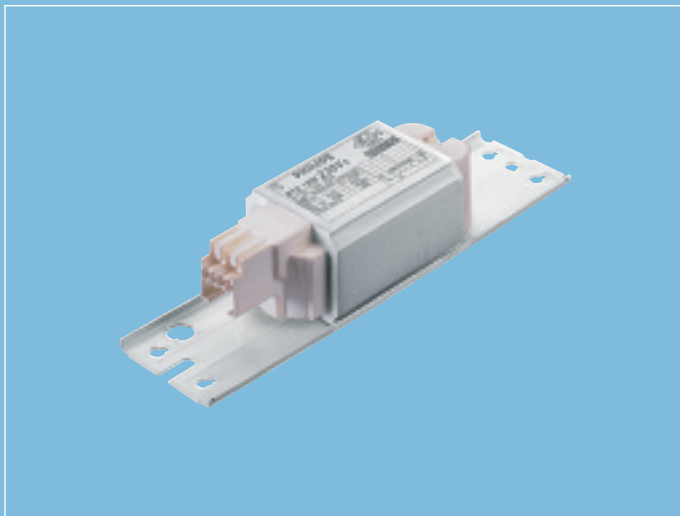
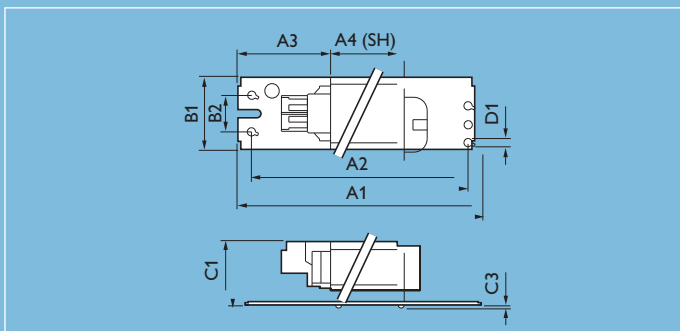




EM TL

recommended lamp page 3.8 and 3.12

Dimensions in mm



Definition

All 'BTA' ballasts to be applied in circuits for TL, 'TL'D, TLE, TLU, PL-C, PL-T OR PL-L fluorescent lamps and operating on nominal mains supply as indicated.

Energy Efficiency Index > EEI

BTA are ballasts divided in the next groups:

EEI=B1 > Highest classification of energy saving for electromagnetic ballasts.

EEI=B2 > Improved energy saving suitable for most luminaires.

EEI=C > Mostly in use now a days in luminaires, but will be banned in EU from "November 2005".

Note:

EEI=D banned in EU from "May 2002"

Benefits

- Reliable electrical and mechanical performance
- Long life
- Compact dimensions
- Quick and easy wiring
- Optimum lamp performance under optimum temperature conditions.

Features

- ENEC approved, complies with:
 - Safety EN 61347-2-8
 - Performance IEC/EN 60921
- Tw marking 130°C (Average life time of 10 years of continuous operation)
- Fully approved by major authorities
- **Double Insert** contacts for solid core wire 0,5-1,0 mm Strip length +/- 8 mm, insulation diameter max. 2,6 mm
- Prepared for automatic wiring.
- Embossed mounting plate for noise reduction.

Description

This ballast range features a balanced compromise of essential characteristics, thus allowing for a wide range of application.

