

DESCRIPTION

PRODUCT COVERED:

USR - Component "Thermally Protected" type Drivers with Isolated, Class 2 output Models:

ECODrive365/L	SOLOdrive365/L	ECODrive565/L	SOLOdrive565/L
ECODrive366/L	SOLOdrive366/L	ECODrive566/L	SOLOdrive566/L
ECODrive368/L	SOLOdrive368/L	ECODrive568/L	SOLOdrive568/L

CNR - Component Drivers with "LED Driver Class 2" "LVLE" output, Models:

ECODrive365/L	SOLOdrive365/L	ECODrive565/L	SOLOdrive565/L
ECODrive366/L	SOLOdrive366/L	ECODrive566/L	SOLOdrive566/L
ECODrive368/L	SOLOdrive368/L	ECODrive568/L	SOLOdrive568/L

ELECTRICAL RATINGS:

Model	Input / 50/60 Hz			Maximum Output Ratings, DC		
	V AC	A	W	V	A	W
ECODrive365/L	120-277	0.35	--	2.5-55	0.15-1.40	30
ECODrive366/L	120-277	0.35	--	2.5-55	0.15-1.40	30
ECODrive368/L	120-277	0.35	--	2.5-55	0.15-1.40	30
SOLOdrive365/L	120-277	0.35	--	2.5-55	0.15-1.40	30
SOLOdrive366/L	120-277	0.35	--	2.5-55	0.15-1.40	30
SOLOdrive368/L	120-277	0.35	--	2.5-55	0.15-1.40	30
ECODrive565/L	120-277	0.7	--	2.5-55	0.15-1.40	50
ECODrive566/L	120-277	0.7	--	2.5-55	0.15-1.40	50
ECODrive568/L	120-277	0.7	--	2.5-55	0.15-1.40	50
SOLOdrive565/L	120-277	0.7	--	2.5-55	0.15-1.40	50
SOLOdrive566/L	120-277	0.7	--	2.5-55	0.15-1.40	50
SOLOdrive568/L	120-277	0.7	--	2.5-55	0.15-1.40	50

MODEL DIFFERENCES:

A. All LED driver models employ the identical construction except for the design of the dimming circuit:

- "DALI" - ECOdrive365/L, SOLOdrive365/L, ECOdrive565/L and SOLOdrive565/L
- "0-10" - ECOdrive366/L, SOLOdrive366/L, ECOdrive566/L and SOLOdrive566/L
- "Non-dim" - ECOdrive368/L, SOLOdrive368/L, ECOdrive568/L and SOLOdrive568/L

B. The SOLOdrive models and the ECOdrive models employ identical construction except for the increment levels of dimming set by the firmware:

Models	Increment %	mA DC
SOLOdrive	0.1	1.0
ECOdrive	1.0	25

C. The models ECOdrive36X/L, SOLOdrive36x/L and ECOdrive56x/L, SOLOdrive56x/L are identical in construction EXCEPT for Transformer L101, capacitors C004, C225, Coils L002, L004 and transistor Q103.

D. All models are provided with an auxiliary output rated 15.5 - 25V and max current of 18 mA.

Conditions of Acceptability:

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

1. Rated output loading for these products was achieved using resistive loads. The temperature tests were performed at nominal 40°C ambient.
2. During the temperature test of the end product, the temperature at Tc location specified in Illustration #14 is to be monitored. The absolute value at Tc cannot exceed 87°C. This value was calculated based on temperatures observed during testing and temperature ratings of the integral components including the electrical insulation system.
3. The main isolation transformer employs Class B (130) insulation system
4. The drivers are intended for building and employ housings with no openings. Acceptability of the LED driver with respect to mounting, spacing, casualty, temperature and segregation is to be determined as part of the end device evaluation.
5. The Leakage Current test was conducted for these models and the maximum measured leakage current while the driver connected to a 277 VAC was as specified in the following table. Based on end use requirements and the construction presented, this test **must** be performed as part of the end product evaluation:

Series Models	Measured, MIU	
	120 VAC, 60 Hz	277 VAC, 60 Hz
ECODrive36X/L, SOLOdrive36x/L ECODrive56x/L, SOLOdrive56x/L	Less than 0.5	Less than 0.75

6. The drivers employ R/C (XCFR2/XCFR8), terminal blocks for the connection of the input, dimming and output. The minimum electrical rating of the terminal blocks are 300V, 5 Amperes, 105 C. The terminal blocks are suitable for field and factory wiring.
7. Drivers are dimmable when provided with the 0-10 V, or the DALI dimming circuit interface. The dimming circuits are isolated from primary (input) and secondary (output) circuits with spacings based on the maximum rated branch supply, 277 Vac.
8. The maximum available output parameters of these drivers were within the maximum allowable limits for Class 2, Inherently Limited specified in the UL1310 standard
9. The maximum available output parameters of these drivers are within the maximum allowable limits for LED driver Class 2 per Annex "A" of the Canadian standard CAN/CSA C22.2 No. 250.13-14

and Report

Conditions of Acceptability - Continued:

10. The drivers are suitable for a maximum output current of 1400 mA DC. However, the output current may be set at the factory during production to any current setting between 150-1400 mA DC

11. The drivers are suitable for use in a "DRY" and "DAMP" locations

12. Driver models SOLOdrive365/L, ECOdrive365/L, SOLOdrive565/L and ECOdrive565/L are dimmable and are provided with a "DALI" dimming interface circuit that is isolated from the primary and secondary circuit (Terminals DA+, DA-).

13. Driver models SOLOdrive366/L, ECOdrive366/L, SOLOdrive366/L and ECOdrive366/L are dimmable and are provided with an isolated "0-10" dimming interface circuit (Terminals designated "0-10+" and "0-10-"). And, the maximum available parameters from the dimming circuit terminals meet the limits for a Class 2, inherently limited source

14. Driver models SOLOdrive368/L, ECOdrive368/L, SOLOdrive568/L and ECOdrive568/L are not provided with the dimming options. Therefore, the drivers "NON-Dimmable" drivers

15. The identification of the input/output/dimming terminals is

Terminal Blocks	Connection
L (BLACK)	Supply line
N (WHITE)	Supply Neutral
PG (GREEN)	Grounding (*)
LED1+, LED1-	Channel 1: Output Positive, Negative
LED code+ / LED code- (Yellow-Brown)	Factory current setting terminals (**)
0-10V+ / 0-10V-	"0-10" Dimming connections
DA-, DA+,	"DALI" Dimming connections
AUX+, AUX-	"Auxiliary" output auxiliary output, rated 15,5 -25V, max current: 18mA
Solid Wire Lead Specifications	Strip: 9 mm (11/32 Inch) Diameter: 0.5-1.5 mm (20-16 AWG)
(*) - The suitability and the reliability of this connection to serve as main Grounding Means of the LED driver case have not been evaluated. Therefore, the driver case must be connected to earth ground in the end-use application	
(**) - The output current may be set at the factory during production to any current setting between 150-1400 mA DC	