TERMINAL BOXES TBX Series



"More than a terminal plate"

The latest and most innovative solution for connecting wires from CT





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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

GENERAL FEATURES

The measurement, control, check and data recording circuits for medium and high power, oil-cooled, oil-insulated electric transformers require to bring current signals outside from the tank.

CEDASPE terminal boxes allow an easy connection between external and internal measuring circuit of transformer tank.

CONSTRUCTION

CEDASPE SM2 Series terminal boxes have the following constructional characteristics:

casing made of sealed aluminium alloy, its flanged shape allows an easy fixation to the transformer tank with welded studs; casing has also a lowered bottom in order to prevent air pockets from forming when the box is fitted to the transformer tank.

The cover, in aluminium alloy too, closes hermetically the case and protects the terminals; a nylon lid links cover and housing to avoid any mistake during wiring operation if more terminal boxes are used on the transformer.

The terminals allow the connection between wiring inside and outside the transformer tank and are designed in a such way to avoid unscrew during assembly or wiring operation

The terminal box is provided with an external identification plate and an internal numbered plate for terminals.

MANUFACTURING PROGRAM

Four box sizes as below:

Terminal box type SM2-XS (pag5-36) : max number of terminal 6 max number of cable exit 2

Terminal box type SM2-S(pag5.37) : max number of terminal 12 max number of cable exit 4

Terminal box type SM2-L (pag5.38) : max number of terminal 36 max number of cable exit 6

Terminal box type SM2-XL (pag5.39) : max number of terminal 53 max number of cable exit 4 Drawings at pages 5-36; 5-37; 5-38 and 5-39 illustrate all different execution and location of terminals in standard execution, on demand special execution can be provided.

SETTING TO WORK

Terminal boxes CEDASPE have to be installed as follows

If required (i.e. when terminal boxes on transformer are 2 or more on the same tank) engrave the number of terminal box on the external plate; if the numbering of wiring is different from the numbering of terminals write conversion numbers on the plate inside the box.

Make the wiring inside transformer tank referring to the plate inside the box; wires lug have to be inserted between the two washer M6 and locked by the antirotational nut.

Fit the terminal box on the transformer tank

Make the wiring outside the tank referring to the plate inside the box following the same procedure as above

WORKING CONDITIONS

All the materials, components and constructional characteristics allow the SM2 Series terminal boxes to be used with environmental temperature -20℃ to + 50℃

95% at 20℃ * 80% at 40℃ * 50% at 50℃ relative humidity

working temperature (mineral oil) -20℃ to +110℃

For particular environmental conditions and /or other working conditions, special versions can be supplied.

TEST

Following routine test are performed on 100% of production:

- Visual and dimensional test
- Leakage test on assembled terminal box
- insulation test between terminals ad body at 2500V for 1 min

Result of tests are reported on test certicate

FINISHING

All external fittings are made in s/steel or brass nickel plated; body and cover are painted with one 50 µm-thick coat of twopack epoxy primer (compatible with mineral transformer oil) on all external and internal surfaces, even those in contact with the oil, plus one 50 µm-thick coat of grey RAL 7030 two-pack polyurethane paint on all external surfaces not in contact with the oil; total thickness 100µm.

