



MAIN FEATURES

40 A

EVO SEPARABLE SWITCH-DISCONNECTOR



KEY FEATURES

- Up to 6 poles + earth
- Smooth sleek design, no visible fastening screws
- Surface mounting dimension restricted to 120 mm
- IP4X on supply side
- IP66/IP67/IP69 tightness in ON and OFF positions when supply and load parts are connected, including when separated using plug caps
- Visible and distinctly obvious breaking
- Manœuvring speed independent of the operator's applied force
- Padlockable in OFF position

A UNIQUE PRODUCT

EVO40 is a manually operated separable switch-disconnector, with configurations from 2 to 6 poles + Earth.

Compliant with IEC/EN 60947-1 and 60947-3 standards, EVO40 allows for frequent making and breaking on load, while ensuring safe isolation of any low voltage electrical circuit: resistive (AC-21A), mixed resistive/inductive (AC-22A) or inductive (AC-23A). EVO40 also allows for on load making & breaking of all electric motors (AC-3), as per IEC/EN 60943-3 standard requirements.

Equipped with self-cleaning silver alloy contact tips and a unique and patented **mechanism**, our new technological concept combines the functionalities of a switch and an isolator.

The design facilitates successive double breaking pole by pole, which ensures optimal safety during any maintenance operation.

EVO FACILITATES THE COMPLIANCE OF:

- electrical machinery to the "Machinery" European Directive on isolating device, and to standards EN 12100 and EN 60204-1,
- electrical installations to installation standards: IEC/HD 60364 and NF C 15-100 (French) or other national transposition.

Once the supply and load parts have been separated, a safety shutter prevents any risk of electric shock (IP4X/IPXXD). The **robust mechanism** allows **distinctly and visibly separated** disconnection and separation even in the event of overload currents.

Thanks to the compact design, **EVO40** can be configured to be panel-mounted or flush-mounted on a wall box with varying angles. Other standard features include: **padlockable** accessory, hidden screws, and a smooth, crevice-free design.

The quality of **EVO40** materials offers flexibility in the most demanding of applications in terms of hygiene, robustness and reliability (IP66/IP67/IP69 and IK09): Halogen-free; UL94-Standard compliant self-extinguishing materials; resistant to hot vapours (tropicalisation as per IEC 60068-2) as well as UVs (class f1), corrosion and chemical agents.

EVO complies with the following standards:

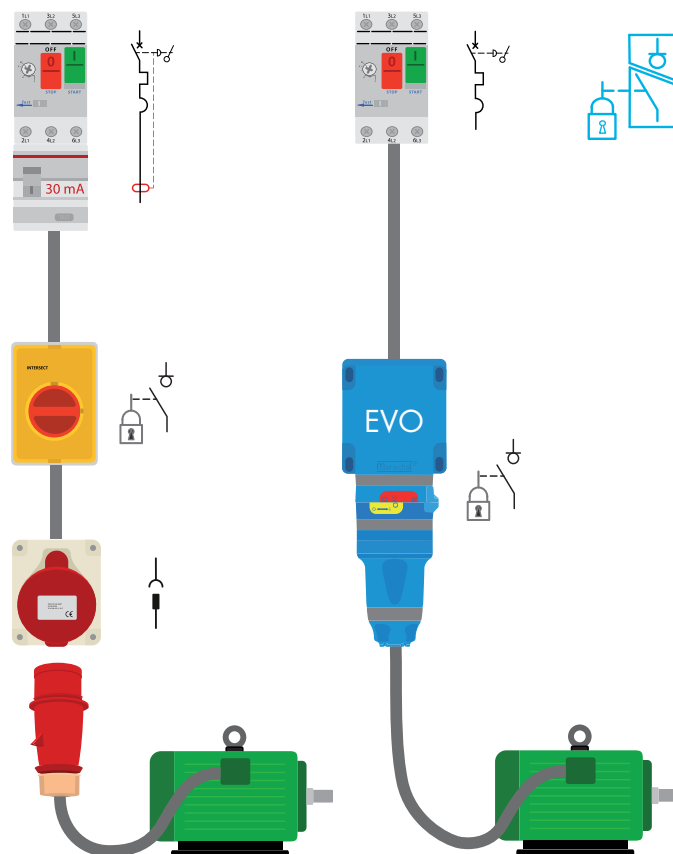
- EC/EN 60947-1/-3/-4/-5 : Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.



