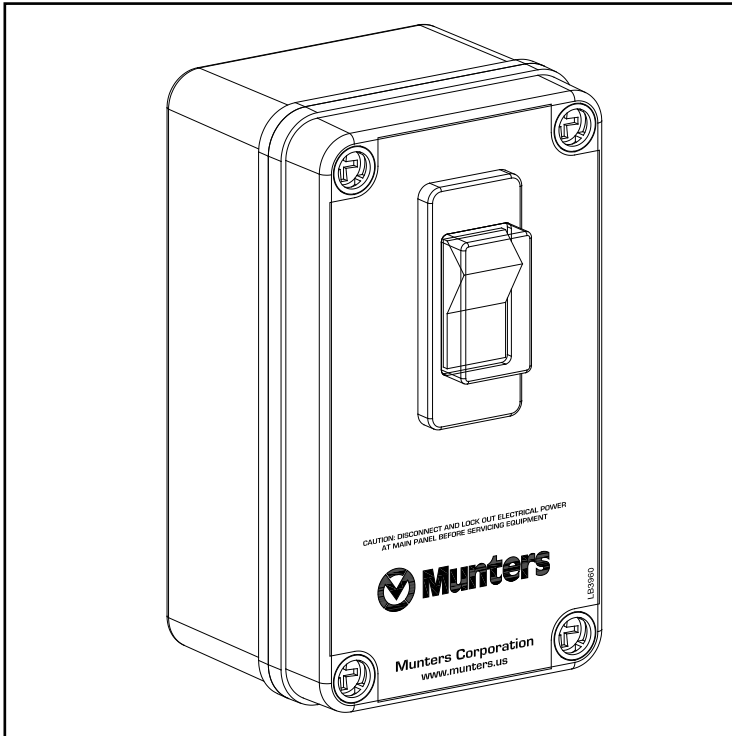


**"SY"
Series
Circuit Breaker
Switches**

Instruction Manual



"SY" Series

Circuit Breaker Switches

Models: SY2010 • SY2018 • SY2025 • SY2035 •
SY2050 • SY2070 • SY2080 • SY2100 • SY2150



"SY" Series Circuit Breaker Switches

Instructions for Use and Maintenance

Thank You:

Thank you for purchasing a "SY" Circuit Breaker Switch. Munters equipment is designed to be the highest performing, highest quality equipment you can buy. With the proper installation and maintenance it will provide many years of service.

Please Note:

To achieve maximum performance and insure long life from your Munters product it is essential that it be installed and maintained properly. Please read all instructions carefully before beginning installation.

Warranty:

For Warranty claims information see the "Warranty Claims and Return Policy" form QM1021 available from the [Munters Corporation office at 1-800-227-2376](http://www.munters.com) or by e-mail at aghort.info@munters.com.

Conditions and Limitations:

- Products and Systems involved in a warranty claim under the "Warranty Claims and Return Policy" shall have been properly installed, maintained and operated under competent supervision, according to the instructions provided by Munters Corporation.
- Malfunction or failure resulting from misuse, abuse, negligence, alteration, accident or lack of proper installation or maintenance shall not be considered a defect under the Warranty.

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Unpacking the Equipment

1.

1.1 Equipment

Before beginning installation, check the overall condition of the equipment. Remove packing materials, and examine all components for signs of shipping damage. Any shipping damage is the customer's responsibility and should be reported immediately to your freight carrier.

