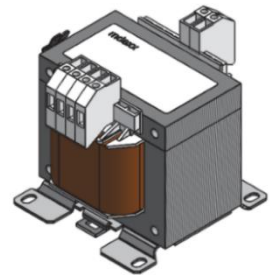


# Datasheet

TAM3442-8DD40-0FA0



|              |                                                  |
|--------------|--------------------------------------------------|
| Output power | 100 VA                                           |
| Input        | 550-525-500-480-460-440-415-400-380-230-208 V AC |
| Output       | 230-115 (2x115) V AC                             |
| Category     | Line, Control circuit und Isolation transformer  |



Picture representative

## Electrical parameters

|                        |                                                                        |
|------------------------|------------------------------------------------------------------------|
| Phases                 | 1                                                                      |
| Nominal power          | VA 100                                                                 |
| Short-time power       | VA 310                                                                 |
| Nominal input voltage  | V AC 550-525-500-480-460-440-415-400-380-230-208                       |
| Nominal input current  | A AC 0,237-0,248-0,261-0,272-0,283-0,296-0,314-0,326-0,343-0,567-0,627 |
| Nominal output voltage | V AC 230-115                                                           |
| Nominal output current | A AC 0,435-0,870                                                       |
| Frequency              | Hz 50...60                                                             |
| Short circuit voltage  | % 9,43   20°C                                                          |
| Vector group           | li0                                                                    |
| Duty                   | continuous                                                             |
| Duty cycle             | % 100                                                                  |
| Winding material       | CU                                                                     |
| Winding losses         | W 10,3                                                                 |
| Iron losses            | W 6,90                                                                 |
| Total losses           | W 17,2                                                                 |
| Efficiency             | % 86,0                                                                 |

## Standards

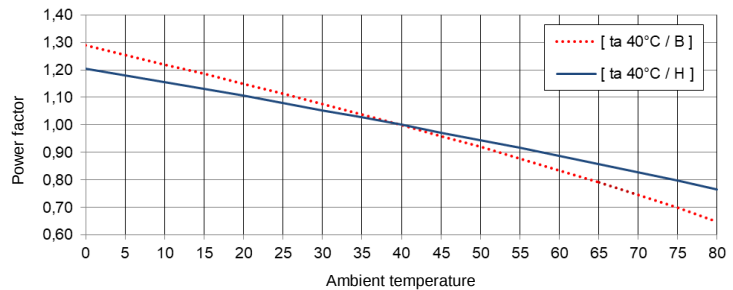
|           |                                                      |
|-----------|------------------------------------------------------|
| Standards | EN 61558-2-1, -2-2, -2-4<br>UL 5085 / XPTQ2-8.E92271 |
|-----------|------------------------------------------------------|

## 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                                                                      |

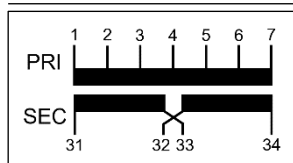
## Installation and mounting

|                     |                                                                |
|---------------------|----------------------------------------------------------------|
| Type of terminals   | Screw / tab connection                                         |
| Mounting type       | Screws / mounting rails                                        |
| 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: 34-33-32-31  
Front side: 1-2-3-4-5-6-7

|      | U <sub>N</sub> [V AC] | I <sub>N</sub> [A AC] | Terminals | Wiring         | Protection                   |
|------|-----------------------|-----------------------|-----------|----------------|------------------------------|
| PRI1 | 550                   | 0,237                 | 1-7       | -              | 3RV2411-0DA10 / 0,26A (ext.) |
|      | 525                   | 0,248                 | 2-7       | -              | 3RV2411-0DA10 / 0,27A (ext.) |
|      | 500                   | 0,261                 | 3-7       | -              | 3RV2411-0DA10 / 0,28A (ext.) |
|      | 480                   | 0,272                 | 1-6       | -              | 3RV2411-0EA10 / 0,30A (ext.) |
|      | 460                   | 0,283                 | 2-6       | -              | 3RV2411-0EA10 / 0,31A (ext.) |
|      | 440                   | 0,296                 | 3-6       | -              | 3RV2411-0EA10 / 0,32A (ext.) |
|      | 415                   | 0,314                 | 1-5       | -              | 3RV2411-0EA10 / 0,34A (ext.) |
|      | 400                   | 0,326                 | 2-5       | -              | 3RV2411-0EA10 / 0,35A (ext.) |
|      | 380                   | 0,343                 | 3-5       | -              | 3RV2411-0EA10 / 0,37A (ext.) |
|      | 230                   | 0,567                 | 2-4       | -              | 3RV2411-0HA10 / 0,62A (ext.) |
|      | 208                   | 0,627                 | 3-4       | -              | 3RV2411-0HA10 / 0,68A (ext.) |
| SEC1 | 230                   | 0,435                 | 31-34     | 32-33          | 3RV2011-0FA10 / 0,44A (ext.) |
|      | 115                   | 0,870                 | 31-34     | 31-32<br>33-34 | 3RV2011-0JA10 / 0,88A (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            | 4025515513681   |
| Country of origin     | Czech Republic  |
| Packaging unit        | 1               |
| Export sign           | AL: N / ECCN: N |
| Customs tariff number | 85043180        |
| Gross weight - brutto | kg 2,3          |
| Net weight - netto    | kg 2,1          |

## 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.TAM3442-8DD40-0FA0](http://www.eplandata.de/portal/en_EN/part/MDX.TAM3442-8DD40-0FA0)

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

Dimensional drawing

