

EVO

TWIST & SWITCH

The first separable
switch disconnecter



EVO

A UNIQUE PRODUCT.

Once again, **MARECHAL ELECTRIC** are at the heart of innovation with the invention of the first separable switch disconnecter. For even greater safety, we have developed a technology to make your daily life easier. Discover "**EVO**", our new ergonomic and modern invention, created for you.



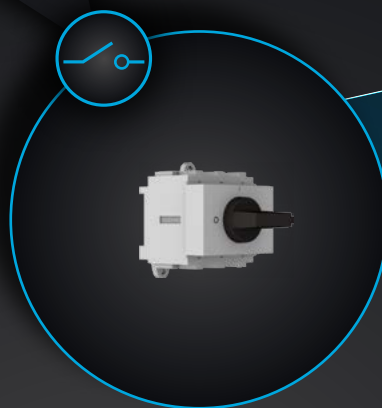
EVO

TWIST & SWITCH



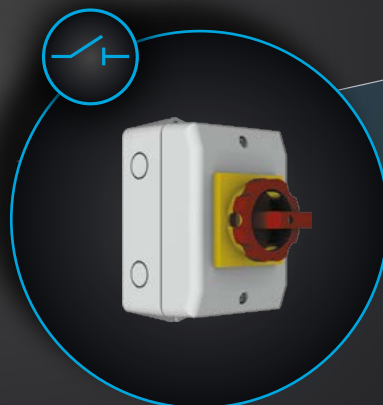
SWITCH

- Function: connect, carry and break the current
- IEC 60947-3 compliance
- AC-3 on load breaking
- Mechanical and electrical endurance
- Padlockable



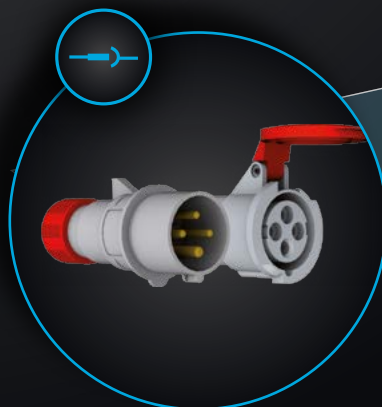
ISOLATOR

- Function: electrical disconnection of the circuit
- Two position (open/closed)
- IEC 60947-3 compliance
- Resistance to short-circuit current
- Padlockable
- Manual control
- Clearly visible isolation



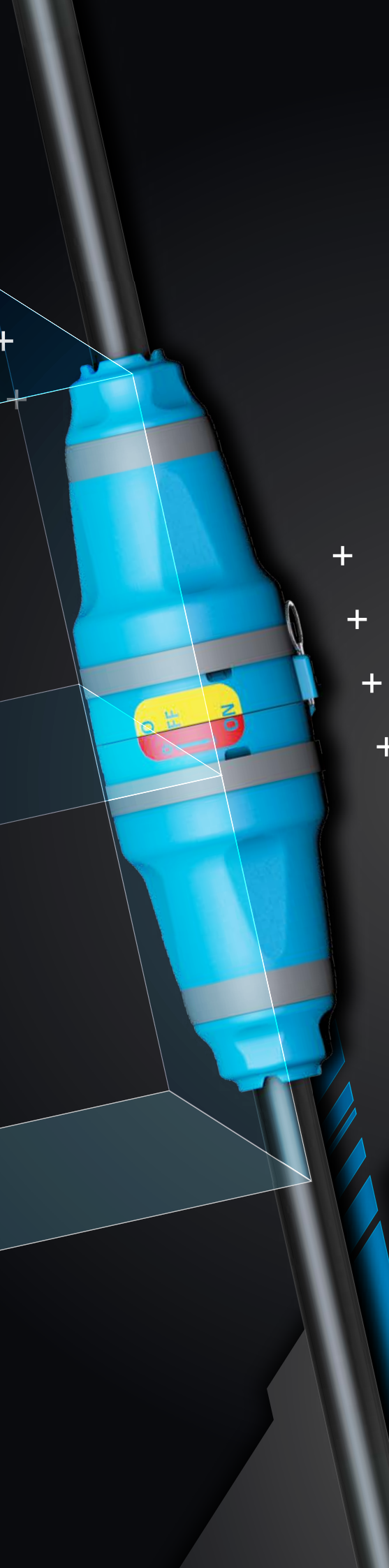
INDUSTRIAL SOCKET-OUTLET

- Function: allows the connection of a circuit
- IEC 60309-1 conformity
- Circuit disconnection



