

Product datasheet

Specifications



multifunction input module Modicon Quantum - 32 I - DCF77

140ERT85410

- ❗ Discontinued on: 31 July 2012
- ❗ End-of-service on: 31 December 2020

❗ Discontinued

Main

Range of product	Modicon Quantum automation platform
Product or component type	Multifunction input module
Number of terminals	40

Complementary

Function of module	Status logging counting 500 Hz Status monitoring on discrete inputs Time and date stamped event logging
Time synchronisation protocol	DCF77
Product compatibility	Concept Unity Pro
Group of channels	2 groups of 16 inputs for process input
Discrete input number	1 discrete input(s) at 24 V for clock signal input 32 discrete input(s) at 24...125 V for process input
Switching voltage	125 V at 1 mA for process input 24 V at 6 mA for process input 48 V at 2.5 mA for process input 60 V at 2.5 mA for process input
Maximum power consumption in W	7.5 W for process input
Insulation	By optocoupler for clock signal input
Insulation between group of channels	By optocoupler
Anti bounce filtering	Configurable from 0 to 255 ms
Input state	Inversion configurable
Acquisition time	1 ms for clock signal input
Input current	5 mA for clock signal input
Electrical connection	Cable - shielded cable <600 m for process input Cable - unshielded cable <400 m for process input
Connections - terminals	Screw terminal block
Local signalling	1 LED (green) for communication on the bus (Active) 1 LED (green) for self test OK, module ready (R) 1 LED (red) for fault (F) 32 LEDs for status of inputs (1 to 32)
Current consumption	0.07 mA at 24 V DC 140XCP90000 module 3 mA at 24...125 V DC external power supply per group of channel

	300 mA at 5 V DC bus
Module format	Standard
Net weight	0.45 kg

Environment

Resistance to electrostatic discharge	4 kV contact conforming to IEC 801-2 8 kV on air conforming to IEC 801-2
Resistance to electromagnetic fields	10 V/m 80...2000 MHz conforming to IEC 801-3
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-40...85 °C
Relative humidity	95 % without condensation
Operating altitude	<= 5000 m
Protective treatment	TC
Standards	HazLoc UL 508
Product certifications	CSA Class 1 Division 2 UL LR C-Tick GOST Merchant Navy

Packing Units

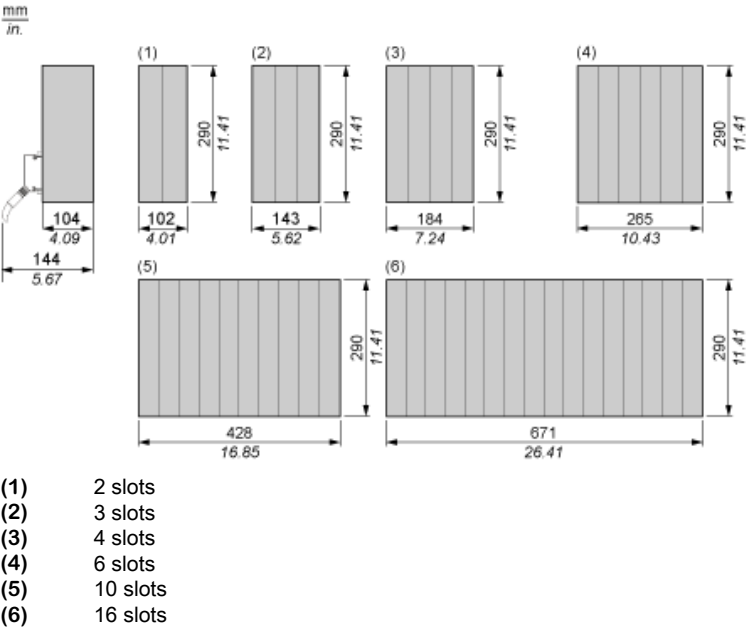
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5 cm
Package 1 Width	16.5 cm
Package 1 Length	31.5 cm
Package 1 Weight	485 g

