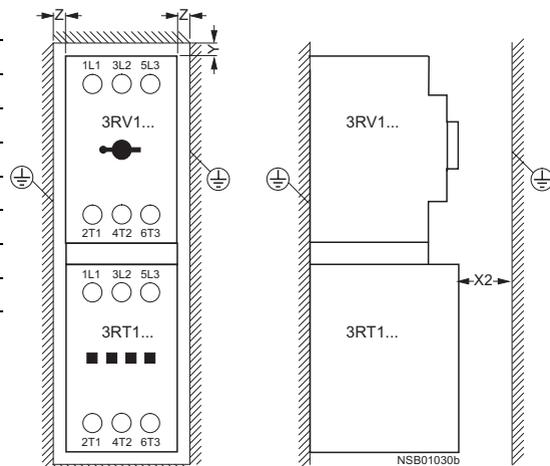


Installation guidelines for 400/500 V AC

The following distances from grounded components must be observed when installing combinations:

Motor starter protectors in combination with contactors			Distance to grounded or live parts acc. to IEC 60947-4		
Motor starter protectors	Contactors	Rated operational voltage	Y mm	X2 ¹⁾ mm	Z mm
3RV1. 1 with	3RT10 1	400/500 V	20	10	9
3RV1. 2 with	3RT10 1	400/500 V	30	10	9
	3RT1. 2	400/500 V	30	10	9
	3RT1. 3	400/500 V	30	10	9
3RV1. 3 with	3RT10 2	400/500 V	50	10	10
	3RT1. 3	400/500 V	50	10	10
	3RT10 4	400/500 V	50	10	10
3RV1. 4 with	3RT10 4	400 V	90	10	12
	3RT10 4	500 V	220	10	20



¹⁾ Minimum distance to contactor at front. For the motor starter protector, no minimum distance at the front must be maintained.

Installation guidelines for 690 V AC

For assembling fuseless load feeders for 690 V, one upstream and one downstream motor starter protectors are required. If the sum of the set currents does not exceed the rated or set current of the upstream motor starter protector, several downstream motor starter protectors can also be used in parallel. The motor starter protectors must be placed adjacent to each other and can be connected with the wiring modules specified below.

The contactor can be fitted with a link module under the downstream motor starter protector. If contactor assemblies are used for reversing duty, the assembly must be mounted so that the space beneath the upstream motor starter protector (infeed side) remains free.

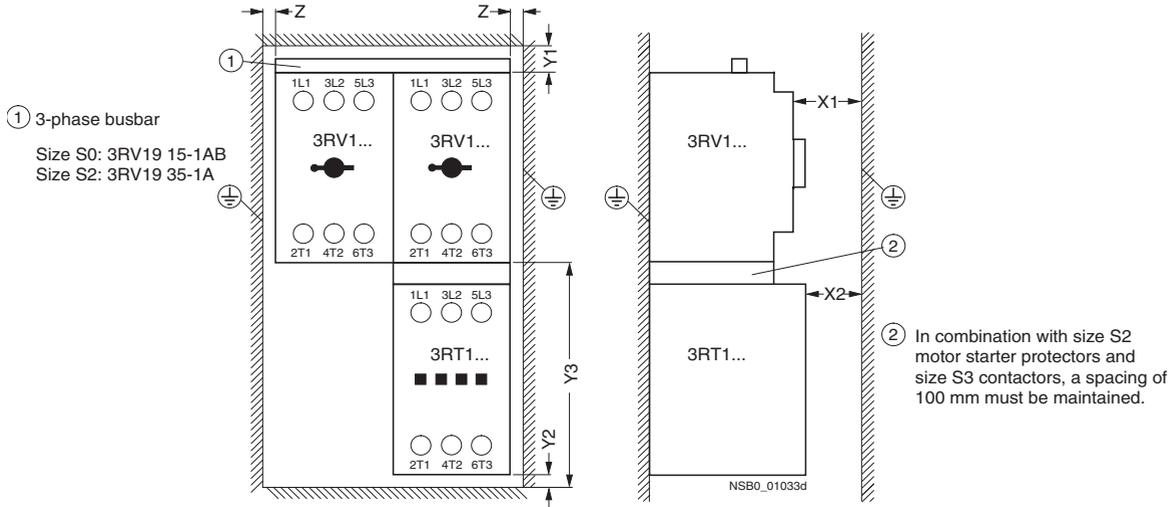
Size	Mounting methods	Standard mounting for size S0 ... 5.5 kW, S2 and S3	Mounting for size S0 from 7.5 ... 11 kW
S0	Mounting on an insulated base plate. If screws are used for fixing, the screws must not be grounded. Alternatively, the standard mounting rail adapter can be used without restriction.	<p>3-phase busbar Size: S0 3RV19 15-1A Size: S2 3RV19 35-1A</p> <p>Infeed side</p> <p>Load side</p> <p>NSB0_01031d</p>	<p>Infeed side</p> <p>Link module See accessories</p> <p>Load side</p>
S2/S3	Mounting on an insulated base plate. Alternatively, the standard mounting rail adapter can also be used.		

