Specifications







Eaton 199740

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

General specifications	
PRODUCT NAME	Eaton EASY Touch panel
CATALOG NUMBER	199740
MODEL CODE	EASY-RTD-DC-43-03B1-00
EAN	7640130098527
PRODUCT LENGTH/DEPTH	136 mm
PRODUCT HEIGHT	38 mm
PRODUCT WIDTH	101 mm
PRODUCT WEIGHT	0.206 kg
COMPLIANCES	CE Marked RoHS conform DNV Eaton supports the product until its end of life
CERTIFICATIONS	UL File No.: E205091 UL 61010-2-201
CATALOG NOTES	No PLC function possible

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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

Communication

INTERFACES	Ethernet (100Base-TX/10Base-T) USB 2.0 host (not galvanically isolated)

Climatic environmental conditions

AMBIENT STORAGE TEMPERATURE - MAX	60 °C
AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
ENVIRONMENTAL CONDITIONS	Condensation: prevent with appropriate measures

Design verification

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.
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	Meets the product

PROTECTION OF ASSEMBLIES	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.
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

Electrical rating

PERMISSIBLE VOLTAGE	18.0 - 31.2 V DC, absolute with ripple 35 V DC (for a duration of < 100 ms) 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 4.7 W
RATED OPERATIONAL VOLTAGE	24 V DC (power-supply - safety extra low voltage)
SUPPLY VOLTAGE AT DC - MAX	30 VDC
SUPPLY VOLTAGE AT DC - MIN	19.2 VDC

Electro magnetic compatibility

VOLTAGE DIPS	5 ms from undervoltage (19.2 V DC) ≤ 10 ms from rated voltage (24 V DC)

Features & functions

ENCLOSURE MATERIAL	Insulated material
FITTED WITH:	Alpha numeric keyboard Color display 1 x Ethernet 100base-TX/10base-T (built-in interface) 1 x USB host (built-in interface)

General information

DEGREE OF PROTECTION	IP20, rear (according to EN 60529-1)
DISPLAY TYPE	TFT 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	Standard: pre-installed application software which mirrors the display and keypad of an easyE4 base unit. No programming required.
TOUCH TECHNOLOGY	Resistive touch Touch sensor (glass with foil), Resistive touch protective screen
USED WITH	EASY-E4
VOLTAGE TYPE	DC

Resources	
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
CERTIFICATION REPORTS	Eaton- EASY-RTD-DNV-approval-certificate.pdf
DECLARATIONS OF CONFORMITY	eaton-touch-panel-declaration-of-conformity-eu251488en.pdf
INSTALLATION INSTRUCTIONS	eaton-easye4-remote-touch-displays-il048015zu.pdf
INSTALLATION VIDEOS	Video easy E4 control relay Control relay easyE4: The new generation
MANUALS AND USER GUIDES	eaton-easy-rtd-product-cybersecurity-guideline-mz048005en-en-us.pdf eaton-easye4-remote-touch-display-mn048027en-us.pdf
MCAD MODEL	eaton-easy_rtd_dc_43-drawing.dwg eaton-easy_rtd_dc_43-3d-model.stp
MULTIMEDIA	How to process ModbusRTU devices with the EASY-COM-RTU-M1 module on an easyE4? Handling of the data logger as a ring buffer with the easyE4 using the ST programming language. easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator How to connect the easyE4 to the touch panel XV-102 for easy? - 5 Steps How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4? How to connect the Remote Touch Display EASY-RTD to the easyE4?

PRODUCT NOTIFICATIONS	eaton-easye-product-cybersecurity-guideline-mz049001en-us.pdf MZ049014EN
SALES NOTES	eaton-easy-remote-touch-display-flyer-fl048004en-en-us.pdf eaton-control-relay-easye4-flyer-fl050007en-en-us.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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