EVO is a switch-disconnector with visible and fully apparent breaking. As such, it is not subject to the obligation of a 30 mA residual current device (RCD).

EVO allows:

- continuity of service: no unwanted tripping, no production loss;
- space saving and cost reduction;
- securing and simplifying interventions: for maintenance or replacement of an equipment, EVO can be separated in two parts, by means of a tool, and padlocked. When separated, EVO has an IP4X/IPXXD rating. It is therefore not necessary to use authorized personnel or protection procedures.



Conventional solution

EVO Solution

MAIN FEATURES

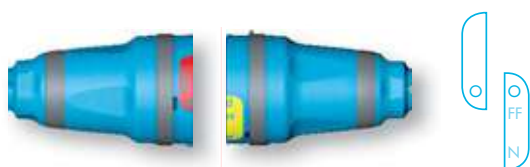
40 A

EVO SEPARABLE SWITCH-DISCONNECTOR

LOAD BREAK ROTARY SWITCH

- Simple operation
- Waterproof in ON and OFF positions

SEPARATED POSITION



POSITION 00



POSITION OFF



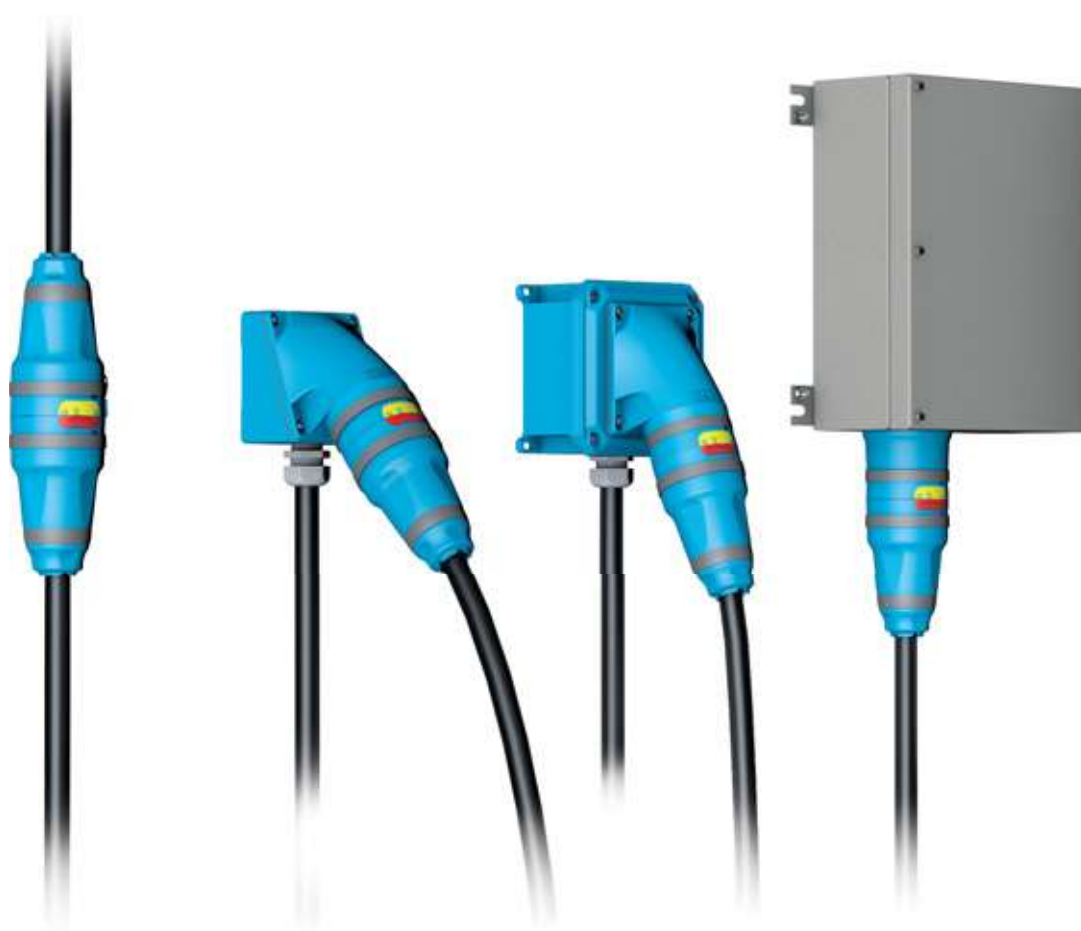
POSITION ON





POSSIBLE INSTALLATIONS

- Inclined sleeve or wall box
- Inclined sleeve on box
- Straight sleeve under box
- Coupler



