



**THE DATASHEET OF  
VS425-22UL 120V AC/DC**





- 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 <sub>m</sub> (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                                |
| <b>Switched operation</b>                        |   |   |                                       |   |   |
| 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 <sub>e</sub> = 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.                          |
| <b>Electrical life in 230/400 V</b>              |   |   |                                       |   |   |
| 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 strenght:                             | 4 kV  | 4 kV                                    | 4 kV                                  | 4 kV                                    | 4 kV                                    |
| <b>Contacts - max. cable size</b>                |   |   |                                       |   |   |
| Solid conductor:                                 | AWG 7 (10 mm <sup>2</sup> )   | AWG 7 (10 mm <sup>2</sup> )             | AWG 10 (10 mm <sup>2</sup> )          | AWG 10 (25 mm <sup>2</sup> )            | AWG 10 (25 mm <sup>2</sup> )            |
| Stranded conductor:                              | AWG 8 (6 mm <sup>2</sup> )  | AWG 8 (6 mm <sup>2</sup> )              | AWG 8 (6 mm <sup>2</sup> )            | AWG 4 (16 mm <sup>2</sup> )             | AWG 4 (16 mm <sup>2</sup> )             |
| 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)                   |
| <b>Coil - max. cable size</b>                    |   |   |                                       |   |   |
| Solid conductor:                                 | AWG 14 (2.5 mm <sup>2</sup> )   | AWG 14 (2.5 mm <sup>2</sup> )           | AWG 14 (2.5 mm <sup>2</sup> )         | AWG 14 (2.5 mm <sup>2</sup> )           | AWG 14 (2.5 mm <sup>2</sup> )           |
| Stranded conductor:                              | AWG 14 (2.5 mm <sup>2</sup> )   | AWG 14 (2.5 mm <sup>2</sup> )           | AWG 14 (2.5 mm <sup>2</sup> )         | AWG 14 (2.5 mm <sup>2</sup> )           | AWG 14 (2.5 mm <sup>2</sup> )           |
| 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)                    |
| <b>Operating</b>                                 |   |   |                                       |   |   |
| 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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