CERTIFICATE OF COMPLIANCE

Certificate Number	E364397
Report Reference	E364397-20181130
Issue Date	2022-January-26
Issued to:	SIEMENS AG Low Voltage Siemensstrasse 10 93055 Regensburg GERMANY
This certificate confirms that representative samples of	3VA53/54 CIRCUIT BREAKERS, MOLDED CASE See Addendum Page for Models
	Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.
Standard(s) for Safety:	UL 489, Molded-Case Circuit Breakers and Circuit Breaker Enclosures, CSA C22.2 No.5, Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures
Additional Information:	See the UL Online Certifications Directory at **Fehler! Linkreferenz ungültig.** for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

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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.

3VA53 / 3VA54 Circuit Breaker Series 2-pole (in 3-pole housing), 3-pole and 4-pole devices.
2-pole types MJAS, HJAS, CJAS, MJAM, HJAM, CJAM – Catalog Numbers (MLFB) 3VA53, followed by 20, 22, 25, 30, 35, or 40, followed by -5, -6, or -7, followed by EC6, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0, 1 or 2, followed by AA through ZZ, followed by 0

3-pole types MJAS, HJAS, CJAS, MJAM, HJAM, CJAM – Catalog Numbers (MLFB) 3VA53, followed by 20, 22, 25, 30, 35, or 40, followed by -5, -6, or -7, followed by EC3 or EF3, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0, 1 or 2, followed by AA through ZZ, followed by 0

4-pole types MJAS, HJAS, CJAS, MJAM, HJAM, CJAM – Catalog Numbers (MLFB) 3VA53, followed by 20, 22, 25, 30, 35, or 40, followed by -5, -6, or -7, followed by EC4, EF4, GC4 or GF4, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0, 1 or 2, followed by AA through ZZ, followed by 0

2-pole types MLAS, HLAS, CLAS, MLAM, HLAM, CLAM – Catalog Numbers (MLFB) 3VA54, followed by 45, 50, or 60, followed by -5, -6, or -7, followed by EC6, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0 or 1, followed by AA through ZZ, followed by 0

3-pole types MLAS, HLAS, CLAS, MLAM, HLAM, CLAM – Catalog Numbers (MLFB) 3VA54, followed by 45, 50, or 60, followed by -5, -6, or -7, followed by EC3 or EF3, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0 or 1, followed by AA through ZZ, followed by 0

4-pole types MLAS, HLAS, CLAS, MLAM, HLAM, CLAM – Catalog Numbers (MLFB) 3VA54, followed by 45, 50 or 60, followed by -5, -6, or -7, followed by EC4, EF4, GC4 or GF4, followed by 0, 1, 2, 3, 4, 5 or 6, followed by -0 or 1, followed by AA through ZZ, followed by 0

Note:
The digits 14 and 15 may be any combination of letters between AA thru ZZ. These letters define the shipping content, consisting of the Circuit Breaker and optional accessories. The accessories are either directly mounted or included in the package.



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Nomenclature Breakdown

3VA5	4	60	7	EC	3	1	0	AA	0
I	II	III	IV	V	VI	VII	VIII	IX	X

I – Series Designation
Always 3VA5

II - Frame size
3 – 600A Frame, 400A construction
4 - 600A Frame, 600A construction

III - Rated Current
20 - 200A (3VA53…)
22 - 225A (3VA53…)
25 - 250A (3VA53…)
30 - 300A (3VA53…)
35 - 350A (3VA53…)
40 - 400A (3VA53…)

45 - 450A (3VA54…)
50 - 500A (3VA54…)
60 - 600A (3VA54…)

IV - Short circuit interrupting Level
5 - M class
6 – H class
7 - C class

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V - Trip Unit
- EC - Type FTAM (fixed thermal release, adjustable magnetic release, if 4-pole -> N-Pole without protection)
- EF - Type ATAM (adjustable thermal release, adjustable magnetic release, if 4-pole -> N-Pole without protection)
- GC - Type FTAM (fixed thermal release, adjustable magnetic release, N-Pole with 100% protection)
- GF - Type ATAM (adjustable thermal release, adjustable magnetic release, N-Pole with 100% protection)

VI - Number of poles
- 3 – 3-pole
- 4 – 4-pole
- 6 - 2-pole (in 3-pole housing)

VII - Factory installed Connectors or customized shipping content
- 0 - Customized shipping content
- 1 – No connectors provide for line and load side
- 2 – Nut keeper kit for line and load side
- 3 – No connectors for line side and nut keeper kit for load side
- 4 - No connectors for line side and Aluminum wire connector for load side
- 5 - Aluminum wire connector for line side and no connector for load side
- 6 - Aluminum wire connector for line and load side

VIII - Version
- 0 - Standard Version
- 1 - Naval Version
- 2 - 100% rated breaker

IX - Factory Installed Accessories or accessories delivered with the Breaker.

