



**easyE Remote Touch Display, Advanced, 24 V DC, 4.3 inch, TFTcolor,  
480x272 px, resistive, Ethernet**

**Part no. EASY-RTD-DC-43-03B2-00  
EP-401057**

|                                          |  |                                                                                                                                                                          |
|------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General specifications</b>            |  |                                                                                                                                                                          |
| Product name                             |  | Eaton EASY Touch panel                                                                                                                                                   |
| Part no.                                 |  | EASY-RTD-DC-43-03B2-00                                                                                                                                                   |
| EAN                                      |  | 4015082965099                                                                                                                                                            |
| Product Length/Depth                     |  | 136 millimetre                                                                                                                                                           |
| Product height                           |  | 38 millimetre                                                                                                                                                            |
| Product width                            |  | 101 millimetre                                                                                                                                                           |
| Product weight                           |  | 0.206 kilogram                                                                                                                                                           |
| Compliances                              |  | CE Marked<br>RoHS conform<br>DNV<br>Eaton supports the product until its end of life                                                                                     |
| Certifications                           |  | UL 61010-2-201<br>UL File No.: E205091                                                                                                                                   |
| Product Tradename                        |  | EASY                                                                                                                                                                     |
| Product Type                             |  | Touch panel                                                                                                                                                              |
| Product Sub Type                         |  | None                                                                                                                                                                     |
| Catalog Notes                            |  | No PLC function possible                                                                                                                                                 |
| <b>Features &amp; Functions</b>          |  |                                                                                                                                                                          |
| Enclosure material                       |  | Insulated material                                                                                                                                                       |
| Fitted with:                             |  | Alpha numeric keyboard<br>Color display<br>1 x Ethernet 100base-TX/10base-T (built-in interface)<br>1 x USB host (built-in interface)                                    |
| <b>General information</b>               |  |                                                                                                                                                                          |
| Degree of protection                     |  | IP20, rear (according to EN 60529-1)                                                                                                                                     |
| Display type                             |  | TFT<br>Standard front with standard membrane (fully enclosed)                                                                                                            |
| Number of colors of the display          |  | 64000                                                                                                                                                                    |
| Product category                         |  | Touch display for easyE4                                                                                                                                                 |
| Screen size (diagonal)                   |  | 4.3 in                                                                                                                                                                   |
| Software                                 |  | Advanced: a user defined visualization to be programmed via easySoft and pre-installed application software which mirrors the display and keypad of an easyE4 base unit. |
| Touch technology                         |  | Resistive touch<br>Touch sensor (glass with foil), Resistive touch protective screen                                                                                     |
| Used with                                |  | EASY-E4                                                                                                                                                                  |
| Voltage type                             |  | DC                                                                                                                                                                       |
| <b>Ambient conditions, mechanical</b>    |  |                                                                                                                                                                          |
| Shock resistance                         |  | 15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts                                                                                |
| Vibration resistance                     |  | According to IEC/EN 60068-2-6                                                                                                                                            |
| <b>Climatic environmental conditions</b> |  |                                                                                                                                                                          |
| Ambient storage temperature - min        |  | -20 °C                                                                                                                                                                   |
| Ambient storage temperature - max        |  | 60 °C                                                                                                                                                                    |
| Environmental conditions                 |  | Condensation: prevent with appropriate measures                                                                                                                          |
| <b>Electro magnetic compatibility</b>    |  |                                                                                                                                                                          |
| Voltage dips                             |  | 5 ms from undervoltage (19.2 V DC)<br>≤ 10 ms from rated voltage (24 V DC)                                                                                               |
| <b>Electrical rating</b>                 |  |                                                                                                                                                                          |
| Permissible voltage                      |  | 18.0 - 31.2 V DC, absolute with ripple<br>35 V DC (for a duration of < 100 ms)<br>18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %)                  |

