CSA INTERNATIONAL

Certificate of Compliance

Certificate: 2049843 (LR 12730-263) **Master Contract:** 165071

Project: 2460955 **Date Issued:** September 26, 2011

Issued to: **Siemens AG**

I IA CE CP PRM SR
Werner-von-Siemens-Strasse 48
Amberg, 92220
Germany
Attention: Mr. Michael Schröck

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

J.-C. Chow

Issued by: J.-C. Chow

PRODUCTS

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

- AC Contactors, open type, with the following ratings:

	Type 3TW128		Types 3TB40, 3TF40		Types 3TB41, 3TF41	
Voltage	1-ph	3-ph	1-ph	3-ph	1-ph	3-ph
115 V	1/2 hp	--	1 hp	--	1 hp	--
200 V	2 hp	3 hp	2 hp	3 hp	2 hp	3 hp
230 V	2 hp	3 hp	2 hp	3 hp	2 hp	3 hp
460 V	--	5 hp	--	5 hp	--	7-1/2 hp
575 V	--	7-1/2 hp	--	7-1/2 hp	--	10 hp

For use in 2-phase of a 3-phase circuit:

	Types 3TB4002, 3TF4082	Types 3TF4102, 3TF4082	Types 3TB4104, 3TF4184
Voltage	2-ph	2-ph	2-ph
115 V	1 hp	2 hp	2 hp
230 V	2-1/2 hp	3 hp	5 hp

460 V	5 hp	5 hp	--
575 V	5 hp	5 hp	--

General Use Ratings (Main Contacts):

20 A, 600 Vac	For Types 3TW128, 3TB40, 3TF40, 3TB41, 3TF41

Max Operating Coil Voltage:	Suffixes:
600 Vac	0A, 1A, 2A or 4M
250 Vac	0B, 2B or 5M
250 Vac/dc	3B or 6M
250 Vdc	3M or 0L
30 Vdc	4B, 6B, 1M or 2M

Auxiliary Contacts:	For Types:
B600, Q600	3TB40, 3TB41, 3TF40 and 3TF41, with suffix 1M through 6M
B600	3TW1285
A600, P600	All other Types
5 A, 600 Vac	General purpose

- Reversing Contactors, Types 3TD40 and 3TD41: identical rating to 3TF40 and 3TF41 respectively.

Notes:

1. The type designations are completed with letters and numbers indicating whether open or enclosed, with or without thermal overload relay, number and design of auxiliary contacts, operating coil voltage, etc. The letters "CAN" may be added to the type designation.

2. Certified for use in other equipment where the acceptability of the combination is to be determined by CSA International.

3. Supplied with or without thermal overload relays.

4. The auxiliary contact terminals and coil terminals of contactors with suffix "M" consist of double quick-connect male termninals.

5. For voltages above 300 V used same polarity.

CSA INTERNATIONAL

Certificate:	2049843 (LR 12730-263)	**Master Contract:**	165071
Project:	2460955	**Date Issued:**	September 26, 2011

APPLICABLE REQUIREMENTS

CSA-C22.2 No. 14-10 - Industrial Control Equipment

CSA INTERNATIONAL

Descriptive Report and Test Results

MASTER CONTRACT: 165071
REPORT: 2049843
PROJECT: 2460955

Edition 1: September 28, 1990; Application No. LR 12730-263 (KEMA Job. 9.5835)
Issued by R.M.M.A. Geuijen; Reviewed by P.C.J.M. Broekhof

Edition 2: October 25, 1991; Application No. LR 12730-292 (KEMA Job No. 91.6259)
Issued by R.M.M.A. Geuijen; Reviewed by N. Manoli

Edition 3: September 15, 1992; Application No. LR 12730-304 (KEMA Job No. 92.7784)
Issued by R.M.M.A. Geuijen; Reviewed by J. Elgee

Edition 4: October 13, 1992; Application No. LR 12730-306 (KEMA Job No. 92.7782)
Issued by R.M.M.A. Geuijen; Reviewed by J. Pankowski

Edition 5: 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 9: January 18, 1995; Application No. LR 12730-342 (KEMA Job No. 94.6952)
Issued by R.M.M.A. Geuijen; Reviewed by J. Pankowski

Edition 10: May 17, 1995; Application No. LR 12730-344 (KEMA Job No. 95.9061)
Issued by R.M.M.A. Geuijen; Reviewed by J. Pankowski

Edition 11: April 22, 1998; Application No. LR 12730-394 (KEMA Job No. 98.0922)
Issued by R.M.M.A. Geuijen; Reviewed by J. Pankowski

Edition 12: July 17, 2008; Project 2049843 - Montreal
Issued by J.-C. Chow, Eng.

