



### 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, FUC/D 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/D switch 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 from the left, indistinctly, in the FUC, and from the right or indistinctly in the FUC/D switch, 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

**FUC:** Isolator switch operating with load. Not equipped with an automatic tripping device.

Cannot operate with a release relay or direct relays of the PTE-4 type.

**Figure 1**

**FUC/D:** Isolator switch operating with load. Equipped with an automatic tripping device.

Can operate with release relays or direct relays of the PTE-4 type.

**Figure 2**

M12 Terminal phase: 20 N.m

Earth terminal M16: 45 N.m

Base fixings M16: 164 N.m

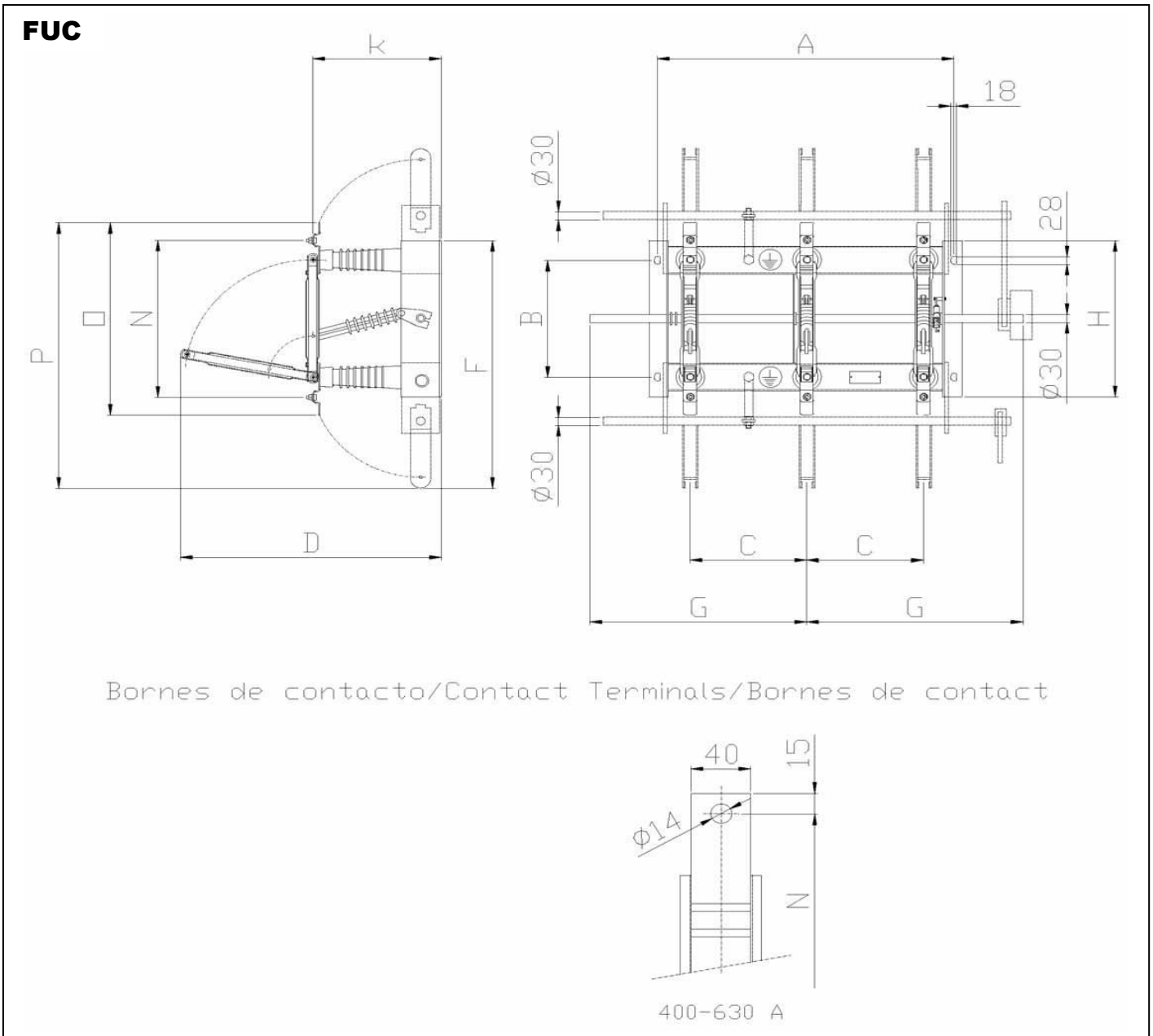
### FUC/D - SEPARATE CHASSIS:

The operating mechanism is exactly the same as that of the FUC/D. The separate chassis is a three-pole fuse carrier base with linkage and transmission combined with the FUC/D so that the melting of the fuse cartridges on account of a short-circuit will bring about the release of the FUC/D switch.

