

Certificate of Compliance

Certificate Number:

UL-US-L60425-6187117-
03704891-4

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:
XCFR2 - Terminal Blocks - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1059, Edition 5, Issued 2019-11-26, Revised 2022-07-28

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

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

Look for the UL Recognized Component Mark on the product.



A handwritten signature in blue ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L60425-6187117-03704891-4
Report reference E60425-19840730
Date 2024-10-22

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
AGK10-UKH f/b 50, 95 or 150/240 (2)	Terminal Blocks - Component
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UHV150(1)	Terminal Blocks - Component
UHV240(1)	Terminal Blocks - Component
UHV25(1)	Terminal Blocks - Component
UHV50 (1)	Terminal Blocks - Component
UHV95(1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification,	Terminal Blocks - Component



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packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	
UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component
UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH150 1500V(5)	Terminal Blocks - Component
UKH150(5), UKH150-F(5)	Terminal Blocks - Component
UKH240(6), UKH240-F(6)	Terminal Blocks - Component
UKH25	Terminal Blocks - Component
UKH50 (1)(3), UKH50IB (1)(3)	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component
UKH95(4), UKH95-F(4)	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-US-2441517-0

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR2 - Terminal Blocks - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1059, Edition 5, Issued 2019-11-26, Revised 2022-07-28

Additional Information:

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David Piecuch
UL Mark Certification Program Owner

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Model	Product Description
AGK10-UKH f/b 50, 95 or 150/240 (2)	Terminal Blocks - Component
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UHV150(1)	Terminal Blocks - Component
UHV240(1)	Terminal Blocks - Component
UHV25(1)	Terminal Blocks - Component
UHV50 (1)	Terminal Blocks - Component
UHV95(1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification,	Terminal Blocks - Component



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UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component
UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH150 1500V(5)	Terminal Blocks - Component
UKH150(5), UKH150-F(5)	Terminal Blocks - Component
UKH240(6), UKH240-F(6)	Terminal Blocks - Component
UKH25	Terminal Blocks - Component
UKH50 (1)(3), UKH50IB (1)(3)	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component
UKH95(4), UKH95-F(4)	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-US-2441519-0

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR2 - Terminal Blocks - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1059, Edition 5, Issued 2019-11-26, Revised 2022-07-28

Additional Information:

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David Piecuch
UL Mark Certification Program Owner

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AGK10-UKH f/b 50, 95 or 150/240 (2)	Terminal Blocks - Component
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UHV150(1)	Terminal Blocks - Component
UHV240(1)	Terminal Blocks - Component
UHV25(1)	Terminal Blocks - Component
UHV50 (1)	Terminal Blocks - Component
UHV95(1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification,	Terminal Blocks - Component



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UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component
UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH150 1500V(5)	Terminal Blocks - Component
UKH150(5), UKH150-F(5)	Terminal Blocks - Component
UKH240(6), UKH240-F(6)	Terminal Blocks - Component
UKH25	Terminal Blocks - Component
UKH50 (1)(3), UKH50IB (1)(3)	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component
UKH95(4), UKH95-F(4)	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-US-2441521-0

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR2 - Terminal Blocks - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

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Model	Product Description
AGK10-UKH f/b 50, 95 or 150/240 (2)	Terminal Blocks - Component
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UHV150(1)	Terminal Blocks - Component
UHV240(1)	Terminal Blocks - Component
UHV25(1)	Terminal Blocks - Component
UHV50 (1)	Terminal Blocks - Component
UHV95(1)	Terminal Blocks - Component
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UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification,	Terminal Blocks - Component



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UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component
UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH150 1500V(5)	Terminal Blocks - Component
UKH150(5), UKH150-F(5)	Terminal Blocks - Component
UKH240(6), UKH240-F(6)	Terminal Blocks - Component
UKH25	Terminal Blocks - Component
UKH50 (1)(3), UKH50IB (1)(3)	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component
UKH95(4), UKH95-F(4)	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-CA-L60425-6189117-
03704891-3

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR8 - Terminal Blocks Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 No. 158, Edition 4, Issue Date 2023-02, Revision Date 2023-12

Additional Information:

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CERTIFICATE OF COMPLIANCE

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Date 2024-10-22

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Model	Product Description
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
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UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component



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UKH70, UKH70-F	Terminal Blocks - Component



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Issued to:

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Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR8 - Terminal Blocks Certified for Canada - Component

See Addendum Page for Product Designation(s).

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RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2431458-0
Report reference E60425-19840730
Date 2024-10-22

UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-CA-2431461-0

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

Issued to:

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR8 - Terminal Blocks Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 No. 158, Edition 4, Issue Date 2023-02, Revision Date 2023-12

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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

Look for the UL Recognized Component Mark on the product.



