FAMILY E - ES 50
DUAL COIL SOLENOID FOR PULL ACTION OR PULL-PUSH ACTION

SPECIFICATIONS
Rated voltage 12 V DC 24 V DC
Pull current 41 A 23 A
Hold current 0.50 A 0.28 A
Duty service Continuous (100%)
Stroke 40 mm
Force at starting 4.3 Kg
Windings insulation class H (180° C)
Ambient temperature -40° C ÷ 120° C
Weight 1.18 Kg

OPERATION
The solenoid has two windings:
An intermittent-service pulling winding involved in the initial phase for approximately 150 ms, with the function of moving the plunger.
A continuous-service holding winding, with the function of maintaining the plunger in position.
For a proper operation of the solenoid, it is indispensable for the plunger to reach end of travel and to obtain the perfect adherence to the bottom.

AVAILABLE OPTIONS
The desired model has to be defined choosing one option in every column, building in this way the solenoid code.

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**FAMILY E - ES 50**

**DUAL COIL SOLENOID FOR PULL ACTION OR PULL-PUSH ACTION**

**ELECTRIC CIRCUITS FOR DIESEL ENGINES**

**SERIES 1**

**WITH INTERNAL SWITCH**

**DIRECT ELECTRIC CIRCUIT**
The solenoid connection is not conditioned by the polarity (+ and -)
In the version with cables these are blue.

**ELECTRICAL CONNECTIONS**

**SERIES 2**

**WITH INTERNAL SWITCH**

**ELECTRIC CIRCUIT COMBINED WITH STARTER MOTOR**
The solenoid connection feeding the pull coil P and the hold coil T is marked with the indication PULL (red cable) and HOLD (blue cable). The body is connected to ground. The pull coil P is fed in parallel with the starter motor: the red cable connected to the positive of the starter motor and the blue cable connected to the positive of the key switch. The auxiliary switch K ensures disconnection of the coil P and prevents the possible damaging return of parasitic currents.

**SERIES 3**

**WITHOUT INTERNAL SWITCH**
The connection of the solenoid is the same as for the Series 2. The pull coil P and the hold coil T are respectively marked PULL and HOLD.
- Designed for coupling with starter motor.
- Designed for external switch (Code CEI IE04 - timed static electronic switch ideal for dusty or saline environments and in applications with repeated accelerations).

**ELECTRICAL CONNECTIONS**

**ACCESSORIES WITH M6 THREAD**

**OPTIONAL SPRINGS**

**COSTRUZIONI ELETTROMAGNETICHE INDUSTRIALI**

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