



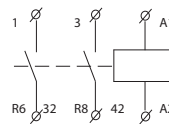
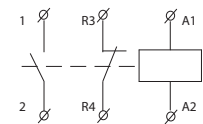
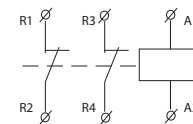
EAN code
see page 59

Technical parameters	VSM220	VSM425
Rated insulation voltage (Ui):	230 V	440 V
Rated thermo-current I_{th} (in AC):	20 A	25 A
Voltage range:	50/60 Hz	50/60 Hz
Switched operation		
AC-1 for 400 V:	x	16 kW, 3 phase
AC-1 for 230 V:	4 kW, 1 phase	9 kW, 3 phase
AC-3 for 400 V:	x	4 kW, 3 phase
AC-3 for 230 V:	1.3 kW only NO, 1 phase	2.2 kW, 3 phase
AC-7a for 400 V:	x	16 kW, 3 phase
AC-7a for 230 V:	4 kW, 1 phase	9 kW, 3 phase
AC-7b for 400 V:	x	4 kW, 3 phase
AC-7b for 230 V:	1.3 kW only NO, 1 phase	2.2 kW, 3 phase
AC-15 for 400 V:	4 A	4 A
AC-15 for 230 V:	6 A	6 A
DC1 $U_e = 24$ V:	20 A	25 A
DC1 $U_e = 110$ V:	6 A	6 A
DC1 $U_e = 220$ V:	0.6 A	0.6 A
Loadability of modular contactors see page 58		
The max. number of switching for max. load:	600 switch/hr.	600 switch/hr.
Electrical life in 230/400 V		
AC-1- resistive load :	200.000	200.000
AC-3 - power load:	300.000	500.000
AC-5a - high-intensity discharge lamp:	100.000 by 30 μ F	100.000 by 36 μ F
AC-5b - incandescent lamps:	100.000 by 1.5 kW	100.000 by 1.5 kW
AC-7a - resistive household devices:	200.000	200.000
AC-7b - inductive household devices:	300.000	500.000
Minimal load:	≥ 17 V, ≥ 50 mA	≥ 17 V, ≥ 50 mA
Short circuit protection with the fuse char. aM:	20 A	25 A
Coordination Type according EN 60 947-4-1:	2	2
Electrical strenght:	4 kV	4 kV
Contacts - max. cable size		
Solid conductor:	AWG 7 (10 mm ²)	AWG 7 (10 mm ²)
Stranded conductor:	6 mm ²	6 mm ²
Maximal torque:	1.2 Nm	1.2 Nm
Coil - max. cable size		
Solid conductor:	AWG 10 (2.5 mm ²)	AWG 10 (2.5 mm ²)
Stranded conductor:	2.5 mm ²	2.5 mm ²
Max. torque:	0.6 Nm	0.6 Nm
Operating		
Coil control voltage:	AC 12 V, 24 V, 110 V, 230 V	AC 12 V, 24 V, 42 V, 230 V
Coil permanent supply +/- 10 %:	2.8 VA/1.2 W	5.5 VA/1.6 W
Coil gear supply +/- 10 %:	12 VA /10 W	33 VA/25 W
Mounting side-by-side:	max. 2 contactors*	max. 2 contactors*
Operational temperature:	-5 to +55 °C (23 to 131 °F)	
Storing temperature:	-30 to +80 °C (-22 to 176 °F)	
Weight:	140 g (4.9 oz.)	260 g (9.17 oz.)
Dimensions:	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")
Standards:	IEC 60947-4-1, IEC 60947-5-1, IEC 61095, EN 60947-4-1, EN 61095, EN 60947-1	

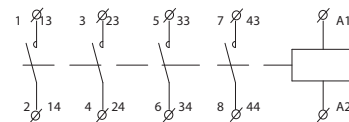
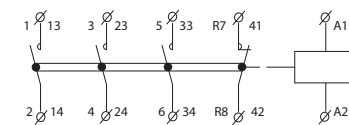
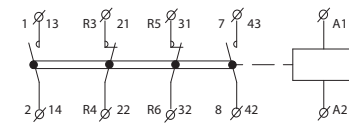
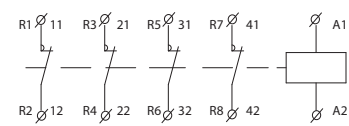
- Special version of installation contactors with not only basic functions but also with manual control.
- For switching accumulative appliances for heating and service water warming.
- Description of individual positions of manual control.
 - AUTO: common function as with installation contactors without manual control.
 - 1: shifting from AUTO to 1: operational contacts are closed and back contacts are open until there is another impulse to a contactor coil.
 - 0: contacts are open (operational contact) or closed (stand-by contact) regardless voltage.
- Optical indicator: ON-OFF.
- It is produced in configuration of making and breaking contacts:
 - VSM220: 20, 11, 02
 - VSM425: 40, 31, 22, 04.
- It is possible to connect auxiliary contacts VSK to contactors VSM220, VSM425.

