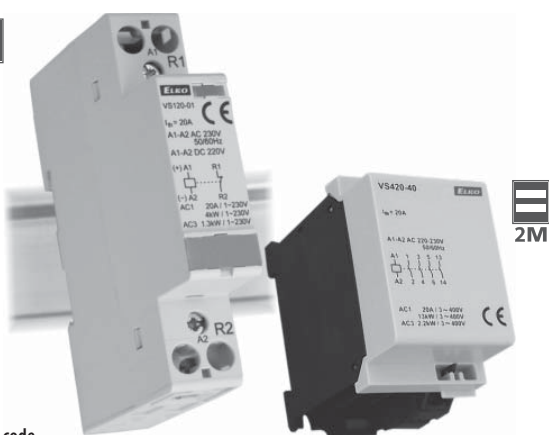


Installation contactors VS120, VS220, VS420, VS425, VS440, VS463



1M



2M

EAN code
see page 122

- For switching of electric circuits, especially for resistive loads and three-phase induction motors
number of contacts VS120: 1
number of contacts VS220: 2
number of contacts VS420, VS425, VS440, VS463: 4
- It is produced in configuration of switching and breaking contacts:
VS120: 10, 01
VS220: 20, 11, 02
VS420: 40, 31
VS425: 40, 31, 22, 04
VS440: 40, 31, 22, 04
VS463: 40, 31, 22
- Protection IP 20 - on request we deliver covers that ensure protection IP 40 for all terminals
- DIN rail or panel mounting

Technical parameters	VS120	VS220	VS420	VS425	VS440	VS463
Rated insulation voltage (Ui):	230 V	230 V	415 V	440 V	440 V	440 V
Rated thermo-current I _n (in AC):	20 A	20 A	20 A	25 A	40 A	63 A
Switched operation						
AC-1 for 400 V, 3 phase:	x	x	13 kW	16 kW	26 kW	40 kW
AC-1 for 230 V:	4 kW, 1 phase	4 kW, 1 phase	7.5 kW, 3 phase	9 kW, 3 phase	16 kW, 3 phase	24 kW, 3 phase
AC-3 for 400 V, 3 phase:	x	x	2,2 kW	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	1.1 kW, 3 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	13 kW	16 kW	26 kW	40 kW
AC-7a for 230 V:	4 kW, 1 phase	4 kW, 1 phase	7.5 kW, 3 phase	9 kW, 3 phase	16 kW, 3 phase	24 kW, 3 phase
AC-7b for 400 V, 3 phase:	x	x	2,2 kW	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	1.1 kW, 3 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	4 A
AC-15 for 230 V, 1 phase:	6 A	6 A	6 A	6 A	6 A	6 A
DC1 U _e = 24 V:	20 A	20 A	20 A	25 A	40 A	63 A
DC1 U _e = 110 V:	6 A	6 A	2 A	6 A	4 A	4 A
DC1 U _e = 220 V:	0.6 A	0.6 A	0.5 A	0.6 A	1.2 A	1.2 A
Loadability of modular contactors see page 143						
The max. number of switching for max. load:	600 switch/hr.	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 :	0.2x10 ⁶	0.2x10 ⁶	0.2x10 ⁶	0.2x10 ⁶	0.1x10 ⁶	0.1x10 ⁶
AC-3-power load:	0.3x10 ⁶	0.3x10 ⁶	0.3x10 ⁶	0.5x10 ⁶	0.15x10 ⁶	0.15x10 ⁶
AC-5a - high-intensity discharge lamp:	0.1x10 ⁶ by 30 μF	0.1x10 ⁶ by 30 μF	0.3x10 ⁶ by 36 μF	0.1x10 ⁶ by 36 μF	0.1x10 ⁶ by 220 μF	0.1x10 ⁶ by 330 μF
AC-5b - incandescent lamps :	0.1x10 ⁶ by 2 kW	0.1x10 ⁶ by 2 kW	0.1x10 ⁶ by 2 kW	0.1x10 ⁶ by 2 kW	0.1x10 ⁶ by 4 kW	0.1x10 ⁶ by 5 kW
AC-7a - resistive household devices:	0.2x10 ⁶	0.2x10 ⁶	0.2x10 ⁶	0.2x10 ⁶	0.1x10 ⁶	0.1x10 ⁶
AC-7b - inductive household devices:	0.3x10 ⁶	0.3x10 ⁶	0.3x10 ⁶	0.3x10 ⁶	0.15x10 ⁶	0.15x10 ⁶
Minimal load:	≥ 17 V, ≥ 50 mA	≥ 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	20 A	25 A	63 A	80 A
Coordination Type according EN 60 947-4-1:	2	2	2	2	2	2
Electrical strength:	4 kV	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 (2.5 mm ²)	AWG 7 (10 mm ²)	AWG 3 (25 mm ²)	AWG 3 (25 mm ²)
Stranded conductor:	6 mm ²	6 mm ²	2.5 mm ²	6 mm ²	16 mm ²	16 mm ²
Maximal torque:	1.2 Nm	1.2 Nm	1.2 Nm	1.2 Nm	3.5 Nm	3.5 Nm
Coil - max. cable size:						
Solid conductor:	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)
Stranded conductor:	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²	2.5 mm ²
Max. torque:	0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm
Operating						
Coil control voltage:	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V
Coil permanent supply +/- 10%:	2.1 VA/2.1 W	2.1 VA/2.1 W	5 VA/1.5 W	2.6 VA/2.6 W *	5 VA/5 W	5 VA/5 W
Coil gears supply +/- 10%:	2.1 VA/2.1 W	2.1 VA/2.1 W	30 VA/25 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**	max. 2 contactors**
Weight:	120 g (4.2 oz.)	130 g (4.6 oz.)	170 g (6 oz.)	213 g (7.5 oz.)	400 g (14 oz.)	400 g (14 oz.)
Dimensions:	17.5x85x60 mm (0.7" x 3.35" x 2.4")	17.5x85x60 mm (0.7" x 3.35" x 2.4")	35x62.5x57 mm (1.4" x 2.7" x 2.24")	35x85x60 mm (1.4" x 3.35" x 2.4")	53.3x84x60 mm (2.1" x 3.31" x 2.4")	53.3x84x60 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, VDE 0660

