Film Capacitors - Power Factor Correction

Harmonic Filter Reactor

Series/Type: **B44066D7025M481**
Ordering code: **B44066D***M***

Date: April 2018
Version: 1

EPCOS AG is a TDK Group Company.

Characteristics

- Highest linearity
- Temperature control via micro switch in inner coil
- International approvals
- Highest life time by high quality materials
- Low losses
- High overloading capability
- Safety device, temperature micro switch
- Low noise

Technical Data

De-tuning factor p [%]:	7
Effective filter output Q_C [kvar]:	25
Rated voltage V_R [V]: [1)]	480
Rated frequency [Hz]:	60
Ambient temperature / Insulation class:	T40/B
Capacitance C delta (tot.) [µF]:	267.5 (= 3 x C delta)
Inductivity L [mH]:	3 x 1.841
Linear up to [A]:	58
Effective current I_{rms} [A]: [2)]	34.1
Rated harmonic voltages ($1^{st}/3^{rd}/5^{th}/7^{th}/11^{th}/13^{th}$) [%]:	106 / 0.5 / 6 / 5 / 3.5 / 3
Temperature protection (NC) :	yes
Total losses P_D [W]:	130
Total weight [kg]:	19

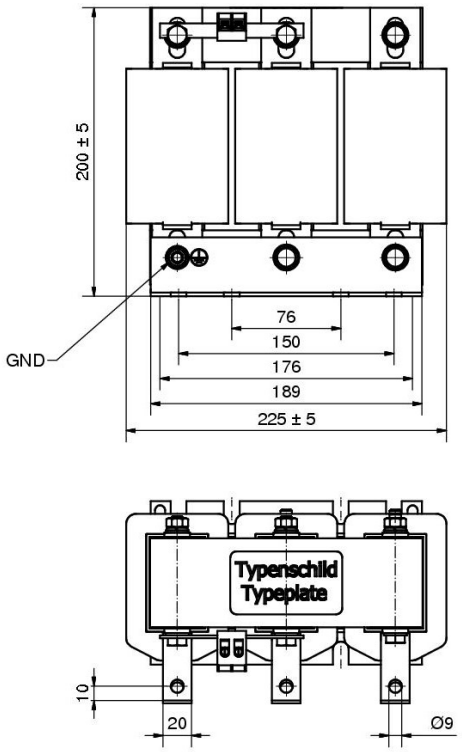
[1)] Voltage rise up to 106% of rated voltage is considered in current I_{eff}.

[2)] $I_{eff} = \sqrt{(I_1^2 + I_3^2 + ...I_x^2)}$

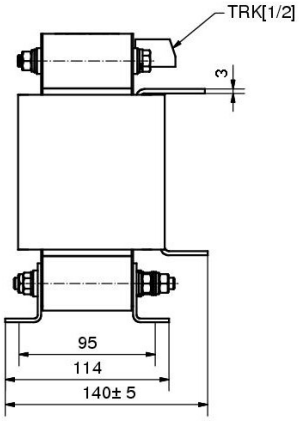
Connection

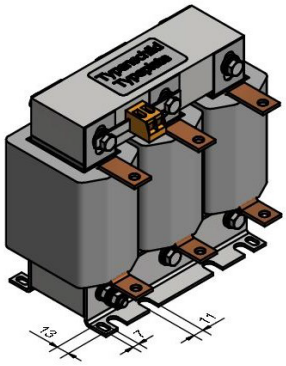
Line:	1U1-1V1-1W1
Capacitors:	1U2-1V2-1W2
Temperature control:	1-2

Dimensional drawing (mm)



Connection diagram





Cautions and warnings

- Do not install the reactor in case of any visible damages.
- Installation must be done by skilled personnel only.
- Do not use or store harmonic filter reactors in corrosive atmosphere, especially where chloride gas, sulphide gas, acid, alkali, salt or similar substances are present.
- Do not touch the device during operation: all electrically active parts of this equipment such as windings, electronic components, leads, fuses and terminals carry a dangerous voltage which can lead to burns or electric shock.
- Covers which protect these electrically active parts from being touched must not be opened or removed during operation.
- Before any assembly or maintenance work is started, all installations and equipment must be disconnected from the power source.
- Noncompliance with these instructions may lead to death, serious injury or major damage to equipment.

FAILURE TO FOLLOW CAUTIONS MAY RESULT, WORST CASE, IN PREMATURE FAILURES OR PHYSICAL INJURY.

Note

For detailed information about PFC capacitors and cautions, refer to the latest version of EPCOS PFC Product Profile.

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