



## START CAPACITORS

*Start capacitors are a capacitor type designed to increase motor starting torque of single phase motors during start-up. Because the capacitor is normally automatically (not for continuous operation) disconnected after start-up, a large bulk capacitance can be obtained in a small volume. Start capacitors are non-polarized electrolytic capacitors. We also offer electronic start relays for automatic connection and disconnection of start capacitors.*

- *Manufactured in compliance with EN60252-2*
- *Manufactured for 50 and 60 Hz*
- *Standard connection double flat pin 6.3 mm*
- *Overpressure valve in silicone-rubber*
- *Normally delivered with case and metal clips for mounting*

## PRODUCT INFORMATION

Start capacitors are a capacitor type designed to increase motor starting torque of single phase motors during start-up. Because the capacitor is normally automatically (not for continuous operation) disconnected after start-up, a large bulk capacitance can be obtained in a small volume.

### Typical applications

A capacitor designed for intermittent alternating current applications at 50-60 Hz for the start-up of single phase motors.

### Properties

- A high capacitance value ( $\mu\text{F}$ ) to provide the single phase motor with sufficient starting torque for up-start.

### Composition

- A non-polarized electrolytic capacitor for AC connection. Plastic material of the self extinguishing type (V2).  
Overpressure valve in silicone-rubber  
Standard items are normally delivered with metal mounting clips as well as a protective casing in self extinguishing plastic.  
Connection via double flat pin 6.3 mm.  
Delivered without discharge resistors.

### Dimensions

- Capacitor incl. plastic casing  $\varnothing 46 \times 98 \text{ mm}$

### Packaging

- Sold individually from our picking stock. The number of capacitors per box = 50 units.  
Capacitors can be delivered in larger quantities with plastic casings and mounting clips and with a pre-assembled discharge resistor.  
Larger quantities on request.  
The capacitors 400 and 500 $\mu\text{F}$ /250V are order items with an MOQ of 50 units. Available in 125V execution on request,  
We also offer separate discharge resistors 470 kOhm/2W.

*Product information for which Carbex bears no responsibility is provided by the manufacturer.*





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### Start capacitors and discharge resistors

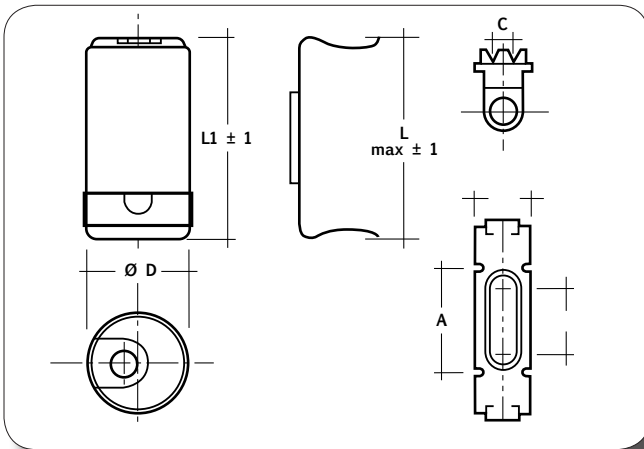
Item number	Capacitance ( $\mu\text{F}$ )	Voltage (V)	Order item
100200025	25 - 31,5	320	
100200031	31,5 - 40	320	
100200040	40 - 50	320	
100200050	50 - 63	320	
100200063	63 - 80	320	
100200080	80 - 100	320	
100200100	100 - 125	320	
100200125	125 - 160	320	
100200160	160 - 200	320	
100200200	200 - 250	320	
100200250	250 - 315	320	
100200315	315 - 400	250	
100200500	400 - 500	250	X
Item number	Resistance (kOhm)	Power (W)	
100210470	470	2	

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### Technical data

Start capacitors comply with reference standard VDE 560--8, EN 60252

#### Properties

	Value	Unit
<b>Mechanica</b>		
Dimensions capacitor $\varnothing \times L1$	46 x 98	mm
Dimensions external mounting plate L x B	104 x 28	mm
Dimensions fixing mounting plate A/C/D	56/6/37	mm
Connection Double flat pin width	6,3	mm
<b>Thermal</b>		
Operating temperature	-25 / +75	°C
Storage temperature	-40 / +85	°C
<b>Electrical</b>		
Working voltage (N=320V)	320	V
Working voltage (N=250V)	250	V
Capacitance tolerance	*	$\mu$ F
Frequency working voltage	50 - 60	Hz
Test voltage between terminals x 1 sec	1,4 x N	V
Test voltage between terminals to case	1,5	kV
Dissipation factor (at 100Hz, 20°C)	$\leq 0,1$	tan delta
Connection ratio (enl. EN 60252)**	1,67	%
Long-term stability test connecting **	500	h

\* Tolerance in the capacitance value is specified in the designation for each item.

\*\* Standard connecting time (acc. EN 60252) 3 sec and disconnecting time 177 sec.

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