ABB 07KT93 Manual

Brand	ABB
Product Series	ABB
Product Type	-

Description

ABB 07 KT 93 Central Processing Unit 07KT93

The high-speed counter used in the basic unit 07 KT 93 works independently of the user program and is therefore able to response quickly to external signals.
Features
· The counting frequency is 10 kHz max. The counter counts the 0->1 edges at terminal 02 (also designated as E 62,00).

Enabling/disabling of the counting procedure using the internal variable A 63,14 in the user program:
A63,14 = O
The internal variable A 63,13 = 1 enables the counting procedure, whereas A 63,13 = 0 disables it.
A63,14 = 1
Signal 1 at terminal 03 (also designated as E 62,01) enables the counting procedure, whereas signal 0 disables it. A 63,13 is without effect. Note: The dead time may be 0...1.5 ms.
· Setting the counter in the user program:
to the value contained in the internal word variable AW 06,15
using the internal variable A 63,15 = 1.
Note: If the internal variable A 63,15 = 1 is present during several processing cycles, the processor sets the counter at the program end in each case. During the remaining time of the processing cycle, the counter counts pulses at terminal 02.
· The counter content can be read via the internal variable EW 06,15.
· Zero-crossing message (signal changes from 0 to 1 when the counter contents changes from -1 to 0):
always via the internal variable E 63,13,
at the terminal 36 (also designated as A 62,00) only,
if the internal variable A 63,14 = 1 is set. Note: The reaction time may be 0...1.5 ms. The direct control of the output A 62,00 from the user program is disabled by A 63,14 = 1.
The zero-crossing message is cancelled when the counter is set.
· Fast input of digital signals into the user program with

a delay of < 0.02 ms:
Terminal 02 (also designated as E 62,00):
Internal variable E 63,14
Terminal 03 (also designated as E 62,01):
Internal variable E 63,15