CERTIFICATE OF COMPLIANCE

Certificate Number	20200703-E364397
Report Reference	E364397-20160905
Issue Date	2020-July-03
Issued to:	SIEMENS AG LOW VOLTAGE SIEMENSSTRASSE 10 93055 REGENSBURG GERMANY
This is to certify that representative samples of	CIRCUIT BREAKERS, MOLDED CASE AND CIRCUIT-BREAKER ENCLOSURES See Addendum Page
	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, MOLDED-CASE SWITCHES, 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 www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.

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Certificate Number 20200703-E364397
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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.

USL / CNL - 3VA Circuit Breaker and Current Limiting Circuit Breaker Three- and Fourpole devices.

3 pole Types CDAE, HDAE, LDAE, MDAE – Catalog Numbers (MLFB) 3VA61, followed by 10, 15 or 40, followed by -5, -6, -7 or -8, followed by H, J or K, followed by L, M, N, P, Q or T, followed by 3, followed by 1, 2, 3, 4, 5 or 6, followed by -0 or -2, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

3 pole current limiting Types EDAE – Catalog Numbers (MLFB) 3VA61, followed by 10, 15 or 60, followed by -0, followed by H or K, followed by L, M, N, Q or T, followed by 3, followed by 1, 2, 3, 4, 5 or 6, followed by 0, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

4 pole Types CDAE, HDAE, LDAE, MDAE – Catalog Numbers (MLFB) 3VA61, followed by 10, 15 or 40, followed by -5, -6, -7 or -8, followed by H, J or K, followed by L, M, N, P, Q or T, followed by 4, followed by 0, 1, 2, 3, 4, 5, or 6, followed by -0 or -2, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

4 pole current limiting Types EDAE – Catalog Numbers (MLFB) 3VA61, followed by 10, 15 or 60, followed by -0, followed by H or K, followed by L, M, N, Q or T, followed by 4, followed by 1, 2, 3, 4, 5 or 6, followed by -0, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

3 pole Types CFAE, HFAE, LFAE, MFAE – Catalog Numbers (MLFB) 3VA62, followed by 10 or 25, followed by -5, -6, -7 or -8, followed by H, J or K, followed by L, M, N, P, Q or T, followed by 3, followed by 1, 2, 3, 4, 5 or 6, followed by -0 or -2, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

3 pole current limiting Types EFAE – Catalog Numbers (MLFB) 3VA62, followed by 10 or 25, followed by -0, followed by H or K, followed by L, M, N, Q or T, followed by 3, followed by 1, 2, 3, 4, 5 or 6, followed by -0, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

4 pole Types CFAE, HFAE, LFAE, MFAE – Catalog Numbers (MLFB) 3VA62, followed by 10 or 25, followed by -5, -6, -7 or -8, followed by H, J or K, followed by L, M, N, P, Q or T, followed by 41-, followed by 0 or 2, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

4 pole Types EFAE – Catalog Numbers (MLFB) 3VA62, followed by 10 or 25, followed by -0, followed by H or K, followed by L, M, N, Q or T, followed by 4, followed by 1, 2, 3, 4, 5, or 6, followed by -0, followed by A, B, C, D, H, J, K or L, followed by A, B, C, D, E, F, G, H, J, K, L or M, followed by 0

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CERTIFICATE OF COMPLIANCE

Certificate Number 20200703-E364397
Report Reference E364397-20160905
Issue Date 2020-July-03

Nomenclature Breakdown

3VA6	1	10	5	H	L	3	1	0	A	A	0
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII

I – Series Designation
Always 3VA6

II - Frame Size
1 – rated 40A, 60A, 100A or 150A
2 - rated 100A or 250A

III - Rated Current
10 - 100A
15 - 150A
25 - 250A
40 - 40A
60- 60A (E Class only)

IV - Short Circuit Level
0 - E Class – **Current Limiting Circuit Breaker**
5 - M Class
6 – H Class
7 - C Class
8 - L Class

V - Trip Unit
H - ETU3xx
J - ETU5xx
K - ETU8xx

VI - Trip Unit
L – ETUx20
M – ETUx30
N – ETUx50
P – ETUx50
Q – ETUx60
T – ETUx56

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Certificate Number	20200703-E364397
Report Reference	E364397-20160905
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Nomenclature Breakdown (Cont.)

VII - Number of poles
- 3 – Three Pole
- 4 – Four Pole

VIII - Connector
- 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

IX- Version
- 0 - Standard Version
- 2 - 100% rated breaker

X - Factory Installed Accessories 1

- A - Without Auxiliary Trip
- B - Undervoltage Release (UVR) 24 Vdc
- C - Undervoltage Release (UVR) 120 – 127 Vac
- D - Undervoltage Release (UVR) 208 – 230 Vac
- H - Shunt Trip Left (STL) 12-30Vdc, 24Vac
- J - Shunt Trip Left (STL) 110-127Vdc, 110-127Vac
- K - Shunt Trip Left (STL) 220-250Vdc, 208-277Vac
- L - Universal Release (UNI) 24Vdc

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Nomenclature Breakdown (Cont.)

