



ED NOVAK
 TRIO MOTION TECHNOLOGY L L C
 187 NORTHPOINTE BLVD STE 105
 FREEPORT PA 16229-2621

Date: 2018/10/30
 Subscriber: 866000001
 PartySite: 608807
 File No: E238097
 Project No: 4788681374
 PD No: 18M39311
 Type: R
 PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
		1	Revised Authorization Page(s)	2018/10/25
		1	Revised Index Page(s) 1	2018/10/25
2003/07/15	1	1	Cert of Compliance	
2003/07/15	1	1	New Description Page(s) 1-2,18,19,20,21,22,23,24,25,26	2018/10/25
2003/07/15	1	1	Revised Description Page(s) 1,1-1,9,10,11,12,13,14,15,16,17	2018/10/25
2003/07/15	1		New Test Record 13	2018/10/25

Revised authorization page sent as a result of an International Name change to the UL Contracting Party.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

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TRT File



File E238097

Vol 1

Auth. Page 1

Issued: 2003-07-15

Revised: 2018-10-30

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

COMPONENT - PROGRAMMABLE CONTROLLERS
(NRAQ2,NRAQ8)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

608807 (Party Site)
Applicant: TRIO MOTION TECHNOLOGY L L C
(866000-001) 187 Northpointe Blvd Ste 105
Freeport PA 16229-2621

608807 (Party Site)
Recognized Co.: SAME AS APPLICANT
(866000-001)

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UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

Bruce A. Mahrenholz
Director
Conformity Assessment Programs (CPO)
UL LLC

LOCATION

626095 (Party Site)
(886498-001) TRIO MOTION TECHNOLOGY LTD
Shannon Way
Tewkesbury
GL20 8ND UNITED KINGDOM

Factory ID:
UL Contracting Party for above site is: UL GmbH

INDEX

Model Number	Section	Report Date	USR	CNR
Component - Programmable Controllers, Models MC206, MC206X, MC302X, and Euro205x, Motion Coordinator with an optional daughter board, catalog number P280 and supplementary I/O Module CAN16, I/O module catalog numbers P315 and P316.	1	2003-07-15	X	X
Component - Programmable Controllers, Models MC224, MC464 and MC664 Motion Coordinator with an optional daughter board expansion chassis, catalog number P300, P301. Models MC4N-ECAT and MC4N-RTEX.				
Component - Programmable Controllers, Models MC403, MC403Z, MC405, MC508, with supplementary I/O Modules P317, P318, P319, P326, P327, P366, P371, P372, P375, P376, P377, P378, P379, P600, P960				

USR - indicates investigation to UL 508, Seventeenth Edition-Recognized.

CNR - indicates investigation to CSA C22.2 No. 142, First Edition - Recognized.

CERTIFICATE OF COMPLIANCE

Certificate Number 20181030-E238097
Report Reference E238097-20030715
Issue Date 2018-OCTOBER-30

Issued to: Trio Motion Technology L L C
187 Northpointe Blvd, Suite 105
Freeport PA 16229-2621


This is to certify that representative samples of Component - Programmable Controllers
Refer to the Addendum Page for Models

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508, Industrial Control Equipment
CSA C22.2 No. 142-M1987, Process Control Equipment-Industrial Products

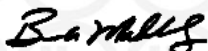
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20181030-E238097
Report Reference E238097-20030715
Issue Date 2018-OCTOBER-30

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

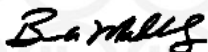
PRODUCTS COVERED:

Component - Programmable Controllers, Models:

MC206, MC206X, MC302X, and Euro205x, Motion Coordinator with an optional daughter board, catalog number P280 and supplementary I/O Module CAN16, I/O module catalog numbers P315 and P316.

MC224, MC464 and MC664 Motion Coordinator with an optional daughter board expansion chassis, catalog number P300, P301. Models MC4N-ECAT, MC4N-RTEX, PC-MCAT, P600 (Flex-6 Nano) and P960 (MC6N) with supplementary I/O Modules P366, P371, P372, P375, P376, P377, P378 and P379.

MC403, MC403Z, MC405, MC508 with supplementary I/O Modules P317, P318, P319, P326, P327.



Bruce Mahrenholz, Director North American Certification Program

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component - Programmable Controllers, Models MC206, MC206X, MC302X, and Euro205x, Motion Coordinator with an optional daughter board, catalog number P280 and supplementary I/O Module CAN16, I/O module catalog numbers P315 and P316.

