

Overview

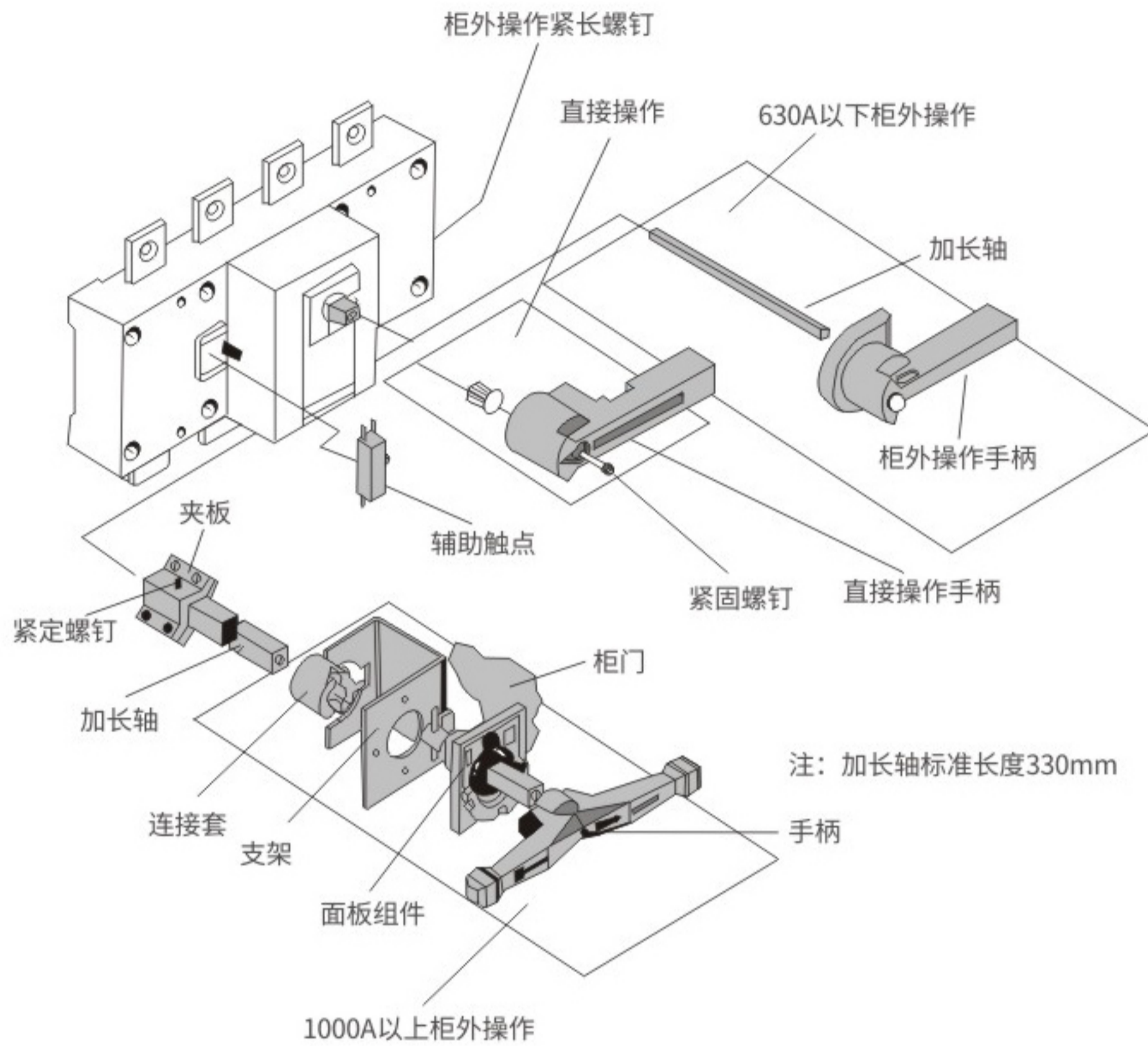
The HGL series isolating switch is divided into 18 specifications from 125-3150A and is a modular design basic type. It has three poles and four poles (three poles+switchable neutral pole), suitable for circuit and connection and disconnection or electrical isolation. It is only used for electrical isolation above 1000A

There is a marking window on the front to indicate the on/off status of the contacts

◇ As needed, a rear observation window can be provided to directly observe the on/off status of the contacts. The window style can be seen in HGL-125~1600A/H cabinet for operating the load isolation switch

Operation method

- ◇ Direct operation: The handle is directly installed in the middle of the switch
- ◇ Out of cabinet operation: The handle is installed outside the distribution cabinet door
- ◇ Can be equipped with two sets of auxiliary contacts