**Figure 3**

## TECHNICAL CHARACTERISTICS

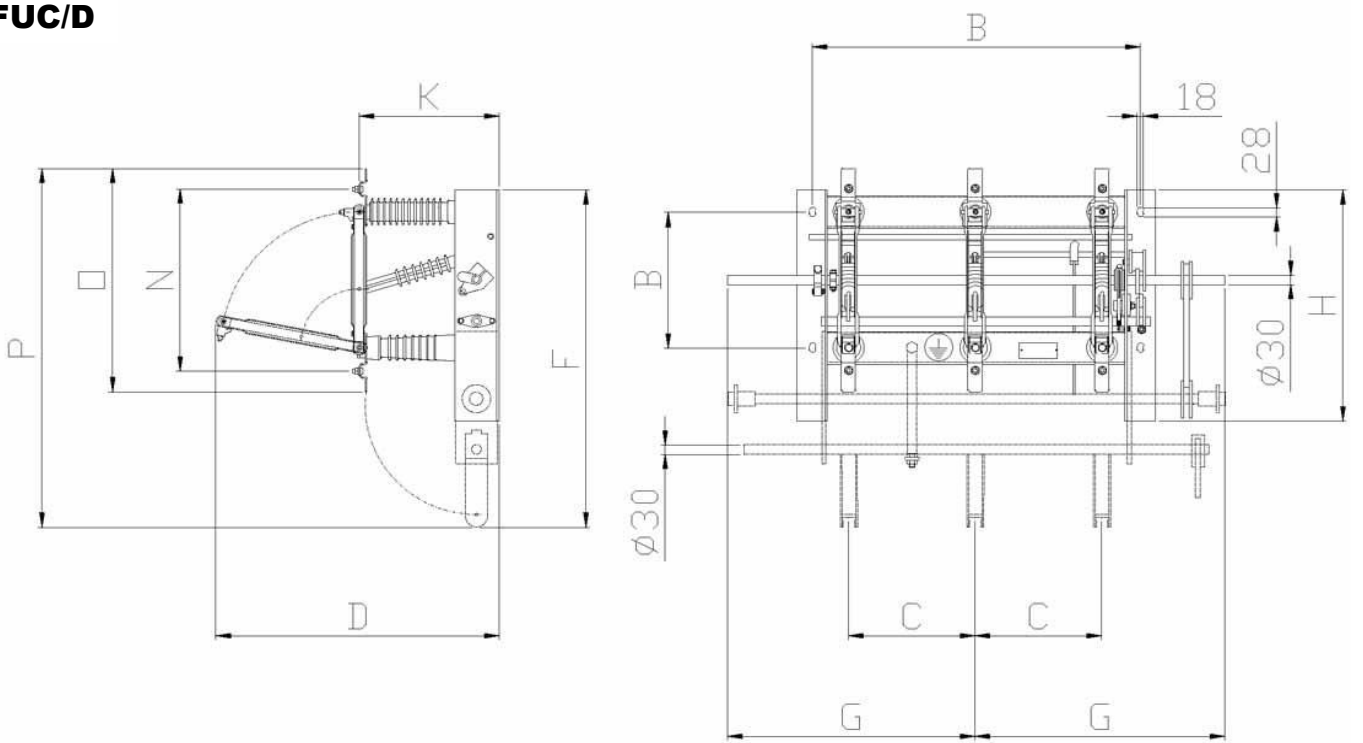
RATED VOLTAGE	MAXIMUM SERVICE VOLTAGE	RATED CURRENT	LEVEL OF INSULATION		DISCONNECTING CAPACITY				MAKING CAPACITY	THERMAL LIMIT	DYNAMIC LIMIT
			BETWEEN PHASES AND EARTH	IN ISOLATING DISTANCE	ACTIVE LOAD $\cos \varphi > 0,7$	LOOP LOAD $\cos \varphi > 0,3$	INDUCTIVE LOAD $\cos \varphi > 0,1$	OFF-CIRCUIT 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



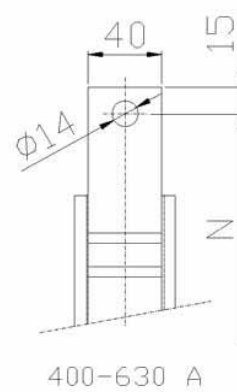
**DIMENSIONS (mm)**

TYPE	RATED VOLATGE	CURRENT	A	B	C	D	F	G	H	K	N	O	P
	kV	A											
FUC-12	12	400	574	336	210	670	773	500	470	336	456	566	821
		630											
FUC-24	24	400	704	336	275	670	773	600	470	336	456	566	821
		630											
FUC-36.1	36	400	1000	450	400	800	906	740	534	401	520	630	979
		630											
FUC-36	36	400	1000	450	400	880	961	800	584	431	570	680	1009
		630											

