

## DX<sup>3</sup> RCCBs

RCCBs for AC applications 80-100 A



Technical characteristics p. 46-51

Integrated label holder  
Ergonomic Grey color dolly  
Color coded On/Off indication on dolly  
IP 20 protected terminals  
35 sq mm terminals  
Sliding shutters

| Pack   | Cat.Nos        | DX <sup>3</sup> RCCBs                     | Nominal rating In (A) | Number of modules |
|--------|----------------|---|-----------------------|-------------------|
|        |                | <b>2 pole 240 V<math>\sim</math></b>      |                       |                   |
|        |                | <b>30 mA</b>                              |                       |                   |
| 1/5/60 | <b>4115 07</b> |   | 80                    | 2                 |
| 1/5/60 | <b>4115 08</b> |   | 100                   | 2                 |
|        |                | <b>100 mA</b>                             |                       |                   |
| 1/5/60 | <b>4115 17</b> |   | 80                    | 2                 |
| 1/5/60 | <b>4115 18</b> |   | 100                   | 2                 |
|        |                | <b>300 mA</b>                             |                       |                   |
| 1/5/60 | <b>4115 27</b> |   | 80                    | 2                 |
| 1/5/60 | <b>4115 28</b> |   | 100                   | 2                 |
|        |                | <b>4 pole 415 V<math>\sim</math></b>      |                       |                   |
|        |                | <b>30 mA</b>                              |                       |                   |
| 1/32   | <b>4117 05</b> |   | 80                    | 4                 |
| 1/32   | <b>4117 06</b> |   | 100                   | 4                 |
|        |                | <b>100 mA</b>                             |                       |                   |
| 1/32   | <b>4117 15</b> |   | 80                    | 4                 |
| 1/32   | <b>4117 16</b> |   | 100                   | 4                 |
|        |                | <b>300 mA</b>                             |                       |                   |
| 1/32   | <b>4117 25</b> |   | 80                    | 4                 |
| 1/32   | <b>4117 26</b> |   | 100                   | 4                 |
|        |                | <b>2 pole 240 V<math>\sim</math>, HPI</b> |                       |                   |
|        |                | <b>30 mA</b>                              |                       |                   |
| 1/5/60 | <b>4118 74</b> |   | 80                    | 2                 |
|        |                | <b>4 pole 415 V<math>\sim</math>, HPI</b> |                       |                   |
|        |                | <b>30 mA</b>                              |                       |                   |
| 1/32   | <b>4118 99</b> |   | 80                    | 4                 |
|        |                | <b>4 pole 415 V<math>\sim</math>, A-S</b> |                       |                   |
|        |                | <b>300 mA</b>                             |                       |                   |
| 1/5/60 | <b>4118 94</b> |   | 80                    | 4                 |

## DX<sup>3</sup> RCBOs

RCBOs assembled for AC applications upto 63 A



Technical characteristics p. 46-51

ISI marked as per IS 12640-2  
Integrated label holder  
Ergonomic design  
Color coded On/Off indication on dolly  
Front face indication for earth leakage fault  
IP 20 protected terminals  
35 sq mm terminals  
Sliding shutters