ORDERING INSTRUCTIONS

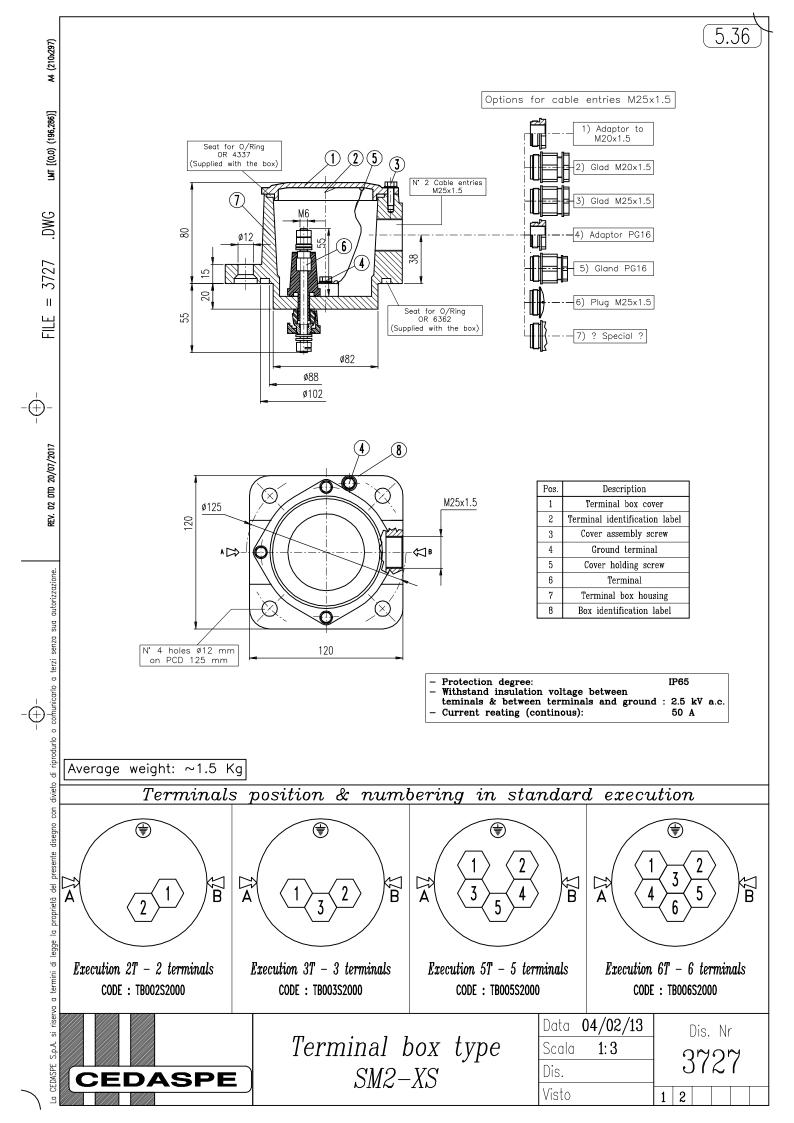
The following information have to be provided to ask an offer or iisue an order:

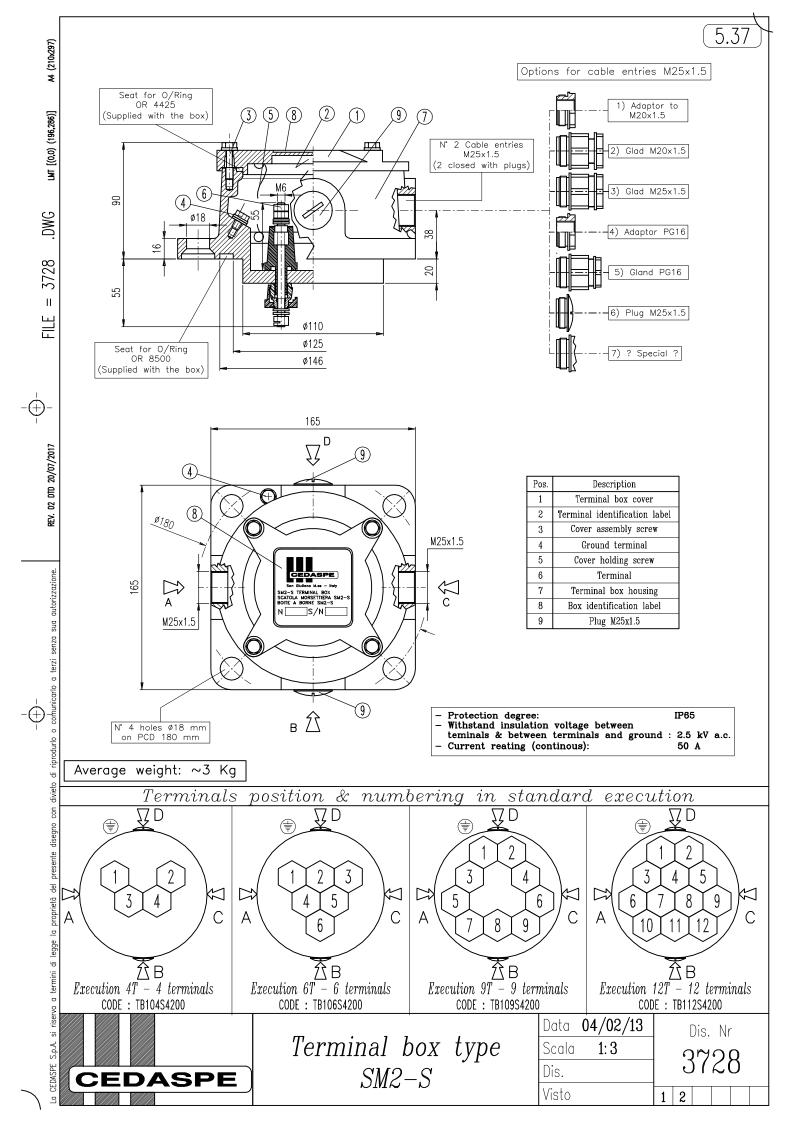
In case of a standard execution: only the code shown on drawing and the additional optional parts