3RA Fuseless Load Feeders

General data

The following distances from grounded components must be observed when installing combinations:

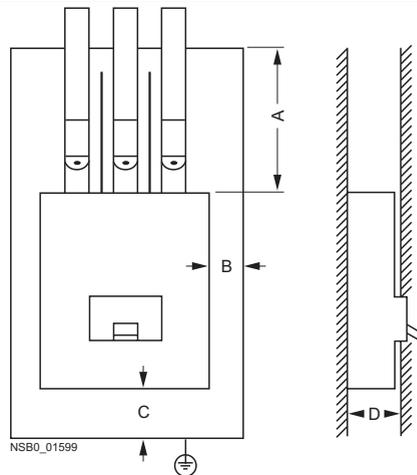
Two motor starter protectors in combination with contactors			Distance to grounded or live parts according to IEC 60947-4					
Motor starter protectors	Contactors	Rated operational voltage	Y1 mm	Y2 mm	Y3 mm	X1 mm	X2 mm	Z mm
3RV1. 2 with	3RT10 2	690 V	80	10	95	20	14	20
3RV1. 3 with	3RT10 3	690 V	50	10	120	10	32	10
	3RT10 4	690 V	50	10	120	10	40	10



Clearances to grounded parts for 3VL circuit breakers

Circuit breakers	Rated operational voltage U_e	Distance from grounded parts			
		A	B	C	D

3VL2/3VL3¹⁾	Max. 400	100	25	30	87
3VL2/3VL3²⁾	400 ... 525	100	25	30	87
3VL4/3VL5¹⁾	Max. 525	100	35	30	106.5

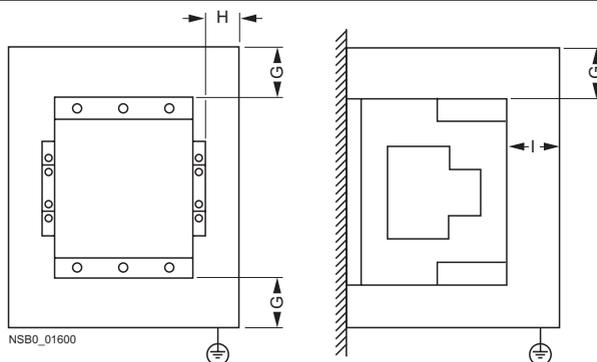


¹⁾ The 3VL9 300-8CE00 phase barriers (for 3VL2/3VL3) or 3VL9 600-8CE00 phase barriers (for 3VL4/3VL5) must be used.

²⁾ The 3VL9 300-8C..0 terminal cover must be used.

*Distances from grounded parts for 3RT10 5./3RT10 6./
3RT10 7. and 3RT12 6./3RT12 7. contactors*

Contactors	Distance from grounded parts, rated operational voltage up to 690 V		
	G	H	I
3RT10 5.	40	10	20
3RT10 6./3RT12 6.	20	10	20
3RT10 7./3RT12 7.	20	10	20



G = Distance from box terminal.

In applications with cable lugs or busbar connection the 3RT19 56-4EA1 (3RT10 5) or 3RT19 66-4EA1 (3RT10 6., 3RT12 6., 3RT10 7. or 3RT12 7.) terminal cover must be used!