

## Datasheet

TAM4342-8DN00-0EA0



|              |                                                        |
|--------------|--------------------------------------------------------|
| Output power | 315 VA                                                 |
| Input        | 550-525-500-480-460-440-415-400-380-230-208 V AC       |
| Output       | 24 V AC                                                |
| Category     | Line, Control circuit und Safety isolating transformer |



Picture representative

## Electrical parameters

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| Phases                 | 1                                                                      |
| Nominal power          | VA 315                                                                 |
| Short-time power       | kVA 1,12                                                               |
| Nominal input voltage  | V AC 550-525-500-480-460-440-415-400-380-230-208                       |
| Nominal input current  | A AC 0,670-0,702-0,737-0,768-0,801-0,838-0,888-0,921-0,970-1,602-1,772 |
| Nominal output voltage | V AC 24                                                                |
| Nominal output current | A AC 13,1                                                              |
| Frequency              | Hz 50...60                                                             |
| Short circuit voltage  | % 6,30   20°C                                                          |
| Vector group           | li0                                                                    |
| Duty                   | continuous                                                             |
| Duty cycle             | % 100                                                                  |
| Winding material       | CU                                                                     |
| Winding losses         | W 21,7                                                                 |
| Iron losses            | W 14,9                                                                 |
| Total losses           | W 36,6                                                                 |
| Efficiency             | % 90,0                                                                 |

## Standards

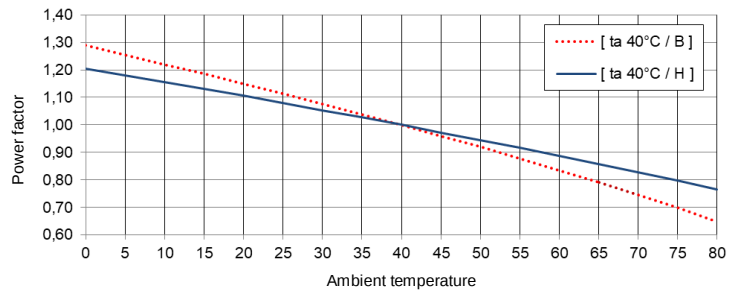
|           |                                                      |
|-----------|------------------------------------------------------|
| Standards | EN 61558-2-1, -2-2, -2-6<br>UL 5085 / XPTQ2-8.E92271 |
|-----------|------------------------------------------------------|

## Authorization / Certificate

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Approvals                 | ENE cULus   (further approvals possible on customer request) |
| Declaration of Conformity | CE                                                           |

## Environmental conditions

|                            |    |                                                                         |
|----------------------------|----|-------------------------------------------------------------------------|
| Operating temperature      | °C | -25 ... +40                                                             |
| Storage temperature        | °C | -25 ... +55                                                             |
| Extended temperature range | °C | up to +80 (after power reduction according to the load characteristics) |



|                                          |                 |                                                                         |
|------------------------------------------|-----------------|-------------------------------------------------------------------------|
| Relative humidity (without condensation) | %               | 5 ... 95                                                                |
| Cooling                                  |                 | natural cooling                                                         |
| Installation altitude                    |                 | to 1000m above sea level, higher altitude possible with power reduction |
| Overvoltage category                     | (acc. EN 61558) | OVC III                                                                 |
| Degree of pollution                      | (acc. EN 61558) | P2                                                                      |

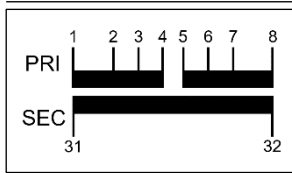
## Installation and mounting

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Type of terminals   | Screw / tab connection                                         |
| Mounting type       | Screw                                                          |
| Mounting position   | see „Dimensional drawing“ at the end of the document           |
| Dimensions (HxWxD)  | see „Dimensional drawing“ at the end of the document           |
| Mounting dimensions | see „Dimensional drawing“ at the end of the document           |
| Oblong hole         | see „Dimensional drawing“ at the end of the document           |
| Clearance distance  | see technical information in the chapter „Further information“ |

## Security features

|                        |         |                                             |
|------------------------|---------|---------------------------------------------|
| Insulation class       | acc. EN | class B                                     |
| Insulation class       | acc. UL | CLASS 130                                   |
| Protection             |         | IP00 (other types of protection on request) |
| Protection class       |         | I                                           |
| Short-circuit strength |         | conditionally with protection               |

