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TECHNICAL OVERVIEW

TO-130-01
SEPTEMBER, 1986

SY/MAX® CLASS 8030 DELUXE 4 FUNCTION OUTPUT MODULES

CLASS 8030 TYPE DOM-221
120VAC DELUXE OUTPUT MODULE

CLASS 8030 TYPE DOM-231
240VAC DELUXE OUTPUT MODULE

CLASS 8030 TYPE DOM-241
9-55VDC DELUXE OUTPUT MODULE

CLASS 8030 TYPE DOM-251
60-160VDC DELUXE OUTPUT MODULE



SY/MAX Class 8030 Deluxe Output Modules contain four 2 amp optically isolated outputs, with the exception of the Type DOM-225 (120VAC, 5A) and Type DOM-235 (240VAC, 5A) which contain two optically isolated outputs. Refer to Technical Overview TO-134-01 for additional information. All the modules described are capable of driving loads such as motor starters, solenoids and pilot lights. The outputs are not electrically isolated from each other.

There are three LED indicators on the front of each module for each output. The "LOGIC" LED (yellow) illuminates when the processor issues a command to energize the output. The "LOAD" LED (red) illuminates when the output voltage is provided at the output terminal. The "BLOWN FUSE" LED (red) illuminates when a blown fuse is detected. A properly functioning output will have both the "LOGIC" and "LOAD" LED's illuminated simultaneously. These indicators provide module self diagnosites. A marking area is provided next to each LED for output identification by the user.

SY/MAX Class 8030 Deluxe Output Modules are mounted in Deluxe (Type DRK) I/O rack assemblies. The modules may be mixed between inputs and outputs and voltage type within the Deluxe rack. Compatible rack assemblies are listed in each of the following specifications.

SPECIFICATIONS

Class 8030 Type DOM-221
120VAC Deluxe Output Module

Outputs per Module..... 4
Type and Rated Isolation Between Output Terminal and Logic ..... Optical: 2500 V RMS
Voltage and Current Characteristics:

	VOLTAGE	CURRENT
Voltage Range	12-138 V 50/60 Hz	—
Maximum Current	—	2 Amp/output (8 Amp/module)
Minimum Load Current	—	—
Maximum On State Voltage Drop Across Output	2.0 V at 2 Amp Load	—
Maximum Off State Leakage Current	—	2 mA at 138 V 50/60 Hz
Maximum Surge Current	—	25 Amp for 1 cycle (60 Hz) (non-repetitive)

Turn On Time..... Less than 0.1 msec at 120 V
Turn Off Time..... 8.3 msec at 60 Hz or 10 msec at 50 Hz
Fuse..... AGC 3, 3 amp 250 V
"LOGIC" LED Operation Indication..... Yellow LED illuminated when receiving "ON" signal from processor.
"LOAD" LED Operation Indication..... Red LED illuminated when output voltage is provided at the output terminal
"BLOWN FUSE" LED Operation Indication..... Red LED illuminated when a blown fuse is detected.
Rated Module Current Draw On SY/MAX Power Supply. 125 mA per Module at 75% Duty Cycle
145 mA per Module at 100% Duty Cycle
Ambient Temperature Rating..... 0 - 60°C
Humidity Rating..... 0 - 95% non-condensing
Weight (unpackaged)..... 1.2 lb./0.54 kg.
Rack Assemblies In Which Module May Be Used DRK-210, DRK-300
Instruction Bulletin 30598-130-XX

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Class 8030 Type DOM-231
240VAC Deluxe Output Module

Outputs per Module..... 4
Type and Rated Isolation
Between Output Terminal
and Logic ..... Optical: 2500 V RMS
Voltage and Current Characteristics:

	VOLTAGE	CURRENT
Voltage Range	24-250 V 50/60 Hz	—
Maximum Current	—	2 Amp/output (8 Amp/module)
Minimum Load Current	—	—
Maximum On State Voltage Drop Across Output	2.0 V at 2 Amp Load	—
Maximum Off State Leakage Current	—	3.7 mA at 250 V 50/60 Hz
Maximum Surge Current	—	25 Amp for 1 cycle (60 Hz) (non-repetitive)

