COOPER Bussmann **OPTIMA**[™] **OPM-1038 Overcurrent Protection Module - Fuseholder and Switch Series** Disconnect Switch for 13/2" x 1 1/2" (10mm x 38mm) Fuses **Physical Characteristics:** • Small size matches 45mm IEC starter width. • Fits #8-18 AWG stranded wire, #10-18 AWG solid wire. • 3-pole version. Handle and shaft required for through-the-door operation. (See ordering information on page 2). **Product Features:** • "Open" fuse indication lights. • Finger-safe terminals. (Qualified as IP2O per IEC529) • Cam action handle for easy module removal. **Catalog Symbol:** • 35mm DIN-rail or screw panel mounting (#8 screw, 1 ¹/₄ long). • Dead front construction. No exposed contacts for added safety. Series Fuse Type Communication • Option for remote "open fuse" status indication feature available **O P M - 1 0 3 8** SW (reduces downtime). Offered with Class CC rejection clips or European 10mm x Blank - 10 x 38mm C - Communication 38mm clips to meet global needs. or 13/32" x 1-1/2" Feature · Wire ready: Saves time as terminals are ready to accept R - Class CC wires. Materials: Grey Thermoplastic UL Flammability: UL 94VO **Horsepower Rating of Switch: Agency Information:** V | 240 | 480 | 600 UL (see table below) 3PH HP 5 10 15 CSA Certified, C22.2 No. 39, Class 6225-01, File 47235 IEC (see table below) Shipping Weight: Approx. 335g (.74 lb.) Carton Quantity: 1

Catalog		SC		Remote Open	ULI	nformatior	า	
Number	Electrical Rating	Rating	Clips	Fuse Indication	Std.	File	Guide	IEC
OPM-1038SW	30A, 600Vac UL/CSA (Max. 3 Watts per fuse)	*	Non-rejection 10 x 38mm or	No	Recognized			
	32A, 660Vac IEC		13/32" x 1-1/2"		UL 508	E161278	NLRV2	IEC 947-3
OPM-1038RSW	30A, 600Vac UL/CSA	100kA	Rejection	No	Listed UL 508	E161278	NLRV	
OPM-1038SWC	30A, 600V UL/CSA (Max. 3 Watts per fuse) 32A, 660Vac IEC	*	Non-rejection 10 x 38mm or 13/32" x 1-1/2"	Yes	Recognized UL 508	E161278	NLRV2	IEC 947-3
OPM-1038RSWC	30A, 600Vac UL/CSA	100kA	Rejection Class CC	Yes	Listed UL 508	E161278	NLRV	

*Rating varies depending on fuse used in module, 100kA maximum..

Recommended Fuse Types:

Class CC	Midget (non-rejection)
LP-CC	KTK
KTK-R	FNM
FNQ-R	FNQ

Spare Fuseholder: Part No. 5TPH

C€ CE logo denotes compliance with European Union Low Voltage Directive (50-1000Vac, 75-1500Vdc). Refer to Data Sheet: 8002 or contact Bussmann Application Engineering at 636-527-1270 for more information. Applies to OPM-1038SW and OPM-1038RSW.





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Dimensional Data





Selector Handles - for use with shafts \bigcirc 0.24" x 0.24" (\bigcirc 6x6mm)

NEMA type	IEC type	Color	Defeatable	Padlockable	Weight (Ibs)	Catalog number
All marked	both O/I &	Off/On				
1	IP54 IP54	Black Red/Yel			0.09 0.09	CBDH1S CBDH2S
1	IP54	Black		Yes	0.12	CBDH15S
1	IP54	Red/Yel		Yes	0.12	CBDH16S
1,3R,12	IP65	Black		Yes	0.16	CBDH3S
1,3R,12	IP65	Red/Yel		Yes	0.16	CBDH4S
1,3R,12	IP65	Black	Yes	Yes	0.16	CBDH5S
1,3R,12	IP65	Red/Yel	Yes	Yes	0.16	CBDH6S

Pistol Handles - for use with shafts □ 0.24" x 0.24" (□ 6x6mm)

NEMA type	IEC type	Color	Marking	Length inches/mm		Padlockable	Weight (lbs)	Catalog number

All marked both O/I & Off/On

1,3R,12 1,3R,12 1,3R,12 1,3R,12	IP65 IP65 IP65 IP65	Red/Yel	0/1 & Off/On 0/1 & Off/On 0/1 & Off/On 0/1 & Off/On		Yes Yes Yes Yes	Yes Yes Yes Yes	0.28 0.28 0.29 0.29	BDH56 BDH57 BDH58 BDH59
1,3R,12,4,4X 1,3R,12,4,4X	1		0/1 & Off/On 0/1 & Off/On	2.6/65 2.6/65	Yes Yes	Yes Yes	0.29 0.29	CDHXB65L6 CDHXY65L6

Ordering Information for External Handle*:

OPTIMA Module + CDRKBS12 + Handle + Shaft = Complete Disconnect Switch (without fuses)

- 1. Order Cooper Bussmann part number CDRKBS12.
- 2. Select the appropriate handle style (Selector or Pistol).
- 3. Select the shaft corresponding to the handle type and mounting depth required.