## Connection table



### Terminal block

Back side: 32-31  
Front side: 1-2-3-4-5-6-7-8

|      | U <sub>N</sub> [V AC] | I <sub>N</sub> [A AC] | Terminals | Wiring  | Protection                     |
|------|-----------------------|-----------------------|-----------|---------|--------------------------------|
| PRI1 | 550                   | 0,670                 | 1-8       | 4-5     | 3RV2411-0JA10 / 0,74A (ext.)   |
|      | 525                   | 0,702                 | 1-8       | 3-5     | 3RV2411-0JA10 / 0,77A (ext.)   |
|      | 500                   | 0,737                 | 1-8       | 2-5     | 3RV2411-0JA10 / 0,81A (ext.)   |
|      | 480                   | 0,768                 | 1-8       | 2-5     | 3RV2411-0JA10 / 0,84A (ext.)   |
|      | 460                   | 0,801                 | 1-8       | 4-6     | 3RV2411-0JA10 / 0,88A (ext.)   |
|      | 440                   | 0,838                 | 1-8       | 3-6     | 3RV2411-0JA10 / 0,92A (ext.)   |
|      | 415                   | 0,888                 | 1-8       | 3-7     | 3RV2411-0KA10 / 0,96A (ext.)   |
|      | 400                   | 0,921                 | 1-8       | 2-6     | 3RV2411-0KA10 / 1,00A (ext.)   |
|      | 380                   | 0,970                 | 1-8       | 2-7     | 3RV2411-0KA10 / 1,10A (ext.)   |
|      | 230                   | 1,602                 | 1-8       | 1-6/4-8 | 3RV2411-1BA10 / 1,80A (ext.)   |
|      | 208                   | 1,772                 | 1-8       | 1-7/3-8 | 3RV2411-1CA10 / 1,90A (ext.)   |
| SEC1 | 24                    | 13,1                  | 31-32     | -       | 3RV2011-4AA10 / 13,3A ( ext. ) |



### NOTE protection

Protection acc. IEC 60947 | Type suggestion with Siemens circuit breaker - alternatives are possible.  
Protection for the North American market acc. UL - see chapter „Further information“.

## General data

|                       |                 |
|-----------------------|-----------------|
| GTIN / EAN            | 4025515518723   |
| Country of origin     | Czech Republic  |
| Packaging unit        | 1               |
| Export sign           | AL: N / ECCN: N |
| Customs tariff number | 85043180        |
| Gross weight - brutto | kg 5,1          |
| Net weight - netto    | kg 4,8          |

## Further information

Complete catalogue Transformers / Power Supplies / Reactors / Filters

[www.mdexx.com/online-katalog](http://www.mdexx.com/online-katalog)

Core product range Transformers

[www.mdexx.com/core-products-range-transformers](http://www.mdexx.com/core-products-range-transformers)

Technical information

[www.mdexx.com/technische-information](http://www.mdexx.com/technische-information)

ePLAN / CAD data

[www.eplandata.de/portal/en\\_EN/part/MDX.TAM4342-8DN00-0EA0](http://www.eplandata.de/portal/en_EN/part/MDX.TAM4342-8DN00-0EA0)

