



# Certificate of Compliance

**Certificate:** 1588199 (LR 12730-233)

**Master Contract:** 165071

**Project:** 1588199

**Date Issued:** 2004/11/03

**Issued to:** Siemens AG  
A&D CD CC TS2  
Werner-von-Siemens-Strasse 48  
Amberg, 92220  
Germany  
Attention: Mr. Rolf Müller

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



**Issued by:** Michel Legault, Eng.

**Authorized by:** Alain Ste-Marie, Operations Manager

## **PRODUCTS**

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

Open Type, Magnetic Motor Controller, Types 3TF54, 3TF55, and 3TK54, followed by 11, 22, 33 or 44, followed by -0A, -0D, -0E, -0X, -1X, -1D, -1E, -4M or -5M, followed by a letter and a number.

3TF54

Horsepower

Voltage (ac)    3 ph - 3 Poles Breaking    Full Load Current (A)

200

87

250



CSA INTERNATIONAL

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230 - 240	100	250
460 - 480	208	250
575 - 600	258	250

3TF55

Horsepower

Voltage (ac)	3 ph - 3 Poles Breaking	Full Load Current (A)
200	100	285
230 - 240	125	312
460 - 480	250	302
575 - 600	300	289

**Main contacts:**

For 3TF54: General Purpose: 600 V ac, 300 A

For 3TF55: General Purpose: 600 V ac, 315 A

For 3TK54: General Purpose: 600 V ac, 330 A

Coil Ratings: 24 through 600V ac

24 through 250V dc

**Notes:**

1. Certified for use in equipment where the acceptability of the combination is to be determined by CSA International.
2. The 3TF54 contactor was tested for 50 operations overload at 2711A, 611V ac, inductive load and 100,000 operations endurance at 300A, 635V ac, inductive load.

**APPLICABLE REQUIREMENTS**

CSA-C22.2 No. 14-95 - Industrial Control Equipment

**MASTER CONTRACT:** 165071

**REPORT:** 1588199

**PROJECT:** 1588199

**Edition 1:** April 9, 1986  
Application No. LR 12730-233, KEMA Job No. 85.9400  
Issued by P.C.J.M Broekhof  
Reviewed by J. D. Walsh. P.Eng.

**Edition 2:** December 15, 1992  
Application No. LR 12730-310, KEMA Job No. 92.8977  
Issued by R.M.M.A. Geuijen  
Reviewed by J. Pankowski

**Edition 3:** April 20, 1993  
Application No. LR 12730-316, KEMA Job No. 93.7758  
Issued by R.M.M.A. Geuijen  
Reviewed by J. Pankowski

**Edition 4:** April 7, 1994  
Application No. LR 12730-332, KEMA Job No. 94.7533  
Issued by R.M.M.A. Geuijen  
Reviewed by J. Pankowski

**Edition 5:** November 1, 2004; Project 1588199 - Montreal  
Issued by M. Legault, Eng.

Pages Replaced: **REPORT RE-ISSUED**

Test Sheets Added: Test Sheets T1 to T24

Illustrations Added: Ill. No. 1

Photograph Figures Replaced: Fig. Nos. 1 to 6

Contents: Certificate of Compliance - Pages 1 and 2  
Supplement to Certificate of Compliance - Page 1  
Description and Tests - Pages 1 to 10  
Test Sheets Nos.: T1 to T24  
Illustrations: Ill. No. 1  
Photograph Figures - Fig. Nos. 1 to 6

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**PRODUCTS**

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

Open Type, Magnetic Motor Controller, Types 3TF54, 3TF55, and 3TK54, followed by 11, 22, 33 or 44, followed by -0A, -0D, -0E, -0X, -1X, -1D, -1E, -4M or -5M, followed by a letter and a number.

3TF54

<u>Voltage (ac)</u>	<u>Horsepower</u> <u>3 ph - 3 Poles Breaking</u>	<u>Full Load Current (A)</u>
200	87	250
230 - 240	100	250
460 - 480	208	250
575 - 600	258	250

3TF55

<u>Voltage (ac)</u>	<u>Horsepower</u> <u>3 ph - 3 Poles Breaking</u>	<u>Full Load Current (A)</u>
200	100	285
230 - 240	125	312
460 - 480	250	302
575 - 600	300	289

Main contacts:

For 3TF54: General Purpose: 600 V ac, 300 A  
 For 3TF55: General Purpose: 600 V ac, 315 A  
 For 3TK54: General Purpose: 600 V ac, 330 A

Auxiliary contacts: A600, P600.