Scope of application

The HGL series load isolation switch is suitable for circuits with AC 50Hz, rated voltage up to 660V, DC rated voltage up to 440V, and rated current up to 1600A. Used for infrequent connection and disconnection of circuits

Normal working conditions and installation conditions

The HGL series isolating switch can reliably operate under the following conditions

Altitude not exceeding 2000 meters

The ambient temperature shall not exceed 40C and shall not be lower than -50c

Relative humidity not exceeding 95%

◇ Non explosive hazardous medium environment

◇ No rain or snow invasion environment

Note: If it is expected to be used under conditions where the ambient air temperature is above+40 °C or below -5 °C~-45 °C, the user should inform the manufacturer when placing an order

概述



| | | |
|--------|----|---------|
| 一常开一常闭 | 11 | NO+NC |
| 二常开二常闭 | 22 | 2NO+2NC |

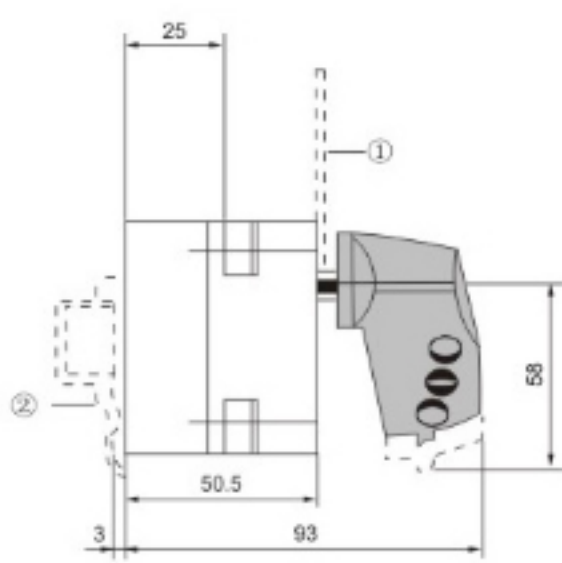
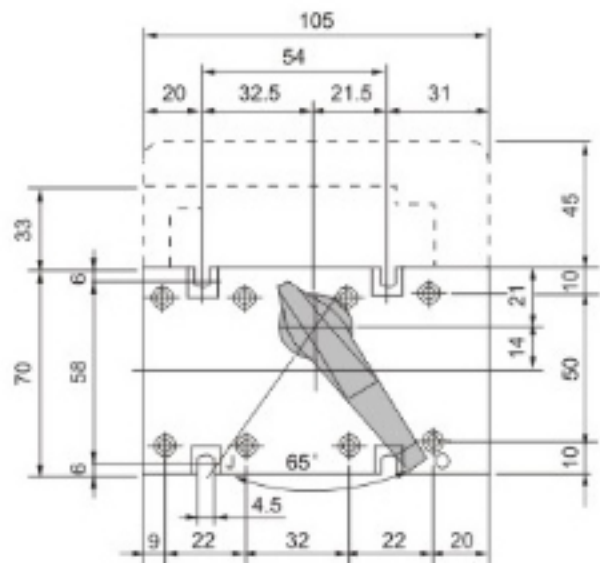
选型举名例：额定电流630A，有中性极转换隔离开关，柜外操作HGLZ-630A/4J

