



# An energy saver combines energy saving & a compact design

## Economy Twister

Compact Entry Spiral shape energy saving lamp, starts bright light rapidly and fits everywhere. It saves your money due to its low energy consumption. With a comprehensive range of wattages, it enables easy replacement of most incandescent lamp all the way

### Benefits

- "Value for Money" compact design Energy Saver
- Save your money with long life-time and high energy efficiency compare to incandescent lamp
- Flicker-free start & Fast run up

### Features

- Spiral Shape, Long-Life and Energy saving alternative to Incandescent lamps
- Fast Run-up
- Recommended ambient temperature range to ensure almost constant light output (>90%): between 0°C and +50°C

### Application

- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible; especially suitable for use in (indoor) functional areas \*  
Enclosed fixtures required for outdoor applications
- Not suitable for use with dimmers or electronic gear

# Economy Twister

## Versions



Twister 8W E27



Twister 12W, 15W E27



Twister 20W E27



Twister 8W E14



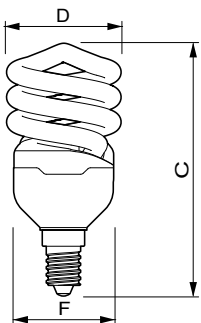
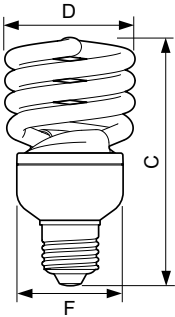
Twister 12 W E14 NG



23 W



## Dimensional drawing

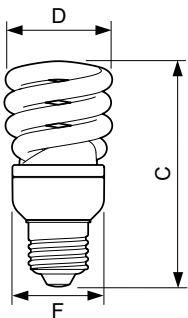
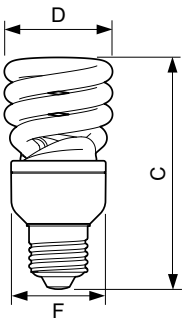
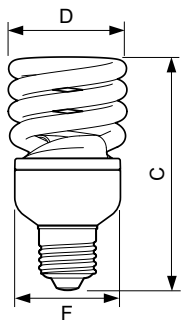
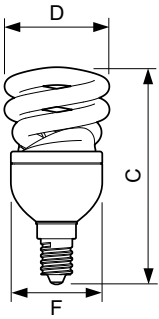


| Product                                  | D (max) | C (max)  | F (max) |
|--|---------|----------|---------|
| EconomyTwister 23W CDL E27 1PF/6         | 61.5 mm | 118.5 mm | 50.5 mm |
| EconomyTwister 23W WW E27 220-240V 1PF/6 | 61.5 mm | 118.5 mm | 50.5 mm |

| Product                                  | D (max) | C (max) | F (max) |
|--|---------|---------|---------|
| EconomyTwister 12W CDL E14 1PF/6         | 47.5 mm | 104 mm  | 40.5 mm |
| EconomyTwister 12W WW E14 220-240V 1PF/6 | 47.5 mm | 104 mm  | 40.5 mm |

# Economy Twister

## Dimensional drawing



| Product                                  | D (max) | C (max) | F (max) |
|--|---------|---------|---------|
| EconomyTwister 8W CDL E14 220-240V 1PF/6 | 47.5 mm | 96.5 mm | 40.5 mm |
| EconomyTwister 8W WW E14 220-240V 1PF/6  | 47.5 mm | 96.5 mm | 40.5 mm |

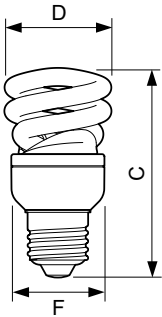
| Product                                  | D (max) | C (max)  | F (max) |
|--|---------|----------|---------|
| EconomyTwister 20W CDL E27 1PF/6         | 56.5 mm | 111.5 mm | 47 mm   |
| EconomyTwister 20W WW E27 220-240V 1PF/6 | 56.5 mm | 111.5 mm | 47 mm   |

| Product                                  | D (max) | C (max)  | F (max) |
|--|---------|----------|---------|
| EconomyTwister 15W CDL E27 1PF/6         | 51.5 mm | 107.5 mm | 42.5 mm |
| EconomyTwister 15W WW E27 220-240V 1PF/6 | 51.5 mm | 107.5 mm | 42.5 mm |

| Product                                  | D (max) | C (max) | F (max) |
|--|---------|---------|---------|
| EconomyTwister 12W CDL E27 1PF/6         | 47.5 mm | 94 mm   | 40.5 mm |
| EconomyTwister 12W WW E27 220-240V 1PF/6 | 47.5 mm | 94 mm   | 40.5 mm |