*All switchable OPM-1038 modules come standard with a small black handle Cooper Bussmann part number CDRKBS12 must be ordered for all through-the-door applications.

Extended Shafts - Shaft Dimension (Gamma 6)

		-	-
For Handle	Mounting	Shaft	Catalog
Type	Depth**	Length	Number
Selector	4.2 - 5.0" 5.0 - 5.8" 5.6 - 6.4" 6.0 - 6.7" 7.1 - 8.7" 10.7 - 11.5" 13.8 - 14.6"	3.3" (85mm) 4.1" (105mm) 4.7" (120mm) 5.1" (130mm) 7.1" (180mm) 9.8" (250mm) 13.0" (330mm)	BDS85S BDS105S BDS120S BDS130S BDS180S BDS250S BDS250S BDS330S
Pistol	6.2 - 6.7"	5.9" (150mm)	BDS150
	7.0 - 7.5"	6.7" (170mm)	BDS170
	10.7 - 11.3"	10.4" (265mm)	BDS265
	16.0 - 16.6"	15.8" (400mm)	BDS400
	20.0 - 20.5"	19.7" (500mm)	BDS500

**Mounting depth is the distance from the outside of the door to the disconnect switch. Shaft can be cut to desired length.

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COOPER Bussmann

OPEN FUSE INDICATION

Status Output Specifications:

*Minimum operating voltage: 460Vac, 3-phase *Maximum operating voltage: 620Vac, 3-phase Status output maximum conducting current: 40mA Status output maximum on resistance: 35 ohms @ 40mA

Status output typical off resistance: >10 Mohm Status output maximum turn-on and turn-off delay: 850 milli-second

Status Output Interface Specifications:

Rated Voltage: Recommended 5-35Vdc, 300Vac max. Rated Current: 40mA max. Wire Size: #28-14 AWG

Torque: 2.25 lb. in.

Open Fuse Indicator Status Output Description:

The open fuse indicator status output acts very much like an on/off switch. With all three fuses in place and operating properly, this status output has a high resistance value of greater than ten mega-ohms. When one or more of the fuses are open, the status output becomes turned-on with a resistance value less than 35 ohms. This status output withstands voltage (ac or dc) up to 35V at off-state and conducts current up to 40 milli-amps at on-state. Applying voltage and current exceeding these limits will result in damage to the components inside this status output device permanently. There is some time-delay when the status output changes on/off state. The open fuse communications or status output device includes optical isolators within the unit.

Communications output states:

Fuse Good	NO - High Resistance, >10 megohms
Opened Fuse	NC - Low Resistance, < 35 ohms

Note: Operating this device beyond the above limits will cause permanent damage to the components on the board.

For applications requiring status output below a system voltage of 460V, contact Bussmann.

The examples shown below illustrate typical interface to Programmable Logic Controllers.

EXAMPLE 1: DIRECT INTERFACE TO PC/PLC







Note: When energized (switch in the "on" position), a low load terminal voltage will be present when fuses are open or when pullout module is removed. The leakage current is limited to .5mA maximum.

Example of Output Voltage with three open fuses or pullout module removed					
Catalog Number	OPM-1038RSW, OPM-1038SW	OPM-1038-RSWC, OPM-1038SWC			

	Types of Indication	Standard	Communication		
System Voltage (1L1-3L2-5L3)		Load Terminal Voltage (2T1-4T2-6T3)			
	125Vdc *	12Vdc *	31Vdc *		
	480Vac, 3-phase	26Vac	56Vac		
	600Vac, 3-phase	33Vac	88Vac		

There is no voltage at the load terminals (2T1-4T2-6T3) on the switch version (SW suffix) when the switch is in the "off" position.

*The communication device requires a minimum circuit voltage (1L1-3L2-5L3) of 460V for the status indicating device to operate. Below 460V, but above 120V, the indicator lights will luminate, but there will not be any communication status output.

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