



Member of the FM Global Group

FM Approvals  
1151 Boston Providence Turnpike  
P.O. Box 9102 Norwood, MA 02062 USA  
T: 781 762 4300 F: 781-762-9375 www.fmaprovals.com

# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

### 6AV Series. Panel Series Modules

NI / I / 2 / ABCD / T\*

NI / I / 2 / IIC / T\*\*

Model No.	Description	T-Code*	T-Code**	Tambient
6AV6 542-0AG10-a	Multi Panel MP270B Key-10 TFT	T4	T4	50 °C
6AV6 542-0BB15-a	Operator Panel OP 170B Mono	T4A	T4	50 °C
6AV6 542-0CA10-a	Panel OP270 Key-6 CSTN	T4	T4	50 °C
6AV6 542-0CC10-a	Panel OP270 Key-10 CSTN	T4	T4	50 °C
6AV6 542-0DA10-a	Multi Panel MP 370 Key	T4A	T4	50 °C
6AV6 545-0AA15-a	Touch Panel TP 070	T4A	T4	50 °C
6AV6 545-0AG10-a	Multi Panel MP270B Touch-10 TFT	T4	T4	50 °C
6AV6 545-0AH10-a	Multi Panel MP270B Touch-6 TFT	T4	T4	50 °C
6AV6 545-0BA15-a	Touch Panel 170A	T4A	T4	50 °C
6AV6 545-0BB15-a	Touch Panel TP 170B Mono	T4A	T4	50 °C
6AV6 545-0BC15-a	Touch Panel TP170B Color	T4A	T4	50 °C
6AV6 545-0CA10-a	Panel TP270 Touch-6 CSTN	T4	T4	50 °C
6AV6 545-0CC10-a	Panel TP270 Touch-10 CSTN	T4	T4	50 °C
6AV6 545-0DA10-a	Multi Panel MP 370 Touch	T4A	T4	50 °C
6AV6 545-0DB10-a	Multi Panel MP 370 Touch	T4	T4	50 °C
6AV6 545-8BC10-a	Simatic Panel Q TP170	T4A	T4	50 °C
6AV6 545-8DB10-a	Simatic Panel Q MP370 Touch	T4A	T4	50 °C
6AV6 640-0CA01-a	Touch Panel TP 170 Micro	T4A	T4	50 °C



Member of the FM Global Group

a = Options not affecting safety, 4 digit alphanumeric code

*Special Conditions of Use:*

1. *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*

Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC  
Hazardous (Classified) indoor Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005



Member of the FM Global Group

**6AV Series. Panel Series Modules**

NI / I / 2 / ABCD / T\*; IP66; Type 4X/12

NI / I / 2 / IIC / T\*\*; IP66; Type 4X/12

Model No.	Description	T-Code*	T-Code**	Tambient
<b>6AV6 545-8CC10-a</b>	<b>Q TP270 Touch-10 CSTN</b>	T4	T4	50 °C

a = Options not affecting safety, any 2, 3 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

*Special Conditions of Use:*

- 1. The modules shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
- 2. In order for the IP66 and Enclosure Type 4X/12 ratings to apply, the module must be installed in accordance with the manufacturer's installation manual.*

**Equipment Ratings:**

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC Hazardous (Classified) indoor/outdoor (IP66 and Type 4X/12) Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005
ANSI/NEMA-250	1997
IEC 60529	2001
Including Amendment 1	

**6AV Series. Panel Series Modules**

NI / I / 2 / ABCD / T\*; Type 4X/12

NI / I / 2 / IIC / T\*\*; Type 4X/12

Model No.	Description	T-Code*	T-Code**	Tambient
<b>6AV3 688-3AF37-a</b>	<b>KP8F</b>	T4	T4	55 °C
<b>6AV3 688-3AY36-a</b>	<b>KP8</b>	T4	T4	55 °C
<b>6AV6 642-0EA01-a</b>	<b>MP 177-6" Touch Panel</b>	T4	T4	50 °C
<b>6AV6 642-8BA1a-a</b>	<b>TP177B color INOX</b>	T4	T4	50 °C
<b>6AV6 643-0AA01-a</b>	<b>TP 277-6"</b>	T4	T4	50 °C
<b>6AV6 643-0CD01-a</b>	<b>MP 277T-10"</b>	T4	T4	50 °C
<b>6AV6 643-0DD01-a</b>	<b>MP 277K-10"</b>	T4	T4	50 °C
<b>6AV6 643-0ED01-a</b>	<b>MP 277T-10" INOX Ex</b>	T4	T4	50 °C
<b>6AV6 643-8AD10-a</b>	<b>MP 277T-10" INOX</b>	T4	T4	50 °C
<b>6AV6 644-0AA01-a</b>	<b>MP 377 12" Touch</b>	T4	T4	50 °C
<b>6AV6 644-0AB01-a</b>	<b>MP 377 15" Touch</b>	T4	T4	50 °C
<b>6AV6 644-0AC01-a</b>	<b>MP 377 19" Touch</b>	T4	T4	50 °C
<b>6AV6 644-0BA01-a</b>	<b>MP 377 12" Key</b>	T4	T4	50 °C
<b>6AV6 644-0CB01-a</b>	<b>MP 377 15" Touch INOX</b>	T4	T4	50 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