电器性能与机械性能

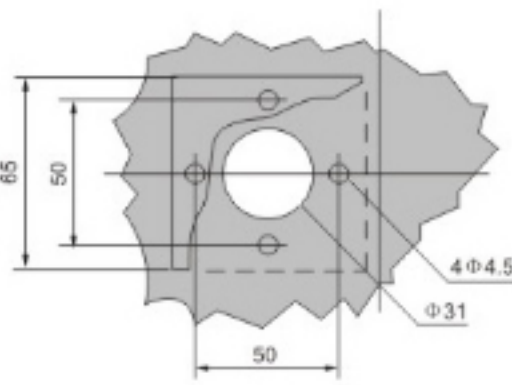
| | | | | | | | | | | | | | | |
|------------------|-------------|-------|------|------|-------|------|-------|-------|-------|-------|-------|-------|------|------|
| 约定发热电流 Ith(A) | 63A | 100A | 160A | 250A | 400A | 630A | 1000A | 1250A | 1600A | 2000A | 2500A | 3150A | | |
| 额定绝缘电压 Ui | 750V | | 800V | | 1000V | | | | | | | | | |
| 介电强度 | 3000V | | | | 3500V | | | | | | | | | |
| 额定冲击耐受电压 Uimp | 6kV | | 8kV | | 12kV | | | | | | | | | |
| 额定工作电压 Ue | AC400、600V | | | | | | | | | | | | | |
| 额定频率 | 50Hz | | | | | | | | | | | | | |
| 使用类别 | AC-21、22、23 | | | | | | | | | | | | | |
| 额定工作电流 Ie(A) | AC400V | AC-21 | 63 | 63 | 160 | 250 | 400 | 630 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 |
| | | AC-22 | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 |
| | | AC-23 | 50 | 80 | 160 | 250 | 400 | 630 | 800 | 1000 | 1250 | 1250 | 2000 | 2500 |
| | AC660V | AC-21 | 63 | 100 | 160 | 250 | 400 | 630 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 |
| | | AC-22 | 63 | 80 | 100 | 200 | 315 | 400 | 630 | 630 | 800 | 1000 | 1000 | 1250 |
| | | AC-23 | 40 | 63 | 63 | 125 | 200 | 250 | 250 | 400 | 500 | / | / | / |
| 额定接通能力 A | 10Ie | | | | | | | | | | | | | |
| 额定分断能力 A | 8Ie | | | | | | | | | | | | | |
| 额定短路接通能力 Icm(kA) | 1.7 | 1.7 | 12 | 17 | 30 | 40 | 70 | | | 70 | | | | |
| Is短时耐受电流 Icw(kA) | 3 | 3 | 10 | 12 | 20 | 25 | 50 | | | 50 | | | | |
| 机械寿命(次) | 5000 | 5000 | 5000 | | 3000 | | 2000 | | | 1000 | | | | |
| 电寿命(次) | 1000 | 1000 | 1000 | | 600 | | 300 | | | / | | | | |
| 操作力矩阵(N·m) | 3.5 | 3.5 | 6.5 | 10 | 15 | 15 | 27 | | | 60 | | | | |
| 重量kg (不含手柄) | 3极 | 0.32 | 0.39 | 0.88 | 1.6 | 3.8 | 4.2 | 10.5 | 10.5 | 16 | 31 | 31 | 42 | |
| | 4极 | 0.34 | 0.41 | 1.1 | 2 | 4.6 | 5 | 13 | 13 | 20 | 40 | 40 | 49 | |

