

New SACE Tmax XT moulded-case circuit-breakers for motor protection

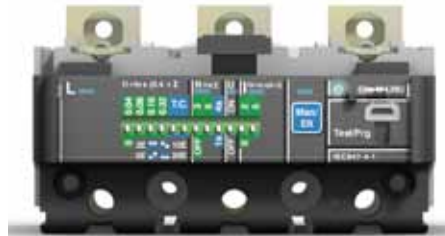
Motor starting is a particularly critical phase for both the motor itself and for the plant supplying it, and rated operation also needs to be monitored and suitably protected in order to deal with any malfunctions.

ABB SACE offers a new range for motor protection up to 250A, with solutions suitable for all installation requirements and under the most critical short-circuit conditions even at high voltages: from starting with a magnetic only circuit-breaker, to which an external thermal relay must be associated, to advanced starting which incorporates the protection against overload and against short-circuit in a single device.

The SACE Tmax XT family for motor protection is made up of three frames which cover applications up to 250A, with short-circuit currents up to 150kA@415V and 90kA@690V:

- XT2 160A
- XT3 250A
- XT4 160 – 250A

Magnetic only adjustable trip units with magnetic threshold up to 14 times the rated current are available for Tmax XT2, XT3 and XT4. The magnetic only trip units are the most common solution in start-ups foreseeing the use of an external thermal relay and a contactor.



Furthermore for XT2 and XT4, three interchangeable electronic trip units are available; Ekip M-I, Ekip M-LIU and Ekip M-LRIU, which allow integrated motor protection.

Ekip M-I, available only for XT2, is the basic trip unit used for motor protection. With Ekip M-LIU, protection against overload (with thermal memory) is guaranteed by selecting a trip class among 3E, 5E, 10E, 20E in accordance with the IEC 60947-4-1 Standard; protection against short-circuit with adjustable threshold up to 13 times the setting and protection against phase unbalance.

The Ekip M-LRIU trip unit is even more advanced and, in addition to the above, allows protection against rotor lock, and the possibility of carrying out setting electronically by means of communication or the Ekip T&P programming and test accessory, as well as other protection

functions, among which is protection G against earth faults, thereby avoiding use of an external toroid.

Special LED on the front of these electronic trip units indicate which protection caused circuit-breaker opening.

Both circuit-breakers are also suitable for operation either in plants at 50/60Hz or in plants with frequency at 400Hz.

Contact us

ABB SACE

A division of ABB S.p.A.

L.V. Breakers

Via Baioni, 35

24123 Bergamo - Italy

Tel.: +39 035 395 111

Fax: +39 035 395306-433

www.abb.com

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