*Special Conditions of Use:*

1. *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
2. *In order for the Enclosure Type 4X/12 ratings to apply, the module must be installed in accordance with the manufacturer's installation manual.*

**6AV Series. Panel Series Modules**

NI / I / 2 / ABCD / T\*; Type 4X/12

NI / I / 2 / IIC / T\*\*; Type 4X/12

Model No.	Description	T-Code*	T-Code**	Tambient
<b>6AV6 644-8AB20-a</b>	<b>MP 377 15" Touch Daylight</b>	T4	T4	50 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

*Special Conditions of Use:*

1. *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
2. *In order for the Enclosure Type 4X/12 ratings to apply, the module must be installed in accordance with the manufacturer's installation manual.*
3. *The front panel has a temperature range of  $-30\text{ °C} \leq T_a \leq +70\text{ °C}$ , though the ambient temperature of the electronics must remain between  $0\text{ °C} \leq T_a \leq +50\text{ °C}$ .*

**6AV Series. Comfort Series Panel Modules**

NI / I / 2 / ABCD / T\*; Type 4X/12

NI / I / 2 / IIC / T\*\*; Type 4X/12

Model No.	Description	T-Code*	T-Code**	Tambient
<b>6AV2 124-0GC01-a</b>	<b>TP 700 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-0JC01-a</b>	<b>TP 900 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-0MC01-a</b>	<b>TP 1200 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-1DC01-a</b>	<b>KP 400 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-1GC01-a</b>	<b>KP 700 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-1JC01-a</b>	<b>KP 900 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-1MC01-a</b>	<b>KP 1200 Comfort</b>	T4	T4	50 °C
<b>6AV2 124-2DC01-a</b>	<b>KTP 400 Comfort</b>	T4	T4	50 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

*Special Conditions of Use:*

1. *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
2. *In order for the Enclosure Type 4X/12 ratings to apply, the module must be installed in accordance with the manufacturer's installation manual.*

**Equipment Ratings:**

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC  
 Hazardous (Classified) indoor/outdoor (Type 4X/12) Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005
ANSI/NEMA-250	2003

**6AV Series. Panel Series Modules**

NI / I / 2 / ABCD / T\*; IP65; Type 4X/12

NI / I / 2 / IIC / T\*\*; IP65; Type 4X/12

Model No.	Description	T-Code*	T-Code**	Tambient
<b>6AV6 640-0CA11-a</b>	<b>TP177micro</b>	T4	T4	50 °C
<b>6AV6 641-0BA11-a</b>	<b>Operator Panel OP77A</b>	T4	T4	50 °C
<b>6AV6 641-0CA01-a</b>	<b>Operator Panel OP77B</b>	T4	T4	50 °C
<b>6AV6 642-0AA11-a</b>	<b>TP177A</b>	T4	T4	50 °C
<b>6AV6 642-0BA01-a</b>	<b>Touch Panel TP177B PN/DP</b>	T4	T4	50 °C
<b>6AV6 642-0BC01-a</b>	<b>Touch Panel TP177B DP</b>	T4	T4	50 °C
<b>6AV6 642-0BD01-a</b>	<b>TP 177B-4" Color Panel PN/DP</b>	T4	T4	50 °C
<b>6AV6 642-0DA01-a</b>	<b>Operator Panel OP177B PN/DP</b>	T4	T4	50 °C
<b>6AV6 642-0DC01-a</b>	<b>Operator Panel OP177B DP</b>	T4	T4	50 °C
<b>6AV6 642-7BA11-a</b>	<b>Touch Panel OEM TP177B PN/DP HK</b>	T4	T4	50 °C
<b>6AV6 643-0CB01-a</b>	<b>MP 277T-8"</b>	T4	T4	50 °C

a = Options not affecting safety, any 2 or 4 digit letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation, etc.

*Special Conditions of Use:*

- The modules shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
- In order for the IP65 and Enclosure Type 4X/12 ratings to apply, the module must be installed in accordance with the manufacturer's installation manual.*

**Equipment Ratings:**

Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC  
Hazardous (Classified) indoor/outdoor (IP65 and Type 4X/12) Locations

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005
ANSI/NEMA-250	2003
IEC 60529	2001

**FM Approved for:**

Siemens AG – I IA AS RD Type Test  
Amberg, Germany



Member of the FM Global Group

Original Project ID: 3012250

Approval Granted: December 14, 2001

Subsequent Revision Reports / Date Approval Amended

Report Number	Date	Report Number	Date
3013507	April 24, 2002	3042138	March 22, 2011
3014949	October 2, 2002	3042445	April 12, 2011
3017709	June 6, 2003	3042849	July 26, 2011
3017859	July 31, 2003		
040809	September 2, 2004		
050221	March 16, 2005		
3024625	September 30, 2005		
3025211	February 22, 2006		
060331	April 14, 2006		
3027848	October 13, 2006		
3028500	November 10, 2006		
061127	December 7, 2006		
3033904	July 3, 2008		
3034292	September 24, 2008		
3035063	December 19, 2008		
3035385	January 30, 2009		
090514	May 29, 2009		
3037145	August 7, 2009		
3037782	October 19, 2009		

FM Approvals LLC

J. E. Marquedant  
Group Manager, Electrical

26 July 2011

Date