HGL-63~100A系列隔离开关外形与安装尺寸

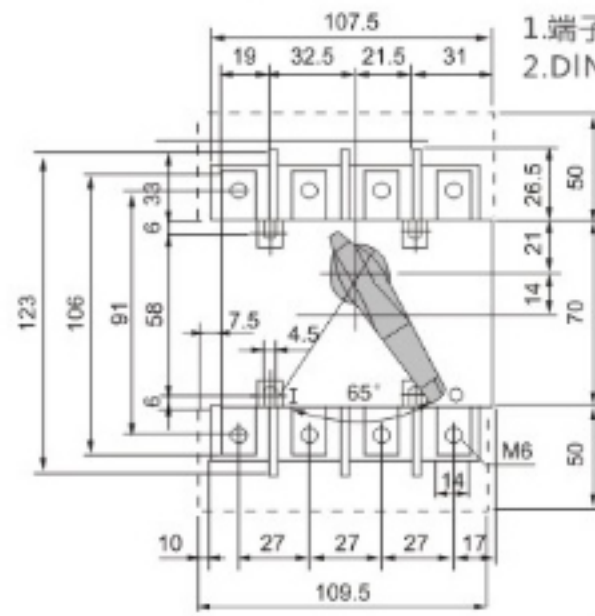
HGL-40~63A 正面直接操作



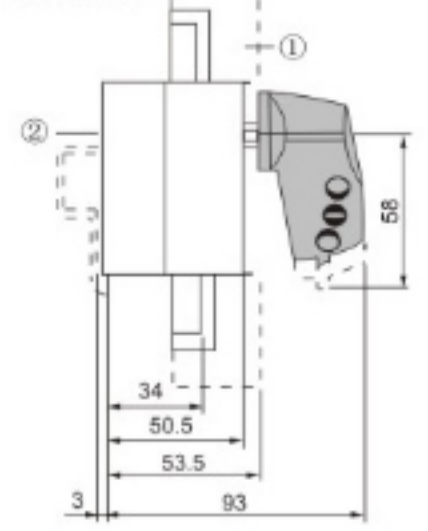
正面柜外操作安装孔



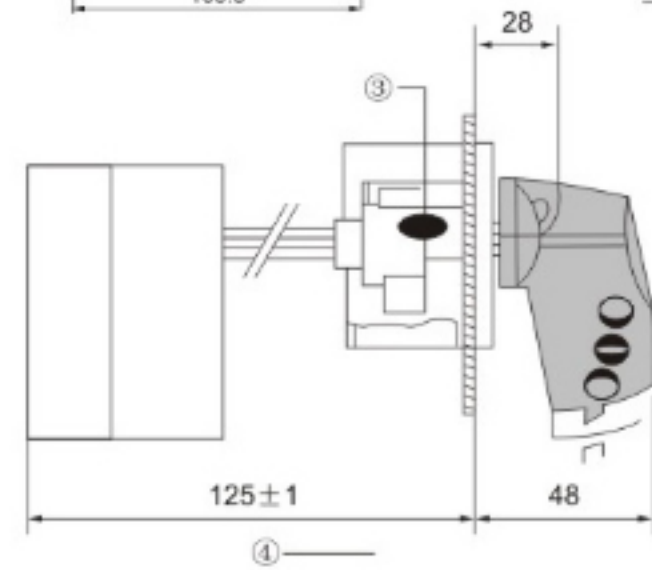
HGL-80~100A 正面直接操作



1.端子护屏
2.DIN轨道固定用的夹子