* USR, CNR - Component - Programmable Controllers, Models MC224, MC464 and MC664 Motion Coordinator with an optional daughter board expansion chassis, catalog number P300, P301. Models MC4N-ECAT, **MC4N-RTEX, PC-MCAT, P600 (Flex-6 Nano) and P960 (MC6N) with supplementary I/O Modules P366, P371, P372, P375, P376, P377, P378 and P379.**

USR, CNR - Component - Programmable Controllers, Models MC403, MC403Z, MC405, MC508 with supplementary I/O Modules P317, P318, P319, P326, P327.

GENERAL:

These MC206, MC206X, MC302X, and Euro205x devices are **open type** microprocessor based four axis servo or stepper motion programmable controllers suitable for a variety of industrial control applications. By adding the optional daughter board it will expand to five axis. Additional Input and Output can be added with the Module CAN16 I/O, catalog numbers P315 or P316. These devices are intended to be mounted inside a panel on a DIN rail.

The MC224 accepts up to four daughter option boards.

The MC403, MC403Z, MC405, MC508, MC464, MC664 and MC4N devices are microprocessor based multi-axis servo or stepper motion programmable controllers suitable for a variety of industrial control applications. These devices are intended to be mounted inside an enclosure on a DIN rail or panel.

Note: USR indicates investigated to U.S. UL Standard 508.
CNR indicates investigated to Canadian Standard C22.2 No. 142-M1987.

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ELECTRICAL RATINGS:

Models MC206 ,MC206X, and MC302X Motion Coordinator

Input voltage 24 Vdc, Class 2 power source

Model Euro205x is similar to model MC206X, except rack mounting and powered by 5 V dc, class 2 power source

Module CAN16 I/O, catalog numbers P315, P316; EtherCAT I/O: P366, P371, P372, P375, P376, P377, P378, P379 - Input voltage 24 Vdc, Class 2 power source

Models MC224, MC464, MC664, MC4N-ECAT, MC4N-RTEX, P600 series (Flex-6 Nano), P960 series (MC6N) Motion coordinator:

Input Voltage 24 V dc, Class 2 power source

Models MC403, MC403Z, MC405, MC508, MC4N, MC664, PC-MCAT, P600 series (Flex-6 Nano), P960 series (MC6N), Euro205X, P317, P318, P319, P326, P327, P366, P371, P372, P375, P376, P377, P378, P379:

Input Voltage 24 V dc, Class 2 Power Source

*

Model	Supply rating	I/O rating
MC206, MC206X	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC302X	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
Euro205x	5 Vdc (Class 2 source)	I/O: 24 V dc (Class 2 source)
CAN16, P315, P316	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC224	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC464	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC664	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC4N-ECAT	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
P600 Series, PC-MCAT	24 V dc (Class 2 source)	No I/O
P960 Series	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC4N-RTEX	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC403, MC403Z, MC405	24 V dc (Class 2 source)	I/O: 24 V dc (Class 2 source)
MC508	24 V dc (Class 2 source)	Inputs: 24 V dc (Class 2 source) Outputs: 24 V dc, 500 mA (Class 2 source)
P317, P318, P319, P326, P327, P371, P375, P376	24 V dc (Class 2 source)	Digital I/O: 24 V dc (Class 2 source) Analog I/O: +/-10Vdc, 12bit
P372, P377	No external power input	Digital I/O: 24 V dc (Class 2 source)
P378, P379	No external power input	Analog I/O: +/-10Vdc, 12bit
P366	24 V dc (Class 2 source)	No I/O

Model differences:

Model	Description
MC206, MC206X	Controller, stepper/servo motor, 5 axes max., 16 I/O channels
MC302X	Controller, stepper/servo motor, 2 axes max., 8 I/O channels
Euro205x	Controller, stepper/servo motor, 4 axes max., 24 I/O channels
CAN16, P315, P316	CANbus expansion I/O module, 24 V dc. 16 I/O channels
MC224	Controller, stepper/servo motor, base unit; Expandable to 24 axes max using P300/301 chassis, 16 I/O channels
MC464	Controller, 64 Ethercat axes, 16 I/O channels
MC664, MC664-X	Controller, 128 Ethercat axes, 16 I/O channels
MC4N-ECAT	Controller, 32 Ethercat axes, 16 I/O channels
P600 Series, PC-MCAT	Controller, 64 Ethercat axes, no I/O
P960 Series	Controller, 64 Ethercat axes, 16 I/O channels
MC4N-RTEX	Controller, 32 Panasonic RTEX axes, 16 I/O channels
MC403, MC403Z, MC405	Controller, 3 axes max (MC403), 5 axes max (MC405), 12 I/O channels (MC403), 16 I/O channels (MC405)
MC508	Controller, 16 axes max., 32 input channels, 16 output channels
P317, P318, P319, P327, P371, P372, P375, P376, P377	Digital I/O: 24 V dc (Class 2 source), 16 I/O channels
P378, P379, P326	Analog I/O: +/-10Vdc, 12bit, 8 analog channels
P366	Ethernet Switch, no I/O