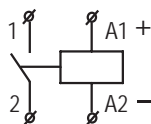
* 3.8 VA/3,8 W for -04 version of contacts

** Note: In case several contactors are mounted close to each other, you need to use a installation spacer between every other contactor. We offer installation spacer of type IKV.



VS120

VS120-10



VS120-01

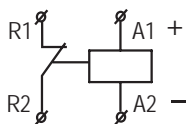
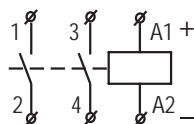


Photo VS120
Photo VS220

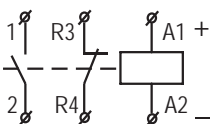


VS220

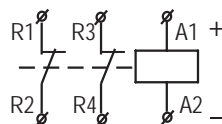
VS220-20



VS220-11

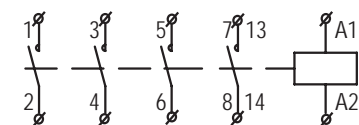


VS220-02



VS420

VS420-40



VS420-31

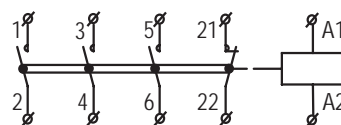
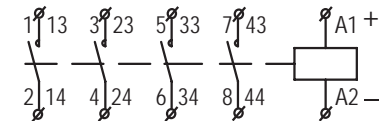


Photo VS420



VS425

VS425-40



VS425-31

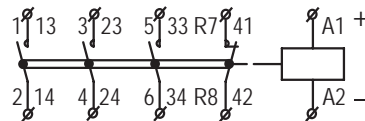
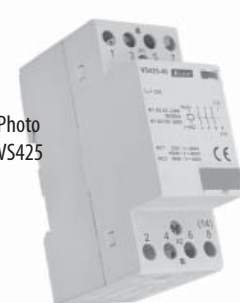
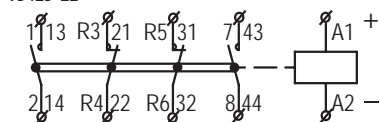


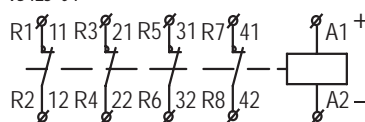
Photo VS425



VS425-22

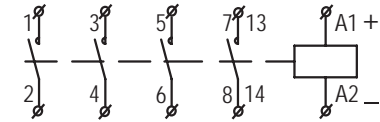


VS425-04



VS440

VS440-40



VS440-31

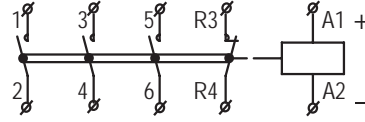
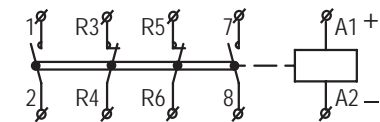


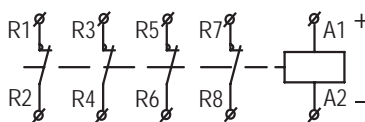
Photo VS440
Photo VS463



VS440-22

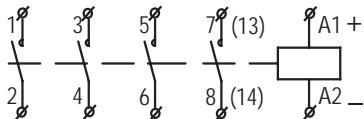


VS440-04

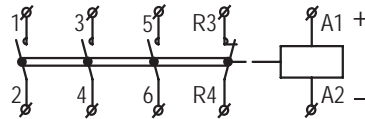


VS463

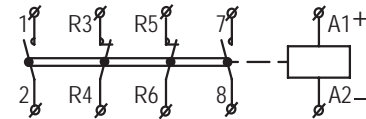
VS463-40



VS463-31



VS463-22



Auxiliary contacts for VS425, VS440, VS463 and VSM220, VSM425

Datas of auxiliary contacts for VSK-11 and VSK-20

Ambient temperature:	-5 °C to +55 °C (23 °F to 131 °F)
Rated insulation voltage (Ui):	500 V
Electrical strength:	4 kV
Rated current 230 V (AC 15):	6 A
Rated current 400 V (AC 15):	4 A
Max. switching frequency:	6 A
The max. number of switching for max. load:	600 sep./hod.
Minimal load:	≥ 12 V, ≥ 10 mA
Short circuit protection with the fuse char. aM:	6 A
Solid/ Stranded conductor (max):	2.5 mm ² (AWG 10)/ 2.5 mm ² (AWG 10)
Maximal torque:	0.8 Nm
Weight:	10 g (0.35 oz.)
Dimensions:	10x85x60 mm (0.4"x 3.35"x 2.4")

Connection of auxiliary contact VSK-11 and VSK-20

EAN code

see page 149

VSK-11

VSK-20

