

File E73741
Project 95NK22218

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REPORT

on

SWITCHES INDUSTRIAL CONTROL

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Winona, MN

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DESCRIPTION

PRODUCT COVERED:

* USL, CNL Solid-State Power Controller without cooling fan, Part No. DD10- followed by 02, 24, 48 or 60; followed by CX, K1, K2, K3 or FX; (where X = any number 0 to 9); followed by 0, 1 or S; followed by any three numbers or letters.

Solid-State Power Controller without cooling fan, Part No. E-RRL4CSSAAA48X or E-RRL4CSSAA248E. where X = any number or letter.

RATINGS:

These devices are all single phase, and rated as shown below:

Input or Input Command Signal Ratings - 24, 120 or 240 V ac at 13 mA 50/60 Hz, or Class 2 dc voltage input or linear current input; maximum 20 mA.

Output Ratings - 24 to 48 V ac, 120 to 240 V ac or 277 to 600 V ac, 50/60 Hz.

Models Without Cooling Fan -

100 A at 30°C

Control Mode Rating - 24 V ac
120 V ac
240 V ac
linear current input up to 20 mA
low voltage dc input up to 32 V dc.

These devices may be used in ambient found as part of the de-rating curve in ILL. 1. These ratings must be de-rated above 30°C.

NOMENCLATURE:

<u>DD</u>	<u>1</u>	<u>0</u>	<u>XX</u>	<u>XX</u>	<u>X</u>	<u>X</u>	<u>XX</u>
I	II	III	IV	V	VI	VII	VIII
I	-	Basic Model Designator DD = DIN-A-Mite "D"					
II	-	Number of Phases of control 1 = Single Phase control.					
III	-	Heat sink options 0 = Natural convection standard heatsink					
IV	-	Output Voltage 02 = 24 to 48 V ac 24 = 120 to 240 V ac 48 = 277 to 480 V ac 60 = 277 to 600 V ac					
V	-	Control Signal C0 = 4.5 to 32 V dc - contactor F0 = 4 to 20 mA - variable time base F1 = 12 to 20 mA - variable time base K1 = 24 to 28 V ac - contactor K2 = 100 to 120 V ac - contactor K3 = 200 to 240 V ac - contactor					
VI	-	Alarm Options 0 = No alarm 1 = Load current transformer * S = Shorted SCR alarm with triac output					
VII	-	User Manual Language Options 0 = English 1 = German 2 = Spanish 3 = French					
VIII	-	Custom Options 00 = Standard product XX = Any number 01 to 99 or letter AA to ZZ for custom logo screenings and minor class 2 options.					

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

General - These devices are open solid-state power controllers intended for controlling electric resistance heating.

Spacings - Spacings were evaluated to UL 508, Table 34.1. PCB spacings were evaluated to UL 840.