Coil Ratings: 24 through 600V ac  
24 through 250V dc

Notes:

1. Certified for use in equipment where the acceptability of the combination is to be determined by CSA International.
2. The 3TF54 contactor was tested for 50 operations overload at 2711A, 611V ac, inductive load and 100,000 operations endurance at 300A, 635V ac, inductive load.

## **MARKINGS**

Submittor's name or tradename "Siemens" and/or File number LR 12730 and/or Master Contract number 165071, type designation, electrical ratings, the note "Wires 75°C only" and CSA Monogram are shown on an adhesive paper label and/or printed on the device.

In addition, the following marking is provided on the devices:  
"USE TIGHTENING TORQUE 340 lb-in".

The manufacturer and type of terminal kits to be used are also marked on the device.

The following statement is also marked on Type 3TF54:

"SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 18,000 RMS SYMMETRICAL AMPERES, 600 V MAXIMUM WHEN PROTECTED BY 700A FUSE OR INVERSE-TIME CIRCUIT BREAKER".

The following statement is also marked on Type 3TF55:

"SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 18,000 RMS SYMMETRICAL AMPERES, 600 V MAXIMUM WHEN PROTECTED BY 800A FUSE OR INVERSE-TIME CIRCUIT BREAKER".

## **MODIFICATIONS**

1. Markings are as per above "MARKINGS" Section.
2. Coils of Type 3TF55 are completely covered with insulating tape for voltages over 300V.

## **FACTORY TESTS**

The equipment, at the conclusion of manufacture and before shipment, shall withstand for one minute, without breakdown, the application of twice rated voltage plus 1000 V between live parts and metal parts, which may be grounded, on a basis of at least 3 % of the daily production intended to bear the CSA Monogram.

As an alternative, potentials 20 per cent higher may be applied for one second. The factory test may be made at existing room temperatures.

As an alternative, method based on IEC 410 and in accordance with submittor's ISO 9001 Quality program.

**Warning:** These tests may present a hazard of injury to personnel and/or property and should only be performed by persons knowledgeable of such hazards and under conditions designed to minimize the possibility of injury.

**DESCRIPTION**

**Notes:**

1. **3TF54 contactors are also transferred from report LR 12730-241.**
2. **3TF55 contactors are also transferred from report LR 12730-256.**

General: This device is an open type, 3-pole contactor intended to connect motors directly across the line.

Construction Details

General: Reference may be made to the accompanying photographs and itemized descriptive pages for the essential details of construction.

Protection Against Corrosion: All parts of the device are constructed of corrosion resisting material or are suitably plated or painted as a protection against corrosion.

Spacings: The spacings between bare live parts of opposite polarity and between bare live parts and grounded metal parts are not less than 3/8 in (9.5 mm) measured through air or 1/2 in (12.7 mm) measured over the surface of insulating material.

The spacings between bare live parts and metal parts of an enclosure or the mounting surface shall not be less than 1/2 in (12.7 mm), through air or over surface.

Tolerances: Unless specified otherwise, the indicated dimensions are nominal.

Nomenclature Breakdown

	<u>3TF54</u>	<u>22</u>	<u>-0A</u>	<u>..</u>
	I	II	III	IV
I	Basic Type 3TF54 - 3TK54 - 3TF55 -			
II	Auxiliary Switch			
	11 -	1 N.O. + 1 N.C.		Note: #
	22 -	2 N.O. + 2 N.C.		
	33 -	3 N.O. + 3 N.C.		
	44 -	4 N.O. + 4 N.C.		
III	Operating system			
	-0A -	ac operated		
	-0D -	dc operated		
	-0E -	ac or dc operated for use with coil driver unit 3TX7462		
	-0X -	Same as -0A, indicates manufacturing location		
	-1X -	Same as -1D, indicates manufacturing location		
	-1D -	Same as -0D, control contactor 3TF40..-0B is part of the delivery		
	-1E -	Same as -0E, coil driver unit is part of the delivery		

- 4M - ac operated, auxiliary switches and coil terminals provided with 2.8 mm double quick-connect terminals
- 5M - dc operated, auxiliary switches and coil terminals provided with 2.8 mm double quick-connect terminals.

IV Indicates rated coil voltage  
..24V through 600V ac or 24V through 250V dc.

# Note: The Auxiliary Switch mounted on the right side is the same as on the left side except without any markings and terminals - Dummy without function.