

I/50308/2024

दक्षिण पूर्व रेलवे / South Eastern Railway

(प्रधान मुख्य विद्युत अभियंता का कार्यालय, गार्डन रीच, कोलकाता -700043)

(Office of the Principal Chief Electrical Engineer, Garden Reach, Kolkata-700043)

संख्या /No: eFile Computer No: 255925

दिनांक:/Date: As Signed

**Sr.DEE/G/KGP, CKP, RNC, SRC, ADA, Dy.CEE/WS/KGP, ADEE/G/GRC
CEE/Con/GRC, ED/Electrical/RVNL, GM/Electrical/IRCON**विषय/ **Sub:** Description for Residual Current Circuit Breaker (RCCB)The Description for Residual Current Circuit Breaker (RCCB) as approved by CEGE is being issued herewith under Description no. SER/ELEC/GS/DESCRIPTION/RCCB/REV-0/DEC 2024.**Table 1:** Double pole RCCB**Table 2:** Four pole RCCBDescription no. SER/ELEC/GS/DESCRIPTION/RCCB/REV-0/DEC 2024

Table 1	
Rated Current in Amps	RCCB of double pole, 240V
10, 16, 20, 25, 32, 40	Residual Current Circuit Breaker (RCCB) of rated current __ Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 2, Rated voltage: 240 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated Making and Breaking Capacity-500 A, Rated residual making and breaking capacity- 500 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
63	Residual Current Circuit Breaker (RCCB) of rated current 63 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 2, Rated voltage: 240 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated Making and Breaking Capacity- 630 A, Rated residual making and breaking capacity- 630 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
80	Residual Current Circuit Breaker (RCCB) of rated current 80 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 2, Rated voltage: 240 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated Making and Breaking Capacity (Im)-800 A, Rated residual making and breaking capacity- 800 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
100	Residual Current Circuit Breaker (RCCB) of rated current 100 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 2, Rated voltage: 240 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated Making and Breaking Capacity-1000A, Rated residual making and breaking capacity- 1000 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.

Signature Not Verified

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Rajesh Chandra
Date: 2025.10.11
Time: 10:10:45
Reason: IREPS-CRIS
Location: New Delhi

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Table 2	
Rated Current in Amps	RCCB of Four Pole, 415V
10, 16, 20, 25, 32, 40	Residual Current Circuit Breaker (RCCB) of rated current __ Amps, AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 4, Rated voltage: 415 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated residual making and breaking capacity- 500 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
63	Residual Current Circuit Breaker (RCCB) of rated current 63 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 4, Rated voltage: 415 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated residual making and breaking capacity- 630 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
80	Residual Current Circuit Breaker (RCCB) of rated current 80 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 4, Rated voltage: 415 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated residual making and breaking capacity- 800 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.
100	Residual Current Circuit Breaker (RCCB) of rated current 100 Amps , AC type Conforming to IS 12640 (Part 1): 2008 or latest, No. of Poles 4, Rated voltage: 415 V AC, Rated frequency: 50 Hz, Without time delay, Rated Residual Operating Current- 30 mA or lower, Rated conditional short circuit current and Rated conditional residual short circuit current- 10KA, Rated residual making and breaking capacity- 1000 A, RCCB shall have fixing arrangement for mounting on steel rails of Top Hat section Rail TH:35-7.5 conforming to IS/IEC 60715:2017 (Reaffirmed Year: 2024) or latest.

Divisions, GRC unit and Construction department are advised to ensure the provision of RCCBs in all residential, service buildings in each MCB controlled circuit. DB, Panel etc. should be provided of appropriate size to suit the space required for MCBs and RCCBs.

Digitally Signed by Praveen
Meena
Date: 24-12-2024 19:02:12
Reason: Approved
Dy. Chief Elect. Services Engineer
For Principal Chief Electrical Engineer

Copy to Secy. to PCEE for kind information to PCEE please.

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Signature Not Verified
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RAMESH CHANDRA
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