



Figure 1

### RANGE: 30 (miniature), 30, 60, and 100 Amp at 600V a.c.

A range of fully shrouded HRC Fuse Holders having an advanced design. They incorporate a high level of innovation, with enhanced performance characteristics and comply with the requirements of: CSA C22.2 No. 39 as well as IEC 269 and BS88 Standards.

### Unique Cam Action

The Fuse Carriers are fitted with a cam for ease of removal from the Fuse Bases allowing significantly improved contact pressure between Fuse Carrier and Fuse Base contacts, with a corresponding enhanced electrical performance level. This design overcomes a major problem of all existing dead front style Fuse Holders manufactured worldwide, which have to compromise between difficulties of Fuse Carrier removal from Base and contact pressure achieved.

### Lockable Safety Carriers

A range of Lockable Safety Carriers for the CAMASTER Fuse Holder (Cat ref: LSC), are available. This distinct feature ensures isolation can be achieved allowing maintenance to be carried out in safety.

### Fixing Torque and Cable Size

Ref	Fuse Fixing Tightening Torques	Max Cable Size
CM20CF	1.5Nm	#2
CM30CF	1.5Nm	#2
CM60CF	2.0Nm	2/0
CM100CF	2.0Nm	2/0

### CAMASTER Ratings

Rating	Details	Reference	Fuse Accommodated
30 Amp	For HRCI-CA Applications	CM20CF	--CIF21
30 Amp 60 Amp 100 Amp	For HRCII Applications	CM30CF CM60CF CM100CF	---H07C ---K07C ---K07CR

### Accessories for CAMASTER Units

Rating	Details	Reference	Fuse Accommodated
30 Amp 30 Amp 60/100 Amp	Back Stud	20BS 30BS 60/100BS	For CM20CF For CM30CF For CM60/100CF
All	Ganging Link Kit	GLP	For 3 Pole
All	660V Neon Indicator	NI-660	--
30 Amp 30 Amp 60/100 Amp All	Security Carrier with Clip. Clip Only	20LSC 30LSC 60/100LSC CMCS	For CM20CF For CM30CF For CM60/100CF For all sizes
30 Amp 30 Amp 60/100 Amp	Solid Link	20CML 32CML 63/100 CML	For CM20CF For CM30CF For CM60/100CF

### Cross Reference

Amps	Mounting	Edison	Old Brush		GEC	Fusetek
30	Front	CM20CF	CIF15F	CIF15A	CRS15H	MF20F
	Front/2-pole	2xCM20CF + GLP	--	--	C2RS15H	--
	Back	CM20CF + 2 off 20BS	CIF15BS	CIF15B	--	--
	Front/Back	CM20CF _ 1 off 20BS	CIF15FBS	CIF15C	--	--
30	Front	CM30CF	C30AF	CCH30A	C30H or CRS30H	MF30F
	Back	CM30CF + 2 off 30BS	C20ABS	CCH30B	C30P	MF30B
	Front/Back	CM30CF + 1 off 30BS	C30AFBS	CCH30C	C30PH	MF30FB
60	Front	CM60CF	C60BF	CCK60A	C60H or CRS60H	MF60F
	Back	CM60CF + 2 of 60/100BS	C60BBS	CCK60B	C60P	MF60B
	Front/Back	CM60CF + 1 of 60/100BS	C60FBS	CCK60C	C60PH	MF60FB
100*	Front	CM100CF	C100CF	CCL100A	C100H or CRS100H	MF100F
	Back	CM100CF + 2 of 60/100BS	C100CBS	CCL100B	C100P	MF100B
	Front/Back	CM100CF + 1 or 60/100BS	C100CFBS	CCL100C	C100PH	MF100FB

\*Edison uses compact fuse.

## Unique Conversion Capability

The standard Fuse Holders can be readily converted from Front Connection to Front/Back Stud and Double Back Stud Connection types at the point of use. This is achieved with a unique Back Stud Accessory and the use of a screwdriver. See conversion sequence in Fig. 2. Steps 1, 2 and 3 show removal of end ferrule and insertion of Back Stud Accessory to give the Front/Back Stud Connection type. This sequence repeated at the opposite end gives the Double Back Stud Connection type shown in step 4.

