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Installation et raccordement
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Field Keypad RTC

Part number: 5690 - 2018.09 / b

LEROY-SOMER™

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1 - GENERAL

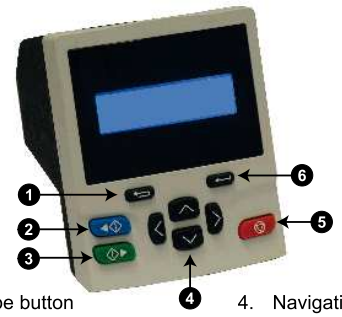
Field Keypad RTC option is a setting remote keypad with real time clock that displays speed and drive status, gives motor commands and sets Commander ID300/302 parameters. It is a multilingual LCD ready to use keypad that needs to be connected to the Commander ID300/302 (2 m cable provided).
Its real time clock allows the user to achieve a Datalogger function.
It also provides a storing function*:
- Drive parameter upload to the keypad
- Keypad parameter download to a drive
- Codesys program upload from drive onboard memory to the keypad

A magnet is located at the back of the keypad allowing the user to place it onto a metallic area. It can be placed on a flat surface too.
This option is internally powered by the drive.

NOTE

Field Keypad RTC conforms to SELV requirements when it is connected to the ID-3 CABLE-RJ45-Flange (with Commander ID300/302 cover closed).

• Do not proceed with any action on the Commander ID300/302 without having read the safety instructions of the Commander ID300/302 installation and quick start commissioning guide ref.5511 (www.commanderID300.info).
• Inappropriate settings may have serious consequences for personnel and machinery.
• For more information about functionalities and commissioning of this option, please refer to the user and technical guide of the Commander ID300/302 réf.5512 (www. commanderID300.info).



1. Escape button
2. Start reverse (Auxiliary button)
3. Start forward
4. Navigation keys (x4)
5. Stop / Reset (red) button
6. Enter button

** Available soon.*

2 - OPTION CONNECTION

2.1 - ID-3 CABLE-RJ45-FLANGE side flange connection

We recommend this connection procedure for a simple and easy use of the keypad.

NOTE

When the Field Keypad RTC is connected via the ID-3 CABLE RJ45 Flange option, Commander ID300 motor and drive becomes IP20.
To obtain a higher ingress protection, use a Remote Keypad RTC or Remote keypad (IP54 or IP65 keypads for through-panel mounting on machine housing or electrical cabinet) connected to the drive via a divisible cable gland. For more information, please contact Leroy-Somer.

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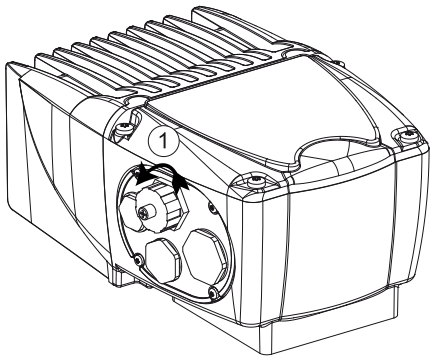
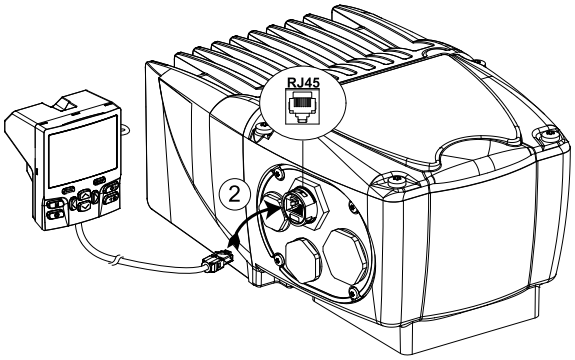
Step 1: Unscrew the protective plug of the side flange RJ45 connector by one quarter-turn.



Step 2: Connect the keypad cable to the connector. Power up the drive if this has not been done already (can be connected when the drive is powered on). Make the required settings for the application.



Step 3: Once settings or diagnostics are finalized, unplug the RJ45 cable from the side flange, and screw the protective plug again.

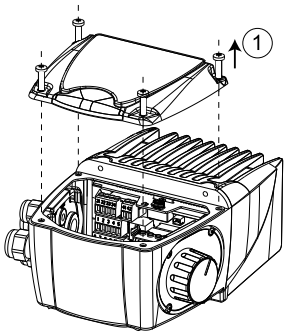
2.2 - Drive internal connection

This connection procedure can be used for first commissioning or one-off setting by an authorized person. In the other cases, the side flange option with RJ45 connector must be used as described in section 2.1.

