



# 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

### Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

### Versions



Twister 8W E27



Twister 12W, 15W E27



Twister 20W E27



Twister 8W E14



Twister 12 W E14 NG

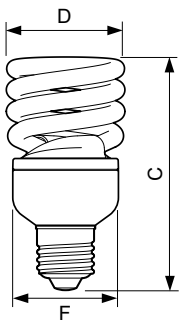


23 W



E27 Spiral

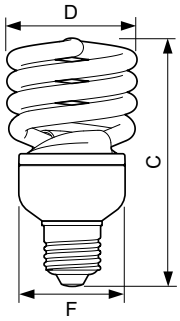
### Dimensional drawing



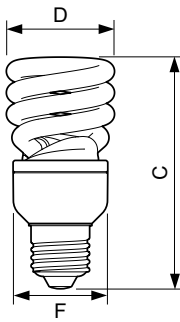
Product	D (max)	C (max)	F (max)
EconomyTwister 20W WW E27 220-240V 1PF/6	56.5 mm	111.5 mm	47 mm
EconomyTwister 20W CDL E27 1PF/6	56.5 mm	111.5 mm	47 mm

# Economy Twister

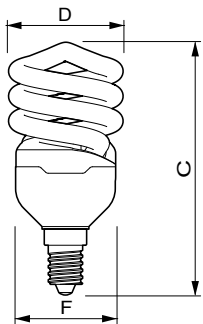
## Dimensional drawing



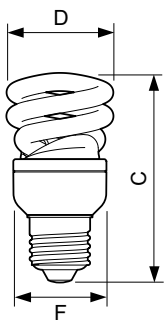
Product	D (max)	C (max)	F (max)
EconomyTwister 23W CDL E27 1PF/6	61.5 mm	118.5 mm	50.5 mm
EconomyTwister 23W WW E27 220-240V 1PF/6	61.5 mm	118.5 mm	50.5 mm



Product	D (max)	C (max)	F (max)
EconomyTwister 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



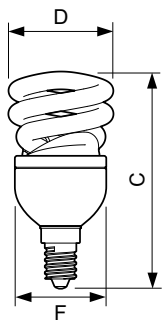
Product	D (max)	C (max)	F (max)
EconomyTwister 12W CDL E14 1PF/6	47.5 mm	104 mm	40.5 mm
EconomyTwister 12W WW E14 220-240V 1PF/6	47.5 mm	104 mm	40.5 mm



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

# Economy Twister

## Dimensional drawing



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

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

## Economy Twister

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
21699500	EconomyTwister 8W WW E27 220-240V 1PF/6	60 mA	8 W
40612100	EconomyTwister 8W CDL E27 220-240V 1PF/6	60 mA	8.0 W
21703900	EconomyTwister 12W WW E27 220-240V 1PF/6	90 mA	12.0 W
40614500	EconomyTwister 12W CDL E27 1PF/6	90 mA	12.0 W
21709100	EconomyTwister 15W WW E27 220-240V 1PF/6	110 mA	15.0 W
21707700	EconomyTwister 15W CDL E27 1PF/6	110 mA	15.0 W
68008600	EconomyTwister 20W WW E27 220-240V 1PF/6	150 mA	20.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Power (Rated) (Nom)
67939400	EconomyTwister 20W CDL E27 1PF/6	150 mA	20.0 W
40613800	EconomyTwister 8W CDL E14 220-240V 1PF/6	60 mA	8.0 W
21705300	EconomyTwister 12W WW E14 220-240V 1PF/6	90 mA	12.0 W
40615200	EconomyTwister 12W CDL E14 1PF/6	90 mA	12.0 W
21717600	EconomyTwister 23W WW E27 220-240V 1PF/6	170 mA	23.0 W
21715200	EconomyTwister 23W CDL E27 1PF/6	170 mA	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
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	
		Coordinate X (Nom)	Coordinate Y (Nom)	Color Code	Color 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)

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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	40613800	EconomyTwister 8W CDL E14 220-240V 1PF/6	6500 K	80	59 lm/W	475 lm	475 lm
21703900	EconomyTwister 12W WW E27 220-240V 1PF/6	2700 K	81	61 lm/W	741 lm	741 lm	21705300	EconomyTwister 12W WW E14 220-240V 1PF/6	2700 K	81	61 lm/W	741 lm	741 lm
40614500	EconomyTwister 12W CDL E27 1PF/6	6500 K	80	58 lm/W	700 lm	700 lm	40615200	EconomyTwister 12W CDL E14 1PF/6	6500 K	80	58 lm/W	700 lm	700 lm
21709100	EconomyTwister 15W WW E27 220-240V 1PF/6	2700 K	81	65 lm/W	970 lm	970 lm	21717600	EconomyTwister 23W WW E27 220-240V 1PF/6	2700 K	81	67 lm/W	1570 lm	1570 lm
21707700	EconomyTwister 15W CDL E27 1PF/6	6500 K	80	61 lm/W	900 lm	900 lm	21715200	EconomyTwister 23W CDL E27 1PF/6	6500 K	80	63 lm/W	1450 lm	1450 lm
68008600	EconomyTwister 20W WW E27 220-240V 1PF/6	2700 K	81	65 lm/W	1250 lm	1250 lm							

