



# Certificate of Compliance

**Certificate:** 2590398

**Master Contract:** 257594

**Project:** 70063064

**Date Issued:** February 11, 2016

**Issued to:** Telemecanique/Schneider Electric Industries SAS  
BP 660  
Zone Industrielle No. 3  
L'Isle d'Espagnac, 16340  
FRANCE  
Attention: Jean-Pierre Laidet

*The products listed below are eligible to bear the CSA Mark shown*



**Issued by:** Anne Drouin  
Anne Drouin

## PRODUCTS

**CLASS 3211 07** - INDUSTRIAL CONTROL EQUIPMENT - Miscellaneous Apparatus

Solid-state relays, SSL1D03JD, SSL1D03BD, SSL1D03ND, SSL1D101JD, SSL1D101BD, SSL1D101ND, SSL1A12JD, SSL1A12JDR, SSL1A12BD, SSL1A12BDR, SSL1A12ND and SSL1A12NDR.

### ELECTRICAL RATINGS:

SSL1D03JD, SSL1D03BD, SSL1D03ND, control voltage 2.5 -12V dc or 15-30V dc or 38-72V dc; Output 24V dc, 3.5A general-use, 100Kcycles;

SSL1D101JD, SSL1D101BD, SSL1D101ND, control voltage 2.5 -12V dc or 15-30V dc or 38-72V dc; Output 48V dc, 0.1A general-use, 100k cycles.

SSL1A12JD, SSL1A12JDR, SSL1A12BD, SSL1A12BDR, SSL1A12ND and SSL1A12NDR, control voltage 2.5 -12V dc or 15-30V dc or 38-72V dc; Output 240V ac, 2.0 A, general-use 100k cy; 120/240 VAC, 240 VA Pilot Duty.

Maximum Surrounding Air Temperature: 40°C



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Note:

Open type devices are Certified as component for use in other Certified equipment where the suitability of the combination is to be determined by CSA International.

- Industrial relays, Series SSM3A325F7, SSM3A325P7, SSM3A325BD, SSM3A325BDR, open type, solid state relays, rated as follows:  
 Input: 4-32V dc – regulated input current, 60 mA max  
 Output: 3 phase, 50/60 Hz, 25A resistive and general use at 48-600V ac; 3 hp at 480V ac.

Notes:

- Open type devices are investigated for use only as components of electrical and electronic equipment where the acceptability of the final assembly is determined by the CSA International.
  - These devices were tested without an enclosure. When mounted in an enclosure, the test record should be reviewed to determine if tests need to be repeated, giving particular attention to the Temperature Test.
  - The 25A models were subjected to 100,000 cycles of endurance.
- Solid state relays, Series SSM1A145 BD, SSM1A145F7, SSM1S445BD, SSM1A455F7, SSM1A455BD, open type, ratings as follows:

Models	Input Voltage	Output Voltage	Current
SSM1A145BD	3-32V dc	24-280V ac	35-65A
SSM1A145F7	90-140V ac	24-280V ac	35-65A
SSM1A445BD	4-32V dc	48-660V ac	35-65A
SSM1A455BD	4-32V dc	48-660V ac	35-65A
SSM1A445F7	90-140V ac	48-660V ac	35-65A
SSM1A455F7	90-140V ac	48-660V ac	35-65A

- Solid state relays, open type, Series SSM1A120BD, SSM1A130BD, SSM1A120M7, SSM1A130M7, SSM1A430M7, SSM1A430BD, SSM1S445F7, with integral heatsink, ratings as follows:

Models	Input (Control) Voltage	Output Voltage	Current	HP
SSM1A120M7	110 – 280V ac	24 – 280V ac	10 – 30 A	2
SSM1A130M7	110 – 280V ac	24 – 280V ac	10 – 30 A	2
SSM1A120BD	4.5 – 32V dc	24 – 280V ac	10 – 30 A	2
SSM1A130BD	4.5 – 32V dc	24 – 280V ac	10 – 30 A	2
SSM1A430BD	4.5 – 32V dc	48 - 660V ac	10 – 30 A	-
SSM1A430M7	110 – 280 V ac	48 – 660V ac	10 – 30 A	-



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- Solid state relay, open type, Series SSP with suffixes. Rated as follows

