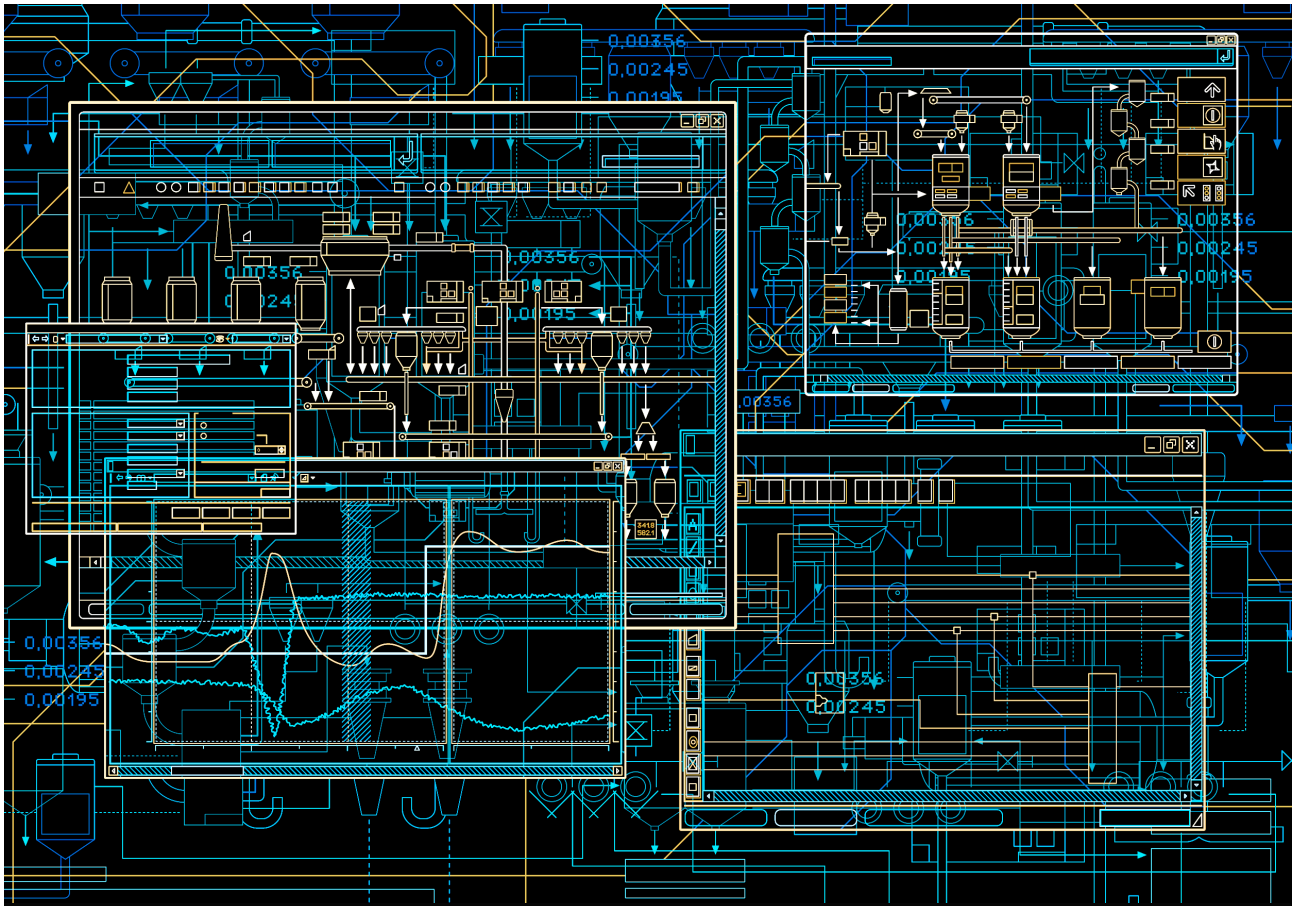


AC 800M

Controller Hardware
Product Guide

System Version 5.1

Power and productivity
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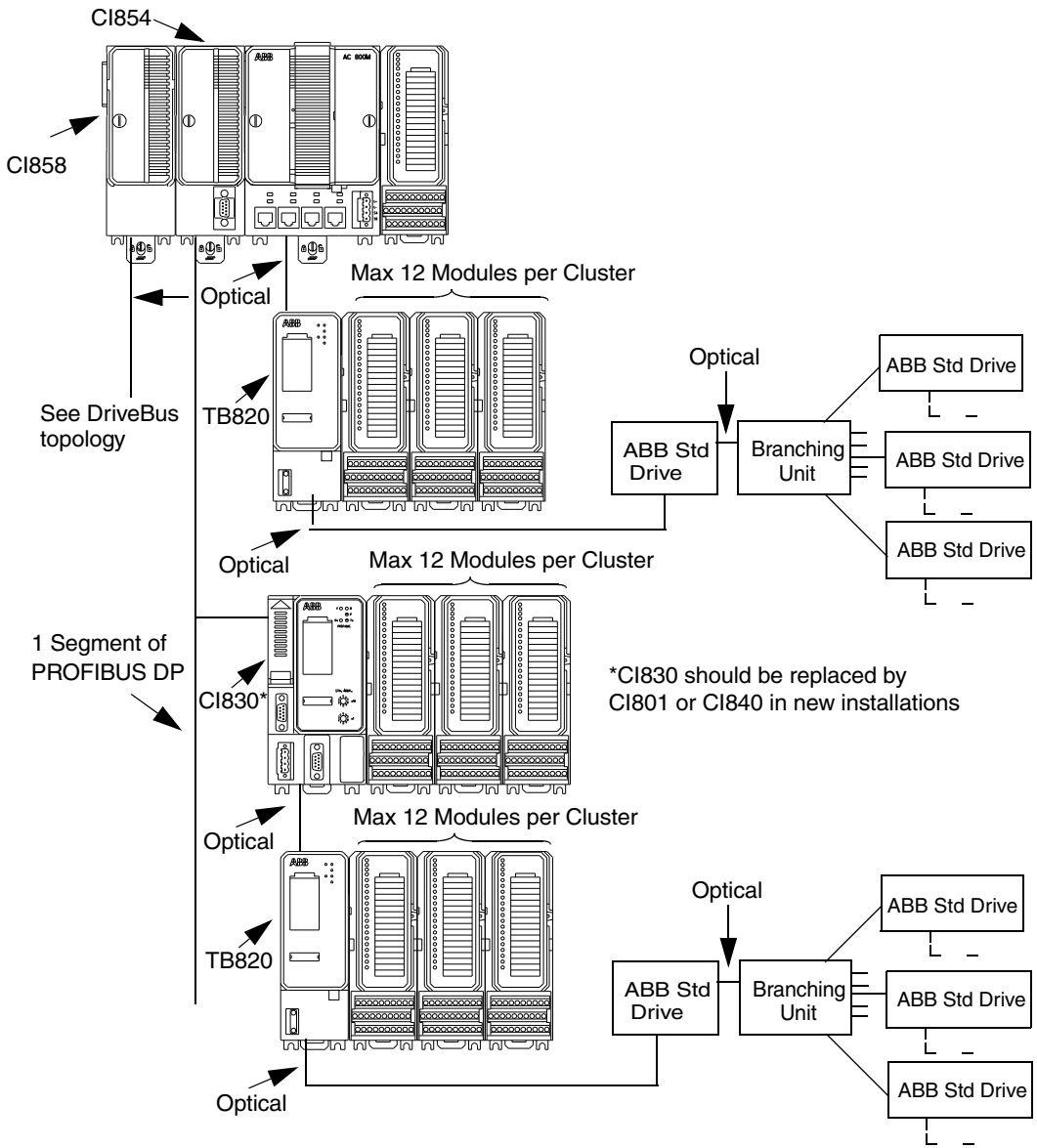


Figure 12. Example of Connection of ABB Drives in Single CPU Configuration

Table 30. Maximum Current Supply to CPU incl. ModuleBus and CEX-Bus (24 V)

CPU	Maximum Supply Current
PM864/864A (single)	4.4 A
PM864/864A (redundant pair)	3.4 A (no ModuleBus)
PM865 (single)	4.4 A
PM865 (redundant pair)	3.4 A (no ModuleBus)
PM866 (single)	4.2 A
PM866 (redundant pair)	3.2 A (no ModuleBus)
PM891(single)	3.2 A (no ModuleBus)
PM891 (redundant pair)	3.9 A (no ModuleBus)

Calculations

1. Calculate the current requirements for each bus (ModuleBus and CEX-Bus). Be sure not to exceed the limits given in Table 29 on page 159. Data relating to TB820, TB840 and CI830 is accessible from the S800 I/O documentation.
2. Calculate the current consumption at 24 V, for each electrical ModuleBus, by adding:

   $I_m = I_{(24\ V)} + I_{(5\ V)}$ x 0.3
3. To calculate the requirement for a specific power supply unit, total the results of the 24V current consumption calculations, as follows:

   $I_{tot} = I_{m1} + I_{m2} + ... + I_{units\ Table\ 28} + I_{CI830s} + I_{TB820s} + I_{TB840s}$

