

EVO40 is a safety multipolar switch-disconnector with rotary independent manual operation, intended to make/break the current and to ensure the safety isolation of LV electrical circuits.

It is composed of two separable parts, in individual enclosures:
 - An enclosure on the 'supply' side (supply part), and
 - An enclosure on the 'load' side (load part).



EVO40 allows the replacement of failed equipment without specific qualification in a minimum time, without uncabling or disconnecting the power from the supply.

Two stabilized positions OFF / ON which are obtained by rotation from one part to the other one.
 - Double snap breaking and fully visible breaking on each of the 6 poles,
 - Visible breaking by separation of the two parts,
 - Manual operation independent of the action of the operator.



EVO40 can be locked in OFF or ON position.

EVO40 complies with the following regulations and standards(a): European Regulation REACH, European Directives Low Voltage and RoHS (affixing of the CE marking), standards IEC/EN 60947-1 and IEC/EN 60947-3.

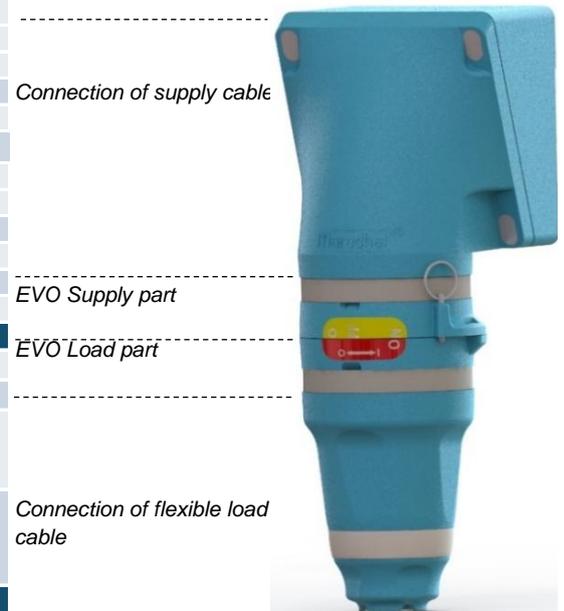
EVO40 is certified by LCIE (France), and Intertek-RETIE (Colombia).

The use of EVO40 facilitates compliance of:

- electrical machinery to the "Machinery" European Directive on isolating device, and to standard EN 60204-1 : Safety of machinery – electrical equipment of machines
- electrical installations:

- * to national regulations relating to the improvement of the safety and health of workers at work in France, Italy, Spain, Belgium,
- * to installation standards: IEC 60364 (international), HD 60364 (European) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.

General information		EVO40
(b)	P_{max}	18.5 kW
(c)	I_{the}	40 A
	U_{max}	690 V AC
(d)	Frequency max. (Hz)	500 Hz
(e)	Number of contacts	6P+E
	Connection (min - max): mm ²	PZ2 screw
	Flexible conductors (Cu): main contacts	2.5 - 10
	Rigid/stranded conductors (Cu): main contacts	2.5 - 16
	Tightening torque - main contacts (Nm)	1.8 N.m
	Wiring lugs	Option
(f)	Pollution degree	3
	I_{cc} : conditional short circuit current (kA)	
	with gG or aM fuse	100 kA
	I_{cm} : short-circuit making capacity	1 kA
	I_{cw} : rated short-time withstand current	500 A
	U_i : rated insulating voltage	1 kV AC
	U_{imp} : impulse withstand voltage	8 kV AC
Other breaking as switch according to IEC/EN 60947-3		
	Category DC-21A : I_n (A) - U_{max} (VDC)	32 - 250
	Category AC-22A : I_n (A) - U_{max} (V AC)	40 - 690
	Category AC-23A : U_e (V AC) - P (kW)	250 V - 11 kW
		400 V - 18.5 kW
		690 V - 18.5 kW
	Category AC-3 : U_e (V AC) - P (kW)	250 V - 7.5 kW
		400 V - 11 kW
		690 V - 11 kW
Number of operations		
(g)	According to IEC/EN 60947-3: in service operation AC-23A	15 000
Insulating distance (mm)		10 mm
Thermal features		
	Temperature of use Min/Max (°C)	-25/+60°C
	Storage temperature Min/Max: (°C)	-40/+80 °C
	Maximal temperature rise (Kmax)	25 K
	Time constant (to reach 63 % of Kmax)	18 mn