Series Model	Control	Load Voltage	Load Current (A)	
			Res	Gen Use
SSP1D412BD SSP1D425BD SSP1D440BD SSP1D412BDT SSP1D425BDT SSP1D440BDT	BD:3.5-32VDC, 15mA	1-150VDC	12, 40	-
SSP1A110BD SSP1A110M7 SSP1A125BD SSP1A125M7 SSP1A150BD SSP1A150M7 SSP1A175BD SSP1A175M7 SSP1A110BDT SSP1A110M7T SSP1A125BDT SSP1A125M7T SSP1A150BDT SSP1A150M7T SSP1A175BDT SSP1A175M7T	M7:90-280VAC, 10mA BD:3-32 VDC, 10 mA	24-300VAC, 47-400Hz	-	10, 25, 50, 75
SSP1A450BD SSP1A450M7 SSP1A475BD SSP1A475M7 SSP1A490BD SSP1A490M7 SSP1A4125BD SSP1A4125M7 SSP1A450BDT SSP1A450M7T SSP1A475BDT SSP1A475M7T SSP1A490BDT SSP1A490M7T SSP1A4125BDT SSP1A4125M7T	M7:90-280VAC, 10mA BD:4-32 VDC, 12 mA	48-660VAC, 47-400Hz	-	50, 75, 90, 125



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Series Model	Control	Load Voltage	Load Current (A)	
			Res	Gen Use
SSP1A125BDS SSP1A150BDS	D:3-32 VDC, 10 mA	24-300VAC, 47-400Hz	-	25, 50
SSP1A450BDS SSP1A475BDS SSP1A490BDS SSP1A4125BDS	D:4-32 VDC, 12 mA	48-660VAC, 47-400Hz	-	50, 75, 90, 125

Motor Ratings			
SSR Rating	120VAC	240VAC	480VAC
10-25	1/2hp, 9.8FLA	1hp, 8FLA	3hp, 8.5FLA
50	3/4hp, 13.8FLA	2hp, 12FLA	5hp, 14FLA
75-90	1.5hp, 20FLA	3hp, 17FLA	7.5hp, 21FLA
125	2hp, 24FLA	5hp, 28FLA	10hp, 26FLA

Short Circuit Rating: 480 VAC, 5kA Standard Fault and, 480 VAC, 100kA High Fault. (See Note 4).

**Notes:**

1. Open type devices are Certified as components for use in other Certified equipment where the suitability of the combination is to be determined by the CSA Group.
2. Terminals are evaluated for factory wiring only.
3. The temperature on the solid-state relays shall not exceed the following temperatures:

TC Location	Maximum Temperature Limit
PC1	100°C
PC2	100°C
SCRA	125°C
SCRB	125°C
MOSFET Q8, Q9, or Q10	170°C
PCB Input trace	130°C
PCB Load trace	130°C
Case Side Center near base	130°C

4. SSP Series AC Load models have been subjected to the Short Circuit Tests at 5 kA and 100 kA, 480 VAC. Each series model shall be protected with the following branch circuit fuses:



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Models Rated	Maximum FLA Rating	Maximum Branch Circuit Fuse Class, Size	Short Circuit Rating
10 A and 25 A	9.8 FLA	Class K5, 50 A	5 kA, 480 V
		Class J, 50 A	100 kA, 480 V
50 A	14 FLA	Class K5, 50 A	5 kA, 480 V
		Class J, 80 A	100 kA, 480 V
75 A and 90 A	21 FLA	Class K5, 100 A	5 kA, 480 V
		Class J, 100 A	100 kA, 480 V
125 A	28 FLA	Class K5, 100 A	5 kA, 480 V
		Class J, 125 A	100 kA, 480 V

**CLASS 3211 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic**

Solid-state motor controllers, Models SSP3A225P7, SSP3A225F7, SSP3A225BD, SSP3A225B7, SSP3A250P7, SSP3A250F7, SSP3A250BD, SSP3A250B7, SSP3A225P7R, SSP3A225F7R, SSP3A225BDR, SSP3A225B7R, SSP3A250P7R, SSP3A250F7R, SSP3A250BDR, SSP3A250B7R, SSP3A225P7T, SSP3A225F7T, SSP3A225BDT, SSP3A225B7T, SSP3A250P7T, SSP3A250F7T, SSP3A250BDT, SSP3A250B7T, SSP3A225P7RT, SSP3A225F7RT, SSP3A225BDRT, SSP3A225B7RT, SSP3A250P7RT, SSP3A250F7RT, SSP3A250BDRT and SSP3A250B7RT

Input:

4-32V dc, regulated input current, 33mA maximum  
 18-36V ac, regulated input current, 20mA maximum  
 90-140V ac, regulated input current, 15mA maximum  
 180-260V ac, regulated input current, 8mA maximum

Output:

General-purpose and Resistive Ratings

Horsepower Ratings

25A (3-Phase): 120V ac, 0.75Hp/6.4FLA; 240V ac, 1 Hp/4.2FLA; 480V ac, 3 Hp/4.8FLA; 600V ac, 5 Hp/6.1FLA.