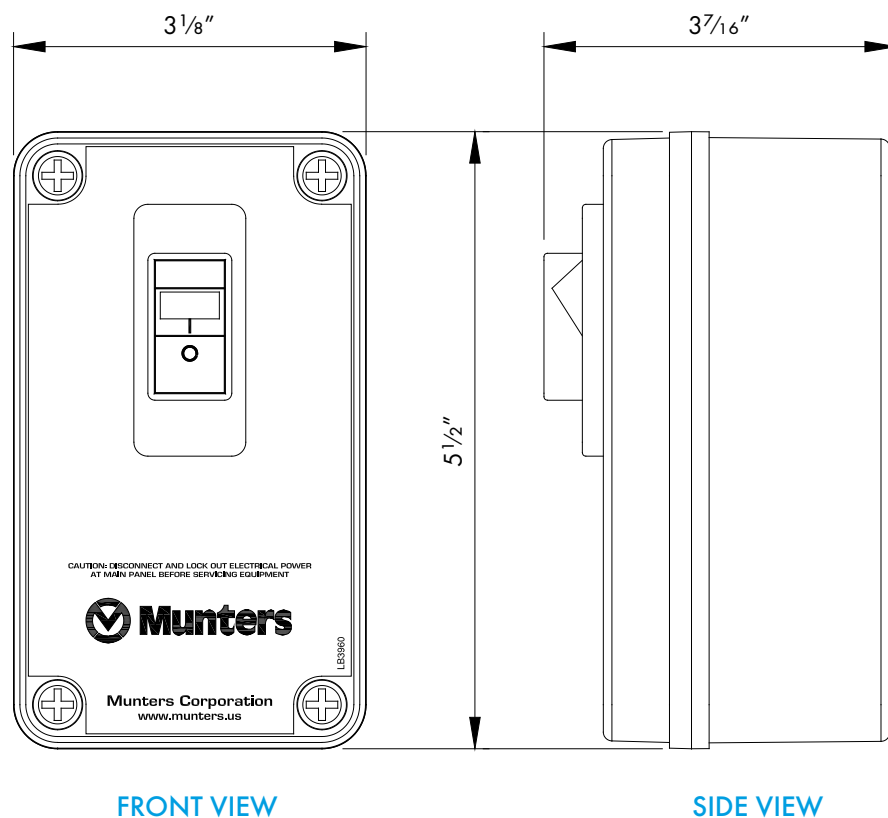
The Circuit Breaker Switch provides overload protection and a disconnect for single phase fan motors and other electrical equipment. Maximum voltage is 250VAC. An on/off indicating light and front seal are included. The Circuit Breaker Switch cannot be held "ON" against an overload.

See 'Selection Chart' in Chapter 4 for matching Circuit Breaker Switch model to load.

Note:

Three phase motors require motor starters with three phase overload protection. Contact your local electrician or electrical supply store.

1.2 Dimensions



2.1 Installation

Step 1

Determine a location for the Circuit Breaker Switch where the equipment to be controlled is no more than 25 feet away and is visible from the area of the switch. Open the enclosure and mount rear portion to a secure surface using (4) #6 x 1" screws through the holes in the back of box (not provided). See Figure 1.

Step 2

Drill entrance hole(s) in bottom of the enclosure for wiring. Use watertight connectors or PVC conduit to seal all wiring entrances. Watertight connectors may be ordered from Munters as follows:

CAT. NO.	Used with Wire	Round Cable	Mounting Hole Dia.
WC3208M	—	$\frac{3}{32}$ " - $\frac{1}{4}$ "	$\frac{1}{2}$ "
WC3217M	14/2 UF	$\frac{3}{16}$ " - $\frac{1}{2}$ "	$1\frac{3}{16}$ "

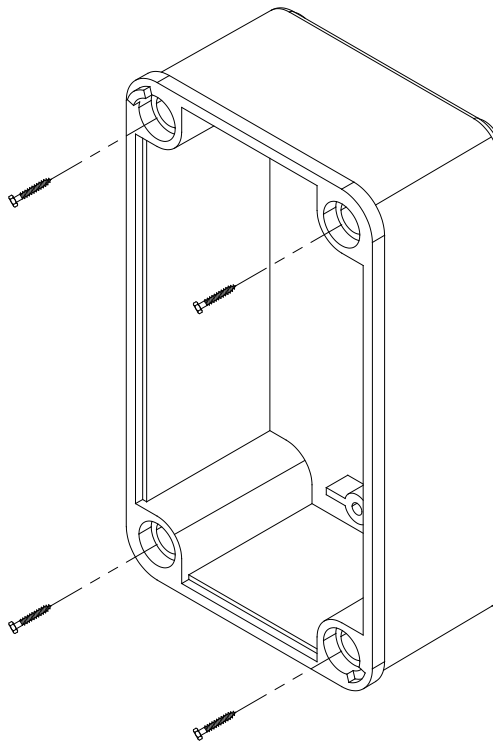


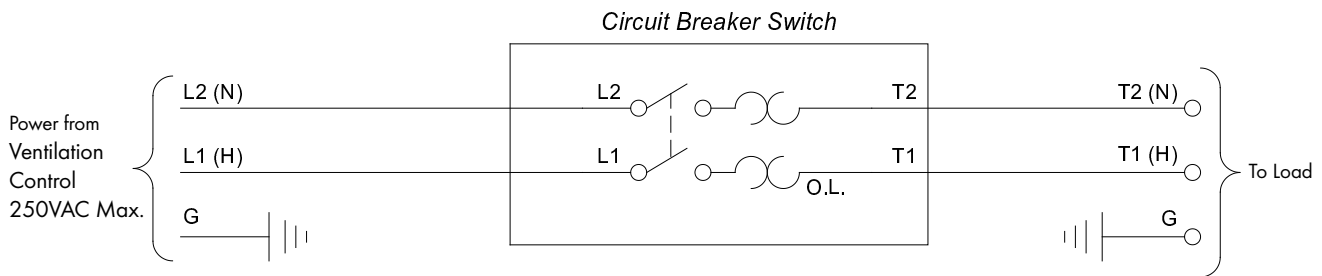
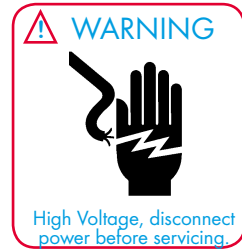
Figure 1

Step 3

All wiring should be installed in accordance with National, State and Local electrical codes. Disconnect electrical power at the main service panel. Make electrical connections as shown below.

