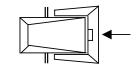
Star-Delta Starters Type EXE2S

Metal Enclosure to IP65 Installation Instructions

> Remove cover from starter by releasing catches with a screwdriver. Insert screwdriver into slot to release catch. IFOVERLOAD IS ALREADY FITTED GO TO 3.



Fixing screw

- 2. Wiring to overload:
 - Connect leads provided from terminal 54 (Main) to terminal 95 and terminal 1 (Main) to terminal 96.
- 3. Check operating coil voltage and frequency.
- 4. Remove appropriate top/bottom knockouts.
- 5. Mount base on a vertical surface using top keyhole slot(s) for quick positioning and secure with screws in lower plain holes. To maintain environmental protection, ensure that rubber washers are fitted to fixing screws on outside of enclosure. Use large washer for keyhole fixing.

 Rubber washer
- 6. Connect conduit bushes.
- 7. Connect cables and ensure that all terminals are tight.
- 8. When installed, set the hand/auto reset selector and adjust the current calibration to the desired value.
- 9. Replace cover and secure catches.

Ratings

Order references				Approximate motor rating		Recommended max.		
Coil Voltages (50Hz)		Overload rating Full load A		400V/3PH AC3		230V/3PH AC3		fuse size for short circuit protection A
230V	400V	min.	max.	KW	hp	KW	hp	
142EXE2S 1TVL404209E5085	144EXE2S 1TVL404409E5085	6.0	8.5	5.5	7.5	3.0	4.0	20
212EXE2S 1TVL404212E5140	214EXE2S 1TVL404412E5140	10	14	11	15.0	5.5	7.5	35
312EXE2S 1TVL404216E5190	314EXE2S 1TVL404416E5190	13	19	15	20.0	7.5	10.0	80
312EXE2S-OL 1TVL404216E5099	314EXE2S-OL 1TVL404416E5099	13	19	15	20.0	7.5	10.0	80
452EXE2S 1TVL404226E5320	454EXE2S 1TVL404426E5320	24	32	22	30.0	11.0	15.0	80
452EXE2S-OL 1TVL404226E5099	454EXE2S-OL 1TVL404426E5099	24	32	22	30.0	11.0	15.0	80

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

Terminal capacity

Supply terminals	Main
All ratings	6mm ²
Airaungs	OTHE

Trip class requirements	IEC 947-4-1
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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

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

Summary

A range of star-delta motor starters lingress protection to IP65. Painted steel enclosure.

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



