

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
DUOSTART 1,5 ... 5,5



Function:

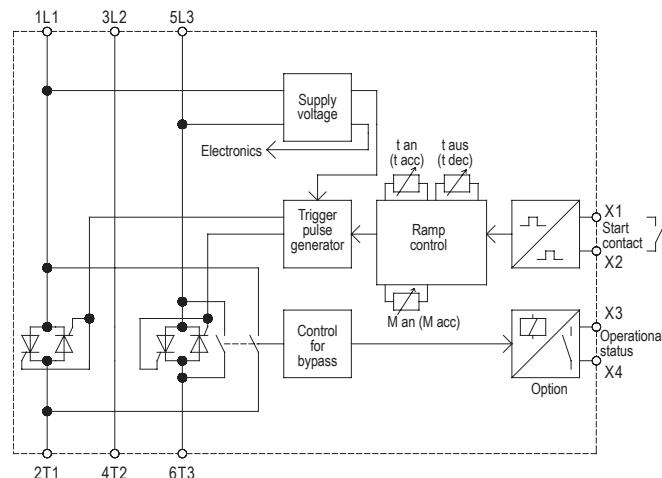
- ☒ soft start and soft stopp
potential-free control input for soft start and soft stop
- ☒ 3 separately adjustable parameters
starting torque, acceleration time, deceleration time
- ☒ control (start/stop) with contact or voltage
10-42VDC

Options: (upon request)

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

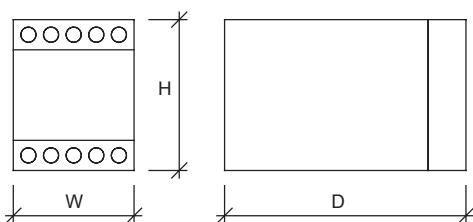
Typical Applications:

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

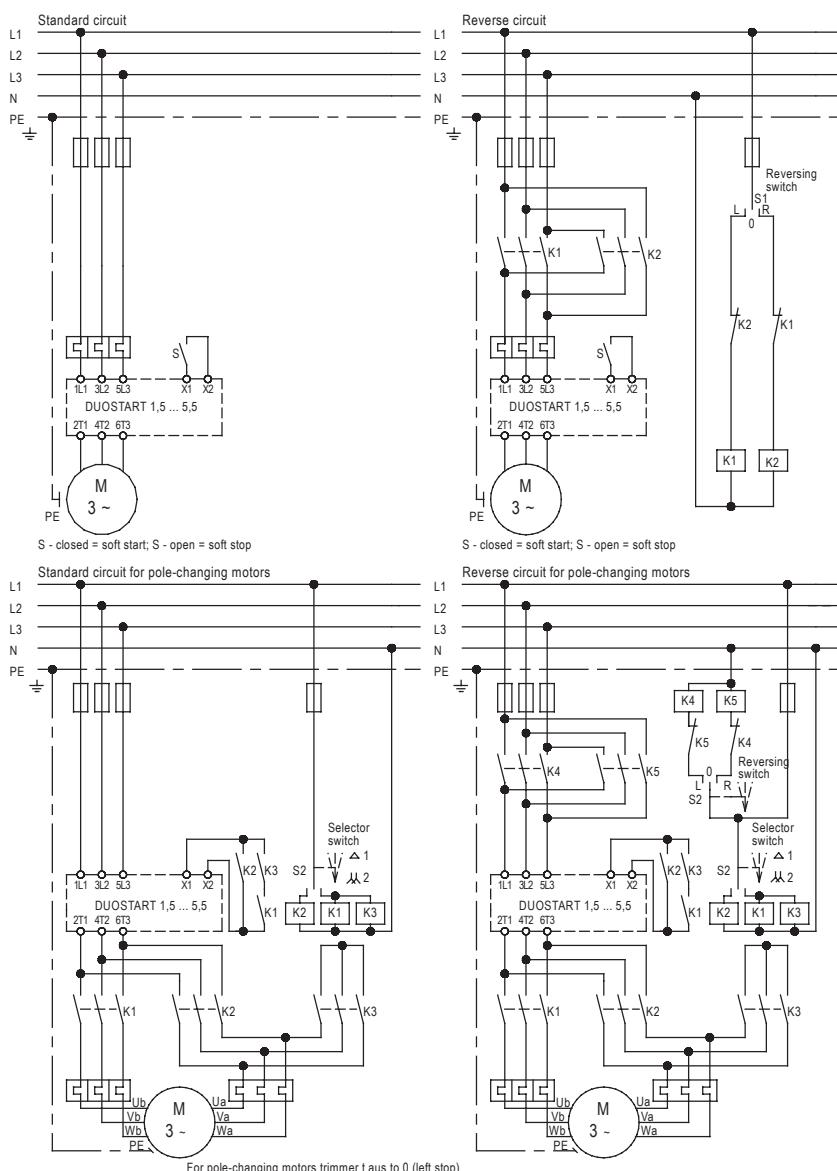


Technical Data	DUOSTART		
	1,5	3	5,5
Mains / Motor voltage according to DIN EN 50160 (IEC 38)	400V ±10% 50/60Hz		
Device nominal current	3,5A	6,5A	12A
Motor rating at 400V mains voltage	1,5kW	3kW	5,5kW
min. motor current	40% of the device rated current		
Starting torque	0 ... 80%		
Acceleration time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

Please observe supplementary sheet with dimensioning rules.

Dimensions:

Mounting dimensions	W	H	D
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 "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 ($0,15\mu F$) in parallel to the supply voltage terminals.