A handwritten signature in black ink, appearing to read 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2431461-0
Report reference E60425-19840730
Date 2024-10-22

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2431461-0
Report reference E60425-19840730
Date 2024-10-22

UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component



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Certificate of Compliance

Certificate Number:

UL-CA-2431462-0

Report Reference:

E60425-19840730

Issue Date:

2024-10-22

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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstrasse 8 Blomberg 32825
Germany

This certificate confirms that representative samples of:

XCFR8 - Terminal Blocks Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 No. 158, Edition 4, Issue Date 2023-02, Revision Date 2023-12

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

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Look for the UL Recognized Component Mark on the product.



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David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2431462-0
Report reference E60425-19840730
Date 2024-10-22

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
RBO 12/WA185	Terminal Blocks - Component
RBO 16/WA240	Terminal Blocks - Component
RBO 6/WA50	Terminal Blocks - Component
RBO 6/WA70	Terminal Blocks - Component
RBO 8/WA120	Terminal Blocks - Component
UHV 150 (1)	Terminal Blocks - Component
UHV 240 (1)	Terminal Blocks - Component
UHV 50 (1)	Terminal Blocks - Component
UHV 95 (1)	Terminal Blocks - Component
UKH 150 / TB 150 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	USL Only
UKH 240/ TB 240 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 25	Terminal Blocks - Component
UKH 50	Terminal Blocks - Component
UKH 50-IB	Terminal Blocks - Component
UKH 70 (1)	Terminal Blocks - Component
UKH 70 PE/S / TB 70-PE I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH 70/4X10	Terminal Blocks - Component
UKH 70/4X10-PE	Terminal Blocks - Component



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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2431462-0
Report reference E60425-19840730
Date 2024-10-22

UKH 95 / TB 95 I, All Cat. Nos. may be followed by a 1 to 30 character alphanumeric suffix (any combination of letters and/or numbers) with or without spaces between characters, designating nonelectrical variations such as color, Customer identification, packaging or plating options, coded variations (by adding or removing parts) or omitting terminals from single or multiple alternating poles. Terminal blocks may not be shipped with all terminals removed.	Terminal Blocks - Component
UKH70, UKH70-F	Terminal Blocks - Component



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DESCRIPTION

PRODUCT COVERED:

* USR - Component Terminal Blocks, Type UKH followed by 25, 150, or 240 may be followed by /4x10, may be followed by -F or 1500V. Type UHV followed by 25, 50, 95, 150, or 240 followed by Suffixes -M8, -M10, -M12, -M16, -AS, -KH, or -AS 16 additionally followed by /M8, /M10, /M12, /M16, /AS, /KH, or /AS 10. Type AGK10-UKH followed by 50, 95, or 150/240.

USR/CNR - Component Terminal Blocks, Type UKH followed by 50, 70, 50IB, 95 may be followed by -F. Type UKH 70 may be followed by /4x10. Type RBO followed by 6, 8, 12 or 16 followed by suffix WA50, WA70, WA120, WA185, WA240

*USR/CNR - Protective Conductor Terminal Block, Types UKH 70 PE/S and UKH 70/4x10-PE, **UKH 70 PE/S or TB 70-PE I.**

USR/CNR - Component Terminal Blocks, Cat. Nos. UKH 95 or TB 95 I, UKH 150 or TB 150 I, UKH 240 or TB 240 I.

Note -

USL - Products designated USL have been investigated using US requirements as noted in the Test Record.

CNL - Products designated CNL have been investigated using Canadian requirements as noted in the Test Record.

*
GENERAL:

The terminal blocks covered by this report are intended for use in the following applications and within the ratings specified.

Application -

General Industrial (such as motor controllers, pushbutton stations, etc.)

Type Wiring Termination -

Pressure Wire Connector
Stud and Nut

Type Wiring -

Factory and Field Wiring

Ratings:

	(CU)	FW			Torque		Usage Group
Type	Wire Range		Current, A	Voltage, V	Nm	lb-in	
UKH 25	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UHV 25-AS/AS	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UHV 25-KH/AS	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UHV 25-KH/KH	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UHV 25-KH/M8	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UHV 25-M8/M8	No. 6 to No. 4 AWG	2	85	600	4.5	40	B,C
UKH 50/ TB 50 I	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UHV 50-AS/AS	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UHV 50-KH/AS	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UHV 50-KH/KH	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UHV 50-KH/M10	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UHV 50-M10/M10	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UKH50IB	No. 6 to No. 1/0 AWG	2	150	600	7.9	70	B,C
UKH 70	No. 6 to No. 3/0 AWG	2	192	1,000	8-10	71-88	C,E
UKH 70-F	No. 6 to No. 3/0 AWG	2	192	1,000	8-10	71-88	C,E

