DATASHEET - EASY-RTD-DC-43-03B2-00



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

General specifications	
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	Eaton supports the product until its end of life DNV RoHS conform CE Marked
Certifications	UL File No.: E205091 UL 61010-2-201
Product Tradename	EASY
Product Type	Touch panel
Product Sub Type	None
Catalog Notes	No PLC function possible
Features & Functions	
Enclosure material	Insulated material
Fitted with:	1 x USB host (built-in interface) 1 x Ethernet 100base-TX/10base-T (built-in interface) Color display Alpha numeric keyboard
General information	
Degree of protection	IP20, rear (according to EN 60529-1)
Display type	Standard front with standard membrane (fully enclosed) TFT
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	Touch sensor (glass with foil), Resistive touch protective screen Resistive touch
Used with	EASY-E4
Voltage type	DC
Ambient conditions, mechanical	
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
Climatic environmental conditions	
Ambient storage temperature - min	-20 °C
Ambient storage temperature - max	60 °C
Environmental conditions	Condensation: prevent with appropriate measures
Electro magnetic compatibility	
Voltage dips	≤ 10 ms from rated voltage (24 V DC) 5 ms from undervoltage (19.2 V DC)
Electrical rating	
Permissible voltage	19.2 - 30 V DC, effective (rated operating voltage -20 %/+25 %) 18 - 31.2 V DC, battery powered (rated operating voltage -25 %/+30 %) 35 V DC (for a duration of < 100 ms)

		18.0 - 31.2 V DC, absolute with ripple
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
Communication		
Memory capacity		0 kByte
Interfaces		USB 2.0 host (not galvanically isolated) Ethernet (100Base-TX/10Base-T)
Design verification		
Heat dissipation capacity Pdiss		0 W
Heat dissipation per pole, current-dependent Pvid		0 W
Static heat dissipation, non-current-dependent Pvs		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) / Graphic panel (EC001412)		
Electric engineering, automation, process control engineering / Display and control component / Panel (HMI) / Graphic panel (HMI) (ecl@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

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