# Economy Twister

## Dimensional drawing



| Product                                  | D (max) | C (max) | F (max) |
|--|---------|---------|---------|
| EconomyTwister 8W CDL E27 220-240V 1PF/6 | 47.5 mm | 86.5 mm | 40.5 mm |
| EconomyTwister 8W WW E27 220-240V 1PF/6  | 47.5 mm | 86.5 mm | 40.5 mm |

| Approval and Application              |             |
|---------------------------------------|-------------|
| Energy Efficiency Label (EEL)         | A           |
| Controls and Dimming                  |             |
| Dimmable                              | No          |
| Operating and Electrical              |             |
| Input Frequency                       | 50 or 60 Hz |
| Voltage (Nom)                         | 220-240 V   |
| Starting Time (Nom)                   | 0.3 s       |
| Warm Up Time To 60% Light (Max)       | 40 s        |
| Warm Up Time To 60% Light (Min)       | 5 s         |
| General Information                   |             |
| Nominal Lifetime (Nom)                | 6000 h      |
| Rated Lifetime (Hours)                | 6000 h      |
| Switching Cycle                       | 6000X       |
| Light Technical                       |             |
| LLmf At End Of Nominal Lifetime (Nom) | 70 %        |
| Lumen Maintenance 2000 h (Nom)        | 88 %        |
| Mechanical and Housing                |             |
| Bulb Shape                            | Spiral      |

## Approval and Application

| Order Code | Full Product Name                        | Energy Consumption kWh/1000 h | Mercury (Hg) Content (Max) |
|------------|--|-------------------------------|----------------------------|
| 21699500   | EconomyTwister 8W WW E27 220-240V 1PF/6  | 8 kWh                         | 2.0 mg                     |
| 40612100   | EconomyTwister 8W CDL E27 220-240V 1PF/6 | 8 kWh                         | 2.0 mg                     |
| 21703900   | EconomyTwister 12W WW E27 220-240V 1PF/6 | 12 kWh                        | 2.0 mg                     |
| 40614500   | EconomyTwister 12W CDL E27 1PF/6         | 12 kWh                        | 2.0 mg                     |
| 21709100   | EconomyTwister 15W WW E27 220-240V 1PF/6 | 15 kWh                        | 2 mg                       |
| 21707700   | EconomyTwister 15W CDL E27 1PF/6         | 15 kWh                        | 2 mg                       |
| 68008600   | EconomyTwister 20W WW E27 220-240V 1PF/6 | 20 kWh                        | 2 mg                       |
| 67939400   | EconomyTwister 20W CDL E27 1PF/6         | 20 kWh                        | 2 mg                       |
| 21701500   | EconomyTwister 8W WW E14 220-240V 1PF/6  | 8 kWh                         | 2.0 mg                     |
| 40613800   | EconomyTwister 8W CDL E14 220-240V 1PF/6 | 8 kWh                         | 2.0 mg                     |
| 21705300   | EconomyTwister 12W WW E14 220-240V 1PF/6 | 12 kWh                        | 2.0 mg                     |
| 40615200   | EconomyTwister 12W CDL E14 1PF/6         | 12 kWh                        | 2.0 mg                     |
| 21717600   | EconomyTwister 23W WW E27 220-240V 1PF/6 | 23 kWh                        | 2.5 mg                     |
| 21715200   | EconomyTwister 23W CDL E27 1PF/6         | 23 kWh                        | 2.5 mg                     |

## Operating and Electrical

| Order Code | Full Product Name                        | Lamp          |                    |                     |
|------------|--|---------------|--------------------|---------------------|
|            |  | Current (Nom) | Wattage Equivalent | Power (Rated) (Nom) |
| 21699500   | EconomyTwister 8W WW E27 220-240V 1PF/6  | 60 mA         | 45 W               | 8 W                 |
| 40612100   | EconomyTwister 8W CDL E27 220-240V 1PF/6 | 60 mA         | 40 W               | 8.0 W               |
| 21703900   | EconomyTwister 12W WW E27 220-240V 1PF/6 | 90 mA         | 60 W               | 12.0 W              |

| Order Code | Full Product Name                        | Lamp          |                    |                     |
|------------|--|---------------|--------------------|---------------------|
|            |  | Current (Nom) | Wattage Equivalent | Power (Rated) (Nom) |
| 40614500   | EconomyTwister 12W CDL E27 1PF/6         | 90 mA         | 58 W               | 12.0 W              |
| 21709100   | EconomyTwister 15W WW E27 220-240V 1PF/6 | 110 mA        | 75 W               | 15.0 W              |
| 21707700   | EconomyTwister 15W CDL E27 1PF/6         | 110 mA        | 70 W               | 15.0 W              |