Contractual warranty

Warranty	18 months
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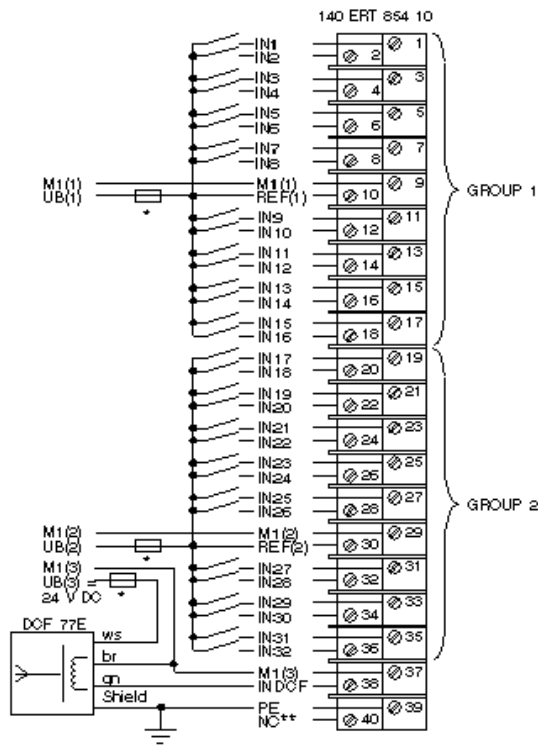
Racks for Modules Mounting

Dimensions of Modules and Racks



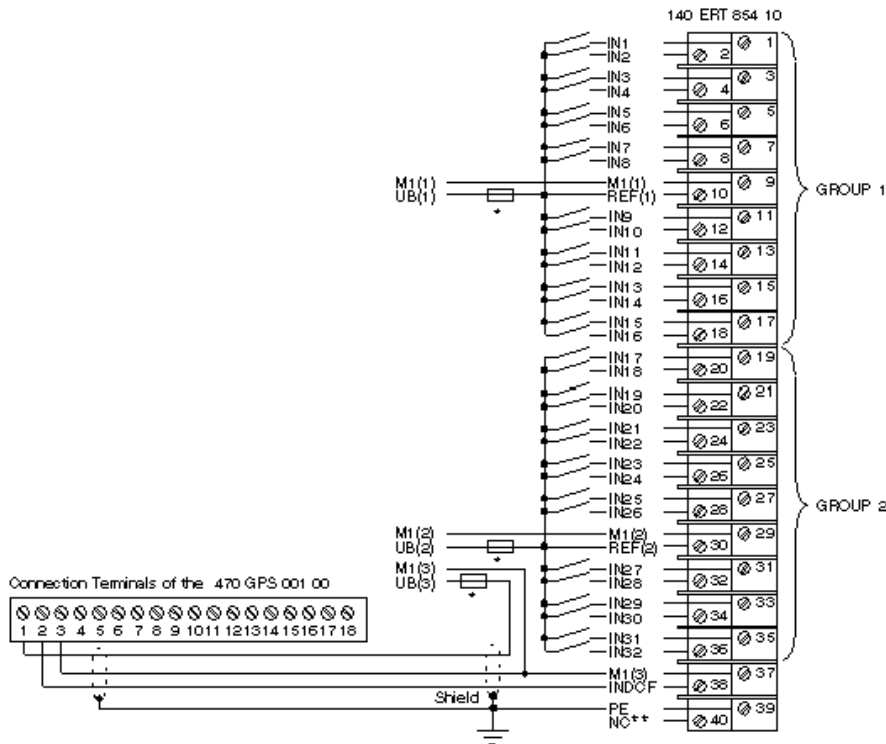
Multifunction Input Module

Connecting the DCF77E Time Receiver



- M1(1), M1(2), M1(3) : 0 VDC
- * UB(1), UB(2):24 ... 125 VDC, UB(3): 24 VDC, separate protection recommended
- ** not connected, suitable for support clamp for UB(3)

Connecting the GPS001 Time Receiver



- M1(1), M1(2), M1(3) : 0 VDC
- * UB(1), UB(2):24 ... 125 VDC, UB(3): 24 VDC, separate protection recommended
- ** not connected, suitable for support clamp for UB(3)

Recommended replacement(s)

140ERT85410 is replaced by:

1x



multifunction input module Modicon X80 - 16 I - 24/24..125 V
BMXERT1604T