## Unique Cable Termination

The fuse holder's unique cable terminations are designed for user convenience and to ensure long-term reliability. They incorporate Stainless Steel Saddles and Hardened Termination Screws, maintaining permanent cable clamping to profiled contact plates. The main electrical contact path between the cable and Fuse Link tag is shown highlighted. This permits the use of high tightening torques without damage to cables or threads and provides resistance to high cable pull out forces. (See Fig. 3.) The Fuse Holders are supplied with the Hardened Termination Screws backed out ready for cable insertion, saving installation time.

## Hinged Captive Screws

The Fuse Fixing Screws to Fuse Carrier are held in captive hinges providing ease of fixing and preventing loss during installation. (See Fig. 4.)

## Two/Three Pole Ganging

The unique design of the Carriers allows ganging to be readily achieved by the use of standard accessories. This provides improved safety related to isolation and protection of 2 Pole and 3 Pole electrical circuits by ensuring that the correctly related poles are removed at the same time. (See Fig. 5.)

## Dual Mounting Capability

The design as standard provides both Bolted Panel and DIN Rail mounting features. The DIN Rail mounting facility for each of the various dimensioned ratings is so designed as to give equal height and depth above the DIN Rail.

## Hinged Internal Shields

Non-removable full shrouding of live parts within the Fuse Base is provided by the use of hinged shields. The positive captive nature of these ensures that they cannot be omitted during installation and are so designed that insertion of the Fuse Carrier can only be made with them correctly positioned.

## Neon Indicator

Neon Clip-in Indicator Accessories are available providing clear location and status of fuses which have operated due to fault conditions. (See Fig. 6.)

## Circuit Identification

The Fuse Carrier has a marking label for ease of circuit identification.

## Strip Length Marking

The length of cable insulation that should be stripped off is shown on the side of the Fuse Base.

