



NEW CONCEPT OF DRIVE MECHANISM TYPE "PLUG & PLAY"

Circuit breaker range 145 – 550 kV

MAIN FEATURES

Drive mechanism type « Plug & Play » including :

- Integration of all functions
- No hydraulic connections or piping
- Outdoor type
- Electrical connections by « Harting » type plugs
- Single phase supply voltage motor (Universal motor)

DESCRIPTION

The « Plug & Play » drive components are :

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

OPTIONS :

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

CHARACTERISTICS

OUTDOOR TYPE

Temperature range :	-40°C to +60	°C
Option :	-50	°C
Protection :	IP 34	

DIMENSIONS

Drive equipped with 2x7 l accumulators (HxLxW) :	1450x600x725	mm
Weight :	250	kg

COMMAND BLOCK

Voltage of coils :	48 to 250	Vcc
Dead time		
Closing (300W) :	9	ms
Opening (300W) :	7 to 17	ms
Fast tripping(option) :	4,5	ms

ACTUATOR

Stroke :	100 to 250	mm
Opening energy :	3 000 to 10 000	J
Opening speed :	up to 12	m/s
Opening time accuracy at nominal conditions :	±1	ms

HYDROPNEUMATIC ACCUMULATORS

€C approval		
Maximum allowable pressure PS :	400	bar
Maximum volume :	2x9	l

MOTOR PUMP UNIT

Motor voltage :	110 or 220	V AC/DC
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PRESSURE SWITCH

Number of contacts :	6	
Contact setting range :	180 to 370	bar
Sensibility range :	8-15	bar
Incorporated safety valve		
Opening pressure :	400 +0/-3%	bar
Re-closing pressure :	> 370	bar

RELIABILITY

Number of operations before inspection :	10.000	
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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 connection of the equipment
4. Proceed with preliminary hydraulic operations
5. Pressurise the drive
6. Ready to operate

Do not hesitate to contact us



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