Connection VSM220

VSM220 - only AC supply voltage

VSM220-20**VSM220-11****VSM220-02****Connection VSM425**

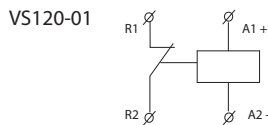
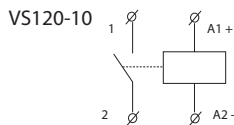
VSM425 - only AC supply voltage

VSM425-40**VSM425-31****VSM425-22****VSM425-04****Auxiliary contacts VSK-11 and VSK-20**

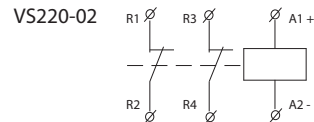
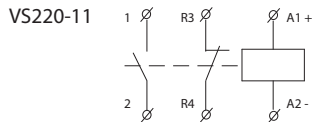
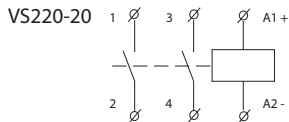
Datas of auxiliary contacts for VSK-11 and VSK-20 see page 57.

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

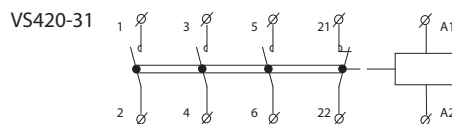
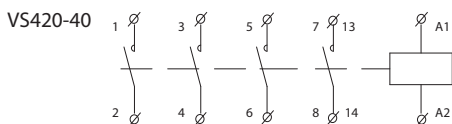
VS120



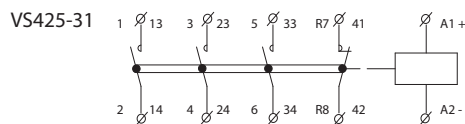
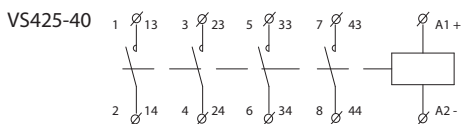
VS220



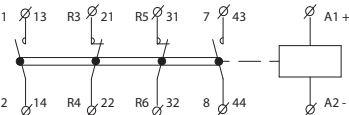
VS420



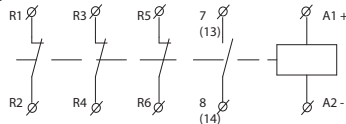
VS425



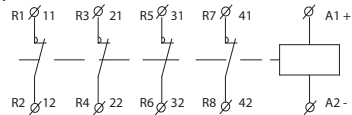
VS425-22



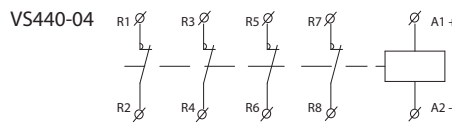
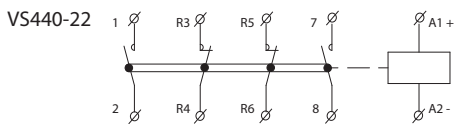
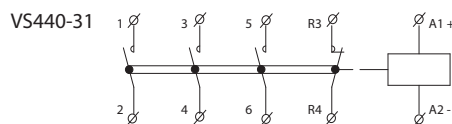
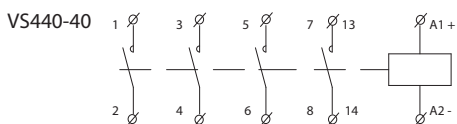
VS425-13



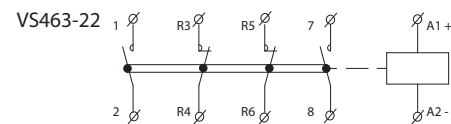
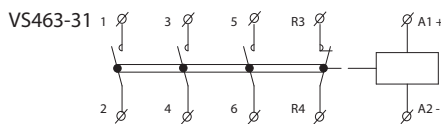
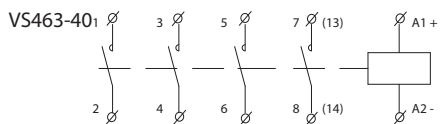
VS425-04



VS440



VS463



Auxiliary contacts for VS120, VS 220, VS425, VS440, VS463, 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
Dielectric 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 /2.5 mm ² (AWG 10)
Maximal torque:	0.8 Nm
Weight:	10 g (0.35 oz.)
Dimensions:	10 x 85 x 60 mm (0.4" x 3.35" x 2.4")

Connection of auxiliary contact VSK-11 and VSK-20

EAN code see page 59

VSK-11



VSK-20