EVO

3 IN 1

- 
- + Detachable isolation
 - + Automatic IP66/IP67 waterproofing in the ON and OFF positions
 - + Sleek design
 - + Reduces space requirements
 - + Reduces installation costs



TWIST & SWITCH



LOAD BREAK ROTARY SWITCH

- Simple operation
- Waterproof in ON and OFF positions

Position 0



Position OFF



Position ON



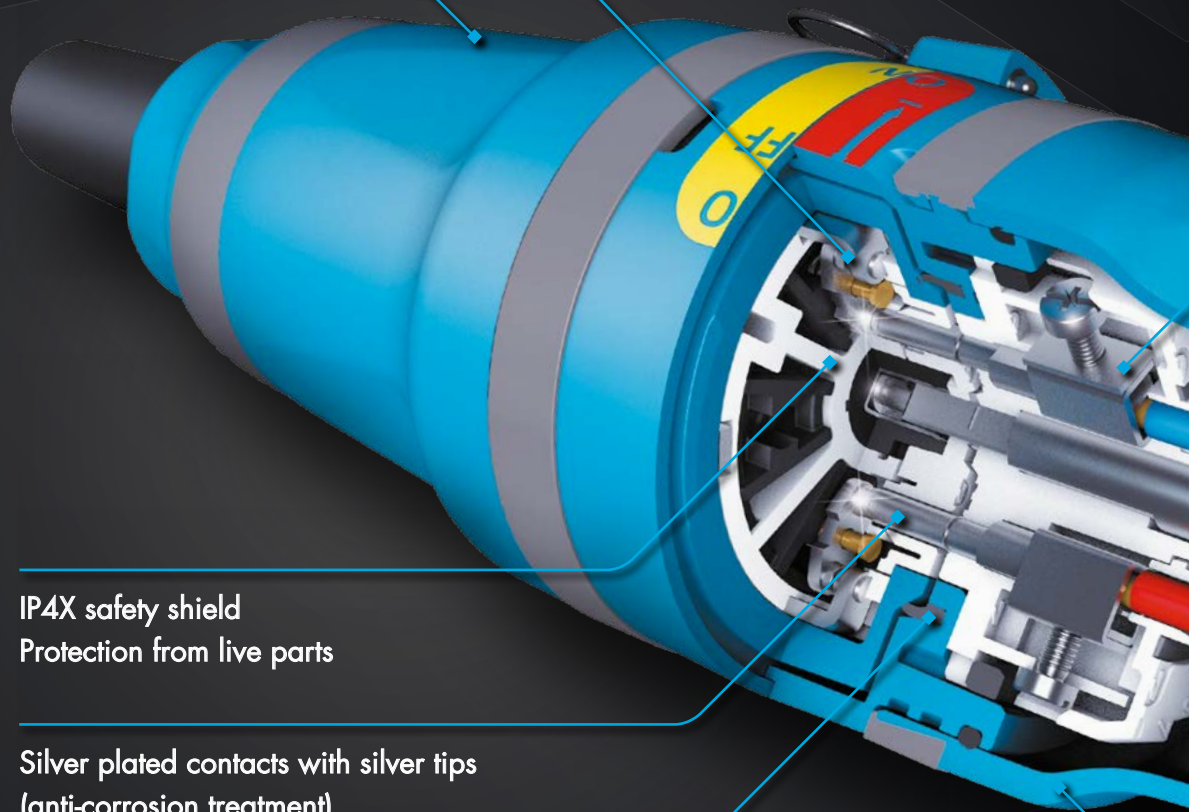
Double break per pole
AC-22/AC-23 (18,5 kW)
AC-3 (11 kW)

