

General information

Modular transformers

The new TM and TS extend the proven System pro M compact® series with a wider range of modular transformers. They have been designed to provide SELV protection according to worldwide international standards.

Power for SELV circuits in households, tertiary and industrial applications is supplied by transformers that guarantee separation between circuits and keep the end user protected from accidental contact. Installed on DIN-Rail, they can be integrated in consumer units and be used for discontinuous and continuous applications.

The range of System pro M compact® modular transformers consists of:

- the TM range of bell transformers, with secondary voltages of 12-24 V and a maximum rated power of 10-15-30-40 VA;
- the TS range of bell transformers, with secondary voltages of 8-12-24 V and a rated secondary power of 8-16-24 VA;
- a series of safety transformers for general use, the TS-C range, with 12-24 V secondary and powers of 10, 16, 25, 40, 63 and 100 VA;
- the energy saving bell transformers TM-ES and TS-ES, with 50% of power loss reduction.

The benefit of an efficient product lasts for years.

TM transformers are suitable for use in combination with loads that require a discontinuous supply at a safety extremely-low voltage (SELV).

The most common application is providing a SELV protection for door bells and bathroom buzzers in residential environments.

TS transformers have the peculiarity of maintaining their temperature below the specified limits even after a short-circuit. They are in fact equipped with a thermal protective device which automatically restores when the transformer is sufficiently cooled down or the overload has been removed.

TS-C safety transformers are insulation transformers used for supplying SELV circuits or PELV circuits. In contrast to the bell transformers, TS-C transformers can be used to continuously supply low voltage loads and they have a reduced voltage drop value. Even after a short-circuit they maintain their temperature below the specified limits and are equipped with a thermal sensitive restoring device which automatically restores power when the transformer is sufficiently cooled down or the overload has been removed.

Thanks to the new energy savings ranges, TM-ES and TS-ES, power losses are restrained by the 50%, to help energy saving in residential and commercial buildings.



TM



TS



TS-C



TS-ES

Main features of the modular transformers range

Modular transformers

Reliability

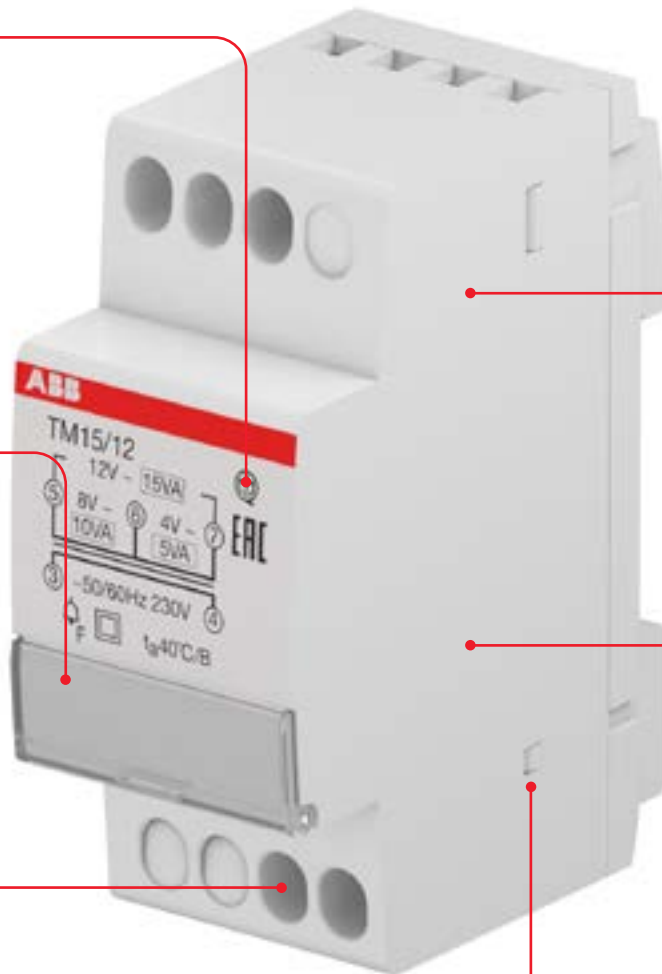
High quality approvals guarantee compliance safety.

