CRANE Application with DELTA C2000 drive by using its internal PLC features

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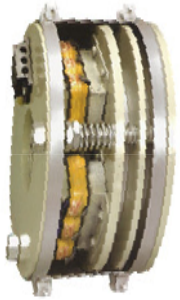
Concept

The Hoist Motor’s Electromagnetic brake is controlled by the Output Relay of the C2000 drive using brake logic function (logic program made in internal PLC of the drive)

C2000 Drive

Electromagnetic brake



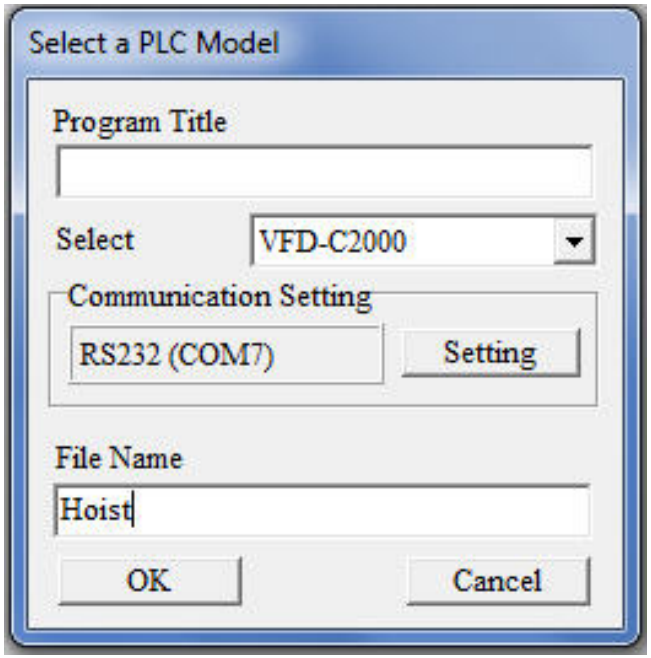
Hoist Motor

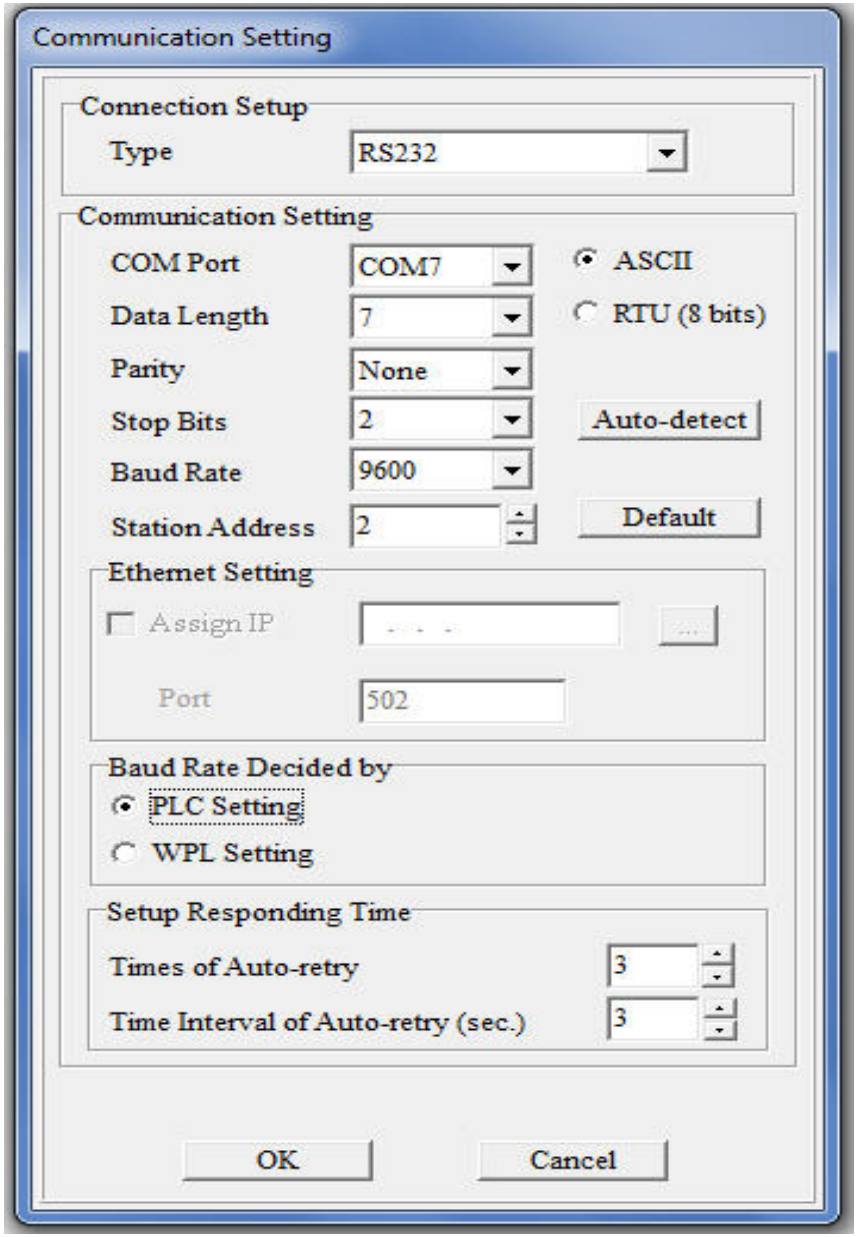
Software used

1. WPL Soft – For downloading the brake logic software into the drive's internal PLC

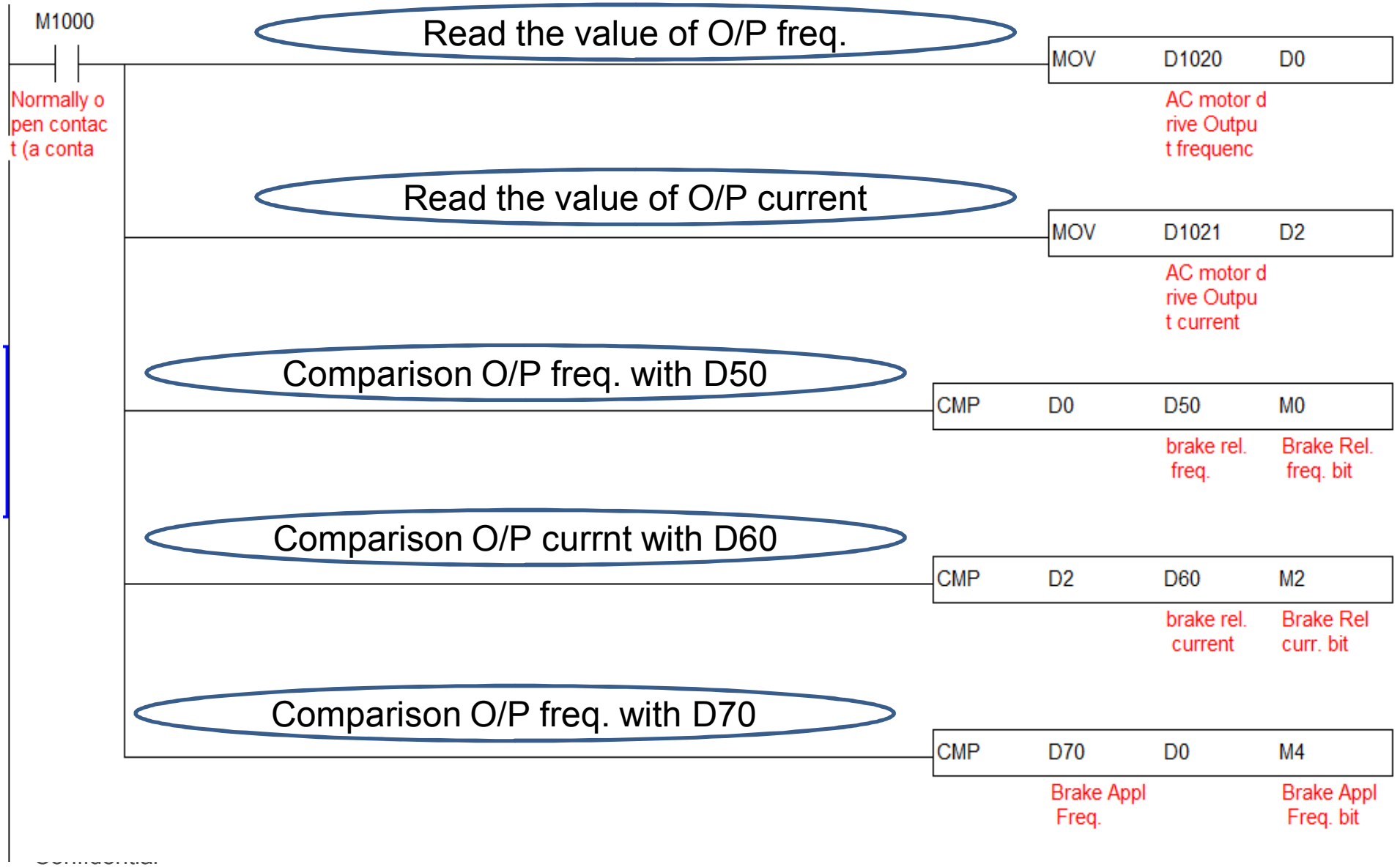
2. TP Editor – For downloading the screen containing brake engage / dis-engage frequency setting and current setting into LCP of drive.

