



Kirk Key Interlock Company

9048 Meridian Circle NW, North Canton, OH 44720

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Type PPS - Panel Mounted Switch SD Series - Switch Ratings

| | | | | 20A Switch | 25A Switch | 40A Switch | 63A Switch |
|--|--|-------------------|-------------|---------------|---------------|---------------|---------------|
| Rated Insulation Voltage U | IEC 60947-3, EN 60947-3 | | | | | | |
| | VDE 0660 part 107 | V | 690 | 690 | 690 | 690 | |
| | UL/Canada | V | 600 | 600 | 600 | 600 | |
| Rated Thermal Current | IEC 60947-3, EN 60947-3 | | | | | | |
| | VDE 0660 part 107 | A | 20 | 25 | 40 | 63 | |
| | UL/Canada | A | 20 | 30 | 45 | 65 | |
| Rated Operational Current | IEC 60947-3, EN 60947-3 | | | | | | |
| | AC-15 switching of control devices, contactors, valves, etc. | VDE 0660 part 107 | 220V - 240V | A | 5 | 8 | 14 |
| | | 380V - 440V | A | 4 | 5 | 6 | 7 |
| AC-21A switching of resistive loads, incl moderate overloads | IEC 60947-3, EN 60947-3 | | | | | | |
| | VDE 0660 part 107 | A | 20 | 25 | 40 | 63 | |
| Pilot Duty | UL/Canada | Heavy | A600 | A600 | A600 | A600 | |
| DC Switching Capacity | | | | | | | |
| Number of series contacts T ≤ 1 ms | 1 | 2 | | | | | |
| | Voltage V | | | | | | |
| | 24 | 48 | A | 20 | 25 | - | - |
| | 48 | 95 | A | 12 | 20 | 32 | 32 |
| | 60 | 120 | A | 4.5 | 7.5 | 23 | 23 |
| | 110 | 220 | A | 1 | 1.5 | - | - |
| | 220 | 440 | A | 0.4 | 0.5 | - | - |
| | 440 | 660 | A | 0.27 | 0.3 | - | - |
| Inductive loads T = 50 ms | 24 | 48 | A | 12 | 20 | 32 | - |
| | 30 | 60 | A | 5 | 9 | 25 | - |
| | 48 | 95 | A | 2 | 3 | - | - |
| | 60 | 120 | A | 1 | 1.5 | - | - |
| | 110 | 220 | A | 0.4 | 0.5 | - | - |
| Rated Utilization Category | IEC 60947-3, EN 60947-3 | | | | | | |
| | VDE 0660 part 107 | | | | | | |
| AC-3 Direct-on-line starting, star-delta starting | 3 phase 3 pole 380V-440V | | kW | 5.5 | 7.5 | 15 | 18.5 |
| | 1 phase 2 pole 220V-240V | | kW | 2.2 | 3 | 5.5 | 6 |
| Ratings | 3 phase 3 pole 550V-600V | | HP | 5 | 10 | 25 | 30 |
| | 1 phase 2 pole 550V-600V | | HP | 2 | 5 | 15 | 20 |
| Max. Permissible Wire Ga. | | | | 2x | 2x | | |
| | Use copper wire only | | mm | 2.5 | 4 | 16 | 16 |
| Single-core or stranded wire | AWG | | | 12 | 10 | 6 | 6 |
| Rated Impulse Withstand Voltage U | | | kV | 6 | 6 | 6 | 6 |



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**Type PPS - Panel Mounted Switch
SD Series - Switch Ratings**

Rated Operational Current

AC-22A Switching of combined resistive or low inductive loads incl moderate overloads

IEC 60947-3, EN 60947-3
VDE 0660 **220V - 500V**
part 107 **660V - 690V**

| | | | | |
|---|----|----|----|----|
| A | 20 | 25 | 40 | 63 |
| A | 20 | 25 | 40 | 63 |

Ampere Rating
Resistive or low inductive loads

UL/Canada

| | | | | |
|---|----|----|----|----|
| A | 20 | 30 | 45 | 60 |
|---|----|----|----|----|

Breaking Capacity

220V-240V
380V-440V
660V-690V

| | | | | |
|---|-----|-----|-----|-----|
| A | 150 | 200 | 290 | 440 |
| A | 150 | 200 | 290 | 440 |
| A | 80 | 125 | 170 | 260 |

Short Circuit Protection

Maximum fuse size
Rated short-time withstand current

(gL/gG-characteristic)
(1s-current)

| | | | | |
|---|-----|-----|-----|-----|
| A | 25 | 35 | 50 | 63 |
| A | 140 | 280 | 950 | 950 |

Ambient Temperature of Stages

open at 100%
enclosed at 100%

55 degrees C during 24 hours with peaks up to 60 degrees C.
35 degrees C during 24 hours with peaks up to 40 degrees C.

Rated Utilization Category

AC-2 Slip ring motor starting, reversing and plugging, star-delta starting.

IEC 60947-3, EN 60947-3
VDE 0660 part 107

3 phase 3 pole
220V-240V
380V-440V
500V
660V-690V

| | | | | |
|----|-----|-----|------|------|
| kW | 4 | 5.5 | 10 | 18.5 |
| kW | 7.5 | 11 | 18.5 | 30 |
| kW | 10 | 15 | 22 | 40 |
| kW | 10 | 13 | 22 | 37 |

AC-4 Direct-on-line starting, reversing, plugging and inching

3 phase 3 pole
220V-240V
380V-440V
500V
660V-690V

| | | | | |
|----|------|-----|-----|-----|
| kW | 0.55 | 1.5 | 3.7 | 5.5 |
| kW | 1.5 | 3 | 6 | 7.5 |
| kW | 1.5 | 3 | 6 | 7.5 |
| kW | 1.5 | 3 | 6 | 9 |

1 phase 2 pole
110V-120V
220V-240V
380V-440V

| | | | | |
|----|------|------|-----|-----|
| kW | 0.3 | 0.45 | 1.1 | 1.2 |
| kW | 0.75 | 1.1 | 2.2 | 2.4 |
| kW | 1.5 | 2.2 | 3.7 | 4 |

AC-23A Frequent switching of motors or other high inductive loads.

3 phase 3 pole
220V-240V
380V-440V
500V
660V-690V

| | | | | |
|----|-----|-----|------|----|
| kW | 3.7 | 5.5 | 7.5 | 15 |
| kW | 7.5 | 11 | 18.5 | 30 |
| kW | 7.5 | 11 | 18.5 | 30 |
| kW | 7.5 | 11 | 18.5 | 30 |

1 phase 2 pole
110V-120V
220V-240V
380V-440V

| | | | | |
|----|------|-----|-----|------|
| kW | 0.75 | 1.5 | 2.2 | 4 |
| kW | 2.5 | 3 | 4 | 10 |
| kW | 3.7 | 5.5 | 7.5 | 18.5 |

Ratings

Heavy motor load
Reversing-Rating
(similar AC-4)

3 phase 3 pole
110V-120V
220V-240V
440V-600V

| | | | | |
|----|-----|---|--|--|
| HP | 0.5 | 1 | | |
| HP | 1 | 2 | | |
| HP | 3 | 5 | | |

1 phase 2 pole
110V-120V
220V-240V
277V

| | | | | |
|----|------|------|--|--|
| HP | 0.17 | 0.33 | | |
| HP | 0.5 | 0.75 | | |
| HP | 0.6 | 1 | | |