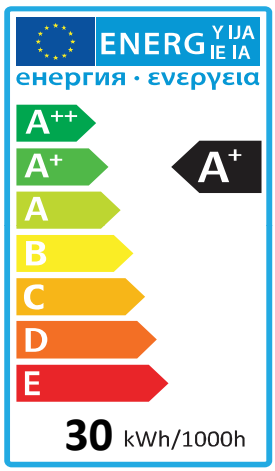
LED LIGHT ENGINE 111 30W 38º 840





Código	0931480850
Nome	LED LIGHT ENGINE 111
Tecnologia	CertaFlux LED SLM SD 2900 30W/840 L19 G3
Potência (W)	30
Casquilho	N/A
Tensão (Vac)	230
Temperatura de cor (K)	4000
Fluxo luminoso nominal (lm)	3000
Ângulo do fluxo luminoso (º)	38º
Vida útil nominal (h)	20.000
Classe energética	A+
Regulação de fluxo	Não
EAN	5604378945199
Número de registo europeu	003765732
Lâmpada de economia de energia	Sim
Acabamento da Lâmpada	Cromada
Forma da lâmpada	QR111
Tipo de luminária	Aberta e bem ventilada
Posição de funcionamento	Iluminação de cima para baixo, ou com inclinação até +/- 45º
Uso previsto	Iluminação profissional
Lâmpada para uso especial	Não
Tempo de arranque máximo (s)	<0,05
Tempo até atingir 60% do fluxo luminoso máximo (s)	<0,05
Mínimo de ciclos de comutação antes de falha prematura	≥20.000

Etiqueta Energética



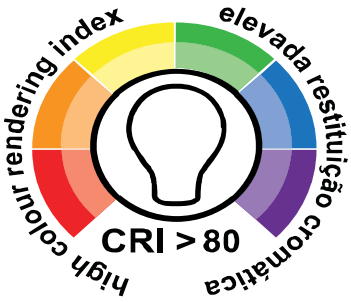
Dados Eléctricos

KWh/1000h	30
Classe energética	A+
Rendimento luminoso (lm/W)	100
Potência nominal (W)	30
Potência medida (W)	30
Tensão de saida do driver (Vdc)	42
Corrente (A)	0,8
Temperatura Ideal de funcionamento (ºC)	25
Temperatura máxima na superficie no dissipador(ºC)	75
Factor de potência	≥0,90
Driver incluido:	Philips CertaDrive 34W 0,8A 42V|230V
Potência equivalente (W)	357

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Dados Ópticos

Cor da luz	Branco frio
Temperatura da cor (K)	4000
IRC (Ra)	>80
Ângulo do fluxo nominal (º)	38º
Lâmpada para iluminação de realce	Sim
Homogeneidade das cores	6 SDCM
Factor de conservação do fluxo luminoso no fim da vida útil (%)	70
Fluxo luminoso nominal (lm)	3000