Edition 13: September 26, 2011; Project 2460955 - Montréal
Issued by J.-C. Chow, Eng.

Report pages reissued

Contents:

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PRODUCTS

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

AC Contactors, open type, with the following ratings:

	Type 3TW128		Types 3TB40, 3TF40		Types 3TB41, 3TF41	
Voltage	1-ph	3-ph	1-ph	3-ph	1-ph	3-ph
115 V	1/2 hp	--	1 hp	--	1 hp	--
200 V	2 hp	3 hp	2 hp	3 hp	2 hp	3 hp
230 V	2 hp	3 hp	2 hp	3 hp	2 hp	3 hp
460 V	--	5 hp	--	5 hp	--	7-1/2 hp
575 V	--	7-1/2 hp	--	7-1/2 hp	--	10 hp

For use in 2-phase of a 3-phase circuit:

	Types 3TB4002, 3TF4082	Types 3TF4102, 3TF4082	Types 3TB4104, 3TF4184
Voltage	2-ph	2-ph	2-ph
115 V	1 hp	2 hp	3 hp
230 V	2-1/2 hp	3 hp	5 hp
460 V	5 hp	5 hp	--
575 V	5 hp	5 hp	--

General Use Ratings (Main Contacts):
20 A, 600 Vac For Types 3TW128, 3TB40, 3TF40, 3TB41, 3TF41

Max Operating Coil Voltage:	Suffixes:
600 Vac	0A, 1A, 2A or 4M
250 Vac	0B, 2B or 5M
250 Vac/dc	3B or 6M
250 Vdc	3M or 0L
30 Vdc	4B, 6B, 1M or 2M

Auxiliary Contacts:	For Types:
B600, Q600	3TB40, 3TB41, 3TF40 and 3TF41, with suffix 1M through 6M
B600	3TW1285
A600, P600	All other Types
5 A, 600 Vac	General purpose

Reversing Contactors, Types 3TD40 and 3TD41: identical to 3TF40 and 3TF41 respectively.

Notes:

1. The type designations are completed with letters and numbers indicating whether open or enclosed, with or without thermal overload relay, number and design of auxiliary contacts, operating coil voltage, etc. The letters “CAN” may be added to the type designation.
2. Certified for use in other equipment where the acceptability of the combination is to be determined by CSA International.
3. Supplied with or without thermal overload relays.
4. The auxiliary contact terminals and coil terminals of contactors with suffix “M” consist of double quick-connect male terminals.
5. For voltages above 300 V used same polarity.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	-	General Requirements - Canadian Electrical Code, Part II
CSA-C22.2 No. 14-10	-	Industrial Control Equipment

MARKINGS

Submittor's name or tradename "SIEMENS" and/or CSA File number "LR 12730" and/or CSA Master Contract "165071", type designation, electrical ratings and CSA Monogram appear on an adhesive paper label in a permanent legible manner.

The following statement is marked on the device:

"WIRING 75°C COPPER ONLY" for Types 3TB/TF41 and 3TD40/41

The single contactors of the reversing contactors have their certified markings. An additional adhesive paper label is provided on the mounting plate of these reversing contactors or printing on the cover plate is provided.

ALTERATIONS

The markings are in accordance with the "MARKINGS" paragraph above.

FACTORY TESTS

The equipment, at the conclusion of manufacture and before shipment, shall withstand for one minute, without breakdown, the application of twice the max rated voltage plus 1000V between live parts and exposed non-current-carrying metal parts. The factory test may be made at existing room temperature.

As an alternative, a potential 20 per cent higher may be applied for one second.

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.

SPECIAL INSTRUCTIONS FOR FIELD SERVICES

1. Component Substitution
   a) Critical components (those identified by mfr name, cat no) are not eligible for substitution without evaluation and report updating.
   b) Component descriptions marked with the identifier "(INT)" are the only components that are eligible for substitution at the factory.
   c) Substitution of a CSA Certified component with a component "Certified" or "Listed" by another organization may result in annual sample pickup and Conformity Testing.
   d) Substitution of a "Certified" or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.

COMPONENT SPECIAL PICKUP

None.