**FUC/D**

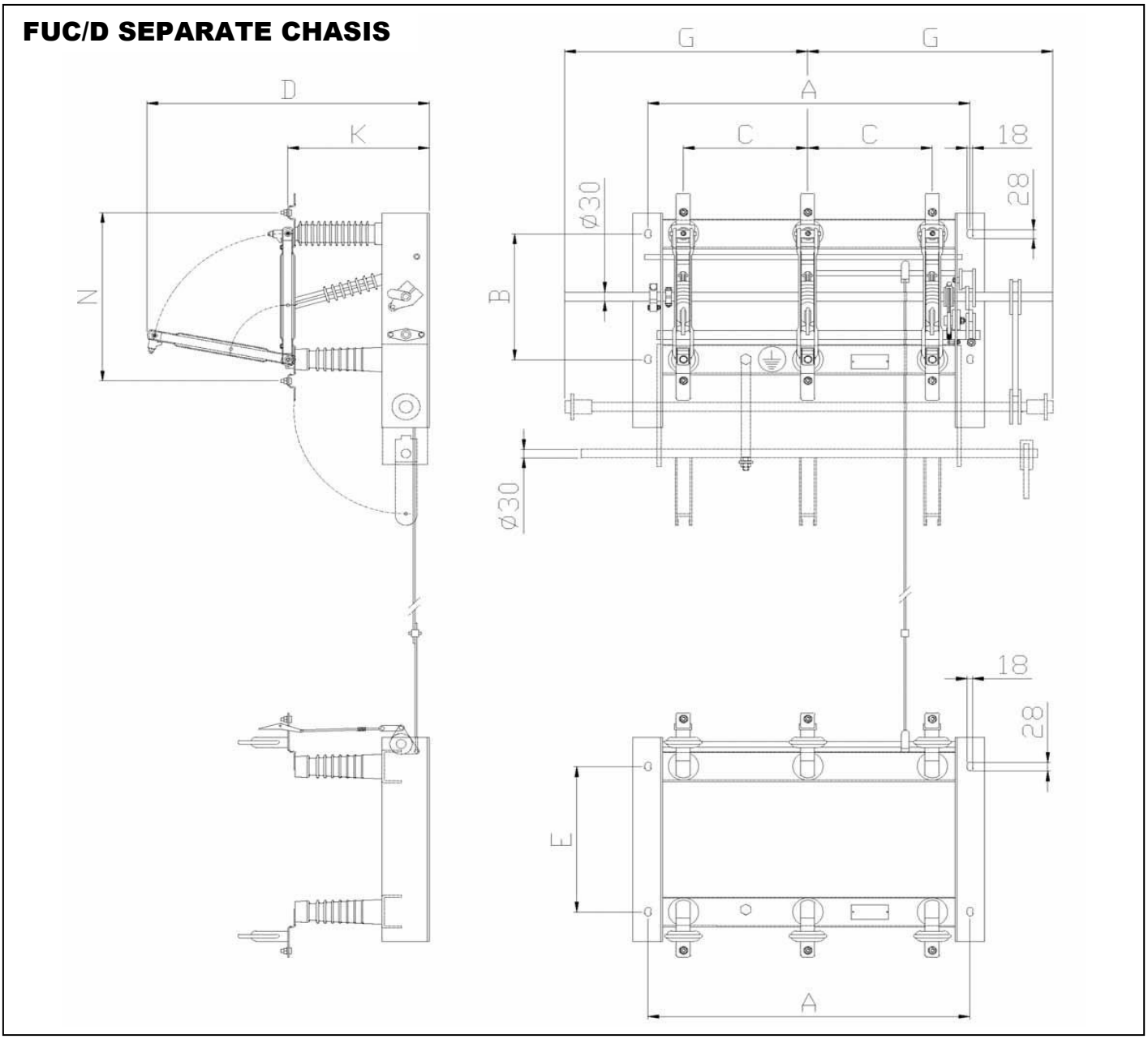


Bornes de contacto/Contact Terminals/Bornes de contact



**DIMENSIONS (mm)**

TIPO/TYPE	RATED VOLATGE kV	CURRENT A	A	B	C	D	F	G	H	K	N	O	P
FUC/D-12	12	400	574	336	210	670	773	500	470	336	456	566	931
		630											
FUC/D-24	24	400	704	336	275	670	773	600	470	336	456	566	931
		630											
FUC/D-36.1	36	400	1000	450	400	800	906	740	534	401	520	630	1054
		630											
FUC/D-36	36	400	1000	450	400	880	961	800	584	431	570	680	1084
		630											



**DIMENSIONS (mm)**

TIPO/TYPE	RATED VOLATGE	CURRENT	A	B	C	D	E	G	K	N
	kV	A								
FUC/D-12	12	400	574	336	210	670	350	500	336	456
		630								
FUC/D-24	24	400	704	336	275	670	350	600	336	456
		630								
FUC/D-36.1	36	400	1000	450	400	800	350	740	401	520
		630								
FUC/D-36	36	400	1000	450	400	880	350	800	431	570
		630								