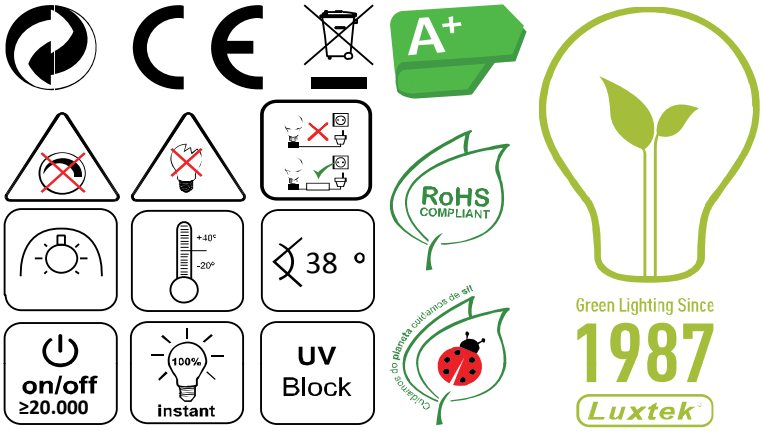


Dados Físicos

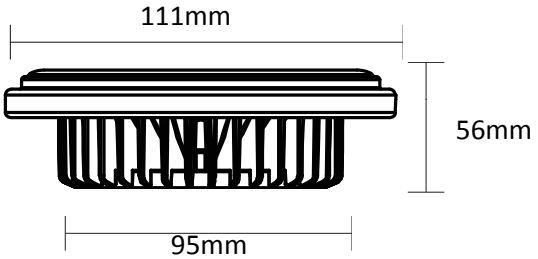
Peso líquido (g)	243
Peso bruto (g)	315
Altura (mm)	56
Comprimento (mm)	111
Mercúrio na lâmpada (mg)	0
Tipo de embalagem	Caixa
Quantidade por caixa interior	6
Quantidade por caixa exterior	36
Concebida para uma utilização óptima em condições não standard?	Não
Dimensão da lâmpada igual à sua equivalente incandescente?	N/A
Dimensões da embalagem individual (LxWxH) (cm)	11,5 x 11,5 x 10,6
Dimensões da embalagem exterior (LxWxH) (cm)	48 x 38 x 35
Embalagem exterior G.W/N.W (Kg)	17,0/15,5

Embalagem

Simbologia



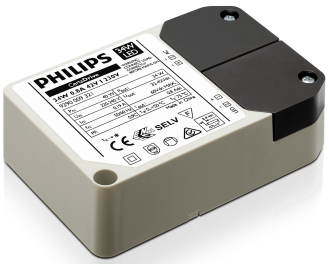
Desenho técnico



CertaDrive

CertaDrive 34W 0.8A 42V I 230V

July 25, 2014



Affordable and reliable LED Drivers

Affordable LED Driver range offering Philips reliability. The CertaDrive range is compatible with COB and mid-power LEDs from any LED manufacturer.

Benefits

- Driver design based on Philips' experience and knowledge of conventional fluorescent and HID technologies
- Various power wattage Drivers that are related to the lumen packages/applications
- Fixed output Drivers
- Independent-version housing design for stand-alone installations

Features

- High reliability
- Luminaire design flexibility to keep stable/constant
- Lumen output and light quality levels
- Fast Time to Market
- One supplier for professional general lighting LED Drivers
- Affordable LED Drivers

Applications

- Public buildings (airports, cinemas, theaters, exhibition halls)
- Retail (supermarkets, shops)
- Office

PHILIPS

Electrical input data

Specification item	Value	Unit	Condition
Nominal input voltage	220...240	V_{ac}	
Nominal input frequency	50...60	Hz	
Nominal input current	0.19	A	Input voltage 230 V_{ac}, full load
Nominal input power	40	W	Input voltage 230 V_{ac}, full load
Power factor	≥ 0.9		Input voltage 230 V_{ac}, full load
Total harmonic distortion	≤ 20	%	Input voltage 230 V_{ac}, full load
Efficiency	85	%	Input voltage 230 V_{ac}, full load, maximum output power
Input voltage AC	202...254	V_{ac}	Performance range
Input frequency AC	47.5...63	Hz	Maximum permissible range

Electrical output data

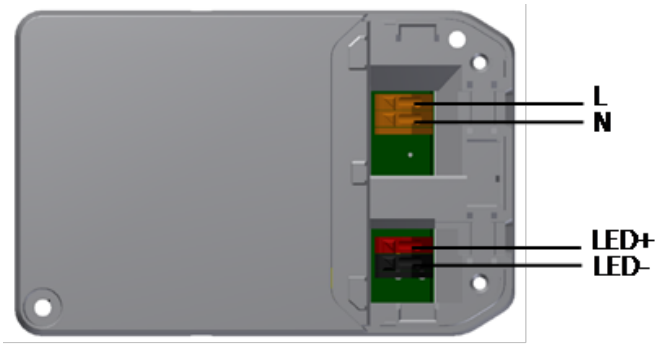
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	32...42	V_{dc}	
Output voltage max.	60	V	Peak voltage (RMS) at open load
Output current	0.72...0.88	A	Full output current setting
Output current tolerance	± 10	%	
Output current ripple	≤ 30	%	Ripple (100Hz) = peak / average
Output power	25...34	W	Full output
Galvanic isolation	SELV		Lamp to mains