6 POLES

18,5 kW

690 V
U_{MAXI}

SEPARABLE SWITCH- DISCONNECTOR EVO40



IP66
IP67/IP69



2,5-10 mm² (1)
2,5-16 mm² (2)



GRP



IK09



-25 °C
+60 °C



See table 60947-1/-3/-4/-5



(1) Flexible wiring (min.-max.).
(2) Stranded wiring (min.-max.).



A padlock key is
provided with each
source

SWITCHING CAPACITY








kW/V	230 V	400 V	690 V
AC-21 A/AC-22 A	40 A	40 A	40 A
AC-23 A	11 kW	18,5 kW	18,5 kW
AC-3	7,5 kW	11 kW	11 kW

OTHER FEATURES

Electrical Load cycles	15 000 cycles*
U _i : Rated insulation voltage	1 000 V AC
U _{max} : Operational voltage	690 V
I _{the} : Conventional enclosed thermal current	40 A
U _{imp} : Rated impulse withstand voltage	8 kV
I _{cc} : Rated short-circuit breaking current capacity with gG fuses and aM fuse	100 kA
I _{cm} : Rated short-circuit making current capacity	1 kA

* In AC-23A 690 V AC/40 A service operation.

REFERENCES

							
Voltage	Poles	Supply	Load	Straight sleeve	70° inclined sleeve	Handle ⁽¹⁾	90° wall box ⁽²⁾
200-250 V AC	2P+E	8144032	8148032	51LM0	51LM7	51LP0D21	51LC9000
	3P+E	8144033	8148033				
	4P+E	8144034	8148034				
	6P+E	8144036	8148036				
380-480 V AC	2P+E	8144012	8148012	51LM0	51LM7	51LP0D21	51LC9000
	3P+E	8144013	8148013				
	4P+E	8144014	8148014				
	6P+E	8144016	8148016				
500-690 V AC	2P+E	8144052	8148052	51LM0	51LM7	51LP0D21	51LC9000
	3P+E	8144053	8148053				
	4P+E	8144054	8148054				
	6P+E	8144056	8148056				
Umax 690 V AC	2P+E	8144122	8148122	51LM0	51LM7	51LP0D21	51LC9000
	3P+E	8144123	8148123				
	4P+E	8144124	8148124				
	6P+E	8144126	8148126				
Load side cap IP66/IP67 padlockable		Included	814A426G				

(1) Gland size 5-21 mm.

(2) Without drilling, top entry. Reversible wall box for 50° angle with bottom entry.

