

#### Features:

- ❑ two-phase controlled soft starter
- ❑ easy mounting, also for retrofitting into existing plants
- ❑ integrated bypass relay
- ❑ no mains neutral conductor (N) required
- ❑ parameterization by means of three potentiometers
- ❑ economically priced replacement for star/delta switches
- ❑ for mounting on top hat rail
- ❑ current reduction during acceleration
- ❑ very compact design, overall width from 45mm on
- ❑ degree of protection IP20



Soft Starters  
**AC-DUOSTART 1,5 ... 5,5**  
**CE**

#### Function:

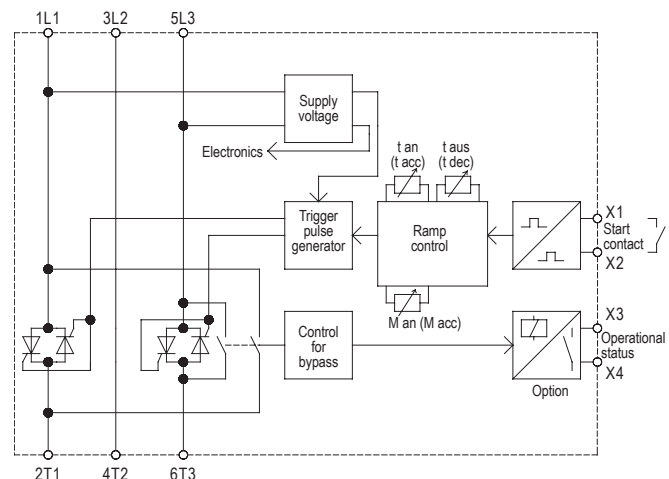
- ❑ soft start and soft stop
- ❑ potential-free control input for soft start and soft stop
- ❑ 3 separately adjustable parameters starting torque, acceleration time, deceleration time
- ❑ control (start/stop) with contact or voltage 10-42VDC

#### Typical Applications:

door and gate drives  
pumps, ventilators  
conveyors  
packaging machinery  
transformer soft start

#### Options: (upon request)

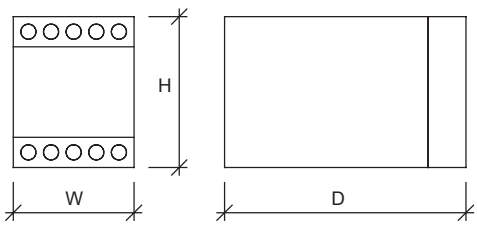
- ❑ AC-DUOSTART ... M (beginning of acceleration until end of deceleration)
- ❑ AC-DUOSTART ... S control (start/stop) with voltage 10-42VDC
- ❑ external 24V supply voltage (wide voltage range capability)



Technical Data	AC-DUOSTART		
	1,5	3	5,5
Mains / Motor voltage according to DIN EN 50160 (IEC 38)	400V ±10% 50/60Hz		
Device nominal current	3,5A	6,5A	12A
Motor rating at 400V mains voltage	1,5kW	3kW	5,5kW
min. motor current	40% of the device rated current		
Starting torque	0 ... 80%		
Acceleration time	0,5 ... 12s		
Deceleration time	0,5 ... 12s		
Reset time	200ms		
max. Switching cycle at 3x I <sub>e</sub> and 5s t <sub>an</sub>	200/h	120/h	70/h
max. Cross-sectional area	solid stranded	2x 2,5mm <sup>2</sup> 2x 1,5mm <sup>2</sup>	2x 2,5mm <sup>2</sup> 2x 1,5mm <sup>2</sup>
I <sup>2</sup> t-Value Power semiconductor	72A <sup>2</sup> s	265A <sup>2</sup> s	610A <sup>2</sup> s
Ambient / Storage temperature	0°C ... 45°C / -25°C ... 75°C		
Weight / kg	0,4	0,4	0,4
Special voltages	230V	230V 480V	230V 480V
Order number	21500.40001	21500.40003	21500.40005
Option „M“	21501.40001	21501.40003	21501.40005
Option „S“	21502.40001	21502.40003	21502.40005