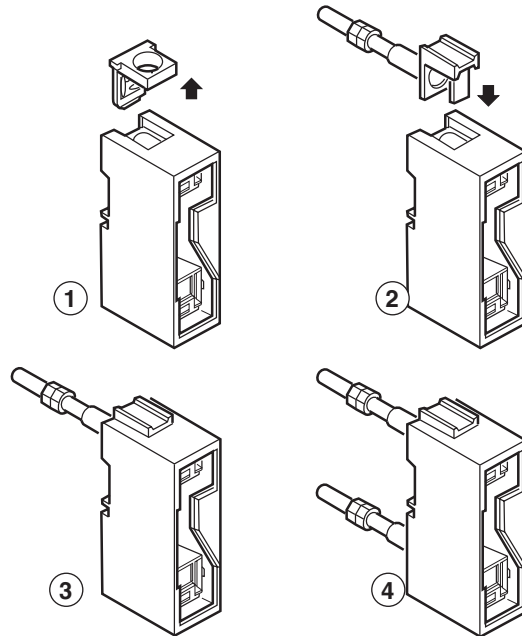


Figure 2. Unique Conversion Capability

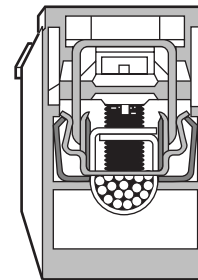


Figure 3. Unique Cable Termination

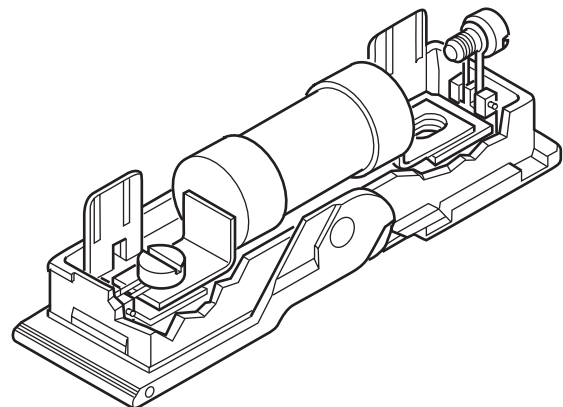


Figure 4. Hinged Captive Screws

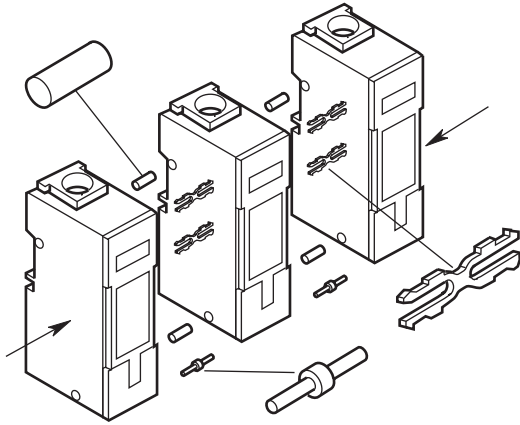


Figure 5. Two/Three Pole Ganging.

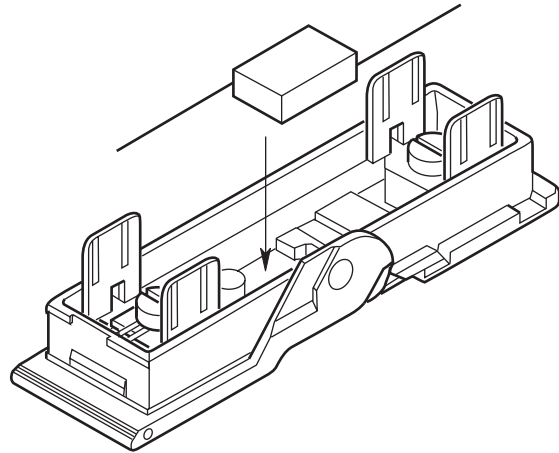
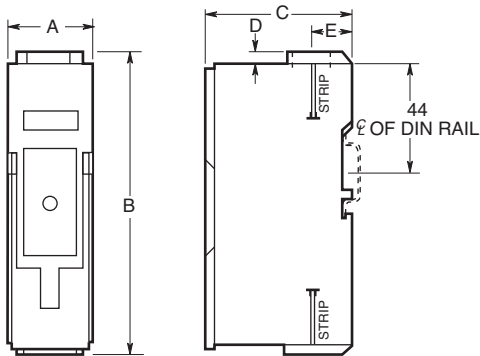
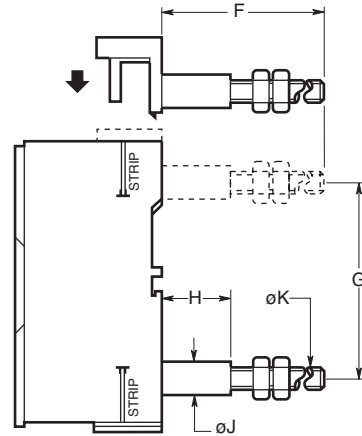


Figure 6. Neon Indicators.

### Standard Front Connected Unit



### Front/Back Stud and Double Back Stud Connected Units



Rating Amps	Catalog Number	Category	Dimensions in Inches and mm									
			A	B	C	D	E	F	G	H	J	K
30	CM20CF	HRCI-CA	1.0	3.69	2.36	.13	.64	2.60	2.29	1.13	.47	M6
			25.4	93.7	60	3.2	17.5	66	58	28.6	11.9	
30	CM30CF	HRCII-C	1.25	4.63	2.36	.13	.69	2.60	2.92	1.13	.47	M6
			31.8	117.5	60	3.2	17.5	66	74	28.6	11.9	
60	CM60CF	HRCII-C	1.40	4.93	2.36	.19	.65	3.41	3.14	1.13	.47	M8
			35.6	125	60	4.75	16.4	86.5	79.8	28.6	11.9	
100	CM100CF	HRCII-MISC	1.40	4.93	2.36	.19	.65	3.41	3.14	1.13	.47	M8
			35.6	125	60	4.75	16.4	86.5	79.8	28.6	11.9	

### Panel Drilling Plans, Viewed from Front of Panel