ADDITIONAL PADLOCKING KEYS



Packaging = 10

814A541

SAFETY HASP FOR UP TO 6 PADLOCKS



613A541

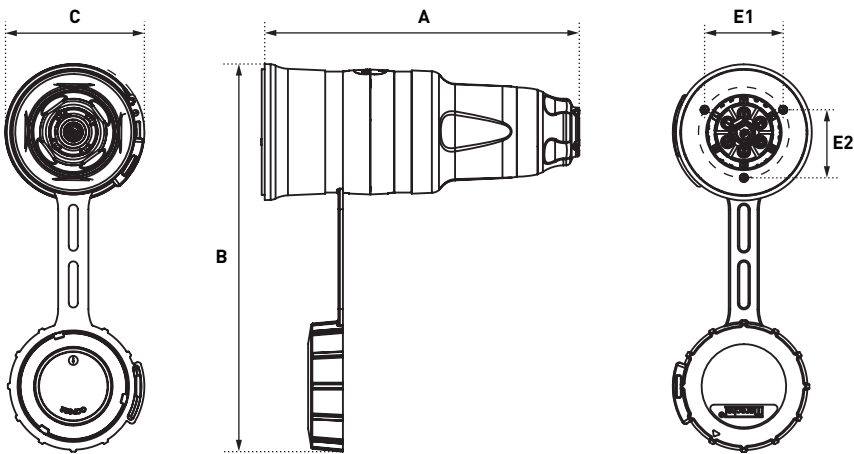


DRAWINGS

AND DIMENSIONS

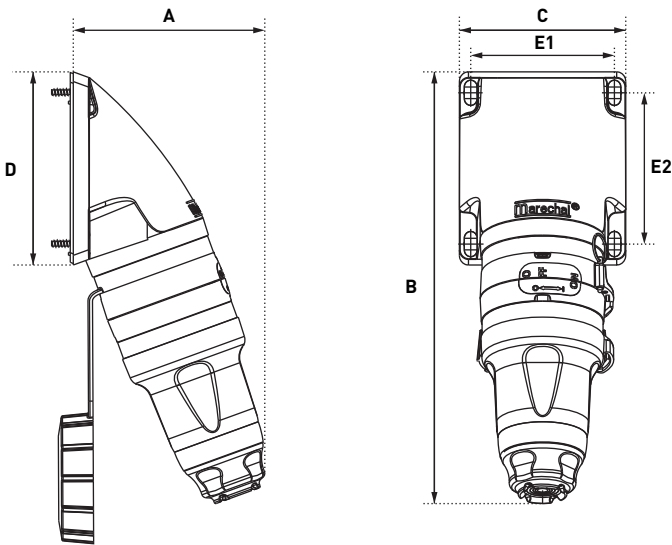
Dimensions are in millimeters.

STRAIGHT SLEEVE



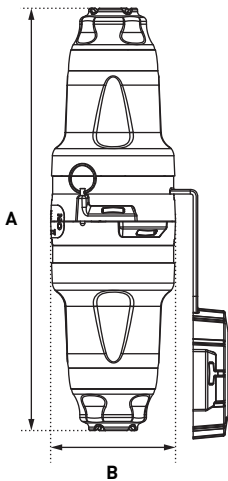
A	B	C	E1	E2
209	256	94	52	45

INCLINED SLEEVE 70°



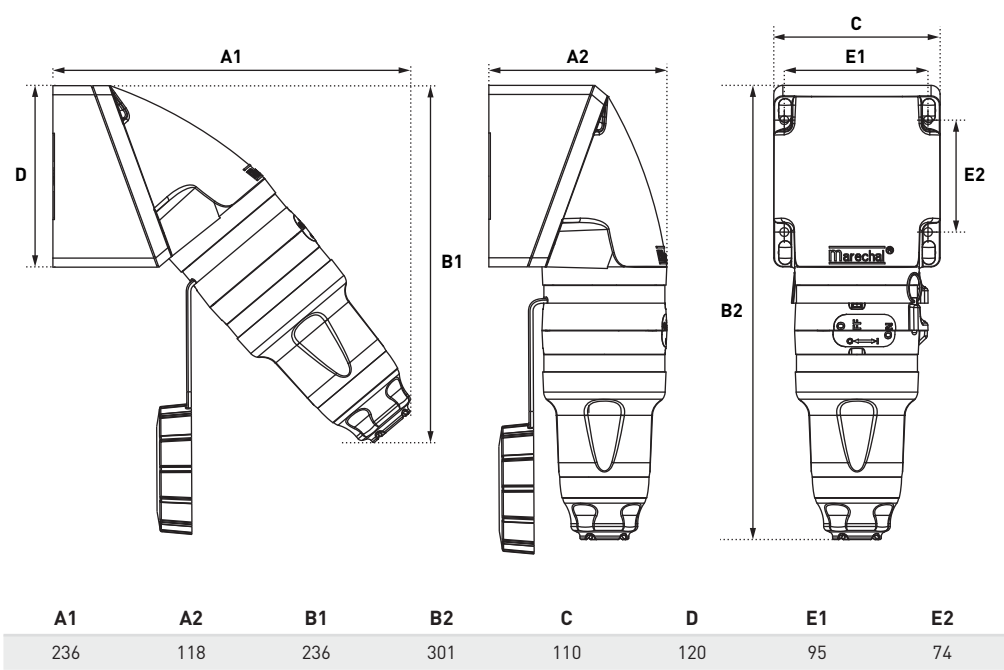
A	B	C	D	E1	E2
127	286	110	128	95	100

ON FLEXIBLE CABLE



A	B
279	81

REVERSIBLE WALL BOX 50° AND 90°



MANCHON 70° SUR BOITIER B2