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50A: 120V ac, 1.5 Hp/12FLA; 240V ac, 3 Hp/9.6FLA; 480V ac, 7.5 Hp/11FLA; 600V ac, 10 Hp/11FLA

Solid-state, Series One, Types SSM1D26BD, SSM1D36BD, SSM1A16BD, SSM1A16F7, SSM1A16P7, SSM1A16B7, SSM1A36BD, SSM1A16BDR, SSM1A16F7R, SSM1A16P7R, SSM1A16B7R, SSM1A36BDR, SSM1D212BD, SSM1D312BD, SSM1A112BD, SSM1A112F7, SSM1A112P7, SSM1A112B7, SSM1A312BD, SSM1A312F7, SSM1A312P7, SSM1A312B7, SSM1A112BDR, SSM1A112F7R, SSM1A112P7R, SSM1A112B7R, SSM1A312BDR, SSM1A312F7R, SSM1A312P7R and SSM1A312B7R.

Solid-state, Series One, Types SSM2A16BD, SSM2A36BD, SSM2A16BDR and SSM2A36BDR.



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#### ELECTRICAL RATINGS:

##### Series One

Models SSM1D26BD, SSM1D36BD, SSM1A16BD, SSM1A16F7, SSM1A16P7, SSM1A16B7, SSM1A36BD, SSM1A16BDR, SSM1A16F7R, SSM1A16P7R, SSM1A16B7R, SSM1A36BDR, Control voltage 4-32 v dc, 18-36 V ac, 90-140 V ac or 200-265 V ac. Output 100 V dc 6 A, Res. 100k cycles; 600 V ac 6 A, Gen Use 100k cycles; 240 V ac 1/6 hp, 2.2 FLA.

Models SSM1D212BD, SSM1D312BD, SSM1A112BD, SSM1A112F7, SSM1A112P7, SSM1A112B7, SSM1A312BD, SSM1A312F7, SSM1A312P7, SSM1A312B7, SSM1A112BDR, SSM1A112F7R, SSM1A112P7R, SSM1A112B7R, SSM1A312BDR, SSM1A312F7R, SSM1A312P7R and SSM1A312B7R. Control voltage 4-32 V dc, 18-36 V ac, 90-140 V ac or 200-265 V ac. Output 100 V dc 12 A, Res. 100k cycles; 600 V ac 6 A, Gen Use 100k cycles; 240 V ac 1/3 hp, 3.6 FLA.

Models SSM2A16BD, SSM2A36BD, SSM2A16BDR and SSM2A36BDR, Control voltage 4-32 V dc; Output 600 V ac 6 A, (per channel) Gen Use 100k cycles; 240 V ac 1/6 hp, 2.2 FLA.

##### Notes:

1. Open type devices are Certified as components for use only in other Certified equipment where the suitability of the combination is to be determined by the CSA International.
2. At the manufacturer's request, subject models were tested to 100,000 cycles of endurance.
3. Device may be marked any rating within the ranges as indicated above.
4. The 25 A and 50 A relays of the same output voltage are identical except for the ratings on the label.



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### **APPLICABLE REQUIREMENTS**

CSA C22.2 No. 14-13 - Industrial Control Equipment

### **MARKINGS**

Product markings shall be in accordance with the related standards. In addition, it shall be the responsibility of the manufacturer to provide additional markings on the product to comply with the requirements of the local regulatory authorities. For example, in Canada, any caution and warning markings must be provided in French and English.

The CSA Mark, the company name, tradename or identification, or Master Contract Number 257594, model designation, and any 'Cautions' or other information as specified in the Certification Report.



## Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,  
are eligible to be marked in accordance with the referenced Certificate.*

