



### DESCRIPTION

The FUC series switch is an indoor three-pole isolator-switch for general use.

For lines ranging from 12 to 36 kV, and with 400 and 630 A.

Supplied with epoxy resin insulators.

Equipped with an auto-pneumatic blowing system, it is equally effective in cutting off charging currents, transformer load currents and off-circuit cables.

The switching is brusque, independent of the operator both on closing as well as on opening. It is achieved by means of a torsion bar located inside the drive shaft. This brusque action mechanism provides the FUC with significant closing power and operating safety.

Manufactured to CEI 62271-103 standards.

### ACCESORIES

#### • **Earthing isolator**

The earthing blades can be assembled on the lower or the upper part of the switch. The FUC/C and FUC/Cm switches can include solely the lower earthing.

The switch is equipped with a mechanical interlocking which prevents the earthing operation from taking place when the main blades are connected.

The switching spindle can be activated from the right or from the left, indistinctly.

#### • **Auxiliary contacts**

The device can be equipped with auxiliary signalling contacts.

#### • **Locking by means of a lock**

The locking of the switch can be performed by means of a HERPE, RONIS or similar lock, in order to lock the device into the connected or the disconnected position. In principle, they are installed in the PM1 or TPS-type switching control, except with lever-operated type 02 or 05 drives, in which case the lock is placed on the end of the switch spindle.

#### • **The FUC/C and FUC/Cm switches can also include the following accessories:**

- PTE-4 type direct-trip thermal relays.
- Current-emission release relay.

### DRIVE

The switching spindle is designed in order to be activated from the right or indistinctly in the FUC/C and the FUC/Cm switches, with the following control transmissions:

#### **Lever 02**

Drive by a lever with an opening on the end for switching by means of a pole.

#### **Lever 05**

Drive by a ball-ended lever for direct switching.

#### **PM1 Type**

Drive by a front ball ended lever, with a transmission connecting rod.

#### **TPS Type**

Drive by step-down gearbox by means of a helical gear and worm screw with a transmission connecting rod.

#### **Built-in control**

All of the switches can be equipped with a stepdown gearbox built into the shaft. (A "/m" is added to the reference of the switch) The built-in control offers two significant advantages:

- Minimum effort in performing switching operations.
- Its installation in civil works is quicker, avoiding assembling adjustments.

#### **Extension Shaft**

An extension shaft can be fitted to all of the transmissions, except for the built-in control, if the control so requires.

## OPERATING ALTERNATIVES

## TIGHTENING TORQUE

**FUC/C:** Combined fuse-breaker switch. Equipped with an automatic tripping device.

The fuses, equipped with a striker, generate the automatic opening of the three poles whenever the striker acts on any one of them.

The automatic opening of the FUC/C can be originated by:

- The strikers of the fuses.
- Direct relays of the PTE-4 type.
- The current-emission release relay.

