

RCCB, Series FI-EV, type EV for electric vehicle



BDEV4403

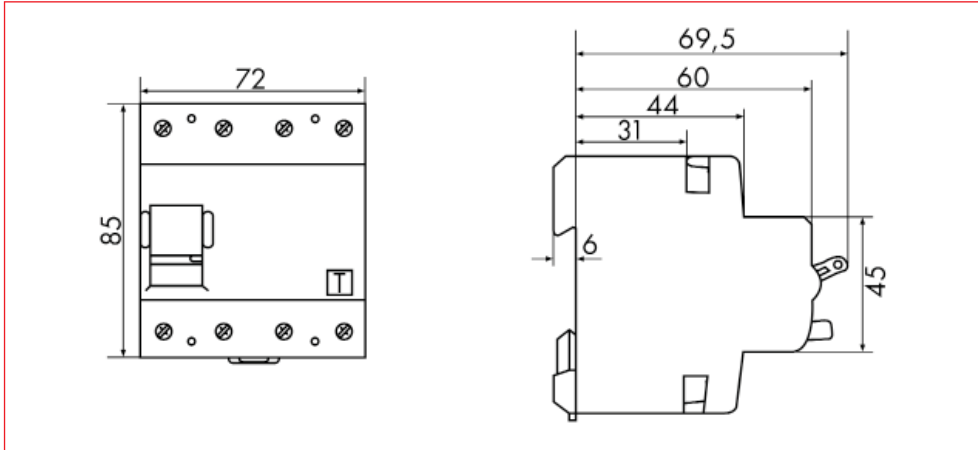
Schrack-Info

- Type EV: Type A, EV-design residual current circuit-breakers (RCCB) detect non-auxiliary-dependent pulsating DC and AC residual currents at the rated frequency in accordance with the requirements of IEC/EN 61008-1 for Type A RCCBs. The integrated additional device, which depends on the auxiliary voltage, detects smooth DC residual currents and triggers safe isolation of the downstream faulty system part from the supplying mains if a value of 6 mA is exceeded.
- 10 ms tripping delay type G
- Tripping independent of line voltage
- Contact position color indicator
- Multifunction switch toggle with three positions: "on", "off" and "tripped"

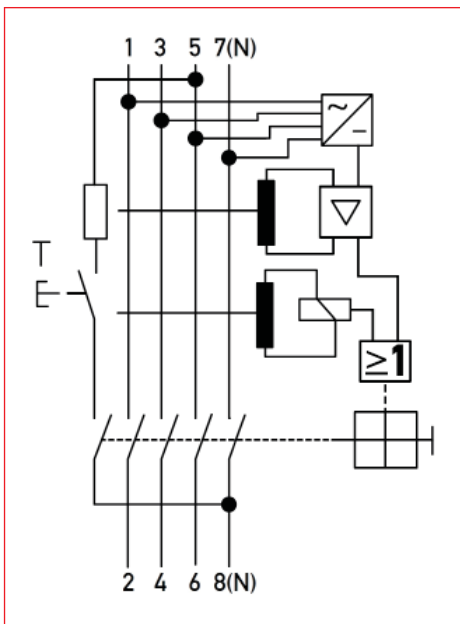
Standards:	EN 61008-1, VDE V 0664-120, E DIN IEC 62752, DIN EN 61000-6-3	
Pole	4-pole	
Rated voltage U_s :	400V-AC	
Rated frequency:	50Hz	
Rated current I_n :	40A	
Tripping-type:	EV (Typ A in version EV), Adetection of smooth DC residual current > 6 mA	
Rated current $I_{\Delta n}$:	30mA	
Delay-type:	short time delay 10ms, according ÖVE/ÖNORM E 8601	
Surge current proof:	>3kA (8/20 μ s), Type G	
Tripping:	line voltage-independent (Type A/AC operation), 50V-AC (Type B operation)	
Rated insulation voltage U_i :	400V	
Rated impulse withstand voltage U_{imp} :	4kV (1.2/50 μ s)	
Rated breaking capacity I_m and rated residual making $I_{\Delta m}$:	500A	
$I_n = 40A$		
Rated short-circuit capacity I_{cn} :	10kA according EN 61008	
Max. back up fuse:	overload (OPCD):	short circuit (SCPD):
$I_n = 40A$	40A gG/gL	100A gG/gL
Operating voltage test-circuit:	250 - 400V-AC	
Endurance:	> 2.000 operating cycles (mechanical > 5.000)	
Lamp strength:	max. 20 electronic ballasts per phase, max. 60 per RCCB (typical, commercially available)	
Tripping indicator:	red / green	
Rated tripping temperature:	-25°C up to +40°C	
Max. storage and transport temperature:	-35°C up to +75°C	
Climatic proofing:	according to IEC 60068-2-30: humid heat / cyclic (25 °C / 55 °C; 93 % / 97 % RH)	
Finger and hand touch safe:	according to BGV A3 (VDE 0660-514)	
Degree of protection:	IP 20 (covered IP40)	
Operating position:	in any position	
Terminals:	Double clamp / lift terminal	
Terminal cross-section:	1-50mm ² solid, flexible or stranded, 2x16mm ² solid, flexible or stranded	
Terminal tightening torque:	2,5-3Nm	
Mounting:	on DIN rail by latching snap-on mounting	
Test interval:	Operate test button of RCCB 1 x every 6 months. The system operator is responsible for this test! Under non-household-type conditions (e.g. humid or dusty environment), it is recommended to carry out the test in monthly intervals. Pressing the test button "T" only tests the function of the residual current (RC) circuit breaker. This test does not replace the earthing resistance measurement (RE) nor the proper protective conductor test that must be performed separately.	