| Pack | Cat.Nos        | DX <sup>3</sup> RCBOs                         | Nominal rating In (A) | Number of modules |
|------|----------------|---|-----------------------|-------------------|
|      |                | <b>2 pole 240 V<math>\sim</math>, AC Type</b> |                       |                   |
|      |                | <b>30 mA</b>                                  |                       |                   |
|      |                |   |                       |                   |
| 1/32 | <b>4113 22</b> |   | 6                     | 4                 |
| 1/32 | <b>4113 23</b> |   | 10                    | 4                 |
| 1/32 | <b>4113 24</b> |   | 16                    | 4                 |
| 1/32 | <b>4113 25</b> |   | 25                    | 4                 |
| 1/32 | <b>4113 26</b> |   | 32                    | 4                 |
| 1/32 | <b>4113 27</b> |   | 40                    | 4                 |
| 1/32 | <b>4113 28</b> |   | 63                    | 4                 |
|      |                | <b>100 mA</b>                                 |                       |                   |
| 1/32 | <b>4113 29</b> |   | 6                     | 4                 |
| 1/32 | <b>4113 30</b> |   | 10                    | 4                 |
| 1/32 | <b>4113 31</b> |   | 16                    | 4                 |
| 1/32 | <b>4113 32</b> |   | 25                    | 4                 |
| 1/32 | <b>4113 33</b> |   | 32                    | 4                 |
| 1/32 | <b>4113 34</b> |   | 40                    | 4                 |
| 1/32 | <b>4113 35</b> |   | 63                    | 4                 |
|      |                | <b>300 mA</b>                                 |                       |                   |
| 1/32 | <b>4113 36</b> |   | 16                    | 4                 |
| 1/32 | <b>4113 37</b> |   | 25                    | 4                 |
| 1/32 | <b>4113 38</b> |   | 32                    | 4                 |
| 1/32 | <b>4113 39</b> |   | 40                    | 4                 |
| 1/32 | <b>4113 40</b> |   | 63                    | 4                 |
|      |                | <b>4 pole 415 V<math>\sim</math>, AC Type</b> |                       |                   |
|      |                | <b>30 mA</b>                                  |                       |                   |
| 1/16 | <b>4113 88</b> |   | 6                     | 7                 |
| 1/16 | <b>4113 89</b> |   | 10                    | 7                 |
| 1/16 | <b>4113 65</b> |   | 16                    | 7                 |
| 1/16 | <b>4113 66</b> |   | 25                    | 7                 |
| 1/16 | <b>4113 67</b> |   | 32                    | 7                 |
| 1/16 | <b>4113 68</b> |   | 40                    | 7                 |
| 1/16 | <b>4113 69</b> |   | 63                    | 7                 |
|      |                | <b>100 mA</b>                                 |                       |                   |
| 1/16 | <b>4113 70</b> |   | 16                    | 7                 |
| 1/16 | <b>4113 71</b> |   | 25                    | 7                 |
| 1/16 | <b>4113 72</b> |   | 32                    | 7                 |
| 1/16 | <b>4113 73</b> |   | 40                    | 7                 |
| 1/16 | <b>4113 74</b> |   | 63                    | 7                 |
|      |                | <b>300 mA</b>                                 |                       |                   |
| 1/16 | <b>4113 75</b> |   | 16                    | 7                 |
| 1/16 | <b>4113 76</b> |   | 25                    | 7                 |
| 1/16 | <b>4113 77</b> |   | 32                    | 7                 |
| 1/16 | <b>4113 78</b> |   | 40                    | 7                 |
| 1/16 | <b>4113 79</b> |   | 63                    | 7                 |