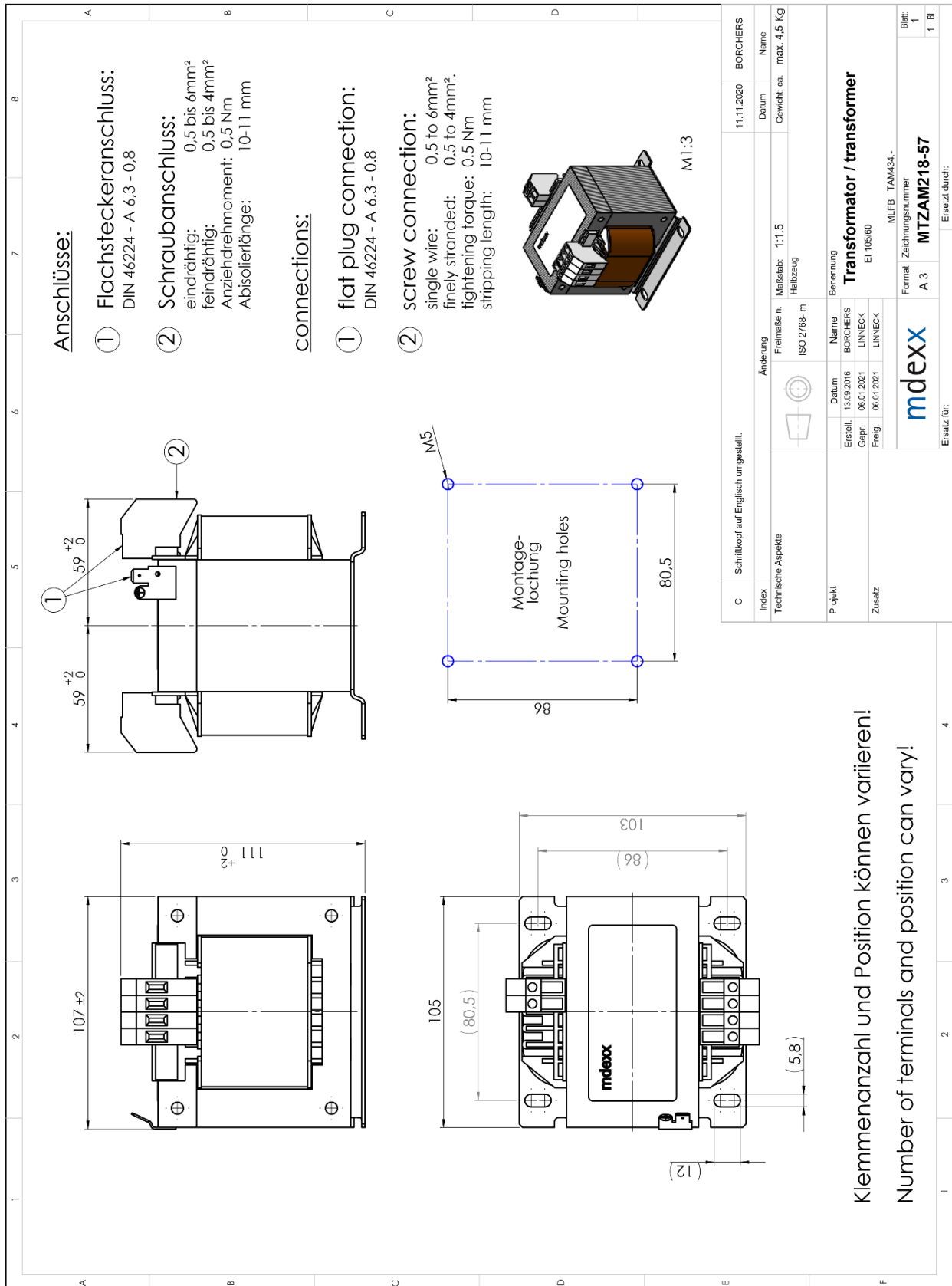
Service / Support

- Operating instruction [www.mdexx.com/BA\\_T\\_Transformatoren\(TAM,TAP,TAT,TAU,TBT,TBU\)](http://www.mdexx.com/BA_T_Transformatoren(TAM,TAP,TAT,TAU,TBT,TBU))
- Certificate [www.mdexx.com/downloads/zertifikate](http://www.mdexx.com/downloads/zertifikate)
- EU Declarations of Conformity [www.mdexx.com/Transformatoren nach EN 61558 \(TAM, TAN, TAP, TAT, TAU, TAW\)](http://www.mdexx.com/Transformatoren nach EN 61558 (TAM, TAN, TAP, TAT, TAU, TAW))
- EAC Certifications [www.mdexx.com/EAC\\_Transformatoren](http://www.mdexx.com/EAC_Transformatoren)

- UL Certifications

|    |           |                                                                                                               |
|----|-----------|---------------------------------------------------------------------------------------------------------------|
| US | product   | <a href="http://www.mdexx.com/XPTO2.E92271">www.mdexx.com/XPTO2.E92271</a> (TAJ, TAM, TAP, TAW, TEF, TEV)     |
|    | isolation | <a href="http://www.mdexx.com/OBJY2.E106597">www.mdexx.com/OBJY2.E106597</a> (CTB130, CTB155, ADS180, CCC180) |
| CA | product   | <a href="http://www.mdexx.com/XPTO8.E92271">www.mdexx.com/XPTO8.E92271</a> (TAJ, TAM, TAP, TAW, TEF, TEV)     |
|    | isolation | <a href="http://www.mdexx.com/OBJY8.E106597">www.mdexx.com/OBJY8.E106597</a> (CTB130, CTB155, ADS180, CCC180) |

## Dimensional drawing



Number of terminals and position can vary!