



**THE DATASHEET OF
VS425-31UL 110V AC**





- For switching electric circuits, especially for resistive loads and 3-phase induction motors
- Number of contacts: VS120 - 1, VS220 - 2, VS325, VS340, VS363 - 3, VS425, VS440, VS463 - 4
- It is produced in configuration of switching and breaking contacts:
 VS120: 10, 01 VS220: 20, 11, 02
 VS325: 30 VS425: 40, 31, 22, 13 04
 VS340: 30 VS440: 40, 31, 22, 04
 VS363: 30 VS463: 40, 31, 22
- It is possible to connect auxiliary contacts VSK to contactors VS425, VS440, VS463

EAN code see page 38

| Technical parameters | VS120 | VS220 | VS325/VS425 | VS340/VS440 | VS363/VS463 |
|--|---|---|---------------------------------------|---|---|
| Rated insulation voltage (Ui): | 230 V | 230 V | 440 V | 440 V | 440 V |
| Rated thermo-current I _m (in AC): | 20 A | 20 A | 25 A | 40 A | 63 A |
| Voltage range: | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Switched operation | | | | | |
| AC-1 for 400 V, 3 phase: | x | x | 16 kW | 26 kW | 40 kW |
| AC-1 for 230 V: | 4 kW, 1 phase | 4 kW, 1 phase | 9 kW, 3 phase | 16 kW, 3 phase | 24 kW, 3 phase |
| AC-3 for 400 V, 3 phase: | x | x | 4 kW | 11 kW | 15 kW |
| AC-3 for 230 V: | 1.3 kW only NO, 1 phase | 1.3 kW only NO, 1 phase | 2.2 kW, 3 phase | 5.5 kW, 3 phase | 8.5 kW, 3 phase |
| AC-7a for 400 V, 3 phase: | x | x | 16 kW | 26 kW | 40 kW |
| AC-7a for 230 V: | 4 kW, 1 phase | 4 kW, 1 phase | 9 kW, 3 phase | 16 kW, 3 phase | 24 kW, 3 phase |
| AC-7b for 400 V, 3 phase: | x | x | 4 kW | 11 kW | 15 kW |
| AC-7b for 230 V: | 1.3 kW only NO, 1 phase | 1.3 kW only NO, 1 phase | 2.2 kW, 3 phase | 5.5 kW, 3 phase | 8.5 kW, 3 phase |
| AC-15 for 400 V, 1 phase: | 4 A | 4 A | 4 A | 4 A | 4 A |
| AC-15 for 230 V, 1 phase: | 6 A | 6 A | 6 A | 6 A | 6 A |
| DC1 U _e = 24/110/220 V: | 20/6/0.6 A | 20/6/0.6 A | 25/6/0.6 A | 40/4/1.2 A | 63/4/1.2 A |
| Loadability of modular contactors see page 58 | | | | | |
| The max. number of switching for max. load: | 600 switch/hr. | 600 switch/hr. | 600 switch/hr. | 600 switch/hr. | 600 switch/hr. |
| Electrical life in 230/400 V | | | | | |
| AC-1- resistive load : | 200.000 | 200.000 | 200.000 | 100.000 | 100.000 |
| AC-3-power load: | 300.000 | 300.000 | 500.000 | 500.000 | 150.000 |
| AC-5a - high-intensity discharge lamp: | 100.000 by 30 µF | 100.000 by 30 µF | 100.000 by 36 µF | 100.000 by 220 µF | 100.000 by 330 µF |
| AC-5b - incandescent lamps: | 100.000 by 2 kW | 100.000 by 2 kW | 100.000 by 2 kW | 100.000 by 4 kW | 100.000 by 5 kW |
| AC-7a - resistive household devices: | 200.000 | 200.000 | 200.000 | 100.000 | 100.000 |
| AC-7b - inductive household devices: | 300.000 | 300.000 | 300.000 | 150.000 | 150.000 |
| Minimal load: | ≥ 17 V, ≥ 50 mA | ≥ 17 V, ≥ 50 mA | ≥ 17 V, ≥ 50 mA | ≥ 17 V, ≥ 50 mA | ≥ 24 V, ≥ 100 mA |
