

File E153659
Project 95ME61313

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REPORT

on

COMPONENT - POWER CONVERSION EQUIPMENT

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D E S C R I P T I O N

PRODUCT COVERED:

Component, Industrial Control Equipment - Power Conversion Equipment,
*Models D900, D901, D902, D903, D903.6x, D904, D950, D953, D953.6x, WD3-004,
WD3-008, WDM3-004, WDP3-014, WDP3-018, WDP3-314 and WDP3-318, followed by xx.

GENERAL:

These devices are open type, single phase, solid-state variable speed AC motor controllers, which convert a fixed frequency input voltage to variable frequency, variable voltage output. They are intended for use with three-phase stepping motor. The devices with suffix "D900" are single final stage. The devices with suffix "D901" and "D950" are final stage PWB, with optional connector for rotation feedback. The devices with suffix "D902" are double final stage PWB. The devices with suffix "D903" and "D953" are final stage with indexes and 2 connector for micro cards. The devices with suffix "D904" are power supply PWB. The devices with suffix "WD" are in a housing. The inverters are intended to be used with the power supplies covered in this Report.

The model with suffix WDP3-314 and WDP318 include an indexer board with programmable controller and three connectors for micro-cards. The model with suffix "D" is a micro-card board with counter Types A and B and rotation feedback.

RATINGS:

Model	Input		Output		
	Volts	Amperes	Volts	Amperes	Output Type
D900 Transistor	130 dc	0.85	130 dc	4.7	
D901	320 dc	1.1	186 ac	<u>2.5</u>	IGBT
D902	320 dc	1.8	186 ac	2x2.5	IGBT
D903	320 dc	1.1	186 ac	<u>2.5</u>	IGBT
D903.6x	320 dc	1.1	186 ac	<u>2.5</u>	IGBT
D904	115/240 ac	8/4.5	162/372 dc	5.6/3.2	-
D950	320 dc	2.4	186 ac	6.8	IGBT
D953	320 dc	2.4	186 ac	6.8	IGBT
D953.6x	320 dc	2.4	186 ac	6.8	IGBT

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RATINGS: (Cont'd)

Model	Input		Output		Output Type
	Volts	Amperes	Volts	Amperes	
WD3-004	115/240 ac	3.6/2.0			IGBT
WD3-008	115/240 ac	8/4.5			IGBT
WDM3-004	115/240 ac	5.5/3			IGBT
WDP3-014	115/240 ac	3.6/2			IGBT
WDP3-018	115/240 ac	6.5/3.5			IGBT
WDP3-314	115/240 ac	3.6/2			IGBT
WDP3-318	115/240 ac	8/4.5			IGBT

Max operating ambient: +50 degrees C

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - The switches covered by this Report are for use only in complete equipment where the suitability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The device should be used within it's Recognized ratings as specified above.
2. The spacing from the exposed live-metal parts to the enclosure wall should be in accordance with the requirements for the overall equipment.
3. This device does not have motor overload protection.
4. Since these devices are rated less than 1 hp, SC tests were not conducted.
5. The terminals have not been evaluated for suitability for field wiring.
6. Dead Case Mounting Test was not conducted on the unevaluated power modules. Acceptability of these components should be determined in the final investigation.