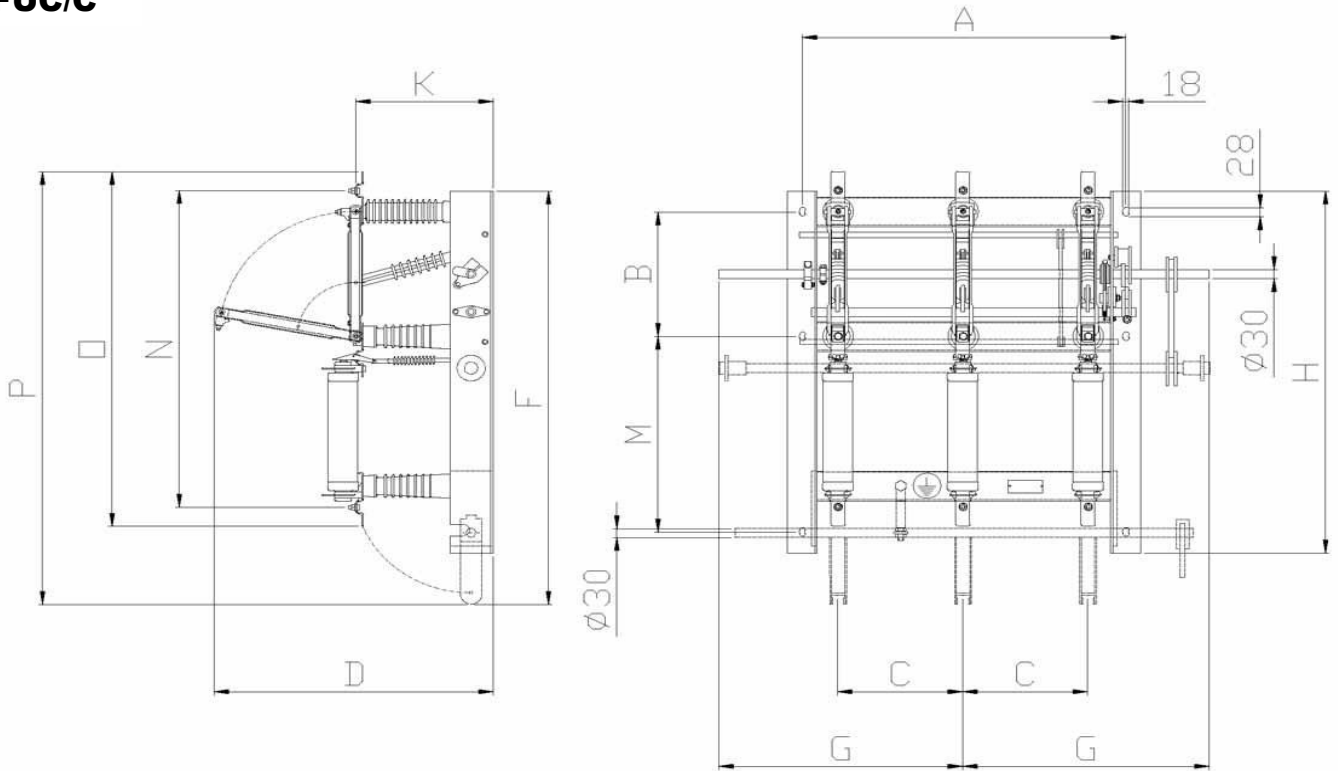
M12 Terminal phase: 20 N.m  
 Earth terminal M16: 45 N.m  
 Base fixings M16: 164 N.m

Figure 1

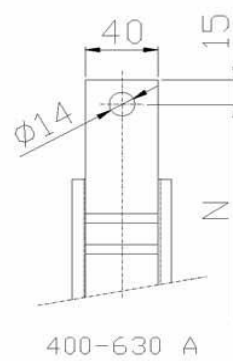
## TECHNICAL CHARACTERISTICS

RATED VOLTAGE	MAXIMUM SERVICE VOLTAGE	RATED CURRENT	LEVEL OF INSULATION		PODER DE CORTE				MAKING CAPACITY	THERMAL LIMIT	DYNAMIC LIMIT
			BETWEEN PHASES AND EARTH	IN ISOLATING DISTANCE	ACTIVE LOAD $\cos \varphi > 0,7$	LOOP LOAD $\cos \varphi > 0,3$	INDUCTIVE LOAD $\cos \varphi > 0,1$	OFF-CIRCUIT CABLES			
kV	kV	A	kV/kV	kV/kV					kA	kA	kA
12	12	400 630	28/75	32/85	400	400	16	63	63	25	63
24	24	400 630	50/125	60/145	400	400	16	63	40	16	40
36.1	36	400 630	70/145	80/165	400	400	16	63	31,5	16	40
36	36	400 630	70/170	80/195	400	400	16	63	31,5	16	40

**FUC/C**



Bornes de contacto/Contact Terminals/Bornes de contact



**DIMENSIONS (mm)**

TYPE	RATED VOLATGE kV	CURRENT A	A	B	C	D	F	G	H	K	M	N	O	P
FUC/C-12	12	400	574	336	210	670	1270	500	945	336	364	850	960	1340
		630												
FUC/C-24	24	400	704	336	275	670	1418	600	1093	336	512	998	1108	1488
		630												
FUC/C-36.1	36	400	1000	450	400	800	1646	740	1262	401	582	1157	1267	1706
		630												
FUC/C-36	36	400	1000	450	400	880	1676	800	1312	431	582	1207	1317	1736
		630												