

MEVOCO

MEDIUM VOLTAGE COMPONENTS

THE ONE STOP SHOP FOR MEDIUM VOLTAGE COMPONENTS



RV 50 Load Break Switch

Secured integration for safe and responsible electrical distribution

The development of the **RV 50 Load Break Switch** became the foundation of the revolutionary compact and/or extendable Ring Main Unit. A **casted housing**, a **novel interrupting concept**, **extreme reliability** and **safety provisions** characterize the RV 50 Load Break Switch.

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Drive mechanism

- Components manufactured from special alloyed types of steel.
- Completely prepared for eventual mounting of available options in a later stage (auxiliary contacts, key interlocks, opening and closing coils, etc.).
- Indicators always show the correct position of the switches.
- Indicator directly connected with LBS shaft.
- Manually or motor operated drive (with operating handle).
- LBS and ESW Operating shafts are mechanically interlocked, preventing any incorrect operation.
- No movable parts accessible, preventing any injuries.
- Two main drives:
 - **DA53 - Drive mechanism :**
Combination Load Break Switch and Earthing Switch.
 - **DP50 - Drive mechanism :**
Load Break Switch / Fuse combination and ESW.



DA-53



DA-53-M



DA-53-MM



DP-50



DP-50-M



DP-50-MM

DA-DRIVE MECHANISM

Drive mechanism	DA-53	DA-53-M	DA-53-MM
Load Break Switch function	•	•	•
Earthing Switch function	•	•	•
Manually operated	•	•	•
Motor operated LBS	-	•	•
Motor operated ESW	-	-	•

DP-DRIVE MECHANISM

Drive mechanism	DP-50	DP-50-M	DP-50-MM
Load Break Switch function	•	•	•
Earthing Switch function	•	•	•
3 phase tripping by 1 phase fuse strike	•	•	•
Manually operated	•	•	•
Motor operated LBS	-	•	•
Motor operated ESW	-	-	•



Technical Specifications

Rated voltage	kV	12	17,5	24
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Rated lightning impulse withstand voltage 1.2/50 µsec				
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- To earth and between phases	kV	75	95	125
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- Over the insulated distance	kV	85	110	145
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Rated short time power frequency withstand voltage 1 min.				
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- To earth and between phases	kV	28	38	50
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- Over the insulated distance	kV	32	45	60
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Rated frequency	Hz	50/60	50/60	50/60
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Rated current	A	630	630	630
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Rated short time withstand current 1 sec	kA	25	25	20
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Rated peak value withstand current	kA	63	63	50
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Breaking capacity of the RV 50 (IEC 62271-102, IEC 62271-63)				
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- Mainly active load	A	630	630	630
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- Closed loop distribution circuit current	A	630	630	630
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- Cable charging current	A	25	25	25
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- Making capacity (class E3)	kA	63	63	50
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- Earth faults	A	180	180	180
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- Cable and line charging current under earth fault	A	100	100	100
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Mechanical endurance: 1000 (class M1)
Standards: IEC 62271-105, IEC 62271-102, IEC 62271-63
Certification: KEMA, IPH



Safety at work

The three-position switch RV 50 (ON/OFF/EARTH) is tested in accordance with IEC standards.

The concept ensures a natural interlock (Open, Closed, Grounded) of the primary functions of the cubicle. A short arcing time by optimizing the speed of the mechanical drive and combined with a SF₆ gas rotation for the extinction of the arc. Our experience with the RV 44 switch finds a perfect application here. The switch is of the class E3/M1 (electrical 100 CO operations at 24 kV / 630 A and 1000 mechanical operations) according to IEC 62271-102.



The advantages

Maintenance friendly and fully integrated load break and earthing switch :

- Operation of switch in one mechanical drive with 2 different operating shafts.
- Operating shafts are mechanically interlocked, preventing any incorrect operation.
- Possible combination of other Mevoco mechanical drives and options.

For more information on RV 50 or our other products, contact our sales team: sales@mevoco.be



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