



Certificate / Certificat Zertifikat / 合格証

MII 1202038 C001

exida hereby confirms that the:

SRM Safety Relay Module

**Moore Industries-International, Inc.
North Hills, CA - USA**

The manufacturer
may use the mark:



Has been assessed per the relevant requirements of:

IEC 61508 : 2010 Parts 1-7

and meets requirements providing a level of integrity to:

Systematic Capability: SC 2 (SIL 2 Capable)

Random Capability: Type A Element

**PFD_{AVG} and Architecture Constraints
must be verified for each application**

Valid until August 1, 2018
Revision 1.4 July 31, 2015

Safety Function:

The Safety Relay Module Alarm is a relay repeater module. It accepts a single contact closure input and propagates the alarm state to three (3) outputs.

Application Restrictions:

The unit must be properly designed into a Safety Instrumented Function per the Safety Manual requirements.



ANSI Accredited Program
PRODUCT CERTIFICATION
#1004



Evaluating Assessor

Certifying Assessor

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Systematic Capability: SC 2 (SIL 2 Capable)**Random Capability: Type A Element****PFD_{AVG} and Architecture Constraints
must be verified for each application****SRM Safety Relay
Module****Systematic Capability:**

The Product has met manufacturer design process requirements of Safety Integrity Level (SIL) 2. These are intended to achieve sufficient integrity against systematic errors of design by the manufacturer.

A Safety Instrumented Function (SIF) designed with this product must not be used at a SIL level higher than stated without "prior use" justification by end user or diverse technology redundancy in the design.

Random Capability:

The SIL limit imposed by the Architectural Constraints must be met for each element. This Device meets *exida* criteria for Route 2_H.

IEC 61508 Failure Rates in FIT*

Device	λ_{SD}	λ_{SU}	λ_{DD}	λ_{DU}	SFF
SRM/CC/3RO/24DC [DIN]	0	129.0	0	62.5	67.4%

* FIT = 1 failure / 10⁹ hours

SIL Verification:

The Safety Integrity Level (SIL) of an entire Safety Instrumented Function (SIF) must be verified via a calculation of PFD_{AVG} considering redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each element must be checked to assure compliance with minimum hardware fault tolerance (HFT) requirements.

The following documents are a mandatory part of certification:

Assessment Report: MII 12/02-038 R001 V1 R3



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Sellersville, PA 18960