# DX<sup>3</sup> RCDS

technical data for DX<sup>3</sup> RCDs

| Specification  | RCCB  |   |  |
|--|---|---|--|
|  | Type AC   | Type A-S  | Type Hpi   |
|  | IS 12640 (part 1) 2008<br>IEC 61008 - 1   | IEC 61008 - 1<br>EN 61008 - 1   | EN 61008 - 1<br>IEC 61008 - 1  |
| <b>No. of modules</b>  | - Double pole<br>- Four pole  | 2<br>4  | 2<br>4   |
| <b>Electrical characteristics</b>  |   |   |  |
| <b>Nominal rating I<sub>n</sub> (A)</b>                                  | - Double pole<br>- Four pole  | 25, 40, 63, 80, 100<br>25, 40, 63, 80, 100  | 63, 80<br>25, 40, 63, 80   |
| <b>Rated sensitivity (mA)</b>  | - Double pole<br>- Four pole  | 30, 100, 300<br>30, 100, 300  | 300<br>300   |
| <b>Rated frequency (Hz)</b>  |   | 50 / 60   | 50 / 60  |
| <b>Rated operating voltage U<sub>e</sub> (V AC)</b>                      | - Double pole<br>- Four pole  | 230<br>230 / 415  | 230<br>400   |
| <b>Minimum operating voltage (V AC)</b>                                  |   | 12  | 12   |
| <b>Minimum operating voltage for test button (V AC)<sup>(1)</sup></b>    | - Double pole<br>- Four pole  | 170<br>196  | 170<br>196   |
| <b>Rated insulation voltage U<sub>i</sub> (V AC)</b>                     | - Double pole<br>- Four pole  | 250<br>500  | 250<br>500   |
| <b>Rated impulse withstand voltage U<sub>imp</sub> (kV)</b>              |   | 6   | 6  |
| <b>Breaking capacity</b>   | As per IS 12640 (part 1) 2008, IEC 61008 - 1  |   |  |
| <b>Rated making &amp; breaking capacity (I<sub>m</sub>)</b>              |   |   |  |
| - Up to 40 A   | 500 A   | -   | 500 A  |
| - From 63 A and above  | 10 x I <sub>n</sub>   | 630 A   | 630 A  |
| <b>Rated residual making &amp; breaking capacity (I<sub>Δm</sub>)</b>    |   |   |  |
| - Up to 40 A   | 1000 A  | -   | 1000 A   |
| - From 63 A and above  | 1000 A  | 1000 A  | 1000 A   |
| <b>Rated conditional short circuit current (I<sub>nc</sub>)</b>          | 10000 A   | 10000 A   | 10000 A  |
| <b>Rated conditional residual short circuit current (I<sub>Δc</sub>)</b> | 10000 A   | 10000 A   | 10000 A  |
| <b>Rated service short circuit capacity (I<sub>cs</sub>)</b>             | -   | -   | -  |
| <b>Rated short circuit capacity (I<sub>cn</sub>)</b>                     | -   | -   | -  |
| <b>Operating temperature (°C)</b>  | - 25 to 70  | - 25 to 70  | - 25 to 70   |
| <b>Endurance (0.C cycle)</b>   | - Mechanical<br>- On load at $\cos \phi = 0.9$<br>- Via test button<br>- By fault current (sensitivity)     | 20,000<br>10,000<br>2,000<br>2,000  | 20,000<br>10,000<br>2,000<br>2,000   |
| <b>Testing</b>   | By pressing test button grey dolly will come to OFF position<br>It is recommended to test RCCB once a month | By pressing test button grey dolly will come to OFF position<br>It is recommended to test RCCB once a month | By pressing test button, grey dolly will come to OFF position<br>It is recommended to test RCCB once a month |
| <b>Fault indication</b>  | - Earth leakage<br>- Overload and shortcut  | Grey dolly will come to OFF position<br>-   | Grey dolly will come to OFF position<br>-  |
| <b>Resetting</b>   | Switch on grey dolly  | Switch on grey dolly  | Switch on grey dolly   |
| <b>Terminals</b>   | - Rigid<br>- Flexible   | 1 - 35 sq. mm<br>1 - 25 sq. mm  | 1 - 35 sq. mm<br>1 - 25 sq. mm   |
| <b>Type of protection</b>  |   |   |  |
| Earth leakage  | •   | •   | •  |
| Overload   | -   | -   | -  |
| Short circuit  | -   | -   | -  |
| <b>Add on electrical accessories*</b>                                    |   |   |  |
| Auxiliary  | •   | •   | •  |
| Fault signaling  | •   | •   | •  |
| Shunt trip   | •   | •   | •  |
| Under voltage  | •   | •   | •  |
| Over voltage   | •   | •   | •  |