|                                                                                  |  |  |                                                                                                                                  |
|----------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  |  |  | 19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %)                                                                  |
| Power consumption                                                                |  |  | 7.2 W                                                                                                                            |
| Rated operational voltage                                                        |  |  | 24 V DC (power-supply - safety extra low voltage)                                                                                |
| Supply voltage at AC, 50 Hz - min                                                |  |  | 0 V AC                                                                                                                           |
| Supply voltage at AC, 50 Hz - max                                                |  |  | 0 V AC                                                                                                                           |
| Supply voltage at DC - min                                                       |  |  | 19.2 V DC                                                                                                                        |
| Supply voltage at DC - max                                                       |  |  | 30 V DC                                                                                                                          |
| <b>Communication</b>                                                             |  |  |                                                                                                                                  |
| Memory capacity                                                                  |  |  | 0 kByte                                                                                                                          |
| Interfaces                                                                       |  |  | Ethernet (100Base-TX/10Base-T)<br>USB 2.0 host (not galvanically isolated)                                                       |
| <b>Design verification</b>                                                       |  |  |                                                                                                                                  |
| Heat dissipation capacity P <sub>diss</sub>                                      |  |  | 0 W                                                                                                                              |
| Heat dissipation per pole, current-dependent P <sub>vid</sub>                    |  |  | 0 W                                                                                                                              |
| Static heat dissipation, non-current-dependent P <sub>vs</sub>                   |  |  | 7.2 W                                                                                                                            |
| 10.2.2 Corrosion resistance                                                      |  |  | Meets the product standard's requirements.                                                                                       |
| 10.2.3.1 Verification of thermal stability of enclosures                         |  |  | Meets the product standard's requirements.                                                                                       |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat       |  |  | Meets the product standard's requirements.                                                                                       |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects |  |  | Meets the product standard's requirements.                                                                                       |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                 |  |  | Please enquire                                                                                                                   |
| 10.2.5 Lifting                                                                   |  |  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.6 Mechanical impact                                                         |  |  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.2.7 Inscriptions                                                              |  |  | Meets the product standard's requirements.                                                                                       |
| 10.3 Degree of protection of assemblies                                          |  |  | Meets the product standard's requirements.                                                                                       |
| 10.4 Clearances and creepage distances                                           |  |  | Meets the product standard's requirements.                                                                                       |
| 10.5 Protection against electric shock                                           |  |  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.6 Incorporation of switching devices and components                           |  |  | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| 10.7 Internal electrical circuits and connections                                |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.8 Connections for external conductors                                         |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.9.2 Power-frequency electric strength                                         |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.9.3 Impulse withstand voltage                                                 |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.9.4 Testing of enclosures made of insulating material                         |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.10 Temperature rise                                                           |  |  | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating                                                       |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.12 Electromagnetic compatibility                                              |  |  | Is the panel builder's responsibility.                                                                                           |
| 10.13 Mechanical function                                                        |  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

## Technical data ETIM 9.0

|                                                                                                                                                          |  |   |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-----------|
| Programmable logic controllers PLC (EG000024) / Grafik-Panel (EC001412)                                                                                  |  |   |           |
| Elektro-, Automatisierungs- und Prozessleittechnik / Anzeige- und Bedienkomponente / Panel (HMI) / Grafik-Panel (HMI) (ecI@ss13-27-33-02-01 [AFX016008]) |  |   |           |
| Supply voltage AC 50 Hz                                                                                                                                  |  | V | 0 - 0     |
| Supply voltage AC 60 Hz                                                                                                                                  |  | V | 0 - 0     |
| Supply voltage DC                                                                                                                                        |  | V | 19.2 - 30 |
| Voltage type (supply voltage)                                                                                                                            |  |   | DC        |
| Power consumption                                                                                                                                        |  | W | 7.2       |
| Number of HW-interfaces industrial Ethernet                                                                                                              |  |   | 1         |
| Number of interfaces PROFINET                                                                                                                            |  |   | 0         |
| Number of HW-interfaces RS-232                                                                                                                           |  |   | 0         |
| Number of HW-interfaces RS-422                                                                                                                           |  |   | 0         |
| Number of HW-interfaces RS-485                                                                                                                           |  |   | 0         |
| Number of HW-interfaces serial TTY                                                                                                                       |  |   | 0         |
| Number of HW-interfaces USB                                                                                                                              |  |   | 1         |
| Number of HW-interfaces parallel                                                                                                                         |  |   | 0         |
| Number of HW-interfaces wireless                                                                                                                         |  |   | 0         |