	(CU)	FW			Torque		Usage Group
UKH 95/ TB 95 I	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UHV 95- AS/AS	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UHV 95- KH/AS	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UHV 95- KH/KH	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UHV 95- KH/M12	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UHV 95- M12/M12	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UKH 95-F	No. 2 to No. 4/0 AWG	2	230	600	19.7	175	B,C
UKH 150/ TB 150 I	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UKH 150 1500V	No. 2 to No. 300 kcmil	2	285	1,000	30.5	270	E
UHV150- AS/AS	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UHV150- KH/AS	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C

Ratings Continued:

*

	(CU)	FW			Torque		Usage Group
UHV150-KH/KH	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UHV150-KH/M12	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UHV150-M12/M12	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UKH 150-F	No. 2 to No. 300 kcmil	2	285	600	30.5	270	B,C
UKH 240/ TB 240 I	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UKH 240-F	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-AS 16/AS 10	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-AS/AS	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-KH/AS	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-KH/KH	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-KH/M16	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
UHV240-M16/M16	No. 2/0 to 500 kcmil	2	380	600	30.5	270	B,C
AGK10-UKH 50	No. 24-6 AWG	2	65	600	1.2- 2.2	11-20	B,C
AGK10-UKH 95	No. 24-6 AWG	2	65	600	1.2- 2.2	11-20	B,C
AGK10-UKH 150/240	No. 24-6 AWG	2	65	600	1.2- 2.2	11-20	B,C

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Type	Wire Range	FW	Current A	Voltage V	Torque Nm (lb-in)	Usage Group
UKH 70/4X10	For 70: 6 to 3/0 AWG Compact Copper	2	176	1000	8-10 (71-88)	E (For UR) and C (For CNR)
	For 4x10: 16 (sol/str) to 6 AWG Compact Copper	2	65		1.4-1.5 (12-13)	
UKH 70/4X10-PE	For 70: 6 to 3/0 AWG Compact Copper	2	NA	1000	8-10 (71-88)	E (For UR) and C (For CNR)
	For 4x10: 16 (sol/str) to 6 AWG Compact Copper	2			1.4-1.5 (12-13)	E
UKH 70 PE/S/ TB 70-PE I	No. 6 to No. 3/0 AWG Compact Copper	2	NA	600	8-10 (71-88)	B,C

Ratings Continued:

Cat.-no.	Wire size AWG/KCmil (compact)	Wire type	FW	TQ Nm	V	A	UG
RBO 6/WA50	2 AWG	Cu	2	6 - 8	600	115	BC
RBO 6/WA70	1/0 AWG	Cu	2	6 - 8	600	150	BC
RBO 8/WA120	3/0 AWG	Cu	2	15 - 20	600	200	BC
RBO 12/WA185	300 KCmil	Cu	2	25 - 30	600	285	BC
RBO 16/WA240	350 KCmil	Cu	2	30 - 35	600	310	BC

Type	Additional multiple wire combination rating of two wires, same size only, for field and factory-wiring. No mixing of stranded and solid wires.
UKH 50 (IB)	No. 8 to No. 6 AWG Cu. Str.
UKH 70	No. 6 to No. 4 AWG Cu. Str.
UKH 95/ TB 95 I	No. 4 to No. 2 AWG Cu. Str.
UKH 150/ TB 150 I	No. 4 to No. 1/0 AWG Cu. Str.
UKH 240/ TB 240 I	No. 2 to No. 3/0 AWG Cu. Str.
AGK10-UKH 50	No. 20 to No. 10 AWG Cu. Str. Or Sol.
AGK10-UKH 95	No. 20 to No. 10 AWG Cu. Str. Or Sol.
AGK10-UKH 150/240	No. 20 to No. 10 AWG Cu. Str. Or Sol.

The terminal blocks tabulated below have optional 3-phase short circuit current ratings. The Terminal Blocks must be protected by the max ampere and Class of overcurrent protective device noted below.

