

# Electronic Motor Spin-up Control Unit MAS-40A



## Functional description

The electronic motor spin-up control unit has been designed for difficultly starting single-phase capacitor motors. If the motor is switched ON, a starting capacitor  $C_A$  is simultaneously connected in parallel to the operating capacitor  $C_B$  for a maximum spin-up time of 1500 ms. Thus it is possible to dimension the motor for a smaller operating capacitor  $C_B$ , to ensure a lower heat-up effect in continuous duty and to reduce the motor's size.

Thanks to the motor spin-up control unit, the motor reaches a starting torque which is up to five-fold that of usual design. Specific starting capacitors (e.g. made by Ducati, series 4.12.80) with an extremely high capacitance and minimum size are already available in the market.

## Advantages

- Smaller operating capacitor  $C_B$
- Lower heat-up effect during the continuous duty
- Smaller size of motor
- Starting torque is up to five-fold that of usual design

## Technical data

Mains voltage:	230V / 115V
Mains frequency:	50Hz / 60 Hz
Maximum starting current:	40A
Starting time:	100 ... 1500 ms (can be programmed for each customer's request)
Maximum starting capacitance:	100 $\mu$ F
Reclosing time:	1s

## Plug arrangements

$C_A$	Starting capacitor
L	Phase of mains voltage
N	Neutral conductor of mains voltage
$C_B$	Operating capacitor

## Connection diagram