Step 4

Position all wires in the enclosure to make room for the switch. Tighten any watertight connectors and then screw down the cover. Make sure the cover sits tight against the bottom. The Circuit Breaker Switch is now ready for use.

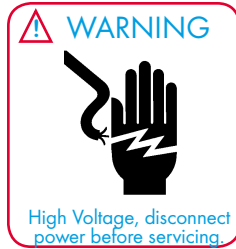


KEY:

L1	=	Line 1
L2	=	Line 2
O.L.	=	Overload
H	=	Hot
N	=	Neutral
G	=	Ground

Note:
 Information in parenthesis refers to 120VAC control. Connecting 120VAC neutral through L2 as shown will allow indicating light to operate.

3.1 Troubleshooting



SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
SY Circuit Breaker light is on but fan will not run	1. Defective wiring from breaker to fan	Replace wiring
	2. Defective motor	Service Motor
SY Circuit Breaker light is off and fan will not run	1. SY Breaker is turned off	Turn on breaker
	2. Panel circuit breaker has tripped	Reset breaker
	3. Thermostat or control is not calling for fan to be on	Adjust temperature set point
	4. Defective wiring to SY Breaker	Replace wiring
	5. Defective SY Breaker	Replace Breaker

Circuit Breaker Switch Selection Chart

4.

Direct Drive Fan Motors - 60 Hz - Single Phase				
Used with Fan	Motor HP	Motor RPM	120 VAC SY Series/Fuses	240 VAC SY Series/Fuses
9"-10"	1/6	3250	SY2025 / 2.5A	—
9"-10"	1/6	3250	—	SY2018 / 1.8A
14"	1/8	1625	SY2018 / 1.8A	SY2010 / 1.0A
16"	1/4	1625	SY2035 / 3.5A	SY2018 / 1.8A
18"	1/3	1625	SY2050 / 5.0A	SY2035 / 3.5A
24"-26"	1/3	1075	SY2050 / 5.0A	SY2035 / 3.5A
36"	1/2	850	SY2080 / 8.0A	SY2050 / 5.0A
36"	1/2	825	SY2080 / 8.0A	SY2050 / 5.0A
36"-48"	1	850	—	SY2070 / 7.0A
Belt Drive Fan Motors - 60 Hz - Single Phase				
36"	1/2	1725	SY2070 / 7.0A	SY2035 / 3.5A
36"	1/2-0.14	1725-1140	—	SY2035 / 3.5A
36"-51"	1.0-0.29	1725-1140	—	SY2070 / 7.0A
36"-54"	1	1725	SY2150 / 15.0A	SY2080 / 8.0A
36"-60"	1-1/2	1725	—	SY2100 / 10.0A
48"-60"	1.5-0.44	1725-1140	—	SY2080 / 8.0A
48"-60"	2	1725	—	SY2150 / 15.0A
Pumps - Single Phase Motors				
Catalog No.	Motor HP	Motor RPM	120 VAC SY Series/Fuses	240 VAC SY Series/Fuses
EC1119	3/10	1725	SY2100 / 10.0A	—
EC1319*	1/3	1750	SY2070 / 7.0A	—
EC1122*	4/10	1750	SY2150 / 15.0A	—
EC1123*	4/10	1750	—	SY2080 / 8.0A
EC1163	4/10	1725	SY2150 / 15.0A	—
EC1225	4/10	1600	SY2150 / 15.0A	—
EC1227	4/10	1600	—	SY2080 / 8.0A
EC1120	1/2	1725	SY2150 / 15.0A	—
EC1320	1/2	1725	—	SY2070 / 7.0A
EC1154	1/2	3450	SY2150 / 15.0A	SY2080 / 8.0A
EC1155*	3/4	3450	SY2150 / 15.0A	SY2100 / 10.0A
EC1156*	1	3450	—	SY2150 / 15.0A
EC1228	1	3450	—	SY2150 / 15.0A
EC1269*	1	3450	—	SY2150 / 15.0A

*Currently Available Pumps

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SY Circuit Breaker Switch is developed and produced by Munters Corporation, Lansing, Michigan U.S.A. 1-800-227-2376



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