Label holder

Tidy and clearly organized consumer unit with the new label holder.

Safe

Faster and error-proof wiring thanks to sealed terminals holes. Fail safe operation and excellent safety are assured thanks to the perfect isolation and separation between the primary and secondary circuits.



Compactness

The compact dimensions enable to save space in your switchboard. TS-C 100 VA modular transformer for continuous use is now available in only 6 modules.

Innovative

Energy saving up to 50% is guaranteed with TM-ES and TS-ES bell transformers for residential and commercial applications.

Completeness

Complete offer of low voltage bell transformers, with a wide range in terms of rated power and voltage. The new range of TM and TS extends the actual range of ABB Modular DIN-Rail Transformers up to 100VA and with new energy saving bell transformers.

Ordering Data

Modular transformers



TM

TM						
Max rated power (disc.) VA	Secondary voltage range V a.c.	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
			Type code	Order code		
10	4-8-12	287155	TM10/12	2CSM228715R0802	0.30	6
10	12-24	287254	TM10/24	2CSM228725R0802	0.30	6
15	4-8-12	287353	TM15/12	2CSM228735R0802	0.30	6
15	12-24	287452	TM15/24	2CSM228745R0802	0.30	6
15	4-8-12	285854	TM15/12 ES	2CSM228585R0802	0.30	1
30	4-8-12	287551	TM30/12	2CSM228755R0802	0.45	4
30	12-24	287650	TM30/24	2CSM228765R0802	0.45	4
40	4-8-12	287759	TM40/12	2CSM228775R0802	0.45	4
40	12-24	287858	TM40/24	2CSM228785R0802	0.45	4



TS

TS							
Max rated power (disc.) VA	Secondary voltage range V a.c.	Switch 0-1	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
				Type code	Order code		
8	8		285953	TS8/8 ES	2CSM228595R0812	0.35	1
8	8		286653	TS8/8	2CSM228665R0812	0.35	6
8	12		286851	TS8/12	2CSM228685R0812	0.35	6
8	24		286752	TS8/24	2CSM228675R0812	0.35	6
8	8		368304	TS8/8 SW	2CSM081302R0811	0.35	6
8	12	■	368403	TS8/12 SW	2CSM081402R0811	0.35	6
8	4-6-8	■	368601	TS8/4-6-8 SW	2CSM081012R0811	0.35	6
8	4-8-12	■	368700	TS8/4-8-12 SW	2CSM081022R0811	0.35	6
16	8-12	■	286059	TS16/8-12 ES	2CSM228605R0812	0.35	1
16	8		286455	TS16/8	2CSM228645R0812	0.35	6
16	12		286356	TS16/12	2CSM228635R0812	0.35	6
16	24		286158	TS16/24	2CSM228615R0812	0.35	6
16	4-6-8		286554	TS16/4-6-8	2CSM228655R0812	0.35	6
16	4-8-12		286257	TS16/4-8-12	2CSM228625R0812	0.35	6
24	4-8-12		287056	TS24/4-8-12	2CSM228705R0812	0.45	4
24	8-12-24		286950	TS24/8-12-24	2CSM228695R0812	0.45	4



TS-C

TS-C						
Rated power (cont.) VA	Secondary rated voltage V a.c.	Bbn 8012542 EAN	Order details		Weight 1 piece kg	Pack unit pc.
			Type code	Order code		
10	12-24	285557	TS 10/12-24 C	2CSM228555R0812	0.35	1
16	12-24	285656	TS 16/12-24 C	2CSM228565R0812	0.45	1
25	12-24	928508	TS 25/12-24 C	2CSM251043R0811	0.92	1
40	12-24	928607	TS 40/12-24 C	2CSM401043R0811	1.1	1
63	12-24	928706	TS 63/12-24 C	2CSM631043R0811	1.15	1
100	12-24	285755	TS 100/12-24 C	2CSM228575R0812	1.45	1