DESCRIPTION

Notes:

1. The term "(INT)", following the component name, denotes a certified component that can be replaced by another CSA Certified component or one certified by another certification organization (accredited by OSHA/SCC), for the same application, provided that it has an equivalent rating, configuration (size, orientation, mounting) and that applicable minimum creepage and clearance distances are maintained from live parts to bonded metal parts and secondary parts..
2. The term "(CT)", following the component name, denotes a component that is subject to periodic re-testing unless evidence of re-testing equivalent to the CSA program is available.

General: These devices are open type across-the-line motor controllers for use in industrial applications. Type 3TB/TF40 and -41 are identical except that -41 is equipped with heavier main contacts. Type 3TW12 is similar to Type 3TB40 and is for use in starters. Type 3TW42 is similar to Type 3TF40 and is for use in starters.

Nomenclature Breakdown

3TB	40	10	-	0A
I	II	III		IV

I Basic Model No

3TB or 3TF	Contactor
3TW	Starter

II Size

12	Size 00 Special Type for Starter
42	Size 00 Special Type for Starter
40	Size 00
41	Size 0

III Auxiliary contact arrangement for devices with 3 main contacts normally open

3TB40/41:

10	1 normally open, 4 pole single deck
11	1 normally closed, 4 pole single deck
12	1 normally open and one normally closed, 5 pole double deck
17	2 normally open en two normally closed, 7 pole double deck
18	3 normally open and one normally closed, 7 pole double deck
16	3 normally open en two normally closed, 8 pole double deck

3TF40/41:

10	1 normally open, 4 pole single deck
01	1 normally closed, 4 pole single deck
11	1 normally open and 1 normally closed
22	2 normally open and 2 normally closed
31	3 normally open and 1 normally closed
32	3 normally open and 2 normally closed

Auxiliary contact arrangement for devices with 4 main contacts normally open

3TB40/41:

14	1 normally open and one normally closed

3TF40/41:

80 1 normally open and one normally closed

Contact arrangement for devices “For use in 2 phases of a 3-phase circuit” (without auxiliary contacts)

3TB40/41:

02 2 main contact open and 2 main contact closed
04 2 main contact (2 single contact parallel) open and 2 main contact (2 single contact parallel) closed

3TF40/41:

82 2 main contact open and 2 main contact closed
84 2 main contact (2 single contact parallel) open and 2 main contact (2 single contact parallel) closed

Auxiliary contact arrangement for Type 3TW12/3TW42:

80 1 normally open
82 1 normally open and 1 normally closed
85 1 normally open, special arrangement for 3TW1285 only
87 2 normally open and 2 normally closed

IV Operating System

0A ac coil assembly
0B dc coil assembly
4B varistor connected to the 24 Vdc coil assembly, rated power = 4.9 W
6B varistor connected to the 24 Vdc coil assembly, rated power = 5.5 W
1A indicates Listing with ac coil assembly for starters
4M ac coil assembly and 2.8 mm quick-disconnect control terminals
5M dc coil assembly and 2.8 mm quick-disconnect control terminals
6M indicates a control voltage with integrated bridge rectifier and dc coil, 2.8 mm quick-disconnect control terminal
8M varistor connected to the dc coil and 2.8 mm quick-disconnect control terminals
3B dc coil assembly with integrated bridge connected rectifier
1M varistor connected to the 24 Vdc coil assembly rated power = 5.5 W and 2.8 mm quick-disconnect control terminals
2M varistor connected to the 24 V dc coil assembly rated power = 4.9 W and 2.8 mm quick-disconnect control terminals
3M universal overvoltage limiter integrated to the ac coil assembly 275 Vac max and 2.8 mm quick-disconnect terminals
5K dc coil integrated varistor Type S10V or S07K manufactured by Siemens
0L dc coil with integrated varistor Type S14K or S07K manufactured by Siemens

3TD4	0	02	-	0A
I	II	III		IV

I Basic Type

3TD4 Reversing contactor

II Size

Size 0 Consists of two 3TF40
Size 1 Consists of two 3TF41

III Auxiliary contact

02	2 NO and 2 NC	
01		1 NO and 1 NC
00		1 NC

IV Operating System

0A	AC coil assembly, without interconnections
2A	same as OA, with interconnections
0B	DC coil assembly, without interconnections
2B	same as OB, with interconnections
OL	same as OB, with interconnections, manufacturer's identification