XI - Factory Installed Accessories 2

A - Without Auxiliary Switch
B - 2 Standard Switch Type HP
C - 2 Standard Switch Type HQ
D – 3 Standard Switch Type HQ
E – 4 Standard Switch Type HQ
F – 1 Standard Switch + 1 Trip Alarm Type HQ
G - 1 Standard Switch + 1 Trip Alarm Type HP
H - 2 Standard Switch + 1 Trip Alarm Type HQ
J - 2 Standard Switch + 1 Trip Alarm Type HP
K - 1 Standard Switch + 1 Trip Alarm + 1 Electrical Alarm Type HQ
L - 2 Standard Switch + 1 Trip Alarm + 1 Electrical Alarm Type HQ
M – 2 Standard Switch + 1 Short Circuit Alarm Type HQ

XII - Always 0

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CERTIFICATE OF COMPLIANCE

Certificate Number 20200703-E364397
Report Reference E364397-20160905
Issue Date 2020-July-03

RATINGS:

3VA61 Series:

The current ratings are
40A, 100A and 150A for short circuit classes M, H, C or L.
60A, 100A and 150A for short circuit class E.

The maximum ac voltage rating is 600V.

Types with short circuit class E (3VA6...-0) are additionally rated “current limiting”.

3VA62 Series:

The current ratings are 100A and 250A.
The maximum ac voltage rating is 600V.

Types with short circuit class E (3VA6...-0) are additionally rated “current limiting”.

*3VA…2..0 are rated for 100% continuous current and shall be marked as such, see Markings below for more details.

Short circuit interrupting ratings 3VA61 Series:

Max. Voltage	Number of poles	Marked Rating (RMS Amps)				
		Version M	Version H	Version C	Version L	Version E
240 Vac	3 and 4	100 kA	100 kA	200 kA	200 kA	-
480 Vac	3 and 4	35 kA	65 kA	100 kA	150 kA	200 kA
600Vac	3 and 4	18 kA	22 kA	35 kA	50 kA	100 kA

Short circuit interrupting ratings 3VA62 Series:

Max Voltage	Number of poles	Marked Rating (RMS Amps)				
		Version M	Version H	Version C	Version L	Version E
240 Vac	3 and 4	100 kA	100 kA	200 kA	200 kA	-
480 Vac	3 and 4	35 kA	65 kA	100 kA	150 kA	200 kA
600 Vac	3 and 4	18 kA	22 kA	35 kA	50 kA	100 kA

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CERTIFICATE OF COMPLIANCE

Certificate Number 20200703-E364397
Report Reference E364397-20160905
Issue Date 2020-July-03

Class E – all types (These types are current limiting circuit breaker)

Voltage rating [V]	Test current [kA]	Test Level	Published values	
			Max. Peak Current [kA]	Max. I2t [kA2s]
480	10	Threshold current level	13.0	600
480	100	Intermediate interrupting Current	32.7	943
480	200	Maximum interrupting current	38.7	1133
600	10	Threshold current level	12.5	592
600	50	Intermediate interrupting current	27.3	1177
600	100	Maximum interrupting current	34.2	1188

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Certificate Number	20200703-E364397
Report Reference	E364397-20160905
Issue Date	2020-July-03

Circuit Breaker may be marked with the following

1) The word "NAVAL" at any convenient location, except the rear side of the breaker.
2) "50°C"
3) “Use outside poles for single phase up to 347 V a.c.” or similar

Circuit breakers with short circuit class E (3VA6...-0) may by marked “Current-Limiting”

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CERTIFICATE OF COMPLIANCE

Certificate Number 20200703-E364397
Report Reference E364397-20160905
Issue Date 2020-July-03

Wire Connectors:

These circuit breakers are for use with the following wire connectors. These wire connectors are also marked with Siemens numbers and / or type designations which are used as the reference marking on the circuit breaker. See also “Accessories” section below for additional connectivity accessories.

For circuit breakers the following wire connectors are marked:

Type	Siemens Part No. (MLFB)	Wire Range [AWG or kcmil]	Torque [in-lbs]	100% rated up to
TA1.3	3VA914.-0JB11 3VA914.-0JG11	14 # 12 – 8 6 – 2 1 – 1/0	55 55 75 120	150 A
		14 – 10 # 8 6 – 2 1 – 1/0	55 55 75 120	
TA1.4	3VA924.-0JB12 3VA924.-0JG12	6 – 2 1 - 350	140 275	150 A
TA2.2	3VA924.-0JJ13 3VA924.-0JC13	2-350	275	150 A
TA2.3	3VA924.-0JJ22 3VA924.-0JC22	4-300	275	150 A
TA2.6	3VA924.-0JF60	14 # 12 – 8 6 - 2	55 55 62	100 A
		14 – 10 # 8 6 – 2	55 55 62	

#) Not for aluminum conductor

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CERTIFICATE OF COMPLIANCE

Certificate Number 20200703-E364397
Report Reference E364397-20160905
Issue Date 2020-July-03

Wire Connectors (Cont.)

TC1.3	3VA914.-0JD11 3VA914.-0JK11	14 – 8 6 – 2 1 – 1/0	55 75 100	150 A
TC1.4	3VA924.-0JD12 3VA924.-0JK12	6 – 2 1 - 350	140 275	150 A 250 A *)
TS1.2	3VA914.-0JA12 3VA914.-0JH12	10 – 4 3 – 3/0	105 140	100 A
TS1.4	3VA924.-0JA12 3VA924.-0JH12	4 – 1 1/0 - 350	70 140	100 A
Front bus connectors **)	3VA927.-0QB00	Cable lug / bar		150 A 250 A *)
Nut keeper	3VA927.-0QA00	Cable lug / bar		150 A 250 A *)

*) must be used with 90 °C rated wire (sized to the ampacity of 75 °C wire)
**) Control wire connection provided by additional control wire terminal 3VA9270-0WC00 (Siemens AG, E364397, Vol. 3, Sec. 2)

Notes:

- The wire connectors mentioned above can be used with either 3VA61… or 3VA62… 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”, “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 640mm by 305mm by 130mm.

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Certificate Number	20200703-E364397
Report Reference	E364397-20160905
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Accessories:

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

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