▀ RCCB, Series FI-EV, type EV for electric vehicle

▀ Dimensions

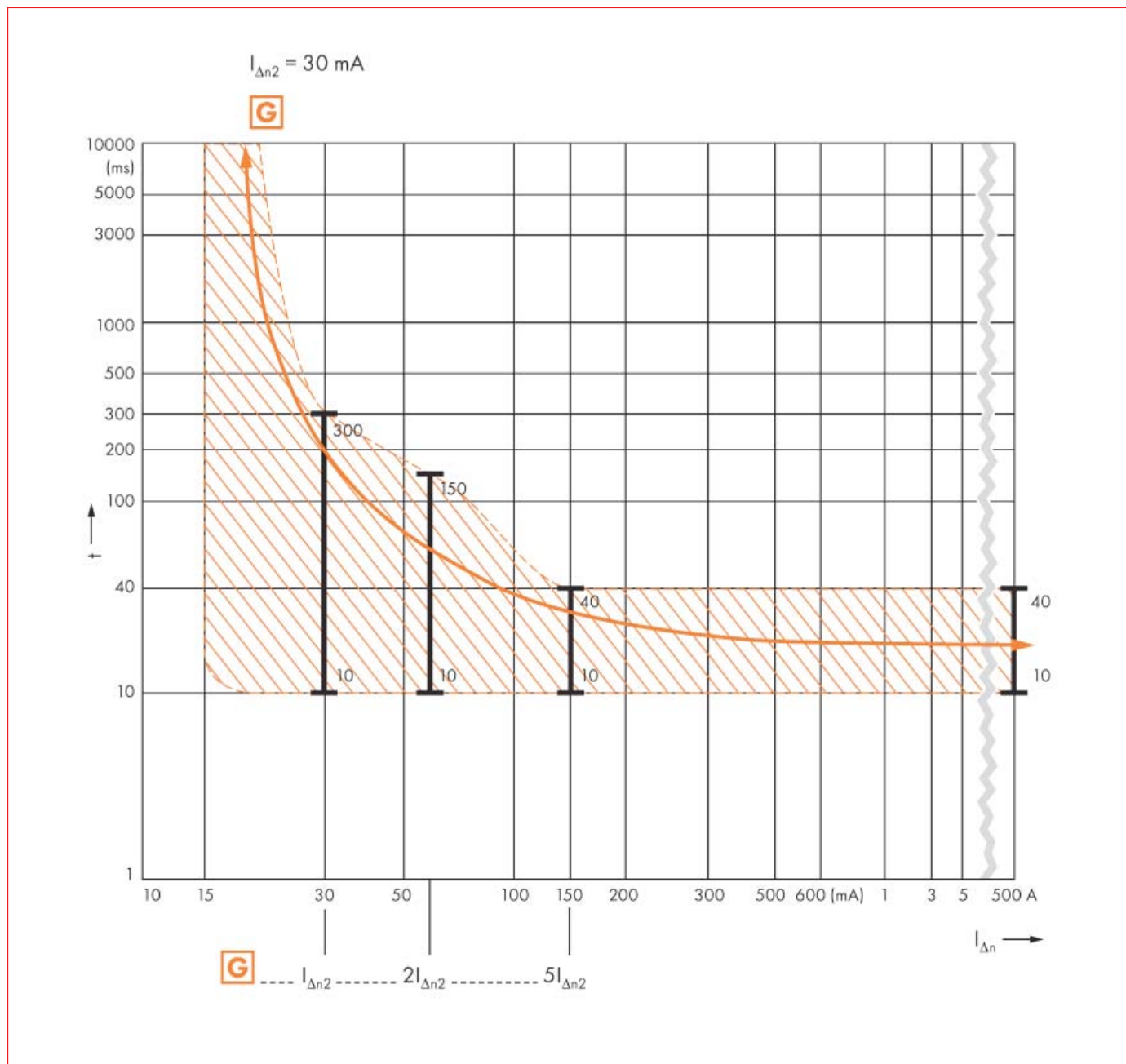


▀ Wiring diagram



▀ RCCB, Series FI-EV, type EV for electric vehicle


▀ Tripping characteristic, delayed (G)



▀ RCCB, Series FI-EV, type EV for electric vehicle, 30mA



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DESCRIPTION	AVAILABLE	ORDER NO.
4-pole Residual current circuit breaker 40A, 4-pole, 30mA, type EV		 BDEV4403