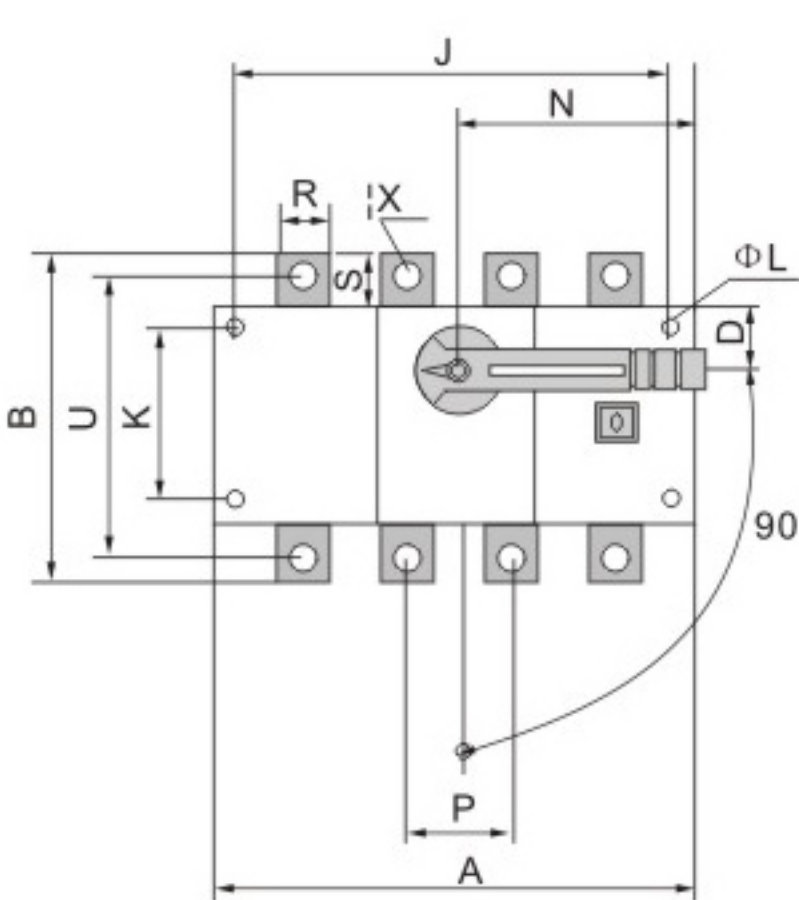


正面柜外操作

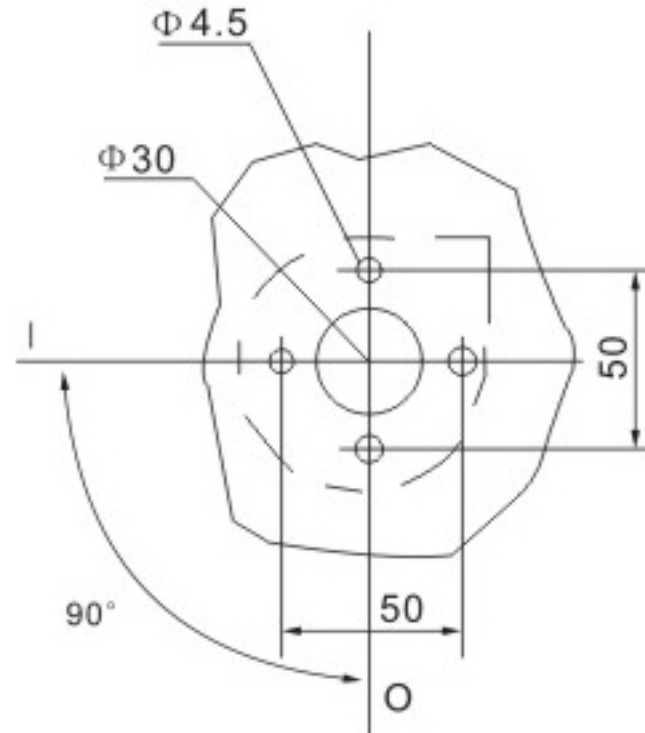


3.手柄锁具滑动锁舌30mm
4.带加长连轴的最小长度:125±1

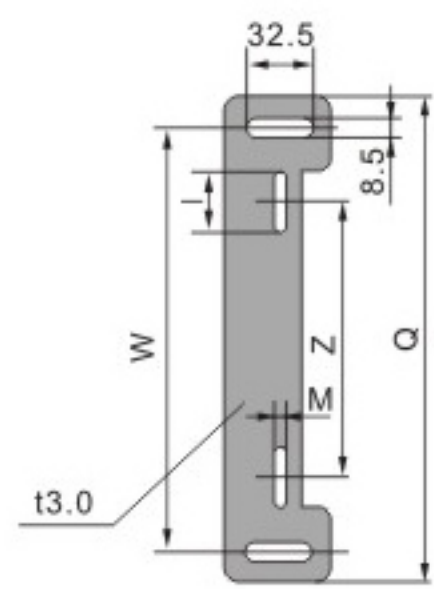
HGL-125~630A系列隔离开关外形与安装尺寸



