



**NOTE:**

- (1) Cat6 S/FTP Ethernet cable is recommended.
- (2) The devices must be connected to an Ethernet cable via the RJ45 female port (W12) of the Ekip Com IEC 61850 Module.
- (3) It is necessary to use Ethernet Switch 10/100 MBit/s with a sufficient number of ports to connect all the devices using Ekip Com IEC 61850. The choice and installation of the Ethernet Switch is responsibility of the customer.
- (4) The maximum length of the Ethernet cable from the Ekip Com IEC 61850 module to the Ethernet Switch device is 100 m (Ethernet Cat6 S/FTP cable)
- (5) It is possible to configure the Ekip Com IEC 61850 modules with a computer-connected device using PCM600 and Ekip Connect software and Ekip Programming Unit or Ekip T&P.
- (6) Devices equipped with Ekip Com IEC 61850 can be connected with up to 4 clients simultaneously.
- (7) Icd file and map of the releases are available on ABB library, "Communication System Interface".
- (8) For more information, see the IEC 61850-7-12 and IEC 61850-8-1 standards.
- (9) Tmax XT2, XT4 in the configuration with Ekip Touch or Touch Measuring or Ekip Hi-Touch or Ekip M Touch + Ekip COM IEC 61850 (internal module). Breakers with internal communication module are supplied from factory with 1 meter Ethernet cable already connected to the trip unit.

- Tmax XT5 in the configuration with Ekip Touch or Touch Measuring or Ekip Hi-Touch or Ekip M Touch or Ekip G Touch or Ekip G Hi-Touch + Ekip COM IEC 61850 (internal module)
- (10) Tmax XT2, XT4 in the configuration with Ekip Touch or Touch Measuring or Ekip Hi-Touch or Ekip M Touch + Ekip Cartridge + Ekip Supply + Ekip Com IEC 61850
- Tmax XT5 in the configuration with Ekip Touch or Touch Measuring or Ekip Hi-Touch or Ekip M Touch or Ekip G Touch or Ekip G Hi-Touch + Ekip Cartridge + Ekip Supply + Ekip Com IEC 61850
- (11) Tmax XT7 in the configuration with Ekip Touch or Touch Measuring or Ekip Hi-Touch or Ekip M Touch or Ekip G Touch or Ekip G Hi-Touch + Ekip Supply + Ekip Com IEC 61850
- (12) Ekip Cartridge 4 Modules version
- (13) Ekip Cartridge 2 Modules version
- (14) Connect the positive polarity supply cable to terminal K1 and the negative polarity supply cable to terminal K2.

Ekip Supply Module		
Supply	Ekip Supply DC	Ekip Supply DC/AC
Primary Voltage	24 - 48 V DC	110-240 V AC/DC
Voltage range	21,5 - 53 V DC	105-265 V AC/DC
Frequency range	-	45-66 Hz
Nominal power	10 W max	10 VA/W max



Communication System Interface

1		FIRST RELEASE	GM	PS	MB	04/07/19
EM. Issue	DESCRIZIONE - Description		COMPL. Drawn up	VERIFIC. Chk'd	APPROV. App'd	DATA Date
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<p>TITOLO - Title</p> <p>CONNECTION SCHEME TMAX XT WITH IEC 61850</p>						
IMPIANTO - Plant	DATA - Date	SCALA GRAFICA - Graphic scale	RIF. CLIENTE - Client ref.			
XXX	XXX	XXX	XXX			