

Triac Dimming LED Driver

Dxxx40NTF



Features



- Independent design
- Dimmable constant current driver
- Analogue flicker-free
- Dimmable with leading edge or trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range from 1...100%
- Captured terminal screws
- Protections: opencircuit, shortcircuit, overload, overtemperature
- DC input compatible (176-250VDC)
- SELV equivalent
- Suitable for class I&II luminaires
- Protection class II



CB CE UK CA

Selection Guide

Model No.	Nominal Voltage (V)	Nominal Current (A)	Power Factor (λ)	THD Full load (%)	Max. Output (W)	Output Current (mA)	Output Voltage (V)	No Load Voltage (V)	Efficiency Full Load (%)
D80040NTF	220-240	0.25	0.95	25	40	800	25-50	59	86
D90040NTF	220-240	0.25	0.95	25	40	900	22-44	55	85
D95040NTF	220-240	0.25	0.95	25	40	950	21-42	54	85
D105040NTF	220-240	0.25	0.95	25	40	1050	19-38	48	85

Input Parameters

Parameter	Condition	Min.	Typ.	Max.
Input Voltage Range	AC Input	198VAC	--	264VAC
	DC Input	176VDC	--	250VDC
Rated Input Frequency	AC Input	--	50/60Hz	--
No-load Power Consumption		--	--	N/A
Standby Power Consumption		--	--	N/A
Inrush Current	Cold Start@230V	5A/300us		
Max.units Per Circuit Breaker				
Circuit Breaker		Circuit Breaker Current		
Typ.	10A	13A	16A	20A
B	35	46	56	70
C	40	52	64	80

Output Parameters

Parameter	Condition	Min.	Typ.	Max.
Output Accuracy	Full Load@230V	--	±5%	--
Ripple & Noise	Low Frequency < 120Hz, Full Load@230VAC	--	--	10%

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Pst LM	--	--	1
SVM	--	--	0.4
Galvanic Isolation	SELV		
Short-Circuit Protection (SCP)	Re-power on to Recover If Fault Is Removed		
Over-Voltage Protection (OVP)	Re-power on to Recover If Fault Is Removed		
Over-Current Protection (OCP)	Re-power on to Recover If Fault Is Removed		

General Parameters

Parameter	Condition	Value
Ambient Temperature Range t_a		-20...+45°C
Maximum Case Temperature t_c	Measured on t_c point indicated of the product label	85°C
Max.Case Temp.In Fault Condition		110°C
Storage Temperature Range		-20...+70°C
Relative Humidity	Non Condensing	5...85%
Withstand Voltage	I/P-O/P	3.75kVAC, I leakage<5mA, 60s
Surge Transient Protection	L-N, L/N-PE	1kV, 2kV
Environmental Rating		Indoor
IP Rating		IP20
Mains Switching Cycles		> 100,000
Expected Lifetime	$t_{cmax}=85^{\circ}\text{C}$, 0.2%/1000h failure rate	50,000h

Dimming Parameters

Dimmable	Yes
Dimming control	Leading/Trailing edge
Dimming range	1-100%

Physical Parameters

Housing Material	PC
Type of connection	Screw terminal
Dimensions (LxWxH)	166x52x25mm
Mounting hole spacing	158.5x44mm
Weight	185±10g

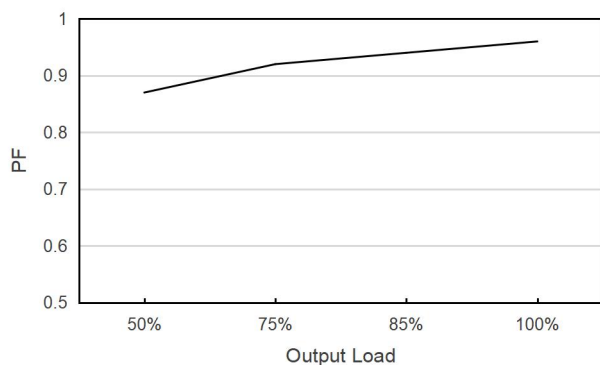
Standards

Safety Standards	EN 61347-1, EN 61347-2-13
Performance	EN 62384
EMC Standards	EN55015, EN61000-3-2, EN61000-3-3, EN 61547