\* - Accessories are mounted on the left hand side of the product.  
At a time a maximum of three accessories can be mounted.  
<sup>(1)</sup> - Between phase and neutral

| RCBO |   |   |   |   |
|------|---|---|---|---|
|      | Type AC   | Type AC - 2 & 4 modules   | Type Hpi  | Type A  |
|      | IS 12640 (part 2) 2008<br>IEC 61009 - 1   | NFC 61 - 410<br>EN 61009 - 1<br>IEC 61009 - 1   | EN 61009 - 1<br>IEC 61009 - 1   | EN 61009 - 1<br>IEC 61009 - 1   |
|      | 4   | 2   | 2   | -   |
|      | 7   | 4   | -   | 4   |
|      |   |   |   |   |
|      | 6, 10, 16, 25, 32, 40, 63   | 6, 10, 16, 20, 25, 32   | 25, 32, 40  | 25, 32, 40  |
|      | 16, 25, 32, 40, 63  | 10, 16, 20, 25, 32  | -   | -   |
|      | 30, 100, 300  | 30, 300   | 30  | 30, 300   |
|      | 30, 100, 300  | -   | -   | -   |
|      | 50  | 50  | 50 / 60   | 50 / 60   |
|      | 230   | 230   | 230   | -   |
|      | 415   | 415   | -   | 415   |
|      | 12  | 12  | 12  | 12  |
|      |   |   |   |   |
|      | 170   | 170   | 170   | -   |
|      | 196   | 196   | -   | 196   |
|      | 500   | 250   | 250   | -   |
|      | 500   | 500   | -   | 500   |
|      | 4   | 6   | 6   | 6   |
|      | <b>As per IS 12640 (part 2) 2008, IEC 61009 - 1</b>   |   |   |   |
|      | 10000 A   | 6000 A  | 6000 A  | 6000 A  |
|      | 10000 A   | -   | -   | -   |
|      |   |   |   |   |
|      | 10000 A   | 3000 A  | 3000 A  | 3000 A  |
|      | 10000 A   | -   | -   | -   |
|      | -   | -   | -   | -   |
|      | -   | -   | -   | -   |
|      | 7500 A  | 6000 A  | 6000 A  | 6000 A  |
|      | 10000 A   | 6000 A  | 6000 A  | 6000 A  |
|      | - 25 to 70  | - 25 to 70  | - 25 to 70  | - 25 to 70  |
|      | 20,000  | 20,000  | 20,000  | 20,000  |
|      | 10,000  | 10,000  | 10,000  | 10,000  |
|      | 1,000   | 1,000   | 1,000   | 1,000   |
|      | 1,000   | 1,000   | 1,000   | 1,000   |
|      | By pressing test button, black dolly will come to OFF position<br>It is recommended to test RCBO once a month | By pressing test button, black dolly will come to OFF position<br>It is recommended to test RCBO once a month | By pressing test button, black dolly will come to OFF position<br>It is recommended to test RCBO once a month | By pressing test button, black dolly will come to OFF position<br>It is recommended to test RCBO once a month |
|      | Black & blue dolly will come to OFF position  | Black dolly will come to OFF position & blue indicator will appear on front face window                       | Black dolly will come to OFF position & blue indicator will appear on front face window                       | Black dolly will come to OFF position & blue indicator will appear on front face window                       |
|      | Black dolly will come to OFF position   | Black dolly will come to OFF position   | Black dolly will come to OFF position   | Black dolly will come to OFF position   |
|      | Switch on black dolly   | Switch on black dolly   | Switch on black dolly   | Switch on black dolly   |
|      | 1 - 35 sq. mm   | 0.75 - 16 sq. mm  | 0.75 - 16 sq. mm  | 0.75 - 16 sq. mm  |
|      | 1 - 25 sq. mm   | 0.75 - 10 sq. mm  | 0.75 - 10 sq. mm  | 0.75 - 10 sq. mm  |
|      |   |   |   |   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |
|      |   |   |   |   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |
|      | •   | •   | •   | •   |