



America

CERTIFICATE

No. U8V 17 10 21433 556

Holder of Certificate: Vicor Corporation

25 Frontage Road
Andover MA 01810
USA

Production Facility(ies):

67768

Certification Mark:



C US

Product:

Converter
DC-DC Converter

Model(s):

BCM3814V60E15A3T01
NBM3814V60E12A7T00
Low Voltage VIA BCM and VIA NBM
(see certificate attachment for model nomenclature,
License Conditions and additional ratings)

Parameters:

Rated Input Voltage:	54 V DC (36-60)
Rated Output Voltage:	13.5 V DC (9-15) (BCM) 10.8 V DC (7.2-12.0) (NBM)
Rated Output Power:	130 A (BCM) 170 A (NBM)
Degree of Protection:	IPX0

Tested according to:

CAN/CSA G22.2 No.60950-1:2007/A2:2014
UL 60950-1:2007/A2:2014
EN 60950-1:2006/A2:2013

The product was voluntarily tested according to the relevant safety requirements noted above. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

Test report no.: 72112870-100

Date, 2017-10-31

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Low Voltage VIA BCM and VIA NBM
Model Matrix: AAA3814cddewwxyzz

Example: **BCM3814V60E15A3T01**
NBM3814V60E12A7T0

AAA = BCM

Product Function	
BCM	Isolated Bus Converter Module
NBM	Non-isolated Bus Converter Module

3814 = Constant

Package Size (L x W)	
3814	3.8 x 1.4 in

c = V

Package Type	
V	Chassis mount
B	Board mount

dd = 60

Maximum Input Voltage (range)	
46	46 Vdc (36-46)
60	60 Vdc (36-60)

e = E

Range Ratio			
C	1.3	E	1.6

ww = 15

Maximum Output Voltage	
10	10 Vdc
12	12 Vdc
15	15 Vdc

xx = A3

Maximum Output Current			
A3	130A	A6	160A
A5	150A	A7	170A

y = T

Product Grade	
C	-20 to 100°C
T	-40 to 100°C
M	-55 to 100°C

zz = 01

Options (non-safety related)	
01	Any alphanumeric

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License Conditions:

Special Considerations – The following items are considerations that were used when evaluating these products.

The Low Voltage VIA BCM and VIA NBM series of DC-DC converters are designed for building-in.

Conditions of Acceptability – When installed in the end use equipment, the following are among considerations to be made:

1. The input to the LV VIA BCMs and NBM is intended to be supplied from a SELV, TNV-2, or other non-hazardous secondary circuit.
2. The output return (-OUT / -LO) is directly connected to the Case for all models.
3. The Case of the VIA may be connected to Protective Earth but it is not required.
4. If the case of the VIA is connected to Protective Earth then the consequences of the circuit possibly being earthed at a second point should be considered in the end application per clause 2.9.4 NOTE 2.
5. The Input of the VIA BCMs are separated from the Output/Case by Basic insulation and the output is considered SELV.
6. The output of the non-isolating VIA NBM can be considered SELV if the input is SELV.
7. See de-rating curves for maximum output current versus case temperature.
8. Recommended fusing: Littelfuse 456 or TLS series rated 40A max for k=1/4, 1/5, and k=1/6 models. Littelfuse TLS or 881 series rated 60A max for k=1/3 models. Alternate overcurrent protection for the non-isolating parts may be evaluated in the end product.

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