|  |  |
| --- | --- |
| **Product features** | bfd97f6d26ae63e157ec5a4e89adfffa_fbd7276d31734c24d15dc6f8df8bae5b_8(1) |
| * DMX dimming isolated adjustable power LED driver
 |  |
| * 2Channel Intelligent DC to DC LED driver
 | 2.527 |
| * Flicker-free LED driver
 |  | **Ein Bild, das Kreis, Symbol, Logo, Grafiken enthält.  Automatisch generierte BeschreibungEin Bild, das Kreis, Symbol, Logo, Grafiken enthält.  Automatisch generierte Beschreibung** |
| * 12 V 0.1 A Auxiliary source
 |
| * Current adjustment via NFC
 |
| * NTC use for lamp temperature acquisition or output current set
 |
| * Output current 150…1400 mA
 |
| * Max. output power 54 W
 |
| * Constant lumen output (CLO)
 |
| * For luminaires with protection class I,II
 |
| * 5 years warranty
 |
|  |
|  |  |

|  |
| --- |
| **Product specifications** |
|  |
| **165773** | **XNA LNR CST 54/120-347/CC150-1400/2CH/DMX NFC** |
| **Output current** | **Input voltage** | **Output voltage** | **Efficiency** **@ full load** | **Current accuracy** | **Power factor**  | **Dimension****LxWxH (mm)** |
| 150 mA | 120 Vac | 10…54 Vdc | 83% | ± 5% | 0.9 @＞10 W load | 360 x 30 x 21 |
| 350 mA | 10…54 Vdc | 86% |
| 750 mA | 10…54 Vdc | 89.5% |
| 1000 mA | 10…54 Vdc | 89.5% |
| 1200 mA | 10…45 Vdc | 88% |
| 1400 mA | 10…38.5 Vdc | 88% |
| 150 mA | 347 Vac | 10…54 Vdc | 79.5% | 0.9 @＞40 W load |
| 350 mA | 10…54 Vdc | 86% |
| 750 mA | 10…54 Vdc | 89% |
| 1000 mA | 10…54 Vdc | 89.5% |
| 1200 mA | 10…45 Vdc | 88.5% |
| 1400 mA | 10…38.5 Vdc | 88% |
|  |
|  |
|  |
| **Electrical specifications** |
|  |
| **Mains voltage supply** |  |
| Rated input voltage range | 120…347 Vac; performance range |
| Max. input voltage range | 108...380 Vac; operational safety range  |
| Rated frequency range | 50/60 Hz |
| Performance / Operational safety | 47...63 Hz |
| Max. input current | 0.58 A @ 120 Vac |
|  |  |
| **Protection against voltage peaks** |  |
| Withstand voltage | I/p-O/p: 1.8 kVac, < 5 mA 60 s; I/p-FG: 1.8 kVac, < 5 mA 60 sI/p-DIM: 1.8 kVac, < 5 mA 60 s; DIM-FG: 0.6 kVac, < 5 mA 60 sO/p-FG: 0.6 kVac, < 5 mA 60 s |
| Mains surge immunity | L-N 1 kV, L/N-FG: 2kV per IEC 61000-4-5  |
| Ringing wave | L-N 2.5 kV, L-FG 2.5 kV, N-FG 2.5 kV |
|  |  |
| **Total harmonic distortion (THD)** |  |
| At rated input voltage range @ full load | ≤ 10% @ 120 Vac; ≤ 20% @ 347 Vac |

|  |  |
| --- | --- |
| **Output data** |  |
| Output current tolerance | ± 5% at rated input voltage range |
| No load output voltage | 60 Vdc |
| Ripple output current | 5% (ripple = peak/average tota 100/120 Hz) |
| Output PstLM | ≤ 1 at full load @ rated input voltage |
| Output SVM | ≤ 0.4 at full load @ rated input voltage |
|  |  |
| **Protection functions output side** |  |
| Over voltage protection | The output voltage is less than or equal to 60 VOver voltage protection: Hiccup mode. protection device will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. |
| Overpower protection | The output power is less than or equal to 59.4 W |
| Short circuit protection | Short circuit protection: Hiccup mode. Protection device will trigger when short circuit and will auto recover after the fault mode is removed. |
|  |  |
| **Dimming operation and interface** |  |
| Dimming current range | 1%…100% |
| Standby power consumption | < 0.5 W |
|  |  |
| **Connection terminals** |  |
| Connection terminal type | 45° push in terminal |
| Wire cross section | lnput and output wire: 18-20 AWG |
| Wire stripping length | 9…10 mm |
|  |  |
|  |  |
| **Degree of protection** |  |
| Protection rating | IP20 |
|  |  |
| **Operating data** |  |
| Output current range | NFC control adjusts the current: 150…1400 mA |
| Default current | 150 mA |
| Output voltage range | 10…54 Vdc |
| Noise level | < 20 dB, at full load @ 100 cm distance |
|  |
| **Supplementary instructions** |
|  |
| * The luminaire manufacturer is responsible for measuring and verifying the EMl compliance of the complete luminaire, as the level of radio interference will vary depending on the luminaire construction. Especially primary and secondary cable lengths and their routing may have a significant effect on radio interference.
 |

|  |
| --- |
| **Environmental specifications** |
|  |
| Operating temperature | -20…+50°C |
| Storage temperature | -25…+85°C |
| Working humidity | 5%…90% |
| Store humidity | 5%…95% |
| Lifetime | at Tc 90°C: 50,000 hrs; at Tc 80°C: 100,000 hrs @ 120 Vac（0.2% / 1,000 h failure rate） |
| Maximum Tc temperature | 90°C |
|  |  |
| **Safety & EMC compliance** |
|  |
| **UL** |  | **CCC** |  | **SAA** |
|  |  |  |  |  |
|  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |

|  |
| --- |
| **Dimensions** |
| **Housing dimensions** |  | **Packaging details** |
| Length (L) | 360 mm |  | Packing units | 20 pcs |
| Width (W) | 30 mm |  | Carton size | 381 x 128 x128 mm |
| Height (H) | 21 mm  |  | Weight | 6.4 kg |
| Weight | 0.269 kg |  |  |  |
|  |
|  |
| **Wiring diagram** |
|  |
|  |
| * All connections must be as short as possible to ensure good EMl performance.
* The luminaire wire should keep a certain distance from the LED power supply and other wires (5…10 cm is preferred).
* No secondary switches are allowed.
* Incorrect wiring can damage the LED.
* The wire must be well protected against short circuit.
 |
|  |
|  |
| **MCS ±**  |
|  |
| * NTC + / - interface voltage 3.3 V
* Could connect to external NTC

NTC thermal management protects LED lamp , when the temperature of LED lamp over temperature protection point , the current will be reduced by 50% every 5 minutes . Default setting is 85°C . * NTC compatibility list :

|  |  |
| --- | --- |
| NTC Manufacturer | NTC Mode lNO .  |
| MURATA | NCP21WB473J03RA  |
| VISHAY | NTCS0805e4473JXT  |
| VISHAY | NTCLE100E3473  |

 |
|  |

|  |
| --- |
| **Technical information** |
|  |
|  |
|  |  |
| It's important to set the output current (AOC value) according to the LED voltage and make sure the power is within 54 W + 5%. |
|  |
| **Example of AOC settings** |
| V LED (Vdc） | AOC max | Pout (W） |
| 54 | 150 mA | 8 |
| 54 | 350 mA | 19 |
| 54 | 750 mA | 40 |
| 54 | 1000 mA | 54 |
| 45 | 1200 mA | 54 |
| 38.5 | 1400 mA | 54 |