

Star-Delta Starters with Isolator

Type EXE2SI

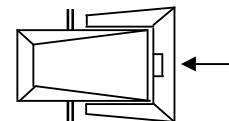


Metal Enclosure to IP65

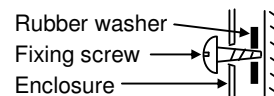
Installation Instructions

Issue 10

1. Remove cover from starter by releasing catches with a screwdriver.
2. Select overload: (see ratings / conversion charts below).
3. Connect leads provided from – Main Auxiliary 4 to Overload 95 and Main 5/L3 to Overload 96.
4. Check operating coil voltage and frequency.
5. Remove appropriate top/bottom knockouts.
6. Mount base on a vertical surface using top keyhole slots for quick positioning and secure with screws in lower plain holes.
7. To maintain environmental protection, ensure that rubber washers are fitted to fixing screws on outside of enclosure.
Use large washer for keyhole fixing.
8. Connect conduit bushes.
9. Connect cables and ensure that all terminals are tight.
10. When installed, set the hand/auto reset selector and adjust the current calibration to the desired value.
11. Replace cover and secure catches.



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Ratings

Starter Order references		Requires Overload	Overload rating Full load A		Approximate motor rating				Recommended max. fuse size for short circuit protection A
Coil Voltages (50Hz)					400V/3PH AC3		230V/3PH AC3		
230V	400V		min.	max.	KW	hp	KW	hp	
312EXE2SI-OL 1TVL405216E5099	314EXE2SI-OL 1TVL405416E5099	TA25DU8.5 1SAZ211201R1040	6.0	8.5	5.5	7.5	3.0	4.0	20
		TA25DU14 1SAZ211201R1045	10	14	11	15.0	5.5	7.5	35
		TA25DU19 1SAZ211201R1047	13	19	15	20.0	7.5	10.0	80
452EXE2SI-OL 1TVL405226E5099	454EXE2SI-OL 1TVL405426E5099	TA25DU32 1SAZ211201R1053	24	32	22	30.0	11.0	15.0	80

Note: This product is not suitable for d.c. applications.

Terminal capacity

Isolator	Main
All ratings	0.75...10mm ²

Overload	Main	Auxiliary
< 7.5kW	4mm ²	1x4mm ² / 2x2.5mm ²
11kW	4mm ²	" "
15kW	6mm ²	" "
22kW	6mm ²	" "

Trip class requirements IEC 947-4-1

1.05 x FLC	No tripping
1.2 x FLC	Trip within 2 hours
1.5 x FLC	Trip within 4 minutes
7.2 x FLC	Trip between 4s and 10s

NOTE: FLC = Full load current

Summary

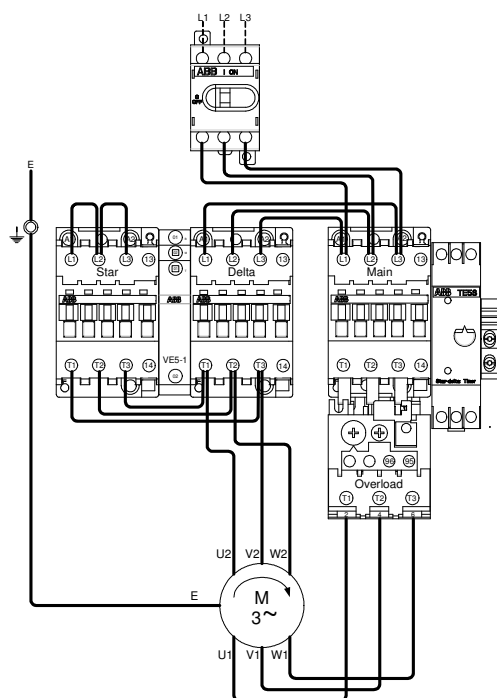
A range of star-delta motor starters with isolator
Ingress protection to IP65.
Painted steel enclosure.

N.B. Space is available to fit standard ABB top and side mounted auxiliary contacts.