Turn On Time..... Less than 0.1 msec at 240 V
Turn Off Time..... 8.3 msec at 60 Hz
or 10 msec at 50 Hz
Fuse..... AGC 3, 3 amp 250 V
"LOGIC" LED Operation
Indication..... Yellow LED illuminated when receiving "ON" signal from processor.
"LOAD" LED
Operation Indication..... Red LED illuminated when output voltage is provided at the input terminal.
"BLOWN FUSE" LED
Operation Indication..... Red LED illuminated when a blown fuse is detected.
Rated Module Current Draw
On SY/MAX Power Supply. 125 mA per Module at 75% Duty Cycle
145 mA per Module at 100% Duty Cycle
Ambient Temperature
Rating..... 0 - 60°C
Humidity Rating..... 0 - 95% non-condensing
Weight (unpackaged)..... 1.2 lb./0.54 kg.
Rack Assemblies In Which
Module May Be Used DRK-210, DRK-300

Instruction Bulletin 30598-131-XX

Class 8030 Type DOM-241
9 -55VDC Deluxe Output Module

Outputs per Module..... 4
Type and Rated Isolation
Between Output Terminal
and Logic ..... Optical: 2500 V RMS
Voltage and Current Characteristics:

	VOLTAGE	CURRENT
Voltage Range	9-55 VDC	—
Maximum Current	—	2 Amp/output (4.75 Amp/module)
Minimum Load Current	—	—
Maximum On State Voltage Drop Across Output	1.7 VDC	—
Maximum Off State Leakage Current	—	5mA maximum with 1k ohm load at 55 VDC
Maximum Surge Current	—	15 Amp for 5 msec (non-repetitive)

Turn On Time..... 0.1 msec maximum
Turn Off Time..... 1.5 msec maximum
Fuse..... AGC 3, 3 amp 250 V

"LOGIC" LED Operation
Indication..... Yellow LED illuminated when receiving "ON" signal from processor.
"LOAD" LED Operation
Indication..... Red LED illuminated when output voltage is provided at the output terminal.
"BLOWN FUSE" LED
Operation Indication..... Red LED illuminated when a blown fuse is detected.
Rated Module Current Draw
On SY/MAX Power Supply. 115 mA per Module at 75% Duty Cycle
135 mA per Module at 100% Duty Cycle
Ambient Temperature
Rating..... 0 - 60°C
Humidity Rating..... 0 - 95% non-condensing
Weight (unpackaged)..... 1.1 lb./0.50 kg.
Rack Assemblies In Which
Module May Be Used DRK-210, DRK-300

Instruction Bulletin 30598-132-XX

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Class 8030 Type DOM-251
60-160VDC Deluxe Output Module

Outputs per Module..... 4
Type and Rated Isolation
Between Output Terminal
and Logic ..... Optical: 2500 V RMS
Voltage and Current Characteristics:

	VOLTAGE	CURRENT
Voltage Range	60-160 VDC	—
Maximum Current	—	2 Amp/output (4 Amp/module)
Minimum Load Current	—	—
Maximum On State Voltage Drop Across Output	2.7 V at 160 VDC	—
Maximum Off State Leakage Current	—	5 mA maximum with 1k ohm load at 160 VDC
Maximum Surge Current	—	10 Amp for 5 msec (non-repetitive)

Turn On Time..... 0.1 msec maximum
Turn Off Time..... 0.5 msec maximum
Fuse..... AGC 3, 3 amp 250 V
"LOGIC" LED Operation
Indication..... Yellow LED illuminated when receiving "ON" signal from processor
"LOAD" LED Operation
Indication..... Red LED illuminated when output voltage is provided at the output terminal.
"BLOWN FUSE" LED
Operation Indication..... Red LED illuminated when a blown fuse is detected.
Rated Module Current Draw
On SY/MAX Power Supply. 195 mA per Module at 75% Duty Cycle
245 mA per Module at 100% Duty Cycle
Ambient Temperature
Rating..... 0 - 60°C
Humidity Rating..... 0 - 95% non-condensing
Weight (unpackaged)..... 1.1 lb./0.50 kg.
Rack Assemblies In Which
Module May Be Used DRK-210, DRK-300

Instruction Bulletin 30598-133-XX

ORDERING INFORMATION

CLASS	TYPE	DESCRIPTION
8030	DOM-221	120VAC Deluxe Output Module
8030	DOM-231	240VAC Deluxe Output Module
8030	DOM-241	9-55VDC Deluxe Output Module
8030	DOM-251	60-160VDC Deluxe Output Module
8030	SFK-110	Fuse Kit (10 Fuses)

For additional information refer to the Instruction Bulletin indicated as the last item in each specification.

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