| Short circuit protection with the fuse char. aM: | 20 A | 20 A | 25 A | 63 A | 80 A |
| Coordination Type according EN 60 947-4-1: | 2 | 2 | 2 | 2 | 2 |
| Dielectric strength: | 4 kV | 4 kV | 4 kV | 4 kV | 4 kV |
| Contacts - max. cable size | | | | | |
| Solid conductor: | AWG 7 (10 mm ²) | AWG 7 (10 mm ²) | AWG 10 (10 mm ²) | AWG 10 (25 mm ²) | AWG 10 (25 mm ²) |
| Stranded conductor: | AWG 8 (6 mm ²) | AWG 8 (6 mm ²) | AWG 8 (6 mm ²) | AWG 4 (16 mm ²) | AWG 4 (16 mm ²) |
| Maximal torque: | 1.2 Nm (10.62 lbf.in) | 1.2 Nm (10.62 lbf.in) | 1.2 Nm (10.62 lbf.in) | 3.5 Nm (30.95 lbf.in) | 3.5 Nm (30.95 lbf.in) |
| Coil - max. cable size | | | | | |
| Solid conductor: | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) |
| Stranded conductor: | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) | AWG 14 (2.5 mm ²) |
| Max. torque: | 0.6 Nm (5.31 lbf.in) | 0.6 Nm (5.31 lbf.in) | 0.6 Nm (5.31 lbf.in) | 0.6 Nm (5.31 lbf.in) | 0.6 Nm (5.31 lbf.in) |
| Operating | | | | | |
| Coil control voltage: | AC/DC 24 V, 120 V, 230 V | AC/DC 24 V, 48 V, 120 V, 230 V | AC/DC 24 V, 48 V, 120 V, 230 V | AC/DC 24 V, 120 V, 230 V | AC/DC 24 V, 48 V, 120 V, 230 V |
| Coil permanent supply +/- 10 %: | 2.1 VA/2.1 W | 2.1 VA/2.1 W | 2.6 VA/2.6 W * | 5 VA/5 W | 5 VA/5 W |
| Coil gear supply +/- 10 %: | 2.1 VA/2.1 W | 2.1 VA/2.1 W | 2.6 VA/2.6 W * | 5 VA/5 W | 5 VA/5 W |
| Mounting side-by-side: | max. 2 contactors** | max. 2 contactors** | max. 2 contactors** | max. 2 contactors** | max. 2 contactors** |
| Operational temperature: | -5 .. +55 °C (23 .. 131 °F) | | | | |
| Storing temperature: | -30 .. +80 °C (-22 .. 176 °F) | | | | |
| Weight: | 120 g (4.2 oz.) | 130 g (4.6 oz.) | 213 g (7.5 oz.) | 400 g (14 oz.) | 400 g (14 oz.) |
| Dimensions: | 17.5 x 85 x 60 mm (0.7" x 3.35" x 2.4") | 17.5 x 85 x 60 mm (0.7" x 3.35" x 2.4") | 35 x 85 x 60 mm (1.4" x 3.35" x 2.4") | 53.3 x 84 x 60 mm (2.1" x 3.31" x 2.4") | 53.3 x 84 x 60 mm (2.1" x 3.31" x 2.4") |
| Standards: | IEC 60947-4-1, IEC 60947-5-1, IEC 61095, EN 60947-4-1, EN 60947-5-1, EN 61095, EN 60947-1 | | | | |

* 3.8 VA/3.8 W for -04 version of contacts

** Note: If several contactors are mounted close together a gap of 9 mm must be maintained between every other contactor.

*** HP rating: VS120 & VS220: 1-phase 1 HP|240 Vac, 1/3 HP|120 Vac; PD. B300, P300

VS325 & VS425: 1-phase 1 HP|240 Vac, 1/3 HP|120 Vac; 3-phase 3 HP|240 Vac, 5 HP|460 Vac; PD. B300, P300

VS340 & VS440: 1-phase 3 HP|240 Vac, 1 HP|120 Vac; 3-phase 7 HP|240 Vac, 15 HP|460 Vac; PD. B300, P300

VS363 & VS463: 1-phase 5 HP|240 Vac, 2 HP|120 Vac; 3-phase 10 HP|240 Vac, 20 HP|460 Vac; PD. B300, P300

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