



# Automatic Changeover Switch (ACS)

## Installation Instructions



### ACS C2-CM80

10A-80A Adjustable ( Mains & Generator )

\*These instructions should be read in full and retained after installation for future reference.

#### Safety

### CAUTIONS

- 1.This ACS may only be installed by skilled electricians otherwise fire hazard or danger of electric shock exists.
- 2.It is recommended that to connect this ACS with its Preset current Matching Onesto MCB/RCBO as well as the correct Onesto Surge Protections Devices (SPD's). **PLEASE NOTE: Using non Onesto MCB/RCBO and SPD's will nullify the warranty as Onesto cannot be held responsible for the quality of another manufacturers protection devices.**
- 3.Before installation or maintenance ,ensure that the power supply is turned off and adequately isolated.
- 4.Do not disassembly or repair ACS which may cause an electric shock , fire or other accident.
- 5.Do not spray water or oil on ACS.

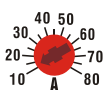
#### Discription

ACS is an automatic changeover switch between Mains supply and backup Generators. When Mains supply fails, ACS will shift the supply on the Generator after 3 seconds to provide temporary power for essential circuits. When the Mains supply resumes, ACS will shift the supply back to Mains after preset time delay.

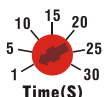
#### Features

- 1.10A-80A adjustable current
- 2.1s-30s adjustable restoring delay time
- 3.Operation status with LED indication
- 4.Automatic Generator ON/OFF ignition
- 5.Reliable operation and durable life

#### Rotary switches & Button



Current setting : 10A-80A

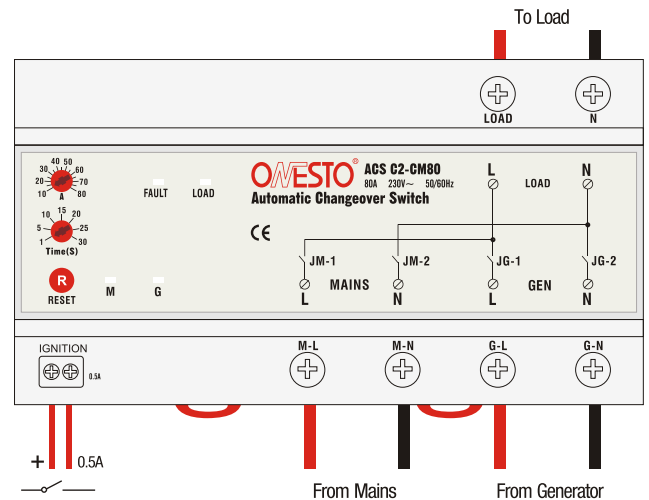


Delay time setting : 1s-30s (Generator to Mains)



Press the RESET button to restore supply

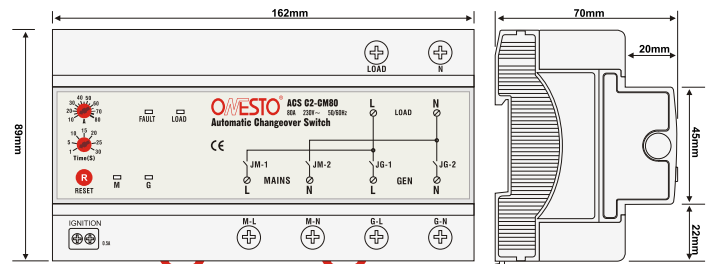
#### Wiring



GEN IGNITION ON/OFF  
(Potential Free Contact!)

#### ACS C2-CM80

#### Dimension



## Operation

### During Mains Supply

- 1.The ACS allows supply from Mains within preset current. MAINS indicator M keeps lighting.
- 2.In case the current exceeds the limit, the load will be disconnected for 10 seconds as a warning, then automatically reconnected.
- 3.During the 10 seconds disconnection, ACS will check the overload status.
- 4.Switch off the non-essential loads to reduce the current within the limit.
- 5.If the current is overload, ACS will repeat 5 times warning.  
FAULT indicator flashes one time after first excess and the load disconnected.  
FAULT indicator flashes twice after second excess and the load disconnected.  
FAULT indicator flashes three times after third excess and the load disconnected.  
FAULT indicator flashes four times after fourth excess and the load disconnected.  
FAULT indicator keeps lighting after fifth excess and the load disconnected.
- 6.ACS will disconnect the load if the overload still persists after 5 times warning.
- 7.Press the RESET button to restore supply.
- 8.When the Mains supply fails, the supply changeovered to Generator after 3 seconds time delay.

### During Generator Supply

- 1.ACS allows supply from Generator within pre-set current. Generator indicator G keeps lighting.
- 2.If the current exceeds the limit, the load will be disconnected 10 seconds as warning and then automatically reconnected.
- 3.Switch off the non-essential loads to reduce the current within the limit.
- 4.If the user does not reduce the load current within the limit, ACS will repeat 5 times warning, then disconnect the load and the FAULT indicator keeps lighting.
- 5.Press the RESET button to restore supply.
- 6.When the Mains supply resumes, the ACS shifts the supply back to Mains after preset time delay.

### PLEASE NOTE

Gen ignition is a potential free contact! !  
Please adhere to this when wiring the unit.

## Technical data

(ACS)

Type	ACS C2–CM80
No. of Poles	1P+N
No. of Generator Connection	1
Rated Current	10A-80A Adjustable ( Mains & Generator )
Rated Voltage	230V AC
Operating Voltage Range	0.75 - 1.15 of Un
Rated Frequency	50/60Hz
Power Consumption	4.5VA , 230V AC
Rated Insulation Voltage	500V
Rated Impulse Voltage	1.5kV
Dielectric Strength	2.0kV
Duty	Uninterrupted
LED Indication	Mains: Blue , Generator: Blue , Load: Green , Fault: Red
Changeover Delay Time	Mains to Generator: 3s , Generator to Mains: 1-30s Adjustable
Changeover Line	Live and Neutral Line
Switching Capacity	80A @ 230V AC ( COS $\Phi$ =1 ) , 30A with inductive load COS $\Phi$ = 0.6
Utilization Category	AC 21A (IEC 60947-3) , AC 31B (IEC 60947-6)
Ambient Temperature	-5 to 55°C
Pollution Degree	2
Protection Class	IP20
Mounting	DIN RAIL (35x7.5mm)
Mounting Position	Horizontal , Vertical
Terminal Capacity	16-25mm <sup>2</sup>
Weight	725g
Dimension	162 x 89 x 70mm
Standard conformity	IEC 60947-6 / IEC 60947-3