Model MC403

General - See Figure 1. This is a parent unit to any combination of the P317, P318, P319, P326, P327 devices. This Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cycloy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Overlay Plastic **and Light Pipes** - R/C (QMFZ2) - Lexan 940A Manufactured by Sabic Innovative Plastics (E121562)
3. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

4. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

5. DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)

Model MC403Z

General - See Figure 1. This is a parent unit to any combination of the P317, P318, P319, P326, P327 devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cycloy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Overlay Plastic **and Light Pipes** - R/C (QMFZ2) - Lexan 940A Manufactured by Sabic Innovative Plastics (E121562)
3. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

4. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

5. DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)

Model MC405 **and MC508**

General - See Figure 2. This is a parent unit to any combination of the P317, P318, P319, P326, P327 devices. Device is powered by a Class 2 supply. Represents Model MC508.

1. Housing - R/C (QMFZ2) Cyclopedia C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Viewing Window - R/C (QMFZ2) - Lexan 940A Manufactured by Sabic Innovative Plastics (E121562)
3. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

4. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

5. DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)

Model P317

* General - This device is a daughter I/O unit made for use with the **MC508, MC464, MC664, MC4N or P960** Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclopol C6200 Manufactured by Sabic Innovative Plastics (E121562)

2. **Light pipes - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

3. **Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

* 4. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

* 5. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

Model P318

* General - This device is a daughter I/O unit made for use with the **MC403, MC403Z, MC405, MC508, MC464, MC664, MC4N** or Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclopy C6200 Manufactured by Sabic Innovative Plastics (E121562)

2. **Light pipes - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

3. **Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

* 4. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

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R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

* 5. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

Model P319

* General - This device is a daughter I/O unit made for use with the **MC403, MC403Z, MC405, MC508, MC464, MC664, MC4N or P960** Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)

2. **Light pipes - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

3. **Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

* 4. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

* 5. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

Model P326

* General - This device is a daughter I/O unit made for use with the **MC403, MC403Z, MC405, MC508, MC464, MC664, MC4N or P960** Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)

2. **Light pipes - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

3. **Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

* 4. **Terminal Header** - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

* 5. **Terminal Blocks** - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

Model P327

* General - This device is a daughter I/O unit made for use with the **MC403, MC403Z, MC405, MC508, MC464, MC664, MC4N or P960** Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)

2. **Light pipes - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

3. **Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)**

* 4. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGVC-3.5-05P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-14P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-08P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-10P-13-00AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGVC-3.5-16P-13-00AH Manufactured by Degson, Rated 300V 8A (**E22872**)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

* 5. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKA-3.5-05P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-08P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-10P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-14P-13-100AH Manufactured by Degson, Rated 300V 8A (E22872)

R/C (XCFR2/7) Model No. 15EDGKA-3.5-16P-13-100AH Manufactured by Degson, Rated 300V 8A (**E22872**)

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

* Model **MC464, MC664 and MC664-X**- FIG. 7

General - This is a parent unit to any combination of the P317, P318, P319, P326, **P327, P366, P371, P372, P375, P376, P377, P378, P379** devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cycloy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Viewing Window - R/C (QMFZ2) - Lexan 940A Manufactured by Sabic Innovative Plastics (E121562)
3. **Battery Cover - Cycloy C6200 Manufactured by Sabic Innovative Plastics (E121562)**

* 4. Terminal Header - Each model may include any or all of the following:

Model No. 1794980000 Manufactured by Weidmuller Rated 300V 8A (E60693)

Model No. 0156-28-B1230230BK Manufactured by Dinkle Rated 300V (E102914)

R/C (XCFR2/7), Any, minimum rated 300V, 8A

*

* 5. Terminal Blocks - Each model may include any or all of the following:

Model No. 0156-2A-S1236230 Manufactured by Dinkle (E102914) Rated 300V 8A

R/C (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

6. **DIN Rail Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)**

*

Model MC4N and PC-MCAT and P960

General - The MC4N and PC-MCAT are high performance Motion Coordinators which are dedicated to running remote servo and stepper drives. Each device is powered by a Class 2 supply.