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		

Wiring

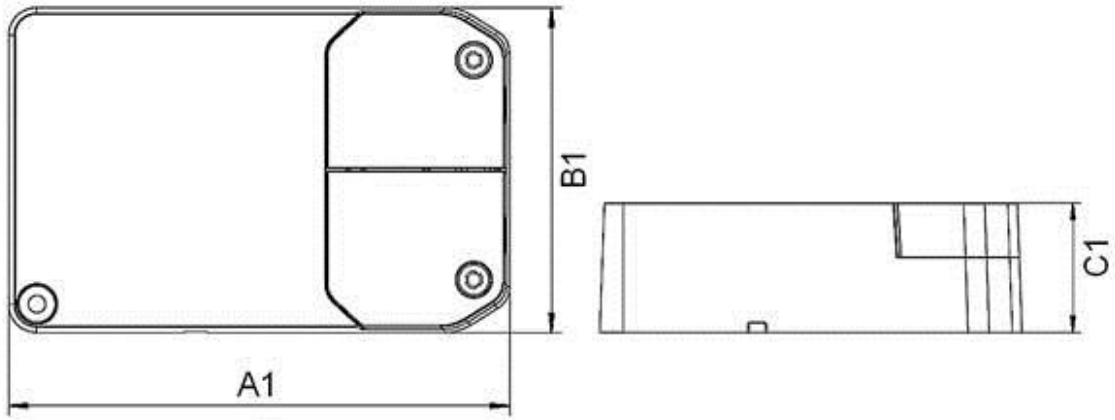
Specification item	Value	Unit	Condition
Input wire cross-section	0.2...1.5	mm^2	WAGO250 (3.5 mm), solid wire
	16...24	AWG	WAGO250 (3.5 mm), solid wire
Input wire strip length	8.5...9.5	mm	
Output wire cross-section	0.2...1.5	mm^2	WAGO250 (3.5 mm), solid wire
	16...24	AWG	WAGO250 (3.5 mm), solid wire
Output wire strip length	8.5...9.5	mm	
Maximum cable length	600	mm	Total length of wiring including LED module, one way



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Dimensions and weight

Specification item	Value	Unit	Condition
Length (A1)	105	mm	
Width (B1)	68	mm	
Height (C1)	32	mm	
Fixing hole diameter (D1)	3.6	mm	
Fixing hole distance (A2)	87	mm	
Weight	129	gram	



Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	+0...+50	°C	
Tcase-max	75	°C	Maximum temperature measured at T_c-point
Tcase-life	65	°C	Measured at Tc-point
Maximum housing temperature	130	°C	In case of a failure
Relative humidity	10...90	%	Non-condensing

Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25...+85	°C	
Relative humidity	5...95	%	Non-condensing

Lifetime

Specification item	Value	Unit	Condition
Driver lifetime	30,000	hours	Measured temperature at T_c-point is T_{case}-life. Maximum failures = 10%

Programmable features

Specification item	Value	Remark	Condition
Set output current (AOC)	No	See Design-in guide. Default output current: 0.8 A	
LED module temperature derating (MTP)	No		
Constant Lumen Over Lifetime (CLO)	No		
DC emergency dimming (DCemDIM)	No		Current output decreased to 15%
Corridor mode	No		
Energy metering	No		
Diagnostics	No		

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Features

Specification item	Value	Remark	Condition
Open load protection	Yes		Automatic recovering
Short circuit protection	Yes		Automatic recovering
Over power protection	No		Automatic recovering
Hot wiring	No		
Suitable for fixtures with protection class	II		

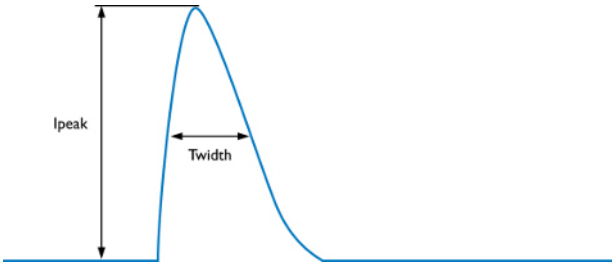
Certificates and standards

Specification item	Value	Unit	Condition
Approval marks	CE / ENEC		
Ingress Protection classification	20		

