜 4 回路 |
| | 7-8 | | | | | x | x | x | x | x | x | x | x | x | | |
| LW5D-16 TM603/3 | 9-10 | | | | | | x | x | x | x | x | x | x | x | 3 节 | C：电容器 辅柜 6 回路 |
| | 11-12 | | | | | | | x | x | x | x | x | x | x | | |
| LW5D-16 TM604/4 | 13-14 | | | | | | | | x | x | x | x | x | x | 4 节 | D：电容器 辅柜 8 回路 |
| | 15-16 | | | | | | | | | x | x | x | x | x | | |
| LW5D-16 TM605/5 | 17-18 | | | | | | | | | | x | x | x | x | 5 节 | E：电容器 辅柜 10 回路 |
| | 19-20 | | | | | | | | | | | x | x | x | | |
| LW5D-16 TM606/6 | 21-22 | | | | | | | | | | | | x | x | 6 节 | F：电容器 辅柜 12 回路 |
| | 23-24 | | | | | | | | | | | | | x | | |

| | | A | B | C | D | E | F | G | H | I | J | K | | |
|---------------|-------|----|-----|-----|-----|------|------|------|------|------|------|------|------|---------|
| 型号 | 标号 | 0° | 30° | 60° | 90° | 120° | 150° | 180° | 210° | 240° | 270° | 300° | 330° | 节数 |
| 特 LW5D-16/1M | 1-2 | x | | | | | | | | | | | | 1 节 -A |
| | 3-4 | x | | | | | | | | | | | | |
| 特 LW5D-16/2M | 5-6 | x | | | | | | | | | | | | 2 节 -B |
| | 7-8 | x | | | | | | | | | | | | |
| 特 LW5D-16/3M | 9-10 | x | | | | | | | | | | | | 3 节 -C |
| | 11-12 | x | | | | | | | | | | | | |
| 特 LW5D-16/4M | 13-14 | x | | | | | | | | | | | | 4 节 -D |
| | 15-16 | x | | | | | | | | | | | | |
| 特 LW5D-16/5M | 17-18 | x | | | | | | | | | | | | 5 节 -E |
| | 19-20 | x | | | | | | | | | | | | |
| 特 LW5D-16/6M | 21-22 | x | | | | | | | | | | | | 6 节 -F |
| | 23-24 | x | | | | | | | | | | | | |
| 特 LW5D-16/7M | 25-26 | x | | | | | | | | | | | | 7 节 -G |
| | 27-28 | x | | | | | | | | | | | | |
| 特 LW5D-16/8M | 29-30 | x | | | | | | | | | | | | 8 节 -H |
| | 31-32 | x | | | | | | | | | | | | |
| 特 LW5D-16/9M | 33-34 | x | | | | | | | | | | | | 9 节 -I |
| | 35-36 | x | | | | | | | | | | | | |
| 特 LW5D-16/10M | 37-38 | x | | | | | | | | | | | | 10 节 -J |
| | 39-40 | x | | | | | | | | | | | | |
| 特 LW5D-16/11M | 41-42 | x | | | | | | | | | | | | 11 节 -K |
| | 43-44 | x | | | | | | | | | | | | |

注：如型号为带“特”的产品，下单时应备注：“按样本接点图”。

6 外形及安装尺寸



7 订货须知

用户订货时，采用开关的完整型号进行订货。
例如：订货万能转换开关LW5D，接线图型式为
订货代号为LW5D-16 D0723/3 100 台。

尊敬的客户，您好！

由于该产品防护等级为IP00，不具备防尘能力，请在安装和使用的时候尽量保持产品的清洁。

| 接线图编号 | D0723 | | |
|-------|-------|----|-----|
| 转换角度 | 45° | 0° | 45° |
| 1-2 | x | | |
| 3-4 | | | x |
| 5-6 | x | | |
| 7-8 | | | x |
| 9-10 | x | | |
| 11-12 | | | x |

100 台。