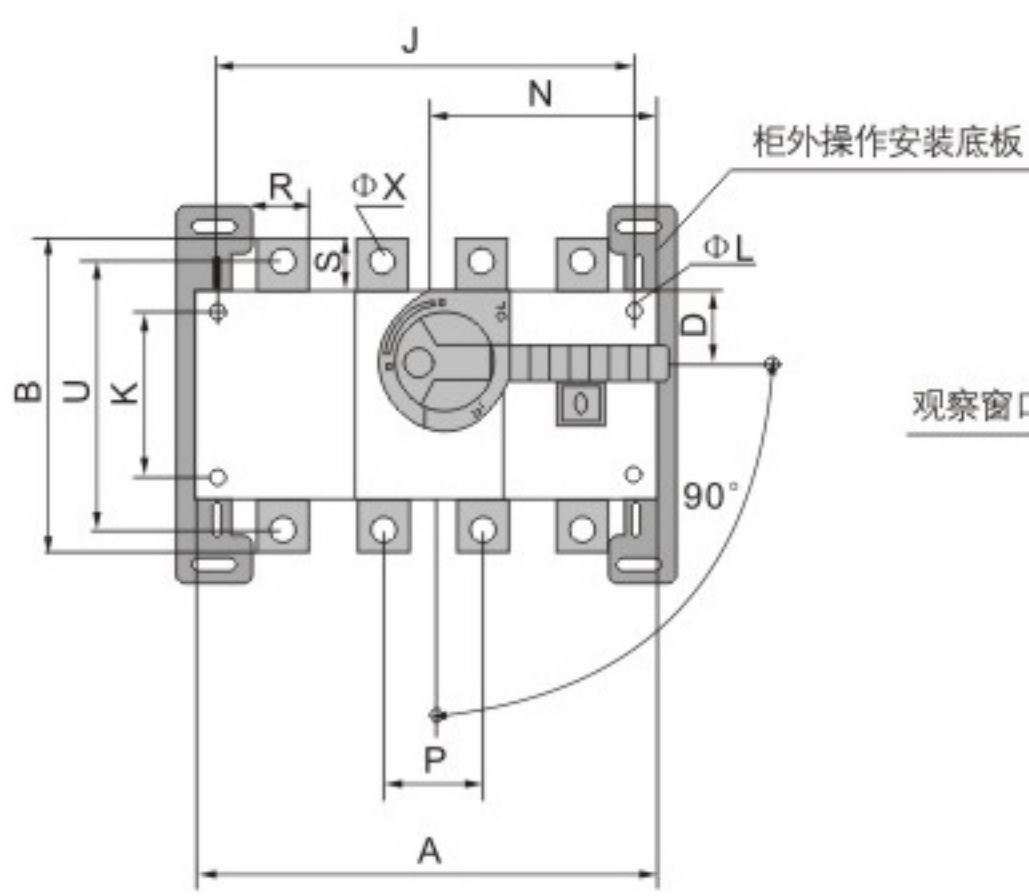
HGL-125~630A 直接操作



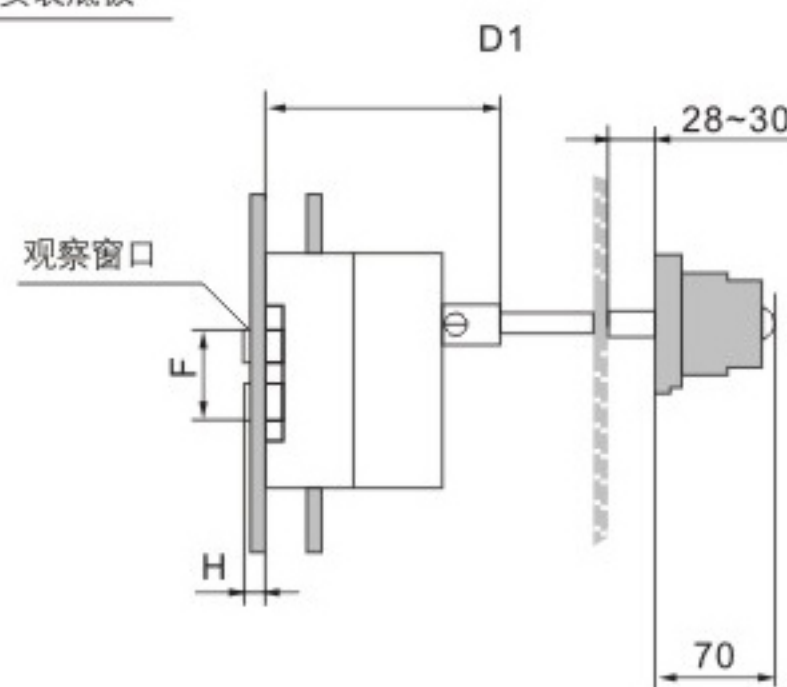
柜外手柄座安装尺寸



柜外操作安装底板



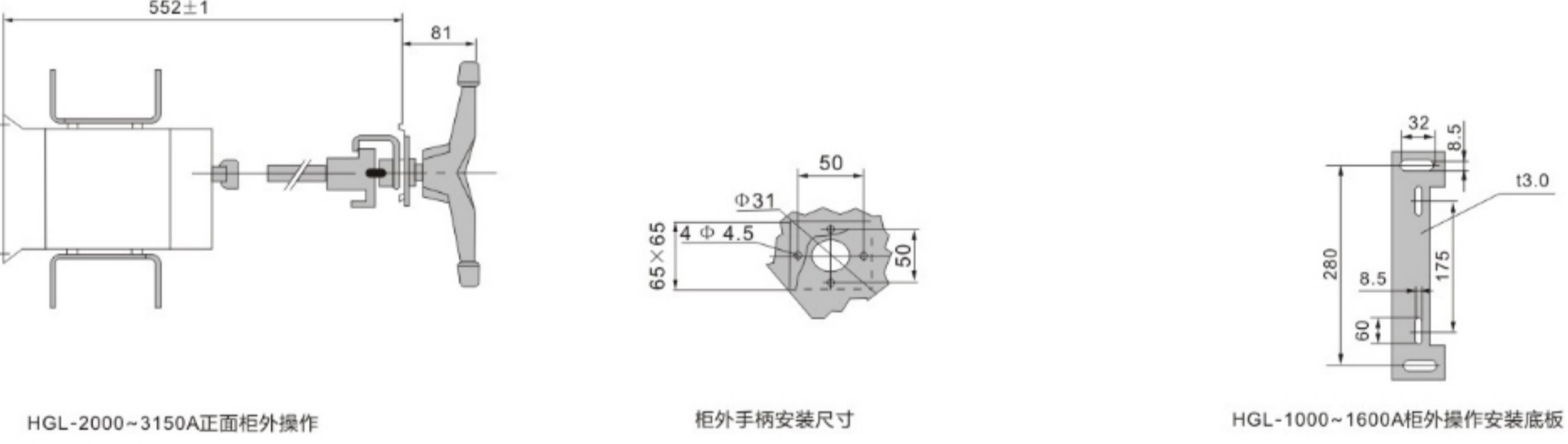
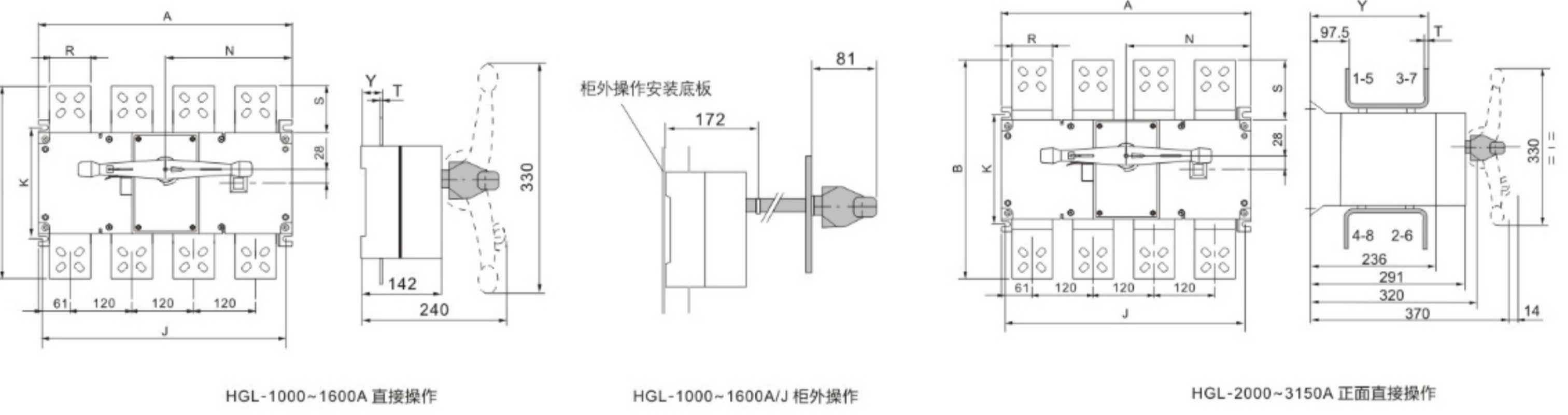
HGL-125~630A/JK 柜外操作



