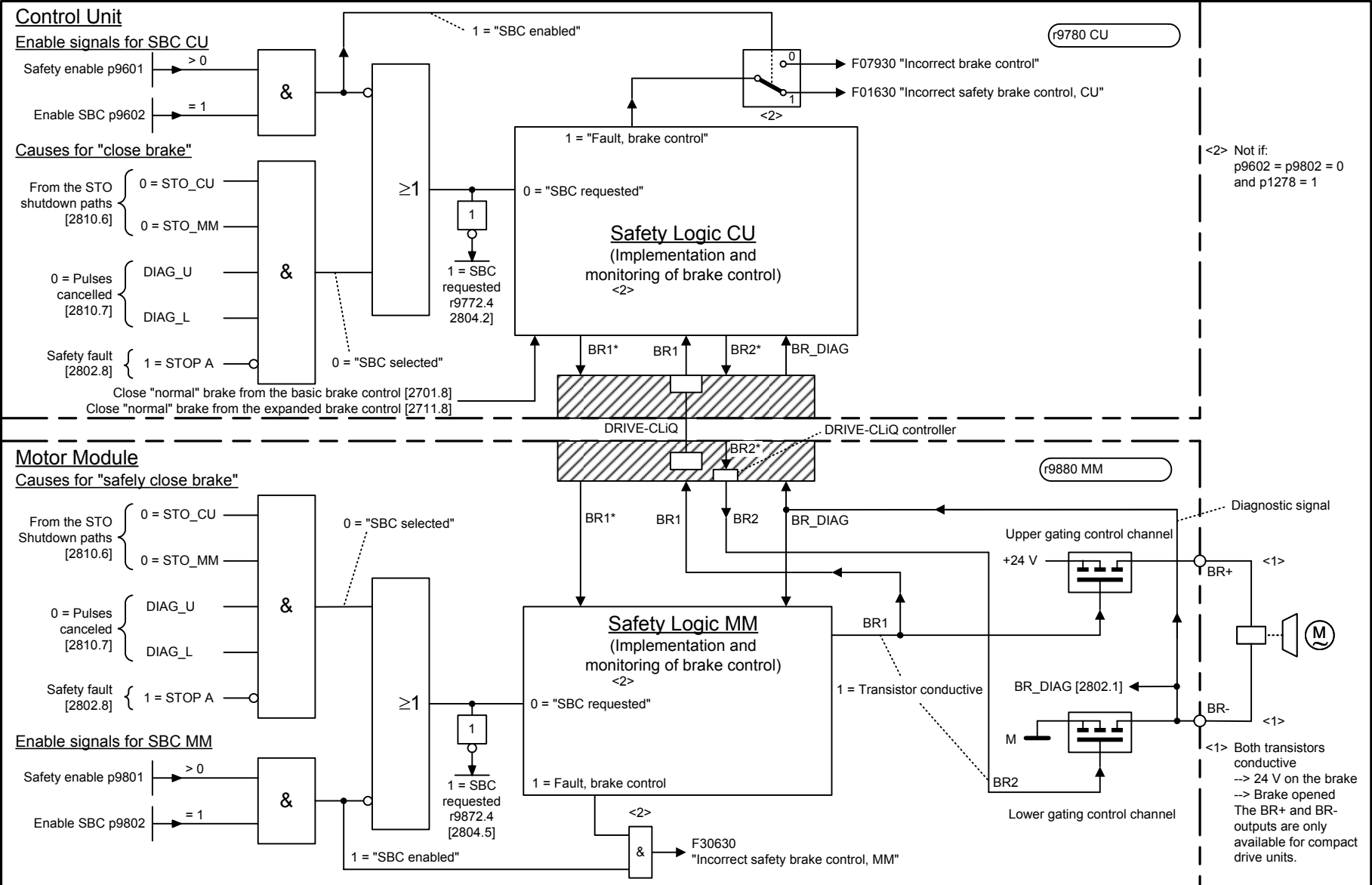
Control Unit
Enable signals for SBC CU
Safety enable p9601
> 0
Enable SBC p9602
= 1
&
1 = "SBC enabled"
r9780 CU
0
1
F07930 "Incorrect brake control"
F01630 "Incorrect safety brake control, CU"
<2>
Causes for "close brake"
From the STO shutdown paths [2810.6]
0 = STO_CU
0 = STO_MM
0 = Pulses cancelled [2810.7]
DIAG_U
DIAG_L
Safety fault [2802.8]
1 = STOP A
&
≥1
1
1 = SBC requested r9772.4 2804.2]
1 = "Fault, brake control"
0 = "SBC requested"
Safety Logic CU
(Implementation and monitoring of brake control)
<2>
0 = "SBC selected"
BR1*
BR1
BR2*
BR_DIAG
Close "normal" brake from the basic brake control [2701.8]
Close "normal" brake from the expanded brake control [2711.8]
DRIVE-CLiQ
DRIVE-CLiQ controller
<2> Not if:
p9602 = p9802 = 0
and p1278 = 1
Motor Module
Causes for "safely close brake"
r9880 MM
From the STO Shutdown paths [2810.6]
0 = STO_CU
0 = STO_MM
0 = Pulses canceled [2810.7]
DIAG_U
DIAG_L
Safety fault [2802.8]
1 = STOP A
&
≥1
1
1 = SBC requested r9872.4 [2804.5]
0 = "SBC selected"
BR1*
BR1
BR2
BR_DIAG
Diagnostic signal
Upper gating control channel
+24 V
BR+
<1>
Safety Logic MM
(Implementation and monitoring of brake control)
<2>
0 = "SBC requested"
1 = Fault, brake control
BR1
1 = Transistor conductive
BR_DIAG [2802.1]
BR-
M
BR2
Lower gating control channel
Enable signals for SBC MM
Safety enable p9801
> 0
Enable SBC p9802
= 1
&
1 = "SBC enabled"
<2>
&
F30630
"Incorrect safety brake control, MM"
<1> Both transistors conductive
--> 24 V on the brake
--> Brake opened
The BR+ and BR- outputs are only available for compact drive units.