

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20170612-E44653  
**Report Reference** E44653-19910430  
**Issue Date** 2017-JUNE-12

**Issued to:** SIEMENS AG  
DF CP R&D VC 2  
WERNER-VON-SIEMENS-STRASSE 48  
92224 AMBERG, GERMANY


**This is to certify that representative samples of** Auxiliary Devices  
(See following page for additional information.)

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 22.2 No. 14-05, Industrial Control Equipment

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs  
UL LLC

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

## Product Covered:

USL, CNL Type No. 3TH80, or 3TH40 followed by 04, 13, 22, 31, 40, 92, 95 or 96, followed by 0E, 0F, 3E, 3F, 1M, 2M, 3M, 4M, 5M or 6M.

USL, CNL Type No. 3TH82 or 3TH42 followed by 44, 53, 62, 71, 74, 75, 80, 83, 84 or 93, followed by 0E, 0F, 3E, 3F, 1M, 2M, 3M, 4M, 5M or 6M.

USL, CNL Type No. 3TH83 or 3TH43 followed by 10, 45, 46, 47, 48, 55, 64, 73, 82, 91 or 94, followed by 0E, 0F, 3E, 3F, 1M, 2M, 3M, 4M, 5M or 6M.

## General:

These devices are 4, 8 or 10 pole open type control relays for use in industrial applications. These devices are similar to the Listed types covered in Vol. 3, Sec. 2.

## Ratings:

1M, 2M, 3M, 4M, 5M or 6M relays with 2.8 mm double quick-connect terminals: Standard pilot duty, 600 V ac max. (NEMA B600) and 600 V dc max (NEMA Q600) above 300 V wiring same polarity. 5 A, 600 V ac, general purpose.

Coil Ratings - 24 through 600 V ac or 12 through 250 V dc.

## Nomenclature Breakdown:

3TH	XX	31	OE
I	II	III	IV

I - Basic type designation for control relays.

II - Number of poles

40 or 80 - 4 poles

42 or 82 - 8 poles

43 or 83 - 10 poles



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## Nomenclature Breakdown (Cont.):

### III - Contact development

#### 3TH80, 3TH40

04 - 4 normally closed  
13 - 1 normally open, 3 normally closed  
22 - 2 normally open, 2 normally closed  
31 - 3 normally open, 1 normally closed  
40 - 4 normally open  
92 - 2 normally open, 2 normally closed make before break.  
95 - 2 normally open + 1 normally closed make before break.  
96 - 1 normally open, 1 normally closed +  
1 normally open, 1 normally closed make before break.

#### 3TH82, 3TH42

44 - 4 normally open, 4 normally closed  
53 - 5 normally open, 3 normally closed  
62 - 6 normally open, 2 normally closed  
71 - 7 normally open, 1 normally closed  
80 - 8 normally open  
93 - 3 normally open, 3 normally closed +  
1 normally open, 1 normally closed, make before break.  
74 - 5 normally open, 1 normally closed +  
1 normally open, 1 normally closed, make before break.  
75 - 4 normally open, 2 normally closed +  
1 normally open, 1 normally closed, make before break.  
84 - 3 normally open, 1 normally closed +  
2 normally open, 2 normally closed, make before break.  
83 - 2 normally open, 2 normally closed +  
2 normally open, 2 normally closed, make before break.

#### 3TH83, 3TH43

55 - 5 normally open, 5 normally closed  
64 - 6 normally open, 4 normally closed  
73 - 7 normally open, 3 normally closed  
82 - 8 normally open, 2 normally closed  
91 - 9 normally open, 1 normally closed  
10 - 10 normally open  
94 - 4 normally open, 4 normally closed +  
1 normally open, 1 normally closed make before break.



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## Nomenclature Breakdown (Cont.):

- 45 - 7 normally open, 1 normally closed +  
1 normally open, 1 normally closed  
make before break.
- 46 - 6 normally open, 2 normally closed +  
1 normally open, 1 normally closed  
make before break.
- 47 - 3 normally open, 3 normally closed +  
2 normally open, 2 normally closed  
make before break.
- 48 - 6 normally open + 2 normally open,  
2 normally closed make before break.

IV -

0E - Indicates UL control relays with 6.3 mm quick-connect terminals and ac coil.

0F - Indicates UL control relays with 6.3 mm quick-connect terminals and dc coil.

1M or 2M - Indicates UL control relays with 2.8 mm quick-connect terminals and with a varistor connected to the 24 V dc coil assembly.

3M - Indicates UL control relays with 2.8 mm quick-connect terminals and universal overvoltage limiter integrated to the ac coil assembly.

3E, 4M - Indicates ac-coil with 2.8 mm quick-connect terminals.

3F, 5M - Indicates dc-coil with 2.8 mm quick-connect terminals.

6M - Indicates ac control voltage with integrated bridge rectifier and dc-coil. 2.8 mm quick-connect terminals.



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