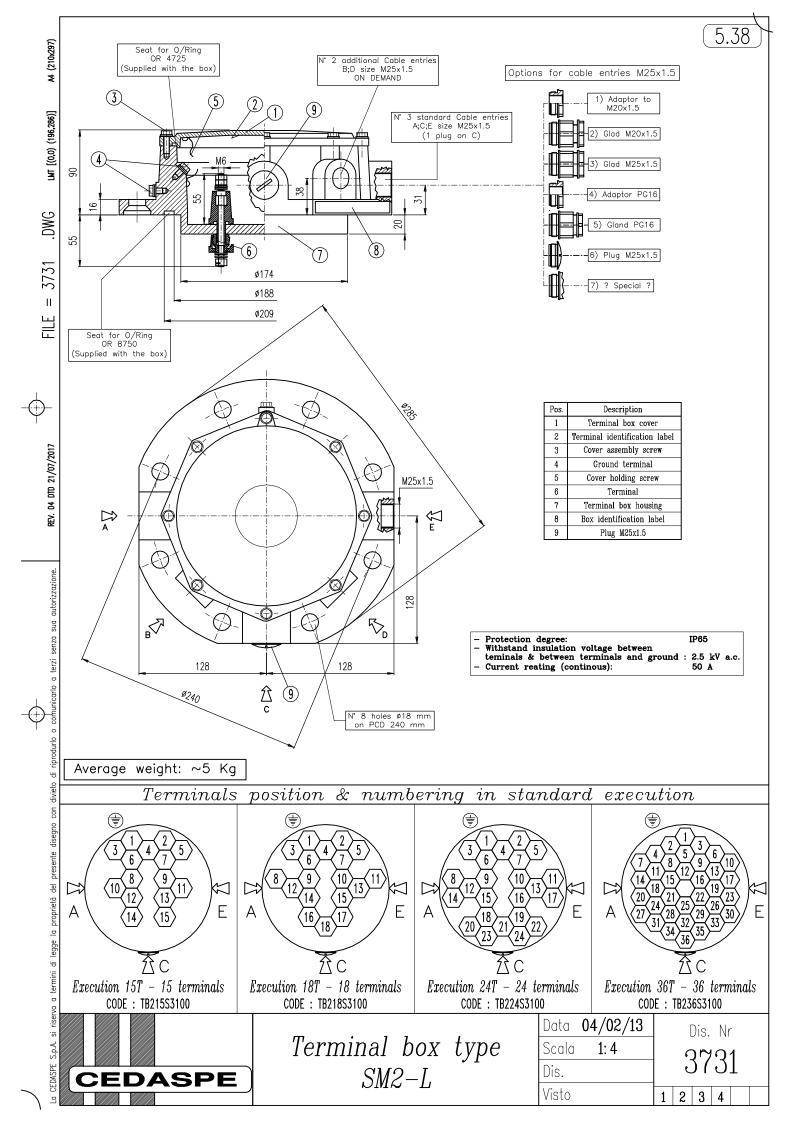
In case of special execution : box size; number of terminals, number of cable exit and their size, special working condition (if present)