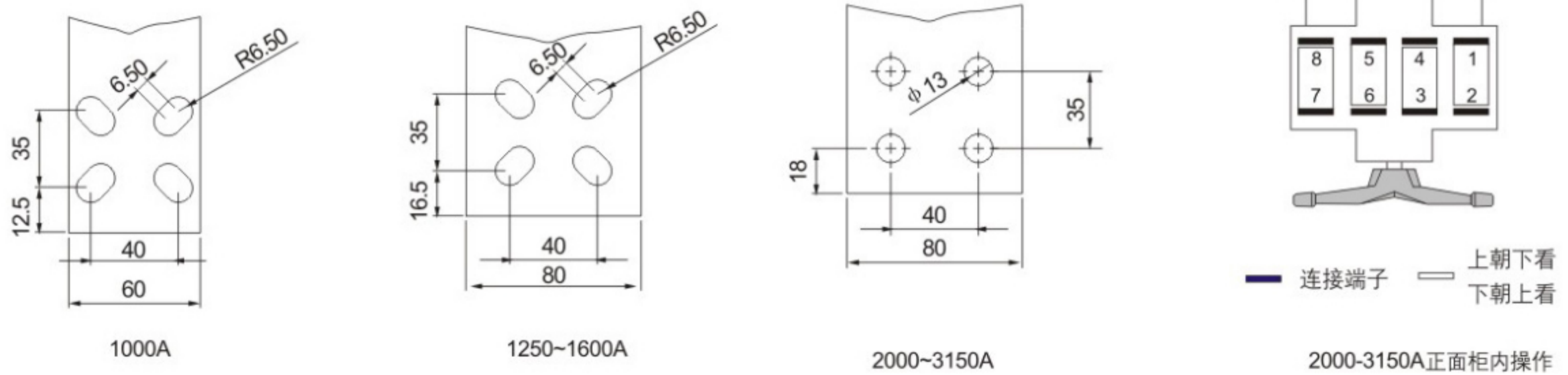
| 规格 | 底板尺寸 | | | | |
|----------|------|-----|-----|-----|-----|
| | l | M | Z | W | Q |
| HGL-125A | 55 | 5.5 | 85 | 190 | 218 |
| HGL-160A | 55 | 5.5 | 85 | 190 | 218 |
| HGL-200A | 55 | 5.5 | 85 | 190 | 218 |
| HGL-250A | 55 | 5.5 | 85 | 190 | 218 |
| HGL-315A | 60 | 6.5 | 130 | 240 | 270 |
| HGL-400A | 60 | 6.5 | 130 | 240 | 270 |
| HGL-500A | 60 | 6.5 | 130 | 240 | 270 |
| HGL-630A | 60 | 6.5 | 130 | 240 | 270 |