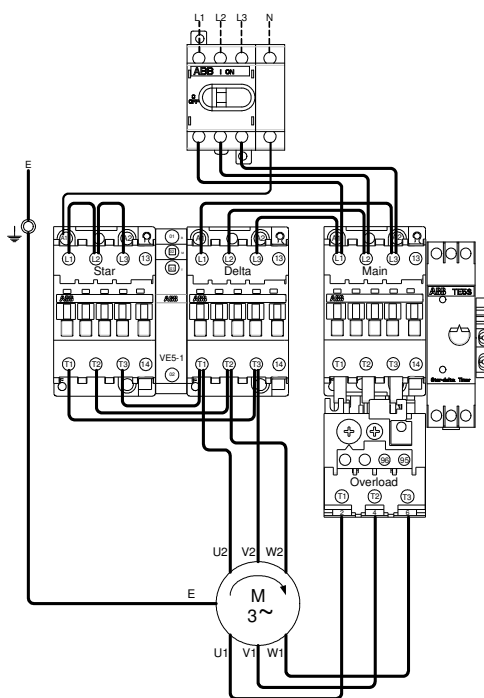


Connection Data

Type 4 EXE2SI (400V coil)



Type 2 EXE2SI (230V coil)



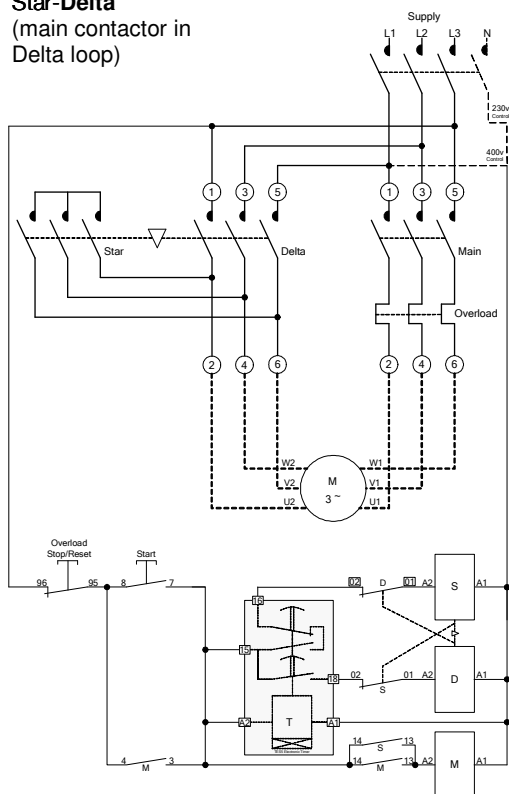
Conversion Chart

Motor full load current A	Overload setting Delta loop current A
5	2.9
6	3.5
7	4.0
8	4.6
9	5.2
10	5.8
12	7.0
14	8.1
16	9.3
18	10.4
20	11.6
25	14.5
30	17.4
35	20.3
40	23.2
45	26.1
50	29.0
55	32.0

Note : Overload relay is fitted in the delta loop. It is therefore necessary to use the conversion chart to obtain correct overload setting for a particular motor full load current.

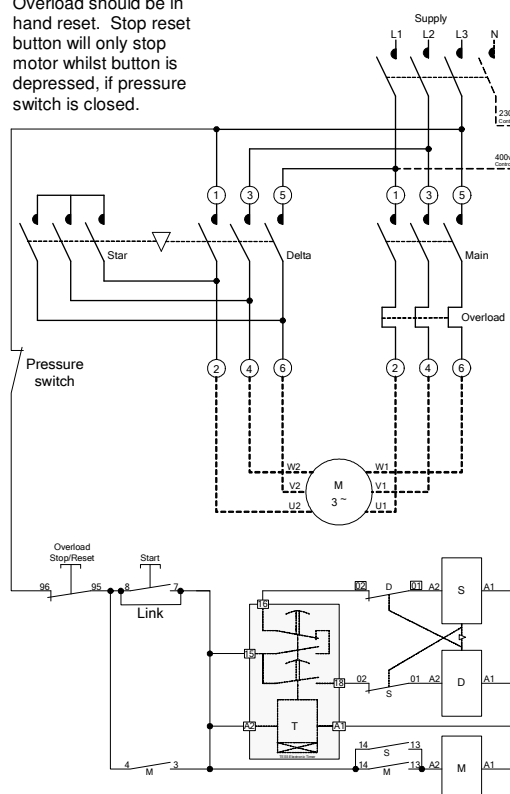
Circuit

Star-Delta
(main contactor in Delta loop)



Modification for remote 2-wire control

Overload should be in hand reset. Stop reset button will only stop motor whilst button is depressed, if pressure switch is closed.



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