



## Control Circuit Transformers and Fusing



Control circuit transformers (CCTs) are used to provide a reduced voltage for control circuits in motor control center (MCC) units. CCTs require primary protection per the National Electrical Code (Article 430-72[c]) and UL Safety Standard 845. This is accomplished through the use of two (2) Class CC time delay fuses of the proper voltage and ampere ratings. Dual-element time delay fuses are offered for protecting the secondary side of control circuit transformers.

**Table 1 Control Circuit Transformer for Bulletin 2100 and 2400 MCC Units**

Continuous VA	Primary Voltage					
	208V-60Hz Part Number	240V-60Hz Part Number	480V-60Hz Part Number	600V-60Hz Part Number	220/230V-50Hz Part Number	380/400/415V-50Hz Part Number
50	—	25636-167-02	25636-167-01	25636-167-03	25636-167-07	40121-463-01
75	—	25636-169-02	25636-169-01	25636-169-03	25636-169-07	40121-464-01
80	1497-B-HXDX-0-N	1497-B-BASX-0-N		1497-B-CXSX-0-N	1497-B-BASX-0-N	1497-B-M4-0-N
130	1497-C-HXDX-0-N	1497-C-BASX-0-N		1497-C-CXSX-0-N	1497-C-BASX-0-N	1497-C-M4-0-N
200	1497-D-HXDX-0-N	1497-D-BASX-0-N		1497-D-CXSX-0-N	1497-D-BASX-0-N	1497-D-M4-0-N
250	1497-E-HXDX-0-N	1497-E-BASX-0-N		1497-E-CXSX-0-N	1497-E-BASX-0-N	1497-E-M4-0-N
350	1497-F-HXDX-0-N	1497-F-BASX-0-N		1497-F-CXSX-0-N	1497-F-BASX-0-N	1497-F-M4-0-N
500	1497-G-HXDX-0-N	1497-G-BASX-0-N		1497-G-CXSX-0-N	1497-G-BASX-0-N	1497-G-M4-0-N
750	1497-H-HXDX-0-N	1497-H-BASX-0-N		1497-H-CXSX-0-N	1497-H-BASX-0-N	1497-H-M4-0-N
1000	1497-K-HXDX-0-N	1497-K-BASX-0-N		1497-K-CXSX-0-N	1497-K-BASX-0-N	1497-K-M4-0-N

**Table 2 Primary Fusing for Bulletin 2100 and 2400 MCC Units**

Contin- uous VA	Primary Voltage											
	208V-60Hz		240V-60Hz		480V-60Hz		600V-60Hz		220/230V-50Hz		380/400/415V-50Hz	
	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number
50	—	—	0.50A	(2) 25183-273-09	0.50A	(2) 25183-273-09	0.40A	(2) 25183-273-08	0.50A	(2) 25183-273-09	0.50A	(2) 25183-273-09
75	—	—	0.75A	(2) 25183-273-11	0.75A	(2) 25183-273-11	0.50A	(2) 25183-273-09	0.75A	(2) 25183-273-11	0.75A	(2) 25183-273-11
80	0.75A	(2) 25183-273-11	0.75A	(2) 25183-273-11	0.75A	(2) 25183-273-11	0.50A	(2) 25183-273-09	0.75A	(2) 25183-273-11	0.75A	(2) 25183-273-11
130	1.00A	(2) 25183-273-13	1.00A	(2) 25183-273-13	1.00A	(2) 25183-273-13	1.00A	(2) 25183-273-13	1.00A	(2) 25183-273-13	1.00A	(2) 25183-273-13
200	2.00A	(2) 25183-273-20	2.00A	(2) 25183-273-20	2.00A	(2) 25183-273-20	1.00A	(2) 25183-273-13	2.00A	(2) 25183-273-20	2.00A	(2) 25183-273-20
250	5.00A	(2) 25183-273-29	2.00A	(2) 25183-273-20	2.00A	(2) 25183-273-20	2.00A	(2) 25183-273-20	5.00A	(2) 25183-273-29	2.00A	(2) 25183-273-20
350	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29	3.50A	(2) 25183-273-26	2.00A	(2) 25183-273-20	5.00A	(2) 25183-273-29	2.00A	(2) 25183-273-20
500	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29	3.50A	(2) 25183-273-26	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29
750	7.50A	(2) 25183-273-34	7.50A	(2) 25183-273-34	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29	7.50A	(2) 25183-273-34	5.00A	(2) 25183-273-29
1000	7.50A	(2) 25183-273-34	7.50A	(2) 25183-273-34	5.00A	(2) 25183-273-29	5.00A	(2) 25183-273-29	7.50A	(2) 25183-273-34	5.00A	(2) 25183-273-29

**Table 3 Secondary Fusing for Bulletin 2100 and 2400 MCC Units**

Contin- uous VA	Bulletin 2100 Units Secondary Voltage						Bulletin 2400 Units Secondary Voltage					
	120V-60Hz		110/115V-50Hz		220/230/240V-50Hz		120V-60Hz		110/115V-50Hz		220/230/240V-50Hz	
	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number	Fuse Rating	Part Number
50	—	—	—	—	—	—	0.50A	25183-174-06	0.50A	25183-174-06	0.30A	25183-174-04
75	1.00A	X-276126	1.00A	X-276126	0.50A	X-276119	1.00A	25183-174-09	1.00A	25183-174-09	0.50A	25183-174-06
80	1.00A	X-276126	1.00A	X-276126	0.50A	X-276119	1.00A	25183-174-09	1.00A	25183-174-09	0.50A	25183-174-06
130	1.25A	X-276120	1.25A	X-276120	0.60A	X-276125	1.25A	25183-174-10	1.25A	25183-174-10	0.60A	25183-174-07
200	1.80A	X-276132	2.00A	X-276121	1.00A	X-276126	2.00A	25183-174-14	2.00A	25183-174-14	1.00A	25183-174-09
250	2.25A	X-276133	2.50A	X-276128	1.25A	X-276120	3.00A	25183-174-17	3.00A	25183-174-17	1.25A	25183-174-10
350	3.20A	X-276122	3.20A	X-276122	1.80A	X-276132	3.20A	25183-174-18	5.00A	25183-174-20	2.00A	25183-174-14
500	5.00A	X-276123	5.00A	X-276123	2.50A	X-276128	—	—	—	—	—	—
750	6.25A	X-276129	8.00A	X-276130	5.00A	X-276123	—	—	—	—	—	—
1000	10.00A	X-276131	10.00A	X-276131	5.00A	X-276123	—	—	—	—	—	—

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