



SPECIFICATION DATA SHEET

TYPE PPS SWITCH RATINGS

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| | | | 20A Switch | 25A Switch | 40A Switch | 63A Switch |
|--|-----|---|---------------|---------------|---------------|---------------|
| Rated Insulation Voltage U | | IEC 60947-3, EN 60947-3 VDE 0660 part 107 UL/Canada | V V | 690 600 | 690 600 | 690 600 |
| Rated Thermal Current | | IEC 60947-3, EN 60947-3 VDE 0660 part 107 UL/Canada | A A | 20 20 | 25 30 | 40 45 |
| Rated Operational Current | | | | | | |
| AC-15 switching of control devices, contactors, valves, etc. | | IEC 60947-3, EN 60947-3 VDE 0660 220V - 240V part 107 380V - 440V | A A | 5 4 | 8 5 | 14 6 |
| AC-21A switching of resistive loads, incl moderate overloads | | IEC 60947-3, EN 60947-3 VDE 0660 part 107 | A | 20 | 25 | 40 |
| Pilot Duty | | UL/Canada Heavy | | 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 |
| | 60 | 120 | A | 4.5 | 7.5 | 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 |
| | | 1 phase 2 pole 220V-240V | kW | 2.2 | 3 | 5.5 |
| Ratings | | | | | | |
| Standard motor load DOL-Rating (similar AC-3) | | 3 phase 3 pole 550V-600V 1 phase 2 pole 550V-600V | HP HP | 5 2 | 10 5 | 25 15 |
| Max. Permissible Wire Ga. | | | | 2x 2.5 | 2x 4 | 16 16 |
| Use copper wire only | | mm | | 12 | 10 | 6 |
| Single-core or stranded wire | | AWG | | | | 6 |
| Rated Impulse Withstand Voltage U | | | kV | 6 | 6 | 6 |

TYPE PPS SWITCH RATINGS (CONTINUED)

| | | | | | | | |
|---|-------------------------|--------------------|------|------|------|------|---|
| Rated Operational Current | | | | | | | |
| AC-22A Switching of combined resistive or low inductive loads incl moderate overloads | IEC 60947-3, EN 60947-3 | | | | | | |
| | VDE 0660 part 107 | 220V - 500V | A | 20 | 25 | 40 | 63 |
| | | 660V - 690V | A | 20 | 25 | 40 | 63 |
| Ampere Rating | | | | | | | |
| Resistive or low inductive loads | UL/Canada | | A | 20 | 30 | 45 | 60 |
| Breaking Capacity | | | | | | | |
| | 220V-240V | | A | 150 | 200 | 290 | 440 |
| | 380V-440V | | A | 150 | 200 | 290 | 440 |
| | 660V-690V | | A | 80 | 125 | 170 | 260 |
| Short Circuit Protection | | | | | | | |
| Maximum fuse size | (gL/gG-characteristic) | | A | 25 | 35 | 50 | 63 |
| Rated short-time withstand current | (1s-current) | | A | 140 | 280 | 950 | 950 |
| Ambient Temperature of Stages | | | | | | | |
| | open at 100% | | | | | | 55 degrees C during 24 hours with peaks up to 60 degrees C. |
| | enclosed at 100% | | | | | | 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 | kW | 4 | 5.5 | 10 | 18.5 | |
| 380V-440V | kW | 7.5 | 11 | 18.5 | 30 | | |
| 500V | kW | 10 | 15 | 22 | 40 | | |
| 660V-690V | kW | 10 | 13 | 22 | 37 | | |
| AC-4 Direct-on-line starting, reversing, plugging and inching | 3 phase 3 pole | | | | | | |
| | 220V-240V | kW | 0.55 | 1.5 | 3.7 | 5.5 | |
| | 380V-440V | kW | 1.5 | 3 | 6 | 7.5 | |
| | 500V | kW | 1.5 | 3 | 6 | 7.5 | |
| 660V-690V | kW | 1.5 | 3 | 6 | 9 | | |
| 1 phase 2 pole | 110V-120V | kW | 0.3 | 0.45 | 1.1 | 1.2 | |
| | 220V-240V | kW | 0.75 | 1.1 | 2.2 | 2.4 | |
| | 380V-440V | 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 | kW | 3.7 | 5.5 | 7.5 | 15 | |
| | 380V-440V | kW | 7.5 | 11 | 18.5 | 30 | |
| | 500V | kW | 7.5 | 11 | 18.5 | 30 | |
| 660V-690V | kW | 7.5 | 11 | 18.5 | 30 | | |
| 1 phase 2 pole | 110V-120V | kW | 0.75 | 1.5 | 2.2 | 4 | |
| | 220V-240V | kW | 2.5 | 3 | 4 | 10 | |
| | 380V-440V | kW | 3.7 | 5.5 | 7.5 | 18.5 | |
| Ratings | | | | | | | |
| Heavy motor load Reversing-Rating (similar AC-4) | 3 phase 3 pole | | | | | | |
| | 110V-120V | HP | 0.5 | 1 | | | |
| | 220V-240V | HP | 1 | 2 | | | |
| 440V-600V | HP | 3 | 5 | | | | |
| 1 phase 2 pole | 110V-120V | HP | 0.17 | 0.33 | | | |
| | 220V-240V | HP | 0.5 | 0.75 | | | |
| | 277V | HP | 0.6 | 1 | | | |