



- **Automatic changeover from star to delta after an adjustable time**
- **Integrated thermal-magnetic motor protection**
- **Thermal contact connection (bi-metal)**
- **Manual / automatic mode can be easily switched using a selector switch**
- **2 level controllers, 2(3) level electrodes or a float switch connectable**
- **Operating indicator and phase-control**
- **Shutdown of the consumer in the event of a phase error**
- **It is not possible to start the consumer with a left rotating field**
- **Mobile and easy to transport**
- **Good visibility through signal housing**

Nolta GmbH

Industriestr. 8
35091 Cölbe
Germany

Phone: +49 6421/98590
Fax: +49 6421/985928
info@nolta.de
www.nolta.de



Available versions

Automatic star-delta starter		Articlenumber 70 6100..	housing color
Adjustment range motor protection	13,00 - 18,00 A	..32	yellow
	17,00 - 23,00 A	..33	
	20,00 - 25,00 A	..34	
	24,00 - 32,00 A (rated current max. 29 A)	..35	
	30,00 - 40,00 A	..36	
	37,00 - 50,00 A	..37	black
	48,00 - 65,00 A (rated current max. 63 A)	..38	

The automatic star-delta starter is specially designed for use in connection with pumps. This enables motors up to max. 15 kW can be started whose direct start is not permitted. In automatic mode, the device can be controlled either via a level controller, level electrodes or a float switch. An integrated motor protection (thermal / magnetic) as well as the possibility to connect a thermal monitor protect the system from defects. The integrated supply voltage monitoring signals phase errors and phase sequence errors and switches off the connected consumer in the event of an error or prevents the consumer from starting when the rotating field is left.

Technical data

Up to 15 kW:

Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Nominal operating current	Max. 29 A
Rated power AC3/400V	Max. 15 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 ... +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	PG 29 (13-20 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm ² rigid/ 0,5 - 10 mm ² flexible / 20 - 8 AWG
Housing	Solid rubber, Signal yellow RAL 1003
Dimensions	360 x 340 x 330 mm (L x W x H incl. handle)
Weight	approx. 10 kg

From 15 kW:

Switch cycles	Max. 20 starts/h
Operating voltage	400 V AC
Operating current	Max. 63A
Rated power AC3/400V	Max. 32 kW
Supply frequency	50 - 60 Hz
Temperature range	-20 - +60°C
Protection class	IP44
Therm. Tripping	Yes
Magn. Tripping	Yes
Cable glands (2x each)	M 40 (19-28 mm), M16 (4-10 mm)
Cross sections of the main conductors	0,5 - 10 mm ² rigid/ 0,5 - 16 mm ² flexible / 20 - 8 AWG
Housing	Solid rubber, black
Dimensions (L x W x H incl. handle)	565 x 450 x 460 mm
Weight	24.5 kg

Equipment *

Article	Typ	Articlenumber
Level-controller MS1	MS1	40 0001..
Float switch KR2	KR2	43 0014..
Level-electrode KS1	Level-electrode without labeling	27 0001..
Level-electrode KS1 "min"	Level-electrode with labeling "min"	27 0001..-min
Level-electrode KS1 "max"	Level-electrode with labeling "max"	27 0001..-max
Connection-set	CEE 32A H07RN-F5G4 3m	03 3203-4
Connection-set	CEE 32A H07RN-F5G6 3m	03 3203-6
Connection-set	CEE 63A H07RN-F5G6 3m	03 6303-6
Connection-set	CEE 63A H07RN-F5G10 3m	03 6303-10
Connection-set	CEE 63A H07RN-F5G16 3m	03 6303-16

* further usable level controllers and possible cable lengths on request or at www.nolta.de

