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Contents: Pages 1 up to 14
Test Sheets T2 up to T21
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Photographs Figures Nos.: Fig. No. 1 up to Fig. No. 19

CSA PRODUCT CLASS

3211 03 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Auxiliary Devices

SUBJECT

Electronic Overload Relays, Type 3RB12 with integrated current transformer, open type, with the following ratings, 6 setting ranges, 6 setting classes.

Communication - Capable Electronic Overload Relay (Basic Unit), Type 3UF50, with integrated current transformer, open type, with the following ratings, 6 setting ranges, 6 setting classes.

Communication - Capable Electronic Overload Relay (Expansion Module), Type 3UF51, open type.

Communication - Capable Electronic Overload Relay (Operator Module), Type 3UF52, general purpose enclosure, low voltage limited energy.

Summation Current Transformer, Type 3UL22, 8 rated fault currents: 0.3 A, 0.5 A, 1.0 A, 6.0 A, 10.0 A, 16.0 A 25.0 A or 40 A.

Ratings:

Main circuit: 600 V ac, 3 ph, 50/60 Hz

Auxiliary contacts: B300/R300
General purpose 5 A / 240 V ac or 5 A / 30 V dc

Control voltage: 3RB12: 24 V dc, 110 up to 120 V ac or 220 up to 240 V ac
3UF5: 24 V dc, 115 V ac or 230 V ac

Setting classes: 5, 10, 15, 20, 25 or 30 A

Tripping current: 125 percent of dial setting

Setting ranges: 1.25 up to 6.3 A, 6.3 up to 25 A, 25 up to 100A, 50 up to 205 A,
125 up to 500 A, 200 up to 820 A,

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REPLACES

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Notes:

- 1 The type designation may be completed with numbers and letters indicating electrical and mechanical details.
- 2 The relays are intended for use in combination with this manufacturer's Certified contactors or for separate use, where the acceptability of combination is to be determined by the Canadian Standards Association.
- 3 The relays are ambient temperature compensated.

DECLARATION

The product, as described in this report, complies with:

CSA Standard C22.2 No. 0-M91 - General Requirements

CSA Standard C22.2 No. 14-95 - Industrial Control Equipment

DESCRIPTION

General:

The 3RB12 are three-phase adjustable ambient compensated electronic overload relays with integrated current transformer of the open type. The devices are intended for use in combination with this manufacturer's contactors or for separate mounting.

The 3UL22 are summation current transformer of the open type. The devices are intended for use in combination with this manufacturer's electronic overload relays.

Functions: Motor protection, thermistor motor protection, ground fault indication with separate output relay, remote reset, class setting (5, 10, 15, 20, 25 or 30) or test reset.

Nomenclature Breakdown

3RB12	46	-	1P	B	0	0
I	II		III	IV	V	VI

I. Basic Type

3RB12 - Electronic overload relay

II. Frame Size

46 - 70 mm
53 - 120 mm
57 - 145 mm
62 - 230 mm

III. Setting range

1P - 1.25 to 6.3 A
1Q - 6.3 to 25 A
1E - 25 to 100 A
0F - 50 to 205 A
0K - 125 to 500 A
0L - 200 to 820 A

IV. Rated control voltage

B - 24 V dc
J - 115 V ac
N - 230 V ac

V. Earth-fault indicator

- 0 - separate output for earth-fault with externally connected summation current transformer
- 1 - separate output for overload warning with externally connected summation current transformer
- 2 - separate output for earth-fault with integrated evaluation of earth-fault
- 3 - separate output for warning with integrated evaluation of earth-fault
- 4 - separate analog output for monitoring the current

VI. Type of output contacts

- 0 - mono-stabile output contacts
- 1 - bi-stabile output contacts

3UF50 01 - 3A B 0
I II III IV V

I. Basic Type

3UF50 - Basic Unit

II. Frame Size and Setting range

- 01 - 70 mm 1.25 to 6.3 A
- 11 - 70 mm 6.3 to 25 A
- 21 - 70 mm 25 to 100 A
- 31 - 120 mm 50 to 205 A
- 41 - 145 mm 125 to 500 A
- 51 - 230 mm 200 to 820 A

III. Version

- 3A - Input thermistor motor protection
- 3B - Input earth-fault detection (external)

IV. Rated control voltage

- B - 24 V dc
- G - 110 to 120 V ac
- M - 220 to 240 V ac

V. Type of output contacts

- 0 - mono-stabile output contacts
- 1 - bi-stabile output contacts

3UF5100-0A B
 I II

- I. Basic Type
 3UF5100-0A - Expansion Module

- II. Rated control voltage
 B - 24 V dc
 J - 115 V ac
 N - 230 V ac

3UF5202-1AA
 I

- I. Basic Type
 3UF5202-1AA - Operator Module

3UL22 01 - 1A
 I II III

- I. Basic Type
 3UL22 - Summation current transformer

- II. Frame Size
 01 - 40 mm hole dia
 02 - 65 mm hole dia
 03 - 120 mm hole dia

- III. Rated fault current
 1A - 0.3 A
 2A - 0.5 A
 3A - 1.0 A
 1B - 6.0 A
 2B - 10.0 A
 3B - 16.0 A
 4B - 25.0 A
 5B - 40.0 A