



|                     |   |
|---------------------|---|
| <b>Output power</b> | <b>500 VA</b>   |
| <b>Input</b>        | <b>230 +/-5% V AC</b>   |
| <b>Output</b>       | <b>24 V AC</b>  |
| <b>Category</b>     | <b>Line, Control circuit und Safety isolating transformer</b> |



Picture representative

## Electrical parameters

|                        |                     |
|------------------------|---------------------|
| Phases                 | 1                   |
| Nominal power          | VA 500              |
| Short-time power       | kVA 2,00            |
| Nominal input voltage  | V AC 242-230-218    |
| Nominal input current  | A AC 2,38-2,50-2,63 |
| Nominal output voltage | V AC 24             |
| Nominal output current | A AC 20,8           |
| Frequency              | Hz 50...60          |
| Short circuit voltage  | % 3,80   20°C       |
| Vector group           | li0                 |
| Duty                   | continuous          |
| Duty cycle             | % 100               |
| Winding material       | CU                  |
| Winding losses         | W 24,0              |
| Iron losses            | W 23,7              |
| Total losses           | W 47,7              |
| Efficiency             | % 91,0              |

## Standards

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

## Authorization / Certificate

|                           |  |
|---------------------------|--|
| Approvals                 | EAC 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

|      | U <sub>N</sub> [V AC] | I <sub>N</sub> [A AC] | Terminals $\circ \circ$ | Wiring $\overline{\circ \circ}$ | Protection                    |
|------|-----------------------|-----------------------|-------------------------|---------------------------------|-------------------------------|
| PRI1 | 242                   | 2,38                  | 1-4                     | -                               | 3RV2411-1DA10 / 2,70A ( ext.) |
|      | 230                   | 2,50                  | 1-3                     | -                               | 3RV2411-1DA10 / 2,80A ( ext.) |
|      | 218                   | 2,63                  | 1-2                     | -                               | 3RV2411-1DA10 / 2,90A ( ext.) |
| SEC1 | 24                    | 20,8                  | 31-32                   | -                               | 3RV2021-4DA10 / 21A (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            | 4025515521280   |
| Country of origin     | Czech Republic  |
| Packaging unit        | 1               |
| Export sign           | AL: N / ECCN: N |
| Customs tariff number | 85043180        |
| Gross weight - brutto | kg 7,3          |
| Net weight - netto    | kg 7,0          |

## 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.TAM4842-4TN00-0EAO](http://www.eplandata.de/portal/en_EN/part/MDX.TAM4842-4TN00-0EAO)

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/XPTQ2.E92271_(TAJ,_TAM,_TAP,_TAW,_TEF,_TEV)">www.mdexx.com/XPTQ2.E92271 (TAJ, TAM, TAP, TAW, TEF, TEV)</a>       |
|    | isolation | <a href="http://www.mdexx.com/OBJY2.E106597_(CTB130,_CTB155,_ADS180,_CCC180)">www.mdexx.com/OBJY2.E106597 (CTB130, CTB155, ADS180, CCC180)</a> |
| CA | product   | <a href="http://www.mdexx.com/XPTQ8.E92271_(TAJ,_TAM,_TAP,_TAW,_TEF,_TEV)">www.mdexx.com/XPTQ8.E92271 (TAJ, TAM, TAP, TAW, TEF, TEV)</a>       |
|    | isolation | <a href="http://www.mdexx.com/OBJY8.E106597_(CTB130,_CTB155,_ADS180,_CCC180)">www.mdexx.com/OBJY8.E106597 (CTB130, CTB155, ADS180, CCC180)</a> |