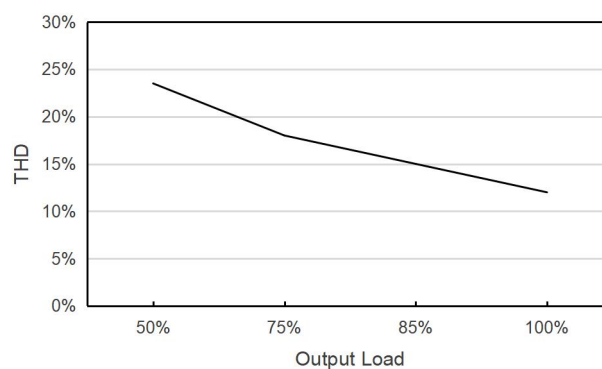
*ALL parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.

Product Characteristic Curve

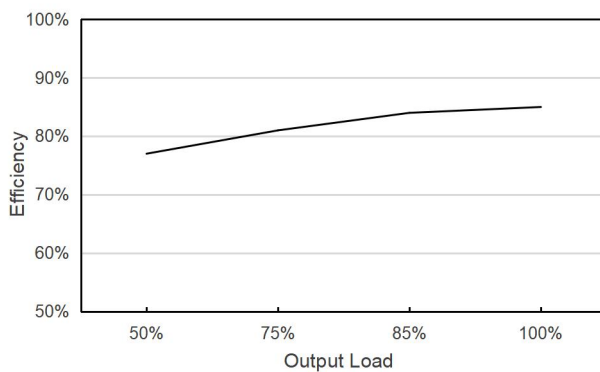
Power Factor vs Load



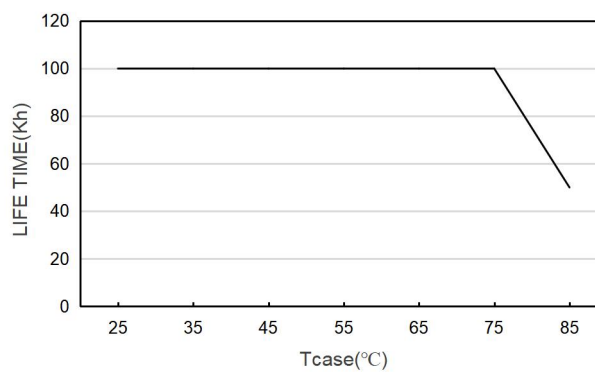
Total Harmonic Distortion vs Load



Efficiency vs Load



Life Time vs Case Temperature



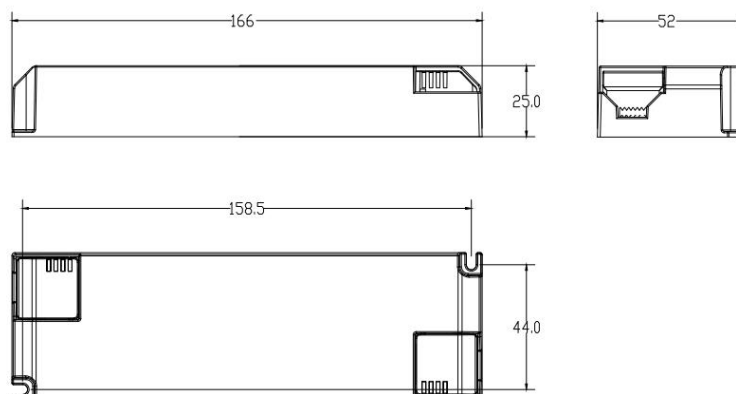
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Appearance of Size

Dimension Drawing(mm)



Wiring Diagram



PRI

Cable cross-section: 0.75-2.5mm²

Stripping: 6mm

SEC

Cable cross-section: 0.75-2.5mm²

Stripping: 6mm

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.