Ergonomic handle
Screwless fixings

IP4X safety shield
Protection from live parts

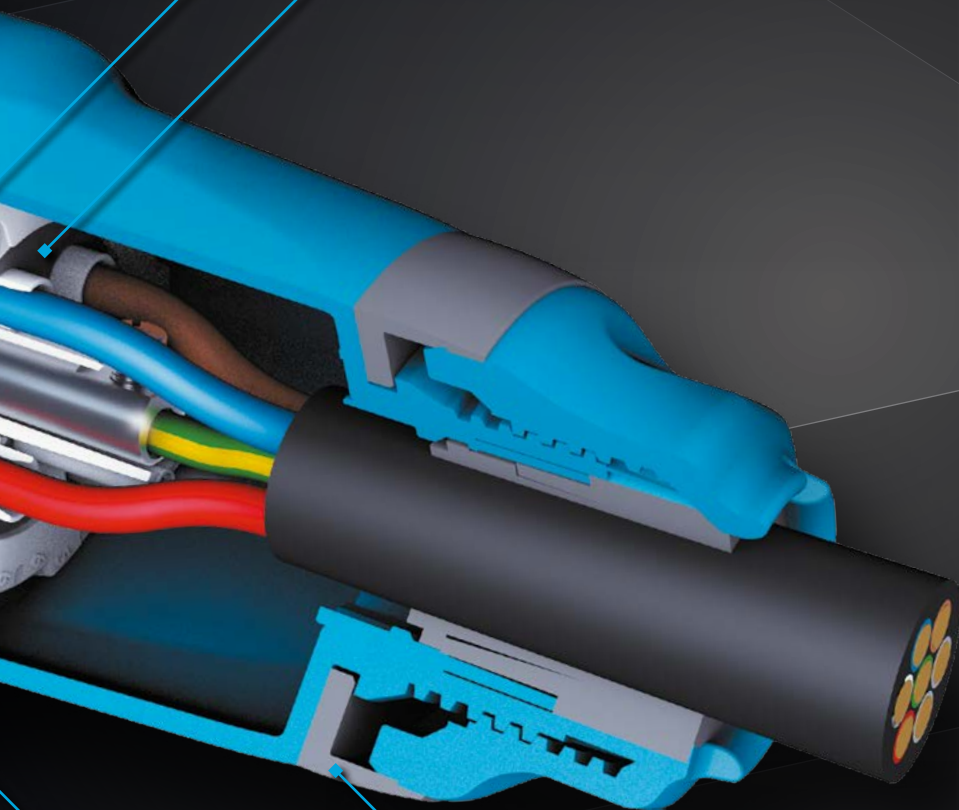
Silver plated contacts with silver tips
(anti-corrosion treatment)

Automatic waterproofing to IP66/IP67
in ON and OFF positions



Cage terminals improving conductivity
and vibration resistance

Colour Coded terminals
1, 2, 3, 4/N, 5, 6



Padlockable
in OFF and ON positions

Protective cover

Tropicalized casing made of GRP
(glass-fibre reinforced) IEC 68-2



1 SWITCH

+ 1 ISOLATOR

+ 1 SOCKET OUTLET

KEY FEATURES

1 switch + 1 isolator
+ 1 socket outlet

Positive, clearly visible
and separable breaking

Disconnection speed independent
of operator use

Automatic IP66/IP67 sealing
in ON and OFF positions

No access to live parts

Smooth crevice free design,
no visible fixing screws

Up to 6 poles + earth

THE BENEFITS

Simplification and economy

100% assured safety

Ease of use

Suitable for harsh
industrial environments

User safety
and compliance with standards

Easy to clean

Ability to connect power
and/or control signals

A RUGGED
AND DURABLE
SWITCH SUITABLE
FOR ALL YOUR
INSTALLATIONS

EVO

In line coupler



On an enclosure



4 POSSIBLE INSTALLATIONS

Wall box



On an
enclosure



TECHNICAL CHARACTERISTICS

Mechanical endurance	> 10 000 cycles
Electrical endurance	1500 cycles
Ui : Rated insulation voltage	1000 V AC/1500 V DC
Ith : Conventional thermal current in free air	40 A
Uimp : Rated impulse withstand voltage	8 kV
Irms : Peak-to-Peak current with fuses (kA)	10 kA
Icm : Rated short-time making capacity (kA peak)	1 kA
Cable cross-section Cu (mm²)	2,5 - 10 mm² flexible
	2,5 - 16 mm² stranded
Degree of protection (IEC 60529)	IP66/IP67
Shock resistance (IEC62262)	IK09
Ambient air temperature	- 25 °C/+ 60 °C
Umax	690 V

SWITCHING CAPACITY

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

COMPLIANT WITH STANDARDS

- **IEC/EN 60947-3/-4/-5 :**

Low-voltage switchgear and control gear:
Switches, disconnectors, switch-disconnectors
and fuse-combination units.