Additional information

Inrush current

Specification item	Value	Unit	Condition
Inrush current I_{peak}	16	A	Input voltage 230V
Inrush current T_{width}	240	µs	Input voltage 230V, measured at 50% I_{peak}
Drivers / MCB 16A type B	≤ 35	pcs	



Earth leakage current

Specification item	Value	Unit	Condition
Earth leakage current	0.7	mApk	LED module contribution not included

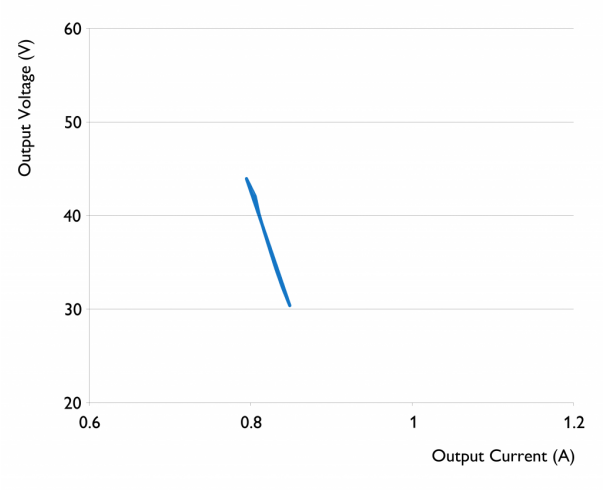
Surge capability

Specification item	Value	Unit	Condition
Mains surge capability (L-N)	1	kV	
Mains surge capability (L/N-Ground)	2	kV	

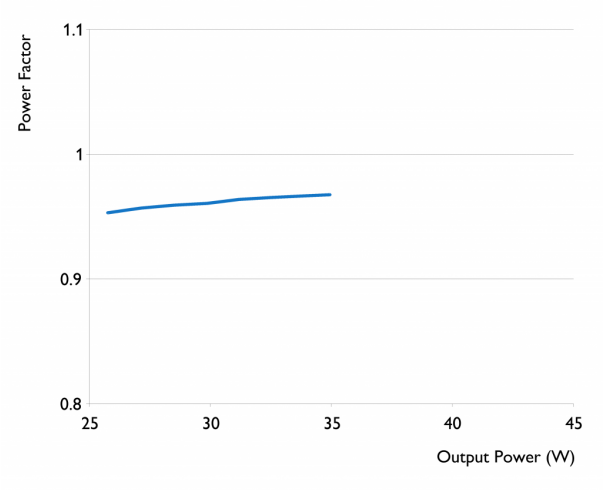
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Graphs

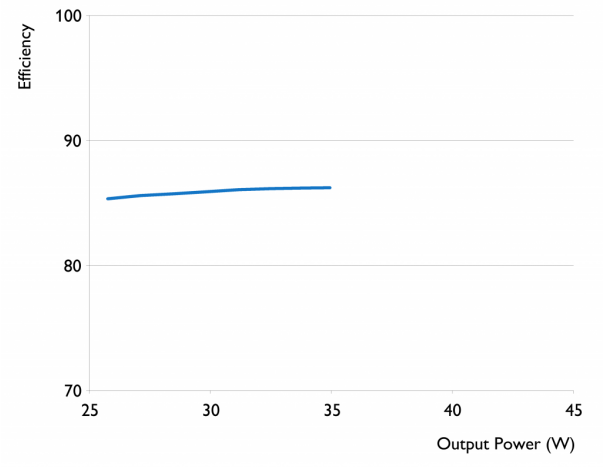
Operating window



Power factor versus output power



Efficiency versus output power



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Logistical data

Specification item	Value
Product name	CertaDrive 34W 0.8A 42V I 230V
Order code	
Logistic code 12NC	9290 009 32108
EAN3	
Pieces per box	32

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