EVO40

MARECHAL® TECHNOR® MELTRIC®

Mechanical features	EVO40
(h) Watertightness : connected device	IP66/IP67/IP69
(h) Watertightness: lid/cap closed	IP66/IP67/IP69
(h, i) Watertightness : Supply part without cap (safety shut-off)	IP4X
(i) IK	IK09
(k) Retaining/releasing device	Detent pin
Casing	GRP (poly)
Standard color	MARECHAL® Blue
Resistance to chemical agents	Contact us
Protection against UV (according to UL 746C or equivalent)	f1
Corrosion resistance, marine environment	> 50 000 h
Screws and bolts	Stainless steel
Weight of load part without accessory (≈)	0.2 kg
Weight of supply part without accessory (≈)	0.4 kg

Main options	
Supply part cap	Included
Load part cap	✓
(l) Locking / padlocking	Included for OFF/ON Red locking key

Mounting accessories	
Flush mounting on electrical cabinet	✓
Poly sleeve: angle (°)	0/70
Poly box: angle (°)	50/90
Poly straight handle with built-in cable gland: range take (mm)	5 - 21

Spare parts	
Gaskets	✓

Catalog: [Web link](#)

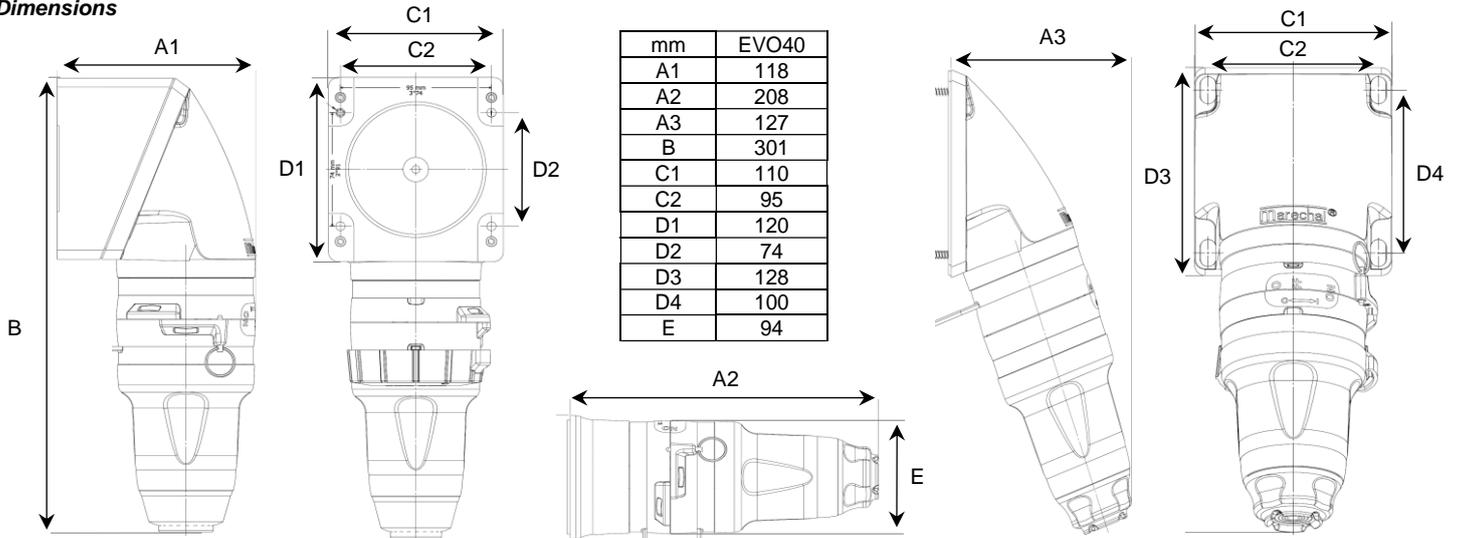
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EVO Load part

EVO Supply part



Dimensions



(a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
IEC/EN 60947-1 : "Low-voltage switchgear and controlgear – Part 1: General rules"
IEC/EN 60947-3 : "Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units"

(b) For use up to an altitude of 2,000 m

(c) I_{th}e : Conventional enclosed thermal current (IEC/EN 60947-1). For an uninterrupted duty

(d) Other frequency: contact us

(e) Contacts with silver-nickel tips (Ag/Ni 85/15)

(f) For a relative air humidity of 50% at an ambient temperature of +40°C

(g) Double breaking of poles by self-cleaning contacts with snap switch-on and switch-off

(h) IP : Degrees of protection provided by enclosures (IEC/EN 60529)

(i) Live contacts are not accessible

(j) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)

(k) GRP : Glass-reinforced technical plastic

(l) The locking in ON position requires to remove a breakaway piece

The red key is used to lock the device. Additional keys: contact us