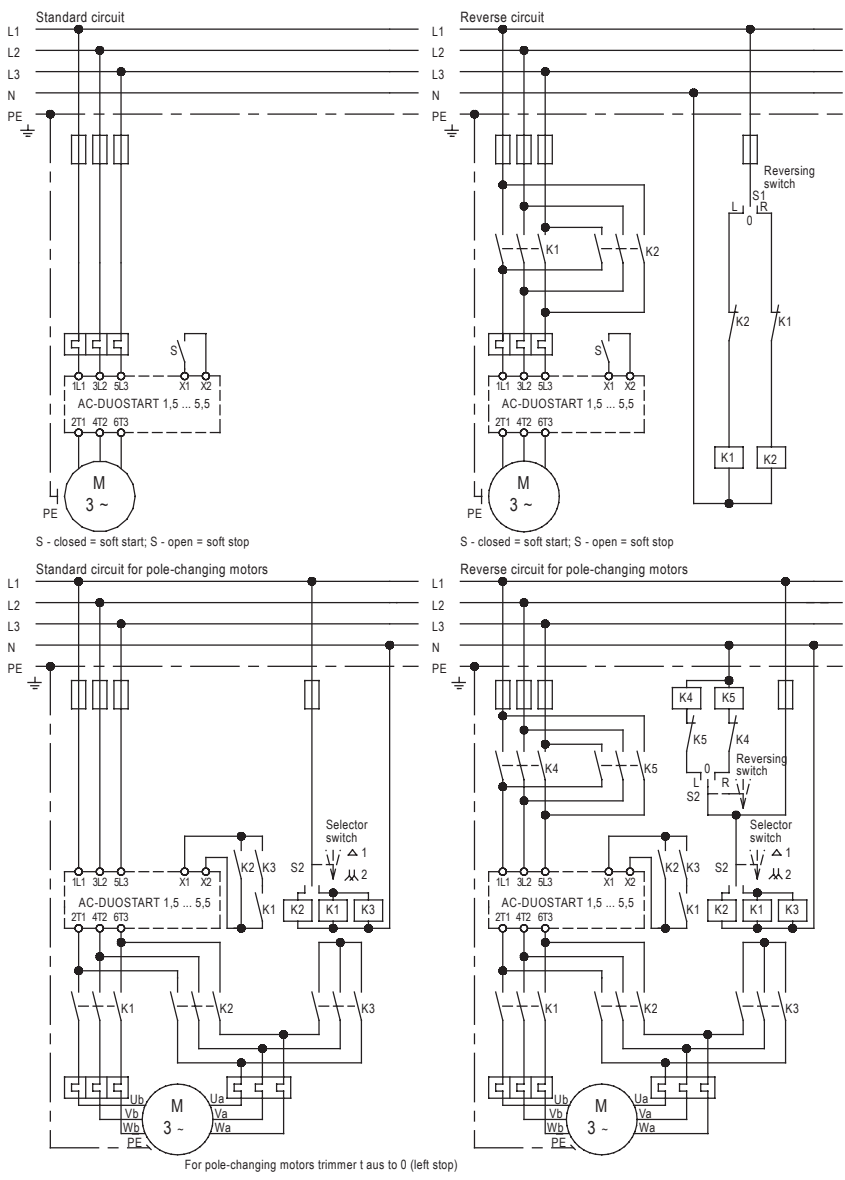
Please observe supplementary sheet with dimensioning rules.

**Dimensions:**



Mounting dimensions	W	H	D
AC-DUOSTART 1,5 ... 5,5	45mm	73mm	122mm

**Connections Diagramms:**



**EMC**  
 The limit values for emitted interference according to the applicable device standards do not rule out the possibility that receivers and susceptible electronic devices within a radius of 10m are subjected to interference.  
 If such interference, that is definitely attributable to the operation of the soft starters "AC-DUOSTART", occurs, the emitted interference can be reduced by taking appropriate measures.  
 Such measures are, e.g.:  
 to connect reactors (3mH) or a suitable mains filter in series before the soft starter, or to connect X-capacitors (0,15µF) in parallel to the supply voltage terminals.

Subject to change without notice.