### Product Certification History

Project	Date	Description		
70063064	February 11, 2016	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>Submittor's Models :</u>  ERAD2425G  ERAD2450G  ERAD6050G  ERAD6075G  ERAD6090G  ERAD60125G </td> <td style="width: 50%; vertical-align: top;"> <u>Listee's Models:</u>  SSP1A125BDS  SSP1A150BDS  SSP1A450BDS  SSP1A475BDS  SSP1A490BDS  SSP1A4125BDS </td> </tr> </table>	<u>Submittor's Models :</u> ERAD2425G ERAD2450G ERAD6050G ERAD6075G ERAD6090G ERAD60125G	<u>Listee's Models:</u> SSP1A125BDS SSP1A150BDS SSP1A450BDS SSP1A475BDS SSP1A490BDS SSP1A4125BDS
<u>Submittor's Models :</u> ERAD2425G ERAD2450G ERAD6050G ERAD6075G ERAD6090G ERAD60125G	<u>Listee's Models:</u> SSP1A125BDS SSP1A150BDS SSP1A450BDS SSP1A475BDS SSP1A490BDS SSP1A4125BDS			
70042456	September 25, 2015	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <u>Submittor's Models :</u>  166193-70036045  (LR38595)  CofC is incomplete  ERDD1012  ERDD1040  ERDD1040  ERDD2410  ERDA2410  ERDD2425  ERDA2425  ERDD2450  ERDA2450  ERDD2475  ERDA2475  ERDD6050  ERDA6050  ERDD6075  ERDA6075  ERDD6090  ERDA6090  ERDD60125  ERDA60125  ERDD1012  ERDD1040  ERDD1040  ERDD2410  ERDA2410  ERDD2425  ERDA2425  ERDD2450 </td> <td style="width: 50%; vertical-align: top;"> <u>Listee's Models :</u>  SSP1D412BD  SSP1D425BD  SSP1D440BD  SSP1A110BD  SSP1A110M7  SSP1A125BD  SSP1A125M7  SSP1A150BD  SSP1A150M7  SSP1A175BD  SSP1A175M7  SSP1A450BD  SSP1A450M7  SSP1A475BD  SSP1A475M7  SSP1A490BD  SSP1A490M7  SSP1A4125BD  SSP1A4125M7  SSP1D412BDT  SSP1D425BDT  SSP1D440BDT  SSP1A110BDT  SSP1A110M7T  SSP1A125BDT  SSP1A125M7T  SSP1A150BDT </td> </tr> </table>	<u>Submittor's Models :</u> 166193-70036045 (LR38595) CofC is incomplete ERDD1012 ERDD1040 ERDD1040 ERDD2410 ERDA2410 ERDD2425 ERDA2425 ERDD2450 ERDA2450 ERDD2475 ERDA2475 ERDD6050 ERDA6050 ERDD6075 ERDA6075 ERDD6090 ERDA6090 ERDD60125 ERDA60125 ERDD1012 ERDD1040 ERDD1040 ERDD2410 ERDA2410 ERDD2425 ERDA2425 ERDD2450	<u>Listee's Models :</u> SSP1D412BD SSP1D425BD SSP1D440BD SSP1A110BD SSP1A110M7 SSP1A125BD SSP1A125M7 SSP1A150BD SSP1A150M7 SSP1A175BD SSP1A175M7 SSP1A450BD SSP1A450M7 SSP1A475BD SSP1A475M7 SSP1A490BD SSP1A490M7 SSP1A4125BD SSP1A4125M7 SSP1D412BDT SSP1D425BDT SSP1D440BDT SSP1A110BDT SSP1A110M7T SSP1A125BDT SSP1A125M7T SSP1A150BDT
<u>Submittor's Models :</u> 166193-70036045 (LR38595) CofC is incomplete ERDD1012 ERDD1040 ERDD1040 ERDD2410 ERDA2410 ERDD2425 ERDA2425 ERDD2450 ERDA2450 ERDD2475 ERDA2475 ERDD6050 ERDA6050 ERDD6075 ERDA6075 ERDD6090 ERDA6090 ERDD60125 ERDA60125 ERDD1012 ERDD1040 ERDD1040 ERDD2410 ERDA2410 ERDD2425 ERDA2425 ERDD2450	<u>Listee's Models :</u> SSP1D412BD SSP1D425BD SSP1D440BD SSP1A110BD SSP1A110M7 SSP1A125BD SSP1A125M7 SSP1A150BD SSP1A150M7 SSP1A175BD SSP1A175M7 SSP1A450BD SSP1A450M7 SSP1A475BD SSP1A475M7 SSP1A490BD SSP1A490M7 SSP1A4125BD SSP1A4125M7 SSP1D412BDT SSP1D425BDT SSP1D440BDT SSP1A110BDT SSP1A110M7T SSP1A125BDT SSP1A125M7T SSP1A150BDT			



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**ERDA2450**  
**ERDD2475**  
**ERDA2475**  
 ERDD6050  
 ERDA6050  
 ERDD6075  
 ERDA6075  
 ERDD6090  
 ERDA6090  
 ERDD60125  
 ERDA60125

**SSP1A150M7T**  
**SSP1A175BDT**  
**SSP1A175M7T**  
 SSP1A450BDT  
 SSP1A450M7T  
 SSP1A475BDT  
 SSP1A475M7T  
 SSP1A490BDT  
 SSP1A490M7T  
 SSP1A4125BDT  
 SSP1A4125M7T