Cat. No.	Suitable Conductors kcmil/AWG Str.		Overcurrent Protection Fuse Required Class/Max Amp Rating						SCCR, RMS Sym A	Volts Max
	Line	Load	J	T	RK1	RK5	G	CC		
UKH 25	6-4 Cu	6-4 Cu	30	30	-	-	30	30	100,000	600
UKH 50 / TB 50 I	6-1/0 Cu	6-1/0 Cu	100	100	60	30	60	30	100,000	600
UKH 50-IB	6-1/0 Cu	6-1/0 Cu	100	100	60	30	60	30	100,000	600
UKH 95/ TB 95 I	2-4/0 Cu	2-4/0 Cu	200	200	200	60	60	30	100,000	600
UKH 95/ TB 95 I	2-4/0	2-4/0	400	400	200	100	60	30	100,000	600
UKH 150/ TB 150 I	2-300kcmil Cu	2-300kcmil Cu	200	200	200	60	60	30	100,000	600
UKH 150/ TB 150 I	2-300 kcmil	2-300 kcmil	400	400	200	100	60	30	100,000	600
UKH 240/ TB 240 I	2/0-500kcmil Cu	2/0-500kcmil Cu	200	200	200	60	60	30	100,000	600
UKH 240/ TB 240 I	2/0-500 kcmil	2/0-500 kcmil	400	400	200	100	60	30	100,000	600
UKH 70	6-3/0	6-3/0	200	200	100	30	60	30	100,000	600
UHV 50	6-1/0	6-1/0	200	200	100	30	60	30	100,000	600
UKH 70/4X10	For 70: 6 to 3/0 For 4x10: 16 to 6	For 70: 6 to 3/0 For 4x10: 16 to 6	200	200	100	30	60	30	100,000	600
UHV 95	2-4/0	2-4/0	400	400	200	100	60	30	100,000	600
UHV 150	2-300 kcmil	2-300kcmil	400	400	200	100	60	30	100,000	600
UHV 240	2/0-500 kcmil	2/0-500kcmil	400	400	200	100	60	30	100,000	600

The following terminal block models have optional 3-phase short circuit current rating evaluated for use with copper conductors only. The terminal blocks must be protected by the max ampere and class of overcurrent protective device noted below.

Cat. No.	Suitable Conductors kcmil/AWG		Overcurrent Protection Circuit Breaker Required			SCCR, RMS Sym, kA	Volts Max
	Line	Load	Mfr	Type	Max Amp		
UKH 95/ TB 95 I	2-4/0 Str	2-4/0 Str	Siemens	3VA52..	250	65	480

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Spacings - The following minimum spacings in inches (millimeters) shall be maintained between uninsulated live parts of opposite polarity, uninsulated live parts and uninsulated grounded parts other than the enclosure, or exposed metal parts.

	Max Volts	Through Air	Over Surface
General Industrial	600	3/8 (9.5)	1/2 (12.7)
	1,000	0.55 (14.0)	0.85 (21.6)

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only with products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The terminals have been investigated for factory and field-wiring.
2. The insulating bodies are molded of Recognized Component polymeric materials (QMFZ2). Identification of these plastic materials by manufacturer's name, Grade designation, maximum operating temperature, and flame rating are specified in the "Section General" pages in this Procedure. The acceptability of these materials shall be judged in the end use application.
3. These devices have been investigated for use with copper conductors only.
4. These devices are designed to mount on all DIN rails.
5. These devices are equipped with the following optional accessory.
 - A. End Plate UHV-E
 - B. Metallic End Brackets E/AL-NS32, E/AL-NS35
 - C. Separating Plates UHV-TP1 and UHV-TP2
6. The tightening torque for field wiring pressure wire connector terminals is recorded in the Ratings Section of this Report. This torque value shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.
7. Type AGK10-UKH terminal blocks are mounted on the UKH Series terminal blocks for current or voltage taps. They are clamped to the UKH current bar. The mounting suitability shall be determined in the end-use equipment.
8. Types UKH25, UKH95, UKH150, UKH240 short circuit current tests were performed with the test sample mounted in a 10x10x6.25 inch enclosure, which represents the minimum intended enclosure size. UKH 95 / **TB 95 I**, UKH 150/ **TB 150 I** and UKH 240/ **TB 240 I** were also tested implementing a 400 A recognized class J limiter representing acceptable fuse types for use as listed in the ratings section, and tested with a 12x12x6 inch enclosure representing the minimum intended enclosure size at that rating. The suitability of smaller enclosures shall be determined in the end-use investigation.
- 9A. The housing for Cat. Nos. UKH70 and UKH150 1500V, rated 1000V, are molded
10. The terminal block short-circuit ratings were determined based on testing with recognized class J limiters as rated in the ratings section representing acceptable fuse types for use as listed in the ratings section with the following minimum enclosure sizes: for types UKH50 and UKH 70, a 8 x 8 x 6 inch enclosure, for types UHV 50-KH/KH (representing UHV series), UKH 70/4X10, UHV 95-KH/KH (representing UHV 95 series), UHV 150-KH/KH (representing UHV 150 series), UHV 240-KH/KH (representing UHV 240 series) in a 12x12x6 inch enclosure, which represents the minimum enclosure size intended for use. The suitability of smaller enclosures shall be determined in the end-use investigation.
11. The Protective Conductor Terminal Blocks Types UKH 70 PE/S / **TB 70-PE I** and UKH 70/4x10-PE were evaluated with use of steel, copper and aluminium din rails U type measuring 25 by 15 by 1 mm for copper and aluminium and 35 by 15 by 2.3 mm for steel din rails.
12. Terminal blocks used with accessories such as end plates, distance plates, partition plates, end clamps, din rails, bridges and shorting links, shall be evaluated in the end product in which the suitability can be determined.
16. RBO Series terminal blocks are intended to be used with certified pressure terminal connectors, such as ring and fork types, on the end of the conductor before attachment to the wiring terminals of the terminal block.

