



LED driver



Datasheet

Xitanium track adaptor drivers (3C)

Xi 34W/a 0.7-0.85A 40V DS 3CW 230V

9290 028 49880

Affordable and reliable LED Drivers

Affordable LED driver range offering Philips reliability. The Xitanium track driver 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 ratings matching common lumen packages/applications
- Track adaptor housing design for compact track luminaire designs

Features

- Compact size
- Specific, optimized dual-output current choice
- Long lifetime
- Low output current ripple, low input current THD
- Suitable for 3-phase track systems
- Available in white, black and grey housing color

Application

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

Electrical input data

Specification item	Value	Unit	Condition
Rated input voltage range	220240	V _{ac}	Performance range
Rated input voltage	230	V _{ac}	
Rated input frequency range	5060	Hz	Performance range
Rated input current	0.17	A	@ full output power @ rated input voltage
Rated input power	38.4	w	@ rated output power @ rated input voltage
Power factor	0.9		@ full output power @ rated input voltage
Total harmonic distortion	20	%	@ rated output power @ rated input voltage
Efficiency	89	%	@ rated input voltage @ rated output power
Input voltage AC range	198264	V _{ac}	Safety operational range
Input frequency AC range	4566	Hz	Safety operational range
Isolation input to output	SELV		

Electrical output data

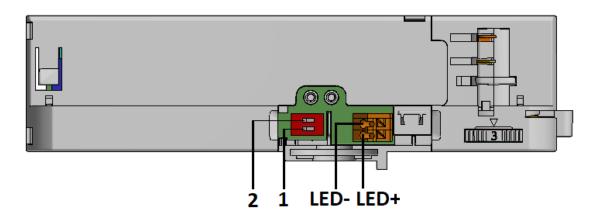
Specification item	Value	Unit	Condition
Regulation method	Constant Current		
Output voltage	3040	V _{dc}	
Output voltage max.	60	V	Maximum output voltage (rms)
Output current	0.7 / 0.85	A	Select output current via the dipswitches
Output current tolerance ±	8	%	
Output current ripple LF	≤ 4	%	Ripple = peak / average, < 3kHz
Output current ripple HF	≤ 15	%	
Output P _{st} ^{LM}	≤ 0.02		
Output SVM	≤ 0.07		
Output power	2134	W	

Electrical data controls input

Specification item	Value	Unit	Condition
Control method	Fixed		Set output current via DipSwitch

Wiring and Connections

Specification item	Value	Unit	Туре
Output wire cross-section	0.51.5	mm ² / AWG	solid / stranded wire
Output wire strip length	8.59.5	mm	
Maximum cable length	0.3	m	Total length of wiring including LED module, one way

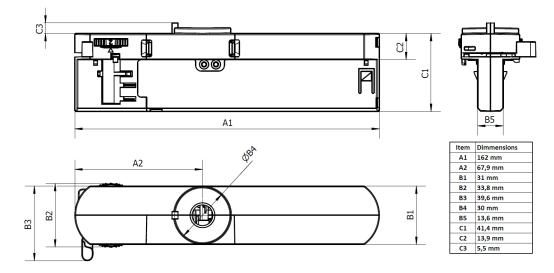


Insulation

Insulation per IEC61347-1	Input	Output
Input		SELV
Output	SELV	

Dimensions and weight

Specification item	Value	Unit	Tolerance (mm)
Length (A1)	162	mm	
Mounting hole distance (A2)	67.9	mm	
Width (B1)	31	mm	
Width (B2)	33.8	mm	
Height (C1)	41.4	mm	
Height (C2)	13.6	mm	
Weight	130	gram	
Housing color	White (RAL 9003)		



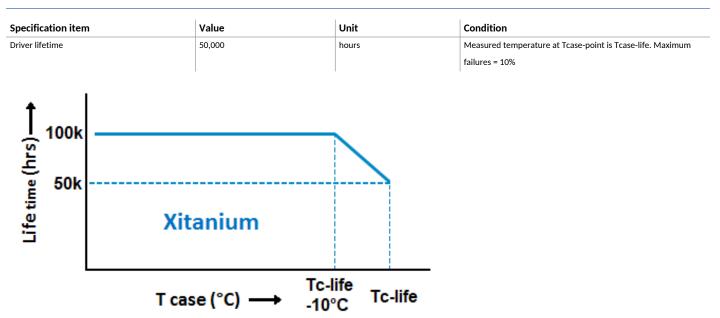
Logistical data

Specification item	Value
Product name	Xi 34W/a 0.7-0.85A 40V DS 3CW 230V
Logistic code 12NC	9290 028 49880
Pieces per box	80