## Economy Twister

| Order Code | Full Product Name                        | Lamp          | Wattage    | Power         |
|------------|--|---------------|------------|---------------|
|            |  | Current (Nom) | Equivalent | (Rated) (Nom) |
| 68008600   | EconomyTwister 20W WW E27 220-240V 1PF/6 | 150 mA        | 91 W       | 20.0 W        |
| 67939400   | EconomyTwister 20W CDL E27 1PF/6         | 150 mA        | 88 W       | 20.0 W        |
| 21701500   | EconomyTwister 8W WW E14 220-240V 1PF/6  | 60 mA         | 45 W       | 8.0 W         |
| 40613800   | EconomyTwister 8W CDL E14 220-240V 1PF/6 | 60 mA         | 40 W       | 8.0 W         |

| Order Code | Full Product Name                        | Lamp          | Wattage    | Power         |
|------------|--|---------------|------------|---------------|
|            |  | Current (Nom) | Equivalent | (Rated) (Nom) |
| 21705300   | EconomyTwister 12W WW E14 220-240V 1PF/6 | 90 mA         | 60 W       | 12.0 W        |
| 40615200   | EconomyTwister 12W CDL E14 1PF/6         | 90 mA         | 58 W       | 12.0 W        |
| 21717600   | EconomyTwister 23W WW E27 220-240V 1PF/6 | 170 mA        | 110 W      | 23.0 W        |
| 21715200   | EconomyTwister 23W CDL E27 1PF/6         | 170 mA        | 103 W      | 23.0 W        |

### General Information

| Order Code | Full Product Name                        | Cap-Base |
|------------|--|----------|
| 21699500   | EconomyTwister 8W WW E27 220-240V 1PF/6  | E27      |
| 40612100   | EconomyTwister 8W CDL E27 220-240V 1PF/6 | E27      |
| 21703900   | EconomyTwister 12W WW E27 220-240V 1PF/6 | E27      |
| 40614500   | EconomyTwister 12W CDL E27 1PF/6         | E27      |
| 21709100   | EconomyTwister 15W WW E27 220-240V 1PF/6 | E27      |
| 21707700   | EconomyTwister 15W CDL E27 1PF/6         | E27      |
| 68008600   | EconomyTwister 20W WW E27 220-240V 1PF/6 | E27      |

| Order Code | Full Product Name                        | Cap-Base |
|------------|--|----------|
| 67939400   | EconomyTwister 20W CDL E27 1PF/6         | E27      |
| 21701500   | EconomyTwister 8W WW E14 220-240V 1PF/6  | E14      |
| 40613800   | EconomyTwister 8W CDL E14 220-240V 1PF/6 | E14      |
| 21705300   | EconomyTwister 12W WW E14 220-240V 1PF/6 | E14      |
| 40615200   | EconomyTwister 12W CDL E14 1PF/6         | E14      |
| 21717600   | EconomyTwister 23W WW E27 220-240V 1PF/6 | E27      |
| 21715200   | EconomyTwister 23W CDL E27 1PF/6         | E27      |

### Light Technical (1/2)

| Order Code | Full Product Name                        | Chromaticity       | Chromaticity       | Color | Color           |
|------------|--|--------------------|--------------------|-------|-----------------|
|            |  | Coordinate X (Nom) | Coordinate Y (Nom) | Code  | Designation     |
| 21699500   | EconomyTwister 8W WW E27 220-240V 1PF/6  | 463                | 420                | 827   | Warm White (WW) |
| 40612100   | EconomyTwister 8W CDL E27 220-240V 1PF/6 | 313                | 337                | 865   | Cool Daylight   |
| 21703900   | EconomyTwister 12W WW E27 220-240V 1PF/6 | 463                | 420                | 827   | Warm White (WW) |
| 40614500   | EconomyTwister 12W CDL E27 1PF/6         | 313                | 337                | 865   | Cool Daylight   |
| 21709100   | EconomyTwister 15W WW E27 220-240V 1PF/6 | 463                | 420                | 827   | Warm White (WW) |
| 21707700   | EconomyTwister 15W CDL E27 1PF/6         | 313                | 337                | 865   | Cool Daylight   |
| 68008600   | EconomyTwister 20W WW E27 220-240V 1PF/6 | 463                | 420                | 827   | Warm White (WW) |

