

**ETNA**  
INDUSTRIE

## THT COMPACT DRIVE



### MAIN FEATURES AND ADVANTAGES

- ✓ Integration of all functions
- ✓ No external piping
- ✓ Electrical connections by "Harting" type plugs
- ✓ No maintenance, only checks
- ✓ Performance reliability, especially at low temperature
- ✓ 60 Hz/2 cycles compatible (short dead time, no inertia of storage module)
- ✓ Low weight, especially for high energy requirements.

### DESCRIPTION

- ✓ 1 hydraulic actuator with integrated opening and closing damper
- ✓ 1 control block driven by 2 coils (one for opening / one for closing). Manual trip and close capability
- ✓ 1 or 2 EC approved hydropneumatic accumulators depending on operating sequences required
- ✓ 1 oil reservoir with filter and level
- ✓ Pressure control unit including:
  - 1 high pressure pump unit powered by 1 universal motor,
  - 1 pressure switch,
  - and 1 safety valve.

### OPTIONS

- |                              |                           |
|------------------------------|---------------------------|
| ✓ Holding in position        | ✓ Oil level alarm         |
| ✓ Automatic / Manual locking | ✓ SF6 tightness           |
| ✓ Two cycle compliance       | ✓ Time measurement        |
| ✓ Auxiliary contacts         | ✓ Position sensor         |
| ✓ Opening time adjustment    | ✓ Double trip closed coil |

### INSTALLATION AND COMMISSIONING

Installation and commissioning are carried out in a few very easy steps:

1. Assemble the drive to the circuit breaker pole
2. Fill the oil reservoir
3. Proceed with electrical connexion of the equipment
4. Proceed with preliminary hydraulic operations
5. Pressurise the drive
6. Ready to operate

## CHARACTERISTICS

### OUTDOOR TYPE

Temperature range: ..... -40 to +60°C  
Option: ..... -50°C  
Protection: ..... IP 43

### COMMAND BLOCK

Voltage of coils: ..... 48 to 250 Vcc  
Power consumption: ..... 300 W

### ACTUATOR

Stroke: ..... 100 to 200 mm  
Energy at last opening: ..... Up to 10 000 J\*  
Opening speed: ..... up to 12m/s  
Opening time accuracy at nominal conditions: .....  $\pm 1$  ms

### PRESSURE CONTROL UNIT

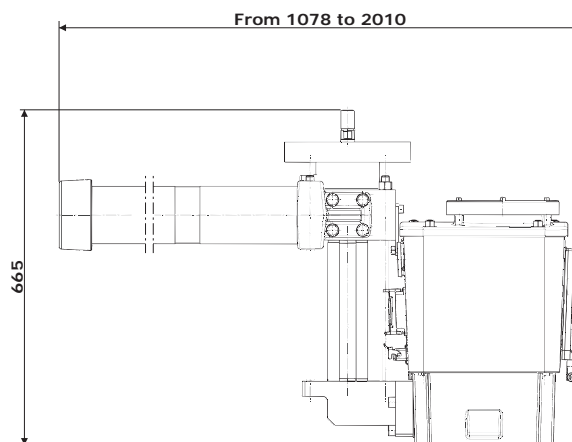
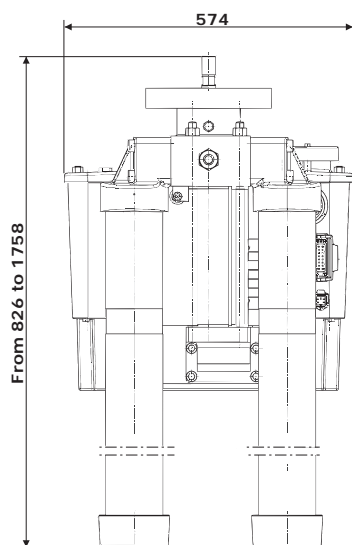
Motor voltage: ..... 110 or 220 V<sub>AC/DC</sub>  
Pressure switch with 6 contacts:  
- Motor control  
- Blocking of: ..... O  
- Blocking of: ..... CO  
- Blocking of: ..... OCO  
- 2 available upon request  
- Sensibility range: ..... 8 - 15 bar  
Incorporated safety valve

### RELIABILITY

Number of operations before inspection: ..... 10.000

### DIMENSIONS (depending on operating cycles and temperature )

Weight: ..... About 250 kg  
Drive equiped with accumulators from 3L to 9L



(\*): 12 000 J on request