Operational temperatures and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-20+35	°C	Higher ambient temperature allowed as long as Tcase-max is not
			exceeded
Tcase-max	85	°C	Maximum temperature measured at T_{case} -point
Tcase-life	75	°C	Measured at T _{case} -point
Maximum housing temperature	130	°C	In case of a failure, inherent by design
Relative humidity	1090	%	Non-condensing

Lifetime



Storage temperature and humidity

Specification item	Value	Unit	Condition
Ambient temperature	-25+85	°C	
Relative humidity	595	%	Non-condensing

Programmable features

Specification item	Available	Default setting	Condition
Set Adjustable Output Current (AOC)	DipSwitch	850 mA	Set the output current via the dipswitches, see wiring diagram for an overview

Features

Specification item	Value	Condition
Open load protection	Yes	Automatic recovering
Short circuit protection	Yes	Automatic recovering
Over power protection	Yes	Automatic recovering
Hot wiring	No	
Suitable for fixtures with protection class	1	per IEC60598

Inrush current

Specification item	Value	Unit	Condition
Inrush current	14.2	A	Input voltage V
Inrush peak width	227	μs	Input voltage V, measured at 50% height
Drivers / MCB 16A type B	≤ 36	pcs	Indicative value
^I peak Twidth			design in guide if you use other MCB-types.

Driver touch current / protective conductor current

Specification item	Value	Unit	Condition
Typical Touch Current (ins. Class II)	0.7	mA peak	Acc. IEC61347-1. LED module contribution not included

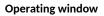
Surge immunity

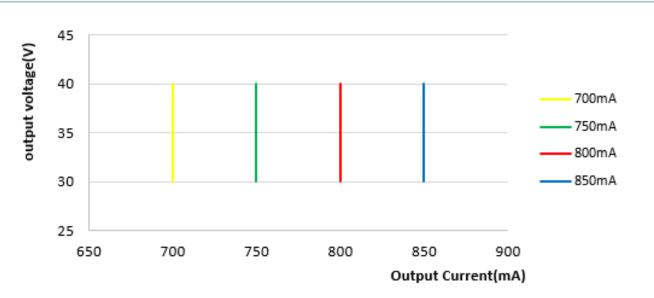
Specification item	Value	Unit	Condition
Mains surge immunity (diff. mode)	1	kV	Acc. IEC61000-4-5. 2 Ohm, 1.2/50us, 8/20us
Mains surge immunity (comm. mode)	2	kV	Acc. IEC61000-4-5. 12 Ohm, 1.2/50us, 8/20us

Application Info

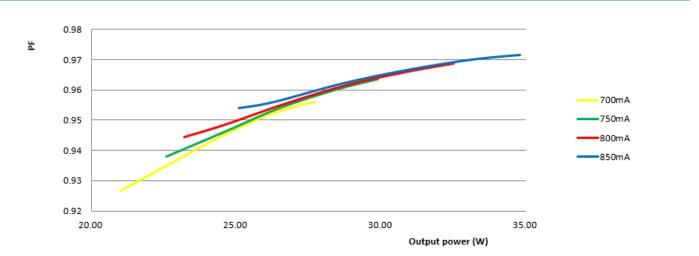
Specification item	Value
Approval marks	CE / CQC / EAC / ENEC / RCM / SELV / WEEE
Ingress Protection classification (IP)	20
Application	Indoor Point
Mounting Type	Track mounting

Graphs

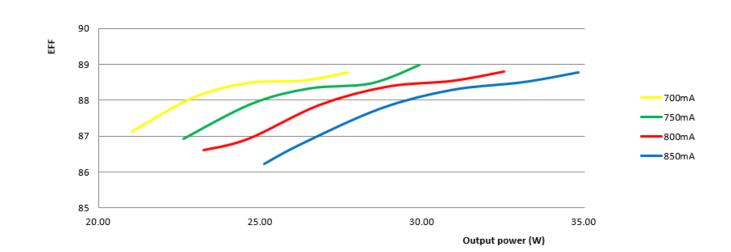


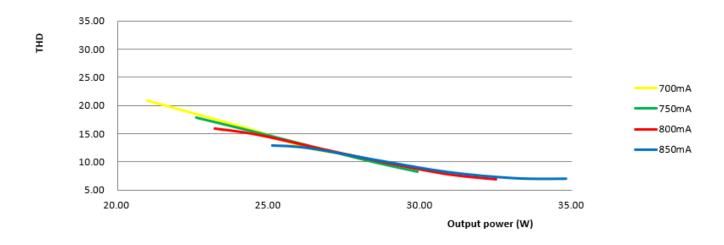


Power factor versus output power



Efficiency versus output power





Notes

The adapter is compatible with Global Trac Pro, Stucchi OneTrack 3 Circuit tracks.



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