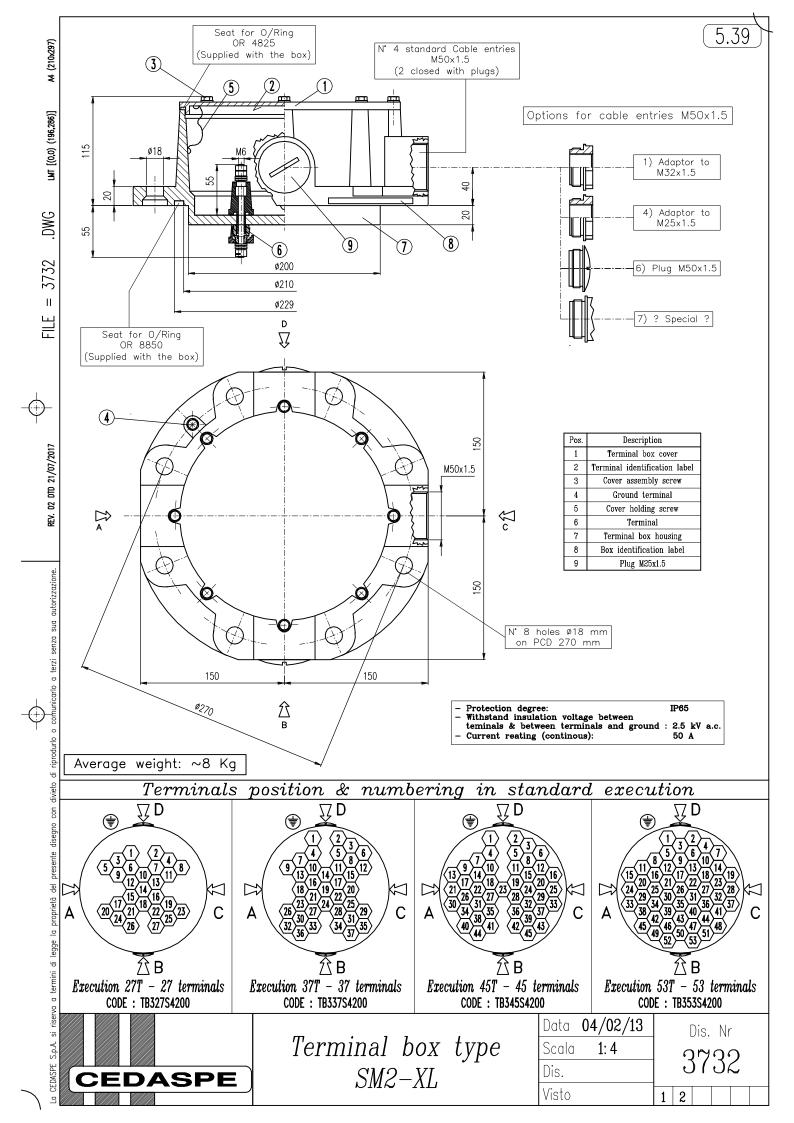
UNCONTROLLED COPY

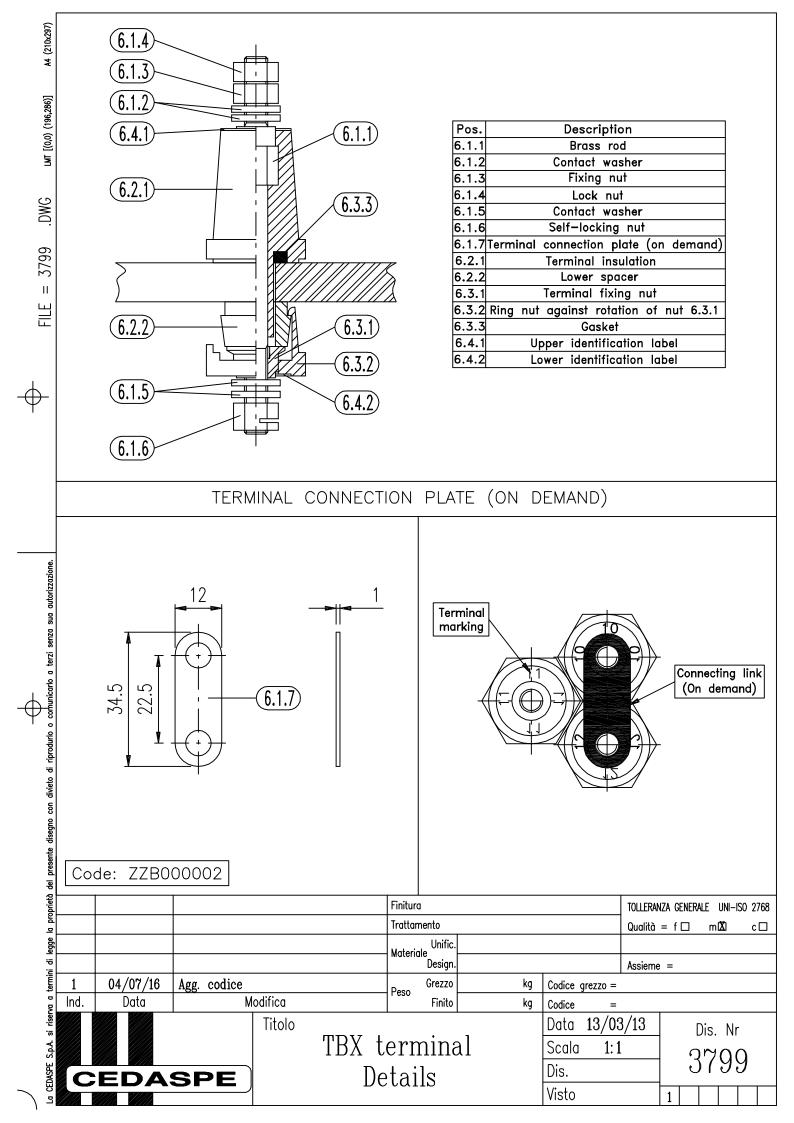
Rev. 6 dtd 28/02/13











E I	ORDER FORM			
A4 (210x297)	<u>Size:</u> XS 🗌	S 🗌	L 🗌	XL 🗌
FILE = 4410 .DWG LMT [(0.0) (196,286)] A4	N° of Terminals: 2 3 5 6 Special N° of Cable entries; 2	4 6 9 12 Special <u>M25x1.5:</u> 2 3	15 18 24 36 Special 2 3	27 37 45 53 Special <u>M50x1.5:</u> 2 3
Φ		4	4	4
REV. 00 DTD 07/11/17	Options for Cable entries: M25x1.5: Adaptor to M20x1.5 Gland PG16 Gland M20x1.5 Plug M25x1.5 Gland M25x1.5 Special			<u>M50x1.5:</u> Adaptor to M32x1.5 Adaptor to M25x1.5 Plug M50x1.5
carlo a terzi senza sua autorizzazione.	Adaptor PG16 <u>Working conditions:</u> Environmental temp. (-20°C to +50°C)	Relative Humidity (95% at 20°C) (80% at 40°C) (50% at 50°C)	Working temp. (Mineral Oil) [] (-20°C to +110°C)	Special Special
a termini di legge la proprietà del presente disegno con divieto di riprodurto o comunicarto a terzi senza sua au	Finish: Standard Heavy duty Off shore () () () Colour: RAL4003 RAL7030 RAL7032 RAL7033 RAL7034 RAL7035 (
/ CEDASPE Power S.r.l. si riserva a termini di		Titolo Termin Order	al Box Sc sheet ^{Dis}	<u>ita 06/12/17</u> Dis. Nr cala ==== s. 4410 sto