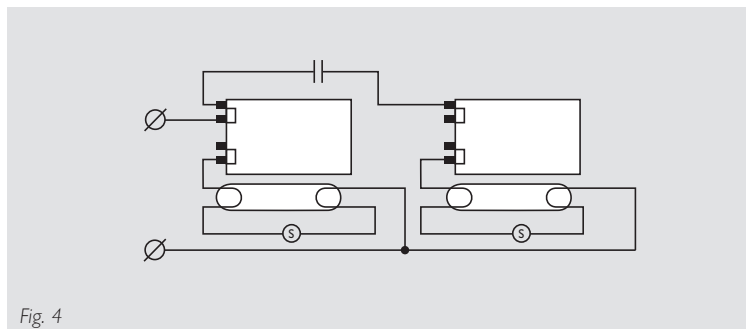
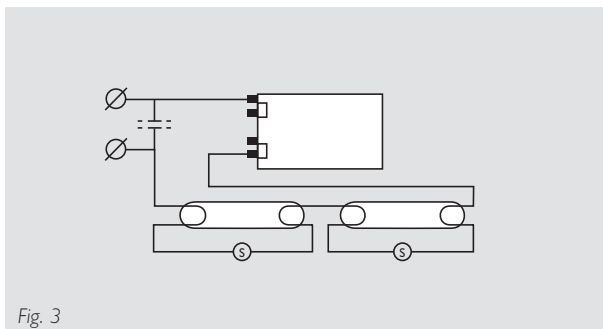
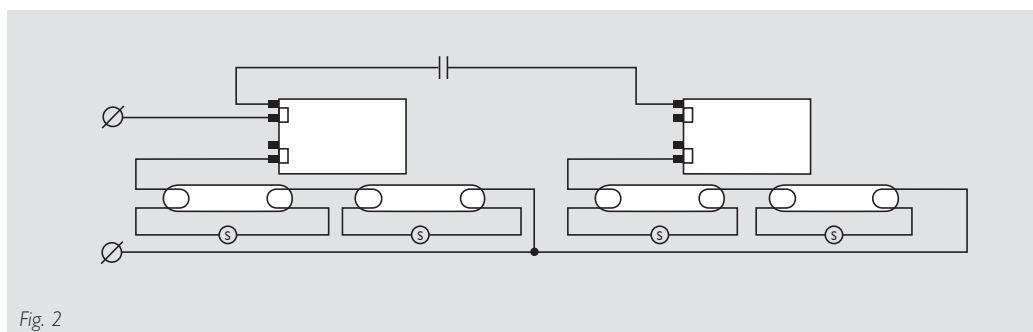
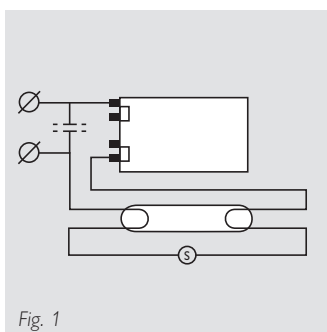
www.lampsandgear.philips.com

Electrical characteristics of low power factor (inductive) circuits - LPF switch-start operation

Type	Mains Voltage		Lamp current	Power factor	Tw=130°C $\Delta t / \Delta t'$	Dimensions	
	50 Hz	EEL				L1	L2
BTA 18W	220V	C	0.370	0.41	65/100	140	155
BTA 36W	220V	C	0.430	0.47	65/---	140	155
BTA 58W	220V	C	0.670	0.50	55/125	180	195
BTA 15W	230V	B2	0.310	0.30	55/95	140	155
BTA 18W	230V	C	0.370	0.35	65/110	140	155
BTA 18W	230V	B2	0.370	0.35	50/90	140	155
BTA 18W	230V	B1	0.370	0.35	35/65	180	195
BTA 30W	230V	C	0.360	0.45	60/145	140	155
BTA 30W	230V	B2	0.360	0.45	50/115	140	155
BTA 36W	230V	C65	0.430	0.48	65/155	140	155
BTA 36W	230V	C	0.430	0.48	50/125	140	155
BTA 36W	230V	B2	0.430	0.48	55/160	140	155
BTA 36W	230V	B1	0.430	0.48	35/95	180	195
BTA 58W	230V	C	0.670	0.50	55/125	180	195
BTA 58W	230V	B2	0.670	0.50	50/125	180	195
BTA 18W	240V	C	0.370	0.32	70/110	140	155
BTA 36W	240V	C	0.430	0.46	60/155	140	155
BTA 58W	240V	B2	0.670	0.48	50/140	180	195