- **IEC/EN 60309-1/-4 :**

Plugs, socket-outlets and couplers for industrial
purposes.

- **IEC/EN 61984 :**

Plugs, socket-outlets and couplers for industrial
purposes.

- **European directive 2006/42/CE,
ISO12100, IEC/EN60204-1 :**

Safety for machines and applications.

EVO40



40 A



IP66/IP67



POLY



IK09

-25°C
+60°CAC23 (18.5kW)
AC 3 (11kW)

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

(1) Without thread, entry upwards. Reversible at 50° with downward entry.

(2) Gland size 5-21 mm.

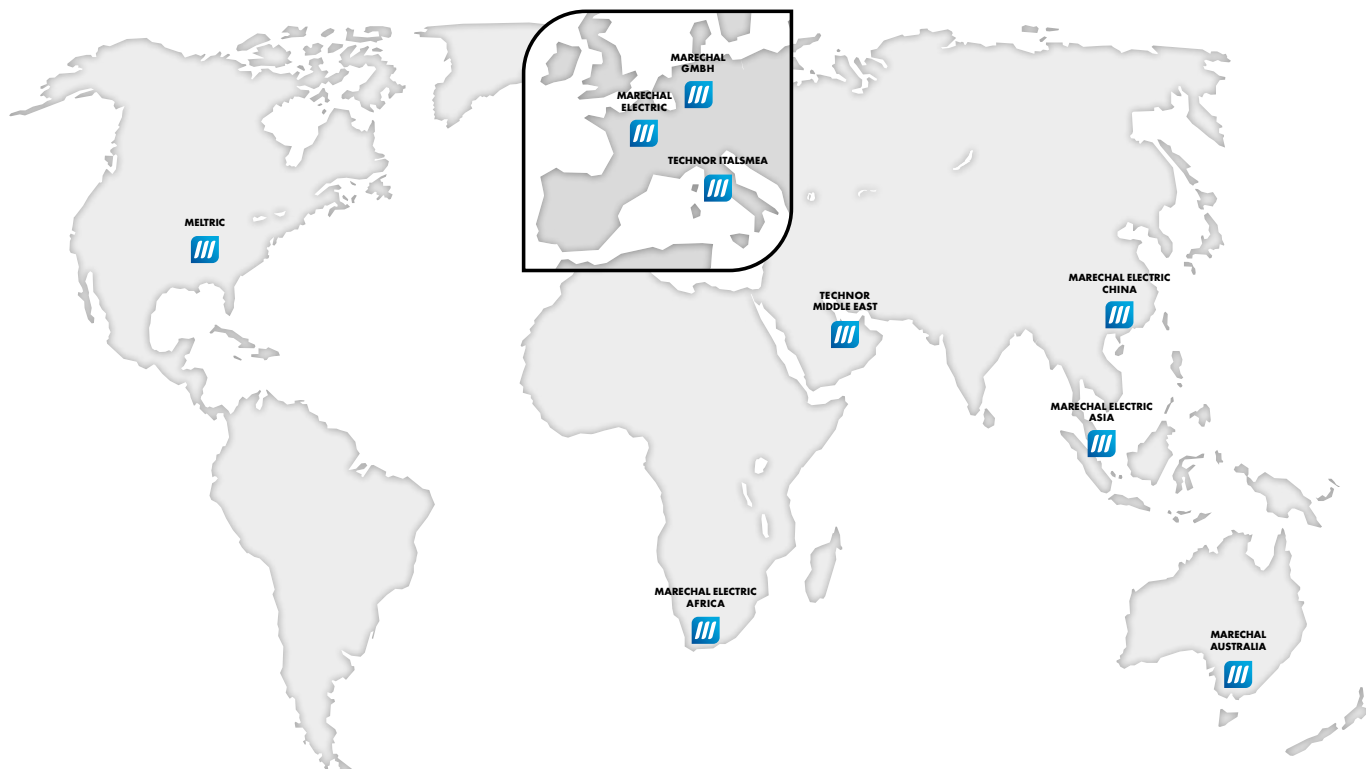
ACCESSORIES

Inlet cap
IP66/IP67

814A426G

Lockout & tagout key
in off and on position

WORLD PRESENCE



THORNE &
DERRICK
INTERNATIONAL

Thorne & Derrick

+44 (0) 191 410 4292

www.heatingandprocess.com