

CCMR Series POWR-PRO® Class CC and CD Fuses

600 VAC • Dual-Element, Time-Delay • 2/10 – 60 Amperes



For space saving protection of motor circuits up to 40 HP*, we recommend Littelfuse POWR-PRO CCMR series fuses. These fuses are the only true dual-element, time-delay fuses that come in a small package specifically engineered for motor branch circuit protection. CCMR series fuses provide Type 2 “No Damage” protection to both NEMA-rated and the more sensitive IEC (International Electrotechnical Commission) type motor circuit components.

Rating for rating, CCMR fuses are the most current-limiting fuses available. They also provide superior short-circuit protection since their time-delay characteristics permit the use of smaller fuse ratings in motor

circuits than would be possible if using fast-acting fuses. CCMR series fuses provide superior protection in a fraction of the space required by other fuse classes. For example, when 600V three pole, 30 ampere Class R fuse blocks are replaced by Littelfuse Class CC fuse blocks, mounting space requirements may be reduced 70% or more. This is especially important when a panel contains control devices for many motors.

In addition to the UL Listed smaller sizes, Littelfuse CCMR series fuses are now available in larger sizes — from 35 to 60 amperes! **No other fuse is available with this current carrying capacity in a package this small. In fact, the 60 ampere CCMR fuse is the smallest 60A fuse available rated at 600 volts.**

Applications

CCMR series fuses are specifically designed to withstand sustained starting currents of small motors
Provide short-circuit protection for motor branch circuits
Use with IEC- and NEMA-rated motor controllers and contactors
General purpose circuits up to 60 amps

Features/Benefits

- Space savings — No other fuse class approved for branch circuit protection has a 600 volt rating and 300,000 A.I.R. in such a small package.
- Extremely current-limiting — Reduces damage caused by heating and magnetic effects of short-circuit currents. Stops damaging short-circuit currents faster than any mechanical protective device.
- Excellent time-delay — Eliminates needless downtime caused by power surges or equipment demands. Permits selection of fuse sizes closer to actual load conditions, which provides better protection.
- 300kA Interrupting Rating — Littelfuse self-certified to 300,000 amperes as standard. Meets future trend towards higher available short-circuit currents.

**Consult the Motor Protection Tables in the Fuseology section for specific motor sizing information*

Specifications

Voltage Ratings:	AC: 600 Volts
	DC: 250 Volts (CCMR 2/10 — 2A) (CCMR 4½ — 10A) (CCMR 35 — 60A)
	300 Volts (CCMR 2½ — 4A)
	500 Volts (CCMR 12 — 30A)
Interrupting Ratings:	AC: 200,000 amperes rms symmetrical 300,000 amperes rms symmetrical (Littelfuse self-certified)
	DC: 20,000 amperes
Ampere Range:	2/10 — 60 amperes
Approvals:	AC: Standard 248-4, Class CC
	UL Listed 2/10 — 30 amps (File No: E81895)
	Standard 248, Class CD
	UL Listed 35 — 60 amps (File No: E81895)
	CSA Certified 2/10 — 60 amps (File No: LR29862)
	DC: Littelfuse self-certified

Ampere Ratings

2/10	1	2	3½	6¼	12	35
¼	1¼	2¼	4	7	15	40
3/10	1½	2½	4½	7½	17½	45
½	1½	2½	5	8	20	50
5/10	1¾	3	5½	9	25	60
8/10	1¾	3½	6	10	30	

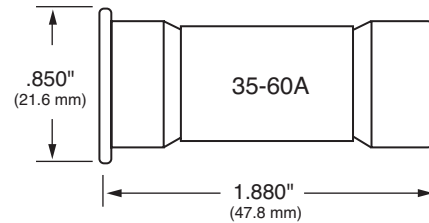
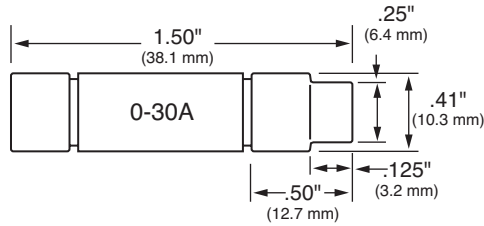
Example part number (series & amperage): CCMR 40

Recommended Fuse Blocks

LPSC (CCMR 2/10 — 30A)
L60030C series (CCMR 2/10 — 30A)
L60060C series (CCMR 35 — 60A)
Refer to Blocks & Holders section of this catalog for additional information.

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POWR-PRO® Fuses

Current-Limiting Effects of CCMR (600V) fuses

Short Circuit Current*	Apparent RMS Symmetrical For Various Fuse Ratings							
	2A	4A	6 1/4A	10A	12A	15A	20A	30A
5,000	160	190	330	370	525	600	625	750
10,000	180	220	400	440	600	700	725	875
15,000	200	250	430	480	675	775	800	950
20,000	220	260	460	520	720	825	850	1,000
25,000	230	280	480	550	750	850	900	1,050
30,000	240	290	500	570	800	900	950	1,125
35,000	245	300	520	590	825	925	975	1,175
40,000	255	310	550	600	850	975	1,000	1,200
50,000	260	330	570	640	875	1,000	1,100	1,300
60,000	280	340	600	670	900	1,050	1,125	1,350
80,000	300	360	625	700	1,000	1,125	1,200	1,400
100,000	310	380	650	750	1,050	1,200	1,250	1,500
150,000	340	420	700	800	1,150	1,300	1,400	1,600
200,000	350	440	750	850	1,200	1,400	1,450	1,750

*Prospective RMS Symmetrical Amperes Short-Circuit Current

Note: Data Derived from Peak Let-Thru Curves