   If redundant CPUs are used, current for both CPUs must be included.

INDEX

A

ABB Drives 31, 44
AC 800M 36, 49, 51, 53, 86
AF100 31
Al-profile 109, 154
Applicable Specifications 15

B

Base plate 23
Battery Back-up 32
    External battery 99, 124, 146 to 147
    External battery SB822 99
    Internal battery 99, 124
BC810 63, 131
Branching Unit 46

C

Cabinet Design 115
CAST 155
CEX-Bus 24, 26, 31, 55, 58, 86, 128
    Extension 110
    Termination 110
CEX-Bus Interconnection Unit 131
CI 860 86
CI830 44
CI840 36
CI851 72, 134
CI853 74, 135
CI854 36, 76, 136
CI854A 36, 76, 136
CI855 78, 137
CI856 36, 80, 138
CI857 82, 139
CI858 140
CI860 86, 141
CI862 36, 38
CI867 92, 144
CI868 71, 93, 145
CI869 94
CI871 96
CI873 98
CN1 53, 55, 58, 127
CN2 53, 55, 58, 127
COM3 56, 127
COM4 56, 127
Communication 31, 70, 127, 135
Control Builder 53, 56
Control Network 55, 58
CPU 53, 55, 123
Current consumption 158
    PM851/PM856/860/861/864 128

D

DIN rail 18, 32, 49, 109, 154
DriveBus 84, 140
DSBC173A 37
DSBC174/DSBC176 37

E

Electro-Magnetic Compatibility 175
Ethernet ports 24, 26
EUROPEAN UNION DIRECTIVE COMPLIANCE 15
External battery 32

F

Fieldbus Builder FOUNDATION Fieldbus 86
Fieldbus Communications Interface 37
FOUNDATION Fieldbus High Speed Ethernet 31, 86, 141