| Order Code | Full Product Name                        | Chromaticity       | Chromaticity       | Color | Color           |
|------------|--|--------------------|--------------------|-------|-----------------|
|            |  | Coordinate X (Nom) | Coordinate Y (Nom) | Code  | Designation     |
| 67939400   | EconomyTwister 20W CDL E27 1PF/6         | 313                | 337                | 865   | Cool Daylight   |
| 21701500   | EconomyTwister 8W WW E14 220-240V 1PF/6  | 463                | 420                | 827   | Warm White (WW) |
| 40613800   | EconomyTwister 8W CDL E14 220-240V 1PF/6 | 313                | 337                | 865   | Cool Daylight   |
| 21705300   | EconomyTwister 12W WW E14 220-240V 1PF/6 | 463                | 420                | 827   | Warm White (WW) |
| 40615200   | EconomyTwister 12W CDL E14 1PF/6         | 313                | 337                | 865   | Cool Daylight   |
| 21717600   | EconomyTwister 23W WW E27 220-240V 1PF/6 | 463                | 420                | 827   | Warm White (WW) |
| 21715200   | EconomyTwister 23W CDL E27 1PF/6         | 313                | 337                | 865   | Cool Daylight   |

### Light Technical (2/2)

## Economy Twister

| Order Code | Full Product Name                        | Correlated Color Temperature (Nom) | Color Rendering Index (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) | Luminous Flux (Rated) (Nom) | Order Code | Full Product Name                        | Correlated Color Temperature (Nom) | Color Rendering Index (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) | Luminous Flux (Rated) (Nom) |
|------------|--|------------------------------------|-----------------------------|---------------------------------|---------------------|-----------------------------|------------|--|------------------------------------|-----------------------------|---------------------------------|---------------------|-----------------------------|
| 21699500   | EconomyTwister 8W WW E27 220-240V 1PF/6  | 2700 K                             | 81                          | 62 lm/W                         | 500 lm              | 500 lm                      | 67939400   | EconomyTwister 20W CDL E27 1PF/6         | 6500 K                             | 80                          | 61 lm/W                         | 1200 lm             | 1200 lm                     |
| 40612100   | EconomyTwister 8W CDL E27 220-240V 1PF/6 | 6500 K                             | 80                          | 59 lm/W                         | 475 lm              | 475 lm                      | 21701500   | EconomyTwister 8W WW E14 220-240V 1PF/6  | 2700 K                             | 81                          | 62 lm/W                         | 500 lm              | 500 lm                      |
| 21703900   | EconomyTwister 12W WW E27 220-240V 1PF/6 | 2700 K                             | 81                          | 61 lm/W                         | 741 lm              | 741 lm                      | 40613800   | EconomyTwister 8W CDL E14 220-240V 1PF/6 | 6500 K                             | 80                          | 59 lm/W                         | 475 lm              | 475 lm                      |
| 40614500   | EconomyTwister 12W CDL E27 1PF/6         | 6500 K                             | 80                          | 58 lm/W                         | 700 lm              | 700 lm                      | 21705300   | EconomyTwister 12W WW E14 220-240V 1PF/6 | 2700 K                             | 81                          | 61 lm/W                         | 741 lm              | 741 lm                      |
| 21709100   | EconomyTwister 15W WW E27 220-240V 1PF/6 | 2700 K                             | 81                          | 65 lm/W                         | 970 lm              | 970 lm                      | 40615200   | EconomyTwister 12W CDL E14 1PF/6         | 6500 K                             | 80                          | 58 lm/W                         | 700 lm              | 700 lm                      |
| 21707700   | EconomyTwister 15W CDL E27 1PF/6         | 6500 K                             | 80                          | 61 lm/W                         | 900 lm              | 900 lm                      | 21717600   | EconomyTwister 23W WW E27 220-240V 1PF/6 | 2700 K                             | 81                          | 67 lm/W                         | 1570 lm             | 1570 lm                     |
| 68008600   | EconomyTwister 20W WW E27 220-240V 1PF/6 | 2700 K                             | 81                          | 65 lm/W                         | 1250 lm             | 1250 lm                     | 21715200   | EconomyTwister 23W CDL E27 1PF/6         | 6500 K                             | 80                          | 63 lm/W                         | 1450 lm             | 1450 lm                     |