1. Rear Case - Cyclopedia C6200, Manufactured by Sabic Innovative Plastics (E121562)
2. Front Moulding - Cyclopedia C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Connection surround / SD cover / Plug - Cyclopedia C6200 Manufactured by Sabic Innovative Plastics (E121562)
4. Transparent Window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
5. Terminal Header - Each model may include any or all of the following:

Model No. ECHB350RM-BA0724BK, Manufactured by Dinkle (E102914),
rated 300V, 8A

(XCFR2/7), Any, minimum rated 300V, 8A
6. Terminal Blocks - Each model may include any or all of the following:

Model No. EC350VM-B1196212BK, Manufactured by Dinkle (E102914),
rated 300V, 8A

(XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P371

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply

1. Housing - Cyclopedia C6200, Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclopedia C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A

(XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKNM-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)

(XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P372

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKNM-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P375

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKMN-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P376

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclopy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclopy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKNN-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P377

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKNN-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P378

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cylcoloy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cylcoloy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKNN-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P379

General - This device is a daughter I/O unit made to couple with a P366 or P600 for use with the MC4N, PC-MCAT, MC664, MC664-X, or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-05A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGRC-3.5-10P-13-00A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:
 - R/C (XCFR2/7) Model No. 15EDGKNM-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - R/C (XCFR2/7) Model No. 15EDGKN-3.5-10P-13-1011A(H) Manufactured by Degson, Rated 300V 8A (E22872)
 - (XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

Model P366 and P600

General - This device is an EtherCAT switch made to couple with up to 16 P371, P372, P375, P376, P377, P378 or P379 for use with the MC4N, PC-MCAT, MC664, MC664-X, P600 or P960 Devices. Device is powered by a Class 2 supply.

1. Housing - R/C (QMFZ2) Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
2. Module marking inserts - Cyclooy C6200 Manufactured by Sabic Innovative Plastics (E121562)
3. Catches and DIN Clip - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
4. Connector plates and plug - Acetal Polyoxymethylene (POM), "Duracon", Manufactured by POLYPLASTICS CO LTD (E45034)
5. Light pipes and window - R/C (QMFZ2) - LEXAN 141R resin Manufactured by Sabic Innovative Plastics (E121562)
6. Terminal Header - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 1727566 Manufactured by Phoenix Crystal E60425 Rated 300V 8A

(XCFR2/7), Any, minimum rated 300V, 8A
7. Terminal Blocks - Each model may include any or all of the following:

R/C (XCFR2/7) Model No. 15EDGKNM-3.5-02P-13-1001A(H) Manufactured by Degson, Rated 300V 8A (E22872)

(XCFR2/7), Any, minimum rated 300V, 8A, suitable for field wiring

TEST RECORD NO. 13

SAMPLES:

Representative production samples of the open type Programmable Controller models P366, P371, P372, P375, P376, P377, P378, P379, P600, and P960 as indicated below and constructed as described herein, were submitted by the manufacturer for evaluation and test.

GENERAL:

Test results relate only to the items tested.

Testing of the open type Programmable Controller Models were not considered necessary based on Class 2 Power Sources and similarity in construction to previously Recognized models for this Applicants, incorporating the following modifications:

The MC508 is similar to the MC405, same case material, more I/O, faster processor to accommodate more axes.

The MC664 is similar to the MC464, using the exact same case and material. Same I/O. Faster processor

The MC6N is similar to the previous MC4N, using the exact same case and material. Same I/O. Faster processor.

The Flex-6 Nano is the MC6N design compressed into a smaller package, same case material. Only Ethernet ports. In the Flex-6 Nano there is no on-board I/O, serial ports, or encoder port, but otherwise the same processor design as the MC6N.

The Flexslice modules (P371, P372...) are the same electrically as previous P317, P318, P326 type I/O products (24Vdc in/out), just repackaged for the new Flex-6 Nano mounting design.

Testing was considered covered as follows:

Model	Tests	File Reference	Report Date	Test Record No.
MC508 and MC664	Refer to Test Record No. 1-12	E238097	2003-07-15	1-12

This evaluation has been reviewed and found to comply with the requirements in the Standard for Industrial Control Equipment, UL 508, 18th Edition, revised March 30, 2018 and the Standard for Process Control Equipment-Industrial Products, CSA C22.2 No. 142-M1987, 3rd Edition, revised September 1, 1990.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Reviewed by:

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