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Issued: 1984-07-30
Revised: 2024-07-24

17. The terminal block short-circuit rating for cat. no. UKH 95 / **TB 95 I**, with Overcurrent Protection Circuit Breaker: Siemens, type 3VA52..., was determined based on testing on a test metal plate.

CONSTRUCTION DETAILS:

The product shall be constructed in accordance with the following description.

Marking - The marking of a terminal block shall include:

A) The manufacturer's name or trademark.

B) The type or catalog numbers may be marked on the shipping cartons.

The following markings shall appear on the terminal block or, if not practical, on or in the carton:

C) Maximum rated voltage and amperage.

D) Conductor range.

Corrosion Protection - All parts are of corrosion resistant material or are suitably plated to resist corrosion.

Tolerance - Unless otherwise specified, all dimensions are nominal.

Nomenclature:

Note: -In nomenclature we can use (/) (,) (-) and space in between every suffix.

Color coding can be added to any Article name at any position. In general we add it at last or as per given nomenclature.

A	B	C
X0	X1	X2

A: X0 - UHV : Adaptable insulating body style enabling several cable termination options.

B: Size in correlation to the cross-section (X1): 25 , 50 , 70 , 95 , 150 , 240.

C: With or without suffix' X2': Terminal Options - Any combination of two of the following suffixes may be applied except as noted below.

-AS - Bus bar provided with clearance hole for stud and nut.

-KH - Insulated pressure wire connector.

-M8 - Bus bar with tapped 8.5 mm hole for stud terminal.

-M10- Bus bar with tapped 10.5 mm dia tapped hole in bus bar.

-M12- Bus bar with tapped 12.5 mm dia tapped hole in bus bar.

-M16- Bus bar with tapped 16.5 mm dia tapped hole in bus bar.

UHV 25-AS/AS	UHV 95-AS/AS	UHV240-AS 16/AS 10
UHV 25-KH/AS	UHV 95-KH/AS	UHV240-AS/AS
UHV 25-KH/KH	UHV 95-KH/KH	UHV240-KH/AS
UHV 25-KH/M8	UHV 95-KH/M12	UHV240-KH/KH
UHV 25-M8/M8	UHV 95-M12/M12	UHV240-KH/M16
UHV 50-AS/AS	UHV150-AS/AS	UHV240-M16/M16
UHV 50-KH/AS	UHV150-KH/AS	
UHV 50-KH/KH	UHV150-KH/KH	
UHV 50-KH/M10	UHV150-KH/M12	
UHV 50-M10/M10	UHV150-M12/M12	

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Nomenclature:

A	B	C
RBO	X0	X1

A: RBO : Bolt Connection Terminal Block
 B: X0 : Size in correlation to the Bolt : 6, 8, 12, 16
 C: X1 : For internal identification purpose : WA50, WA70, WA120, WA185, WA240

RBO 6/WA50	RBO 6/WA70
RBO 8/WA120	RBO 12/WA185
RBO 16/WA240	

Nomenclature:

A	B	C	D
X0	X1	X2	X3

A: with suffix X0:
 X0: TB: Terminal block with screw connection

B: with suffix X1:
 X1: Size in correlation to the cross-section (X1): 70, 95, 150, 240

C: with or without suffix X2:
 X2: PE: Ground Terminal block

D: with or without suffix X3:
 I: Suffix

With all colour variants are possible and that can be added at any position of nomenclature and the suffixes can be added at any position.

Note: In nomenclature we can use /, - and space in between every suffix

TB 70-PE I	TB 95 I
TB 95-PE I	TB 150 I
TB 240 I	