Electrical characteristics of high power factor and duo circuits - HPF anti-stroboscopic $\cos \varphi > 0.90$

Type	Number of lamps each ballast	Mains current	Power Factor Cos φ	P.F. Compensation						Starter
				Parallel Cap. 250V AC			Duo (Series) Cap.450VAC			
				Cap. μF	Diagr. Fig.	Mains Current	Cap. μF	Mains current	Diagr Fig.	
BTA 15W	1x 'TL'D15W	0.34A	0.30	4.5	1	0.12A	2.7	0.24A	4	S10
BTA 18W	1x PLL 18W / 1x 'TL'D(U) 18W	0.37A	0.41	4.5	1	0.14A	2.7	0.27A	4	S10
	1x PLL 24W / 1x TL 20W / 1x TLE 22W	0.37A	0.41							
BTA 30W	2x 'TL'D 15W	0.34A	0.47	4.5	3	0.19A	2.9	0.38A	2	S2
	1x 'TL'D 30W	0.36A	0.45		1				4	S10
	1x 'TL'30W	0.41A	0.40		1				4	S10
BTA 36W	2x PLL 18W / 2x 'TL'D 18W / TL 20W	0.37A	0.50	4.5	3	0.23A	3.4	0.43A	2	S2
	1x PLL 36W / 1x 'TL'D 36W / TL 40W	0.43A	0.48		1				4	S10
	1x 'TL'D 38W	0.43A	0.47		1				4	S10
BTA 58W	1x TLD(U) 58W	0.67A	0.50	6.5	1	0.36A	5.3	0.68A	4	S10
	1x TL 65W / TL(U) 65W	0.67A	0.50		1				4	S10



Wiring diagrams

Ordering and packing data

New Type number		Old Type number	Weight Kg	Box Packing			EOC 8711500 Ext. 40=Bulk Ext. 30=Box
				Qty.	Dimension L x W x H cm*	Weight kg	
BTA 18W 220V	C	BTA 18 L05	0.48	32	35x18x13.5	15	919113
BTA 36W 220V	C	BTA 36 L05	0.48	32	35x18x13.5	15	920799
BTA 58W 220V	C	BTA 58 L05	0.78	24	27x22x13.5	18	930040
BTA 15W 230V	B2	BTA 15 L31	0.48	32	35x18x13.5	15	919106
BTA 18W 230V	C	BTA 18 L31	0.48	32	35x18x13.5	15	919120
BTA 18W 230V	B2	BTA 18 L31	0.55	32	35x18x13.5	18	930026
BTA 18W 230V	B1	BTA 18 L31	0.78	24	27x22x13.5	18	919144
BTA 30W 230V	C	BTA 30 L31	0.48	32	35x18x13.5	15	919151
BTA 30W 230V	B2	-	0.48	32	35x18x13.5	15	061492
BTA 36W 230V	C65	BTA 36 L31	0.48	32	35x18x13.5	15	538680
BTA 36W 230V	C	BTA 36 L31	0.48	32	35x18x13.5	15	919175
BTA 36W 230V	B2	BTA 36 L31.	0.48	32	35x18x13.5	15	538666
BTA 36W 230V	B1	BTA 36 L31	0.48	32	35x18x13.5	15	919205
BTA 58W 230V	C	BTA 58 L31	0.78	24	27x22x13.5	18	538963
BTA 58W 230V	B2	BTA 58 L31	0.92	24	27x22x13.5	22	919229
BTA 18W 240V	C	BTA 18 L25	0.48	32	35x18x13.5	15	915313
BTA 36W 240V	C	BTA 36 L25	0.48	32	35x18x13.5	15	915450
BTA 58W 240V	B2	BTA 58 L25	0.92	24	27x22x13.5	22	915139

*) Volume is 0.009m³ dim. 35x18x13.5, Volume is 0.008m³ dim. 27x22x13.5