| 规格 | 外形尺寸与安装尺寸 | | | | | | | | | | | | | | | | | | |
|------------|-----------|-----|-----|----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|------|----|----|----|
| | A | B | C | D | D1 | E | ΦL | J | K | N | P | R | S | T | U | ΦX | Y | F | H |
| HGL-125A/3 | 140 | 135 | 120 | 27 | 93 | 73 | 5.5 | 120 | 65 | 85 | 36 | 20 | 25 | 3.5 | 115 | 9 | 24 | 49 | 10 |
| HGL-125A/4 | 170 | 135 | 120 | 27 | 93 | 73 | 5.5 | 150 | 65 | 85 | 36 | 20 | 25 | 3.5 | 115 | 9 | 24 | 49 | 10 |
| HGL-160A/3 | 140 | 135 | 120 | 27 | 93 | 73 | 5.5 | 120 | 65 | 85 | 36 | 20 | 25 | 3.5 | 115 | 9 | 24 | 49 | 10 |
| HGL-160A/4 | 170 | 135 | 120 | 27 | 93 | 73 | 5.5 | 150 | 65 | 85 | 36 | 20 | 25 | 3.5 | 115 | 9 | 24 | 49 | 10 |
| HGL-200A/3 | 180 | 165 | 140 | 35 | 103 | 86 | 7 | 160 | 90 | 115 | 50 | 25 | 28 | 3.5 | 140 | 11 | 25 | 79 | 15 |
| HGL-200A/4 | 230 | 165 | 145 | 35 | 103 | 86 | 7 | 210 | 90 | 115 | 50 | 25 | 28 | 3.5 | 140 | 11 | 27 | 79 | 15 |
| HGL-250A/3 | 180 | 165 | 140 | 35 | 103 | 86 | 7 | 160 | 90 | 115 | 50 | 25 | 28 | 3.5 | 140 | 11 | 25 | 79 | 15 |
| HGL-250A/4 | 230 | 165 | 145 | 35 | 103 | 86 | 7 | 210 | 90 | 115 | 50 | 25 | 28 | 3.5 | 140 | 11 | 27 | 79 | 15 |
| HGL-315A/3 | 230 | 234 | 170 | 50 | 134 | 116 | 7 | 210 | 140 | 145 | 65 | 32 | 37 | 5 | 205 | 11 | 37 | 94 | 20 |
| HGL-315A/4 | 290 | 234 | 170 | 50 | 134 | 116 | 7 | 270 | 140 | 145 | 65 | 32 | 37 | 5 | 205 | 11 | 37 | 94 | 20 |
| HGL-400A/3 | 230 | 234 | 170 | 50 | 134 | 116 | 7 | 210 | 140 | 145 | 65 | 32 | 37 | 5 | 205 | 11 | 37 | 94 | 20 |
| HGL-400A/4 | 290 | 234 | 170 | 50 | 134 | 116 | 7 | 270 | 140 | 145 | 65 | 32 | 37 | 5 | 205 | 11 | 37 | 94 | 20 |
| HGL-500A/3 | 230 | 250 | 170 | 50 | 134 | 116 | 7 | 210 | 140 | 145 | 65 | 40 | 45 | 6 | 215 | 12.5 | 38 | 94 | 20 |
| HGL-500A/4 | 290 | 250 | 170 | 50 | 134 | 116 | 7 | 270 | 140 | 145 | 65 | 40 | 45 | 6 | 215 | 12.5 | 38 | 94 | 20 |
| HGL-630A/3 | 230 | 250 | 170 | 50 | 134 | 116 | 7 | 210 | 140 | 145 | 65 | 40 | 45 | 6 | 215 | 12.5 | 38 | 94 | 20 |
| HGL-630A/4 | 290 | 250 | 170 | 50 | 134 | 116 | 7 | 270 | 140 | 145 | 65 | 40 | 45 | 6 | 215 | 12.5 | 38 | 94 | 20 |

HGL-1000~3150A系列隔离开关外形与安装尺寸



接线端子



HGL-1000~3150A 负荷隔离开关安装尺寸

| 规格 | 外形尺寸与安装尺寸 | | | | | | | | |
|-------------|-----------|-----|-----|-----|-------|----|-------|----|-------|
| | A | B | J | K | N | R | S | T | Y |
| HGL-1000A/3 | 378 | 328 | 352 | 175 | 185.5 | 60 | 64 | 8 | 48 |
| HGL-1000A/4 | 492 | 328 | 467 | 175 | 246 | 60 | 64 | 8 | 48 |
| HGL-1250A/3 | 378 | 336 | 352 | 175 | 185.5 | 80 | 68 | 8 | 48 |
| HGL-1250A/4 | 492 | 336 | 467 | 175 | 246 | 80 | 68 | 8 | 48 |
| HGL-1600A/3 | 378 | 336 | 352 | 175 | 185.5 | 80 | 68 | 10 | 49 |
| HGL-1600A/4 | 492 | 336 | 467 | 175 | 246 | 80 | 68 | 10 | 49 |
| HGL-2000A/3 | 379 | 423 | 352 | 220 | 185.5 | 80 | 111.5 | 10 | 210.5 |
| HGL-2000A/4 | 492 | 423 | 467 | 220 | 246 | 80 | 111.5 | 10 | 210.5 |
| HGL-2500A/3 | 378 | 433 | 352 | 220 | 185.5 | 80 | 116.5 | 15 | 215.5 |
| HGL-2500A/4 | 492 | 433 | 467 | 220 | 246 | 80 | 116.5 | 15 | 215.5 |
| HGL-3150A/3 | 378 | 443 | 352 | 220 | 185.5 | 80 | 121.5 | 20 | 220.5 |
| HGL-3150A/4 | 492 | 443 | 467 | 220 | 246 | 80 | 121.5 | 20 | 220.5 |