Any character AA through ZZ

X - Always 0

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RATINGS:

The current ratings for 3VA53 are 200A, 225A, 250A, 300A, 350A, 400A.
The current ratings for 3VA54 are 450A, 500A, 600A.

The maximum ac voltage rating for all breakers is 600Vac, 480Vac, 240Vac

The maximum dc voltage ratings are :
1000Vdc (4 poles in series),
750Vdc (4 poles in series),
750Vdc (3 poles in series),
600Vdc (3 poles in series),
500Vdc or 600Vdc for use in Battery Power Supply (BPS Level 2 or 3, 3 poles in series),
500Vdc (2 outside poles in series).
250Vdc (1 pole)

3VA53..-.....-2..0 are rated for 100 % continuous current and shall be marked as such.

Short circuit interrupting ratings:

Max. Voltage	Marked Rating (RMS Amps)		
	Class M	Class H	Class C
240 Vac	85 kA	100 kA	200 kA
480 Vac	35 kA	65 kA	100 kA
600 Vac	18 kA	25 kA	35 kA
250Vdc (1 pole) 500Vdc (2 poles in series) 500Vdc BPS (3 poles in series) 600Vdc (3 poles in series) 750Vdc (4 poles in series)	50 kA	85 kA	100 kA
600Vdc BPS (3 poles in series) 750Vdc (3 poles in series) 1000Vdc (4 poles in series)	6 kA	6 kA	10 kA

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Wire Connectors:

These circuit breakers are for use with the following UL Listed or Recognized wire connectors. These wire connectors are also marked with Siemens numbers which are used as the reference marking on the circuit breaker.

Type	Siemens Part No.	Wire Range [AWG] kcmil]	Torque [in-lbs]	100% rated up to
TA1.5 (1 wire, suitable for up to 400A)	3VA937.-0JB13 3VA937.-0JG13	1 – 500	375	N/A
TA2.4 (2 wires)	3VA947.-0JJ23 3VA947.-0JC23 3VA947.-0JC28	2/0 – 600	450	300A
TA2.7 (6 wires, suitable for up to 400A)	3VA937.-0JF60	14 – 8 #) 6 - 2	55 62	N/A
TA2.8 (2 wires)	3VA937.-0JJ24 3VA937.-0JC24	1x 250-750 2x 250	CU:410 AL:375	350 A 400 A ##)
TC1.5 # (1 wire, suitable for up to 400A)	3VA937.-0JD13 3VA937.-0JK13	2 - 600	500	400 A ##)
TC2.4 # (2 wires)	3VA947.-0JE23 3VA947.-0JL23	2/0 – 600	450	300A 350A##
TS1.5 # (1 wire, suitable for up to 400A)	3VA947.-0JA13 3VA947.-0JH13 ###)	1/0 – 4/0 250 – 500	142 248	N/A
CL1.3#### (1 wire)	3VA937.-0QK02	6 – 350 (when crimped acc. operating instruction)	N/A	N/A

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CL1.4 ##### (1 wire)	3VA937.-0QK03	250 – 600 (when crimped acc. operating instruction)	N/A	N/A
CL1.5 #### (2 wire)	3VA947.-0QK02	6 – 350 (when crimped acc. operating instruction)	N/A	N/A
CL1.6 ##### (2 wire)	3VA947.-0QK03	250 – 600 (when crimped acc. operating instruction)	N/A	N/A

#) Not for aluminum wire
##) must be used with 90 °C rated wire (sized to the ampacity of 75 °C wire)
###) 3VA947.-0JH13 shall be used with phase barriers
####) Compression lug marked with type CCF250
#####) Compression lug marked with type CLL600

Notes:

- The wire connectors mentioned above can be used with either 3VA53… or 3VA54… in standard applications (non-100% rated)
- The right column shows the maximum allowed current for 100% rated devices (MLFB ending with “2..0”)
- Terminals with MLFB containing “JG”, “JC”, “JK”, “JL”, “JH” or “WC” allow the connection of a control wire. The maximum allowed current on this control wire is 15 Ampere for standard and 100% application.

Enclosure:

These breakers were tested in a steel enclosure measuring 1000mm by 360mm by 370mm.

Accessories:

These circuit breakers may be used with this manufacturer’s Listed circuit breaker accessories described in file E354102

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Adjustable overcurrent releases:

Devices with an adjustable overcurrent release (Ir) (MLFB containing “EF” or “GF”) can be adjusted between 80% and 100% of the rated current and are marked accordingly.

Adjustable instantaneous release:

Devices with an adjustable instantaneous release (Ii) (MLFB containing “EC”, “EF”, “GC” or “GF”) can be adjusted as shown in the table below. The trip currents are marked.

Rated current [A]	Magnetic Trip Range [A](RMS)
200	1000 – 2000
225	1125 – 2250
250	1250 – 2500
300	1500 – 3000
350	1750 – 3500
400	2000 – 4000
450	2250 – 4500
500	2500 – 5000
600	2400 – 4800

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