Correction to Schneider Models from: SSM1S445F7 and SSM1S445BD to: SSM1A445F7 and SSM1A445BD

70033282 May 21, 2015

Submittor's Models:

Listee's Models:

**166193-1662207** GNR25BCZ  
**(LR 38598)** GNR25ACZ  
 GNR25DCZ  
 GNR25DCR

SSM3A325F7  
 SSM3A325P7  
 SSM3A325BD  
 SSM3A325BDR

**166193-1069882** CKRD2420  
 CKRD2430  
 CMRD2445  
 CKRA2420  
 CKRA2430  
 CMRA2445

SSM1A120BD  
 SSM1A130BD  
 SSM1A145BD  
 SSM1A120M7  
 SSM1A130M7  
 SSM1A145F7

**166193-1069882** CKRA6030  
 CKRD6030  
 CMRA6045  
 CMRD6045  
 CMRA6055  
 CMRD6055

SSM1A430M7  
 SSM1A430BD  
 SSM1A445F7  
 SSM1A445BD  
 SSM1A455F7  
 SSM1A455BD

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Submittor's Models:

Listee's Models:

**166193-1086854** CN024D05  
**(LR 81689)** CN024D24  
 CN024D60  
 CN048D05  
 CN048D24  
 CN048D60  
 CN240A05  
 CN240A05R  
 CN240A24  
 CN240A24R

SSL1D03JD  
 SSL1D03BD  
 SSL1D03ND  
 SSL1D101JD  
 SSL1D101BD  
 SSL1D101ND  
 SSL1A12JD  
 SSL1A12JDR  
 SSL1A12BD  
 SSL1A12BDR



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Report 166193-70051913

CN240A60	SSL1A12ND
CN240A60R	SSL1A12NDR
C53TP25C	SSP3A225P7
B53TP25C	SSP3A225F7
D53TP25C	SSP3A225BD
E53TP25C	SSP3A225B7
C53TP50C	SSP3A250P7
B53TP50C	SSP3A250F7
D53TP50C	SSP3A250BD
E53TP50C	SSP3A250B7
C53TP25C-10	SSP3A225P7R
B53TP25C-10	SSP3A225F7R
D53TP25C-10	SSP3A225BDR
E53TP25C-10	SSP3A225B7R
C53TP50C-10	SSP3A250P7R
B53TP50C-10	SSP3A250F7R
D53TP50C-10	SSP3A250BDR
E53TP50C-10	SSP3A250B7R
C53TP25CH	SSP3A225P7T
B53TP25CH	SSP3A225F7T
D53TP25CH	SSP3A225BDT
E53TP25CH	SSP3A225B7T
C53TP50CH	SSP3A250P7T
B53TP50CH	SSP3A250F7T
D53TP50CH	SSP3A250BDT
E53TP50CH	SSP3A250B7T
C53TP25CH-10	SSP3A225P7RT
B53TP25CH-10	SSP3A225F7RT
D53TP25CH-10	SSP3A225BDRT
E53TP25CH-10	SSP3A225B7RT
C53TP50CH-10	SSP3A250P7RT
B53TP50CH-10	SSP3A250F7RT
D53TP50CH-10	SSP3A250BDRT
E53TP50CH-10	SSP3A250B7RT
166193-70051913 DR06D06	SSM1D26BD
DR10D06	SSM1D36BD
DR24D06	SSM1A16BD
DR24B06	SSM1A16F7
DR24A06	SSM1A16P7
DR24E06	SSM1A16B7
DR48D06	SSM1A36BD
DR24D06R	SSM1A16BDR
DR24B06R	SSM1A16F7R
DR24A06R	SSM1A16P7R
DR24E06R	SSM1A16B7R
DR48D06R	SSM1A36BDR
DR06D12	SSM1D212BD



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DR10D12	SSM1D312BD
DR24D12	SSM1A112BD
DR24B12	SSM1A112F7
DR24A12	SSM1A112P7
DR24E12	SSM1A112B7
DR48D12	SSM1A312BD
DR48B12	SSM1A312F7
DR48A12	SSM1A312P7
DR48E12	SSM1A312B7
DR24D12R	SSM1A112BDR
DR24B12R	SSM1A112F7R
DR24A12R	SSM1A112P7R
DR24E12R	SSM1A112B7R
DR48D12R	SSM1A312BDR
DR48B12R	SSM1A312F7R
DR48A12R	SSM1A312P7R
DR48E12R	SSM1A312B7R
DRD24D06	SSM2A16BD
DRD48D06	SSM2A36BD
DRD24D06R	SSM2A16BDR
DRD48D06R	SSM2A36BDR