|                                                     |  |       |                 |
|-----------------------------------------------------|--|-------|-----------------|
| Number of HW-interfaces other                       |  |       | 0               |
| With SW interfaces                                  |  |       | No              |
| Supporting protocol for EtherCAT                    |  |       | No              |
| Supporting protocol for TCP/IP                      |  |       | No              |
| Supporting protocol for PROFIBUS                    |  |       | No              |
| Supporting protocol for CAN                         |  |       | No              |
| Supporting protocol for INTERBUS                    |  |       | No              |
| Supporting protocol for ASI                         |  |       | No              |
| Supporting protocol for KNX                         |  |       | No              |
| Supporting protocol for Modbus                      |  |       | No              |
| Supporting protocol for Data-Highway                |  |       | No              |
| Supporting protocol for DeviceNet                   |  |       | No              |
| Supporting protocol for SUCONET                     |  |       | No              |
| Supporting protocol for LON                         |  |       | No              |
| Supporting protocol for PROFINET IO                 |  |       | No              |
| Supporting protocol for PROFINET CBA                |  |       | No              |
| Supporting protocol for SERCOS                      |  |       | No              |
| Supporting protocol for Foundation Fieldbus         |  |       | No              |
| Supporting protocol for EtherNet/IP                 |  |       | No              |
| Supporting protocol for AS-Interface Safety at Work |  |       | No              |
| Supporting protocol for DeviceNet Safety            |  |       | No              |
| Supporting protocol for INTERBUS-Safety             |  |       | No              |
| Supporting protocol for PROFIsafe                   |  |       | No              |
| Supporting protocol for SafetyBUS p                 |  |       | No              |
| Supporting protocol for other bus systems           |  |       | No              |
| Radio standard Bluetooth                            |  |       | No              |
| Radio standard WLAN 802.11                          |  |       | No              |
| Radio standard GPRS                                 |  |       | No              |
| Radio standard GSM                                  |  |       | No              |
| Radio standard UMTS                                 |  |       | No              |
| IO link master                                      |  |       | No              |
| Type of display                                     |  |       | TFT             |
| Colour display                                      |  |       | Yes             |
| Number of colours of the display                    |  |       | 64000           |
| Number of grey-scales/blue-scales of display        |  |       | 0               |
| Screen diagonal                                     |  | inch  | 4.3             |
| Number of pixels, horizontal                        |  |       | 272             |
| Number of pixels, vertical                          |  |       | 480             |
| Useful project memory/user memory                   |  | kByte | 0               |
| With numeric keyboard                               |  |       | No              |
| With alpha numeric keyboard                         |  |       | Yes             |
| Number of function buttons, programmable            |  |       | 0               |
| Number of buttons with LED                          |  |       | 0               |
| Number of system buttons                            |  |       | 1               |
| Touch technology                                    |  |       | Resistive touch |
| With message indication                             |  |       | No              |
| With message system (incl. buffer and confirmation) |  |       | No              |
| Process value representation (output) possible      |  |       | No              |
| Process default value (input) possible              |  |       | No              |
| With recipes                                        |  |       | No              |
| Number of password levels                           |  |       | 3               |
| With printer output                                 |  |       | No              |
| Number of online languages                          |  |       | 13              |
| Additional software components, loadable            |  |       | No              |
| Degree of protection (IP), front side               |  |       | IP65            |

|                                                                    |  |    |        |
|--------------------------------------------------------------------|--|----|--------|
| Degree of protection (NEMA), front side                            |  |    | 4X     |
| Certified for UL hazardous location class I                        |  |    | No     |
| Certified for UL hazardous location class II                       |  |    | No     |
| Certified for UL hazardous location class III                      |  |    | No     |
| Certified for UL hazardous location division 1                     |  |    | No     |
| Certified for UL hazardous location division 2                     |  |    | No     |
| Certified for UL hazardous location group A (acetylene)            |  |    | No     |
| Certified for UL hazardous location group B (hydrogen)             |  |    | No     |
| Certified for UL hazardous location group C (ethylene)             |  |    | No     |
| Certified for UL hazardous location group D (propane)              |  |    | No     |
| Certified for UL hazardous location group E (metal dusts)          |  |    | No     |
| Certified for UL hazardous location group F (carbonaceous dusts)   |  |    | No     |
| Certified for UL hazardous location group G (non-conductive dusts) |  |    | No     |
| Operating temperature                                              |  | °C | 0 - 50 |
| Rail mounting possible                                             |  |    | No     |
| Wall mounting/direct mounting                                      |  |    | No     |
| Suitable for safety functions                                      |  |    | No     |
| Width of the front                                                 |  | mm | 136    |
| Height of the front                                                |  | mm | 101    |
| Built-in depth                                                     |  | mm | 38     |