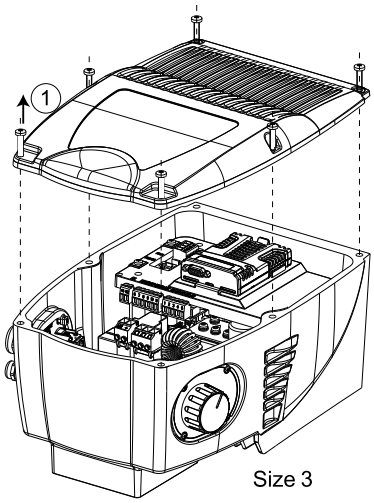
• Install or uninstall Field Keypad RTC option at least 10 minutes after the Commander ID300/302 power down.

• When the cover is open, the Commander ID300/302 degree of protection is IP10. Any work should only be carried out by experienced and qualified personnel. Once the drive powered on, to do the settings with the Field Keypad RTC, an electrical authorization is necessary. If this is not the case, always use the side flange with RJ45 as described in section 2.1.

Step 1: Use a Torx 25 screwdriver to unscrew the cover.

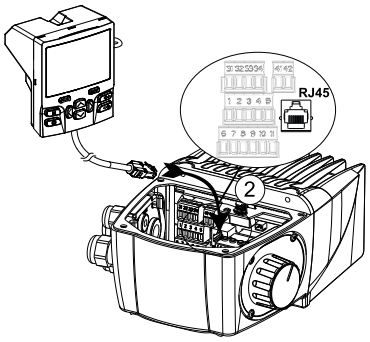


Size 1 or 2

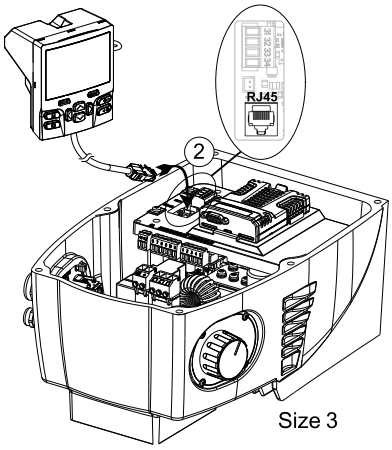


Size 3

Step 2: Connect the RJ45 keypad cable to the Commander ID300/302 connector.



Size 1 or 2



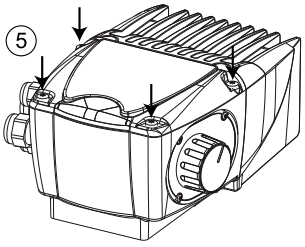
Size 3

Step 3: Power on the drive. Make the required application settings with the keypad.

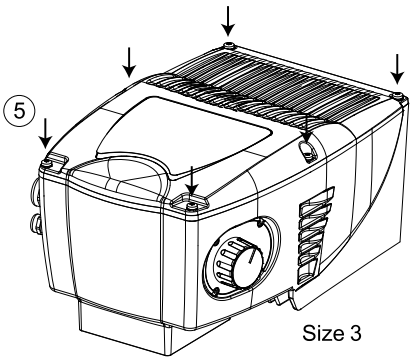
Step 4: Once settings are finalized, power down the drive. Wait 10 minutes then unplug the RJ45 connector from the drive.

Step 5: Screw the cover again on the drive.

Adhere to the tightening torque (2 N.m for sizes 1 or 2 and 5 N.m for size 3) in order to avoid damage to the threading and to maintain IP55 protection. Avoid damaging the seal of the drive cover.



Size 1 or 2



Size 3

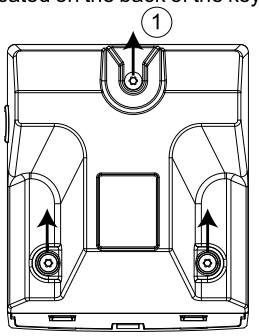
3 - REAL TIME CLOCK BATTERY REPLACEMENT

A long life battery is integrated to ensure that the keypad clock still works when the drive is powered down. When the battery is low, the icon is displayed.

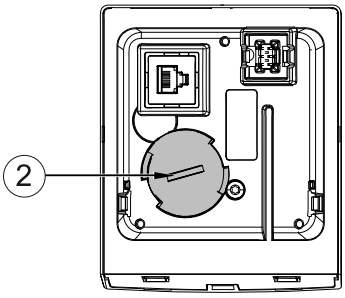
NOTE After withdrawal of the used battery, recycle it.

Before unscrewing the keypad, ensure it is not connected to the drive and powered off.

Step 1: Unscrew the 3 screws located on the back of the keypad. Use a Torx 10 screwdriver.



Step 2: To remove the battery cover, insert a flat head screwdriver into the protection cover slot as shown, push and then turn anti-clockwise.



Step 3: Replace the battery (type CR2032) then place the cover again, push and turn clockwise with the screwdriver to lock the cover.

Step 4: Screw again the screws of the keypad back cover (setting torque 1.2 N.m) ensuring the cable will not be damaged (place it again in the required slot).