WPLSoft Communication Setting

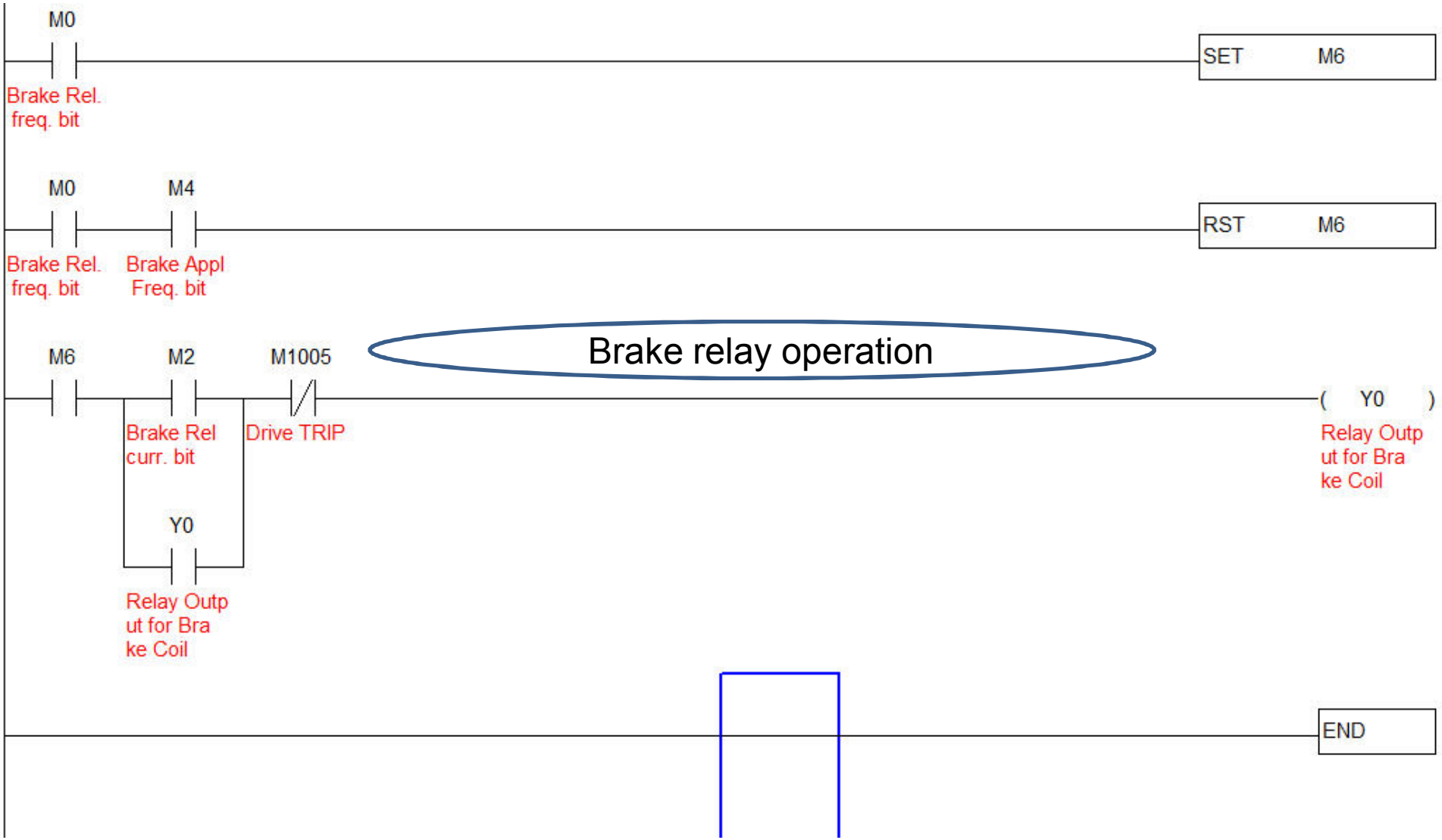




Brake Logic Sequence

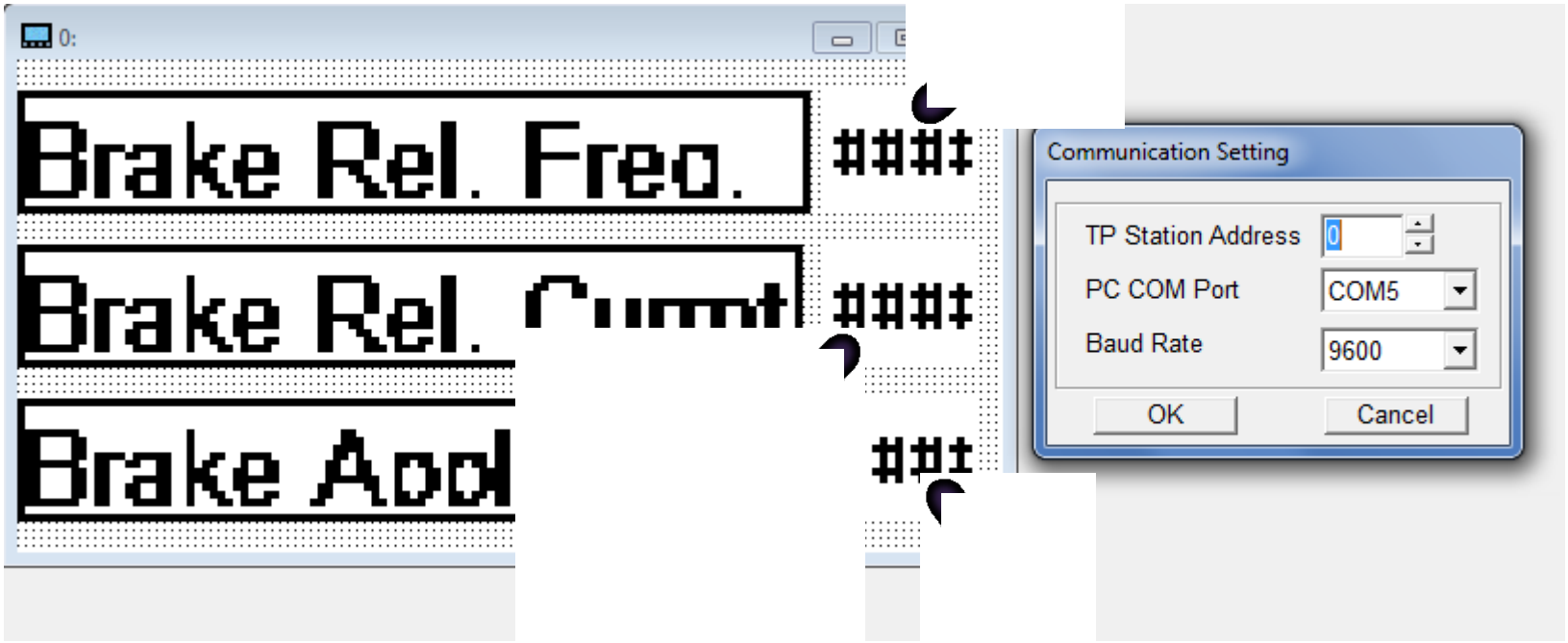


Brake Logic Sequence



TP Editor Communication Setting

D50 = brake release frequency set



D60 = brake release current set

D70 = brake apply frequency set

Devices Required for Downloading

- WPL Soft (C2000) ⟹ DVPACAB2A
- TP Editor (LCP Panel) ⟹ IFD6530

Note :-

The values of D50, D60 and D70 vary according to the Crane type and load requirement.

Thank you

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