



Half Day Webinar on Automatic Transfer Switch (ATS) Based on IEC 60947-6-1

BEM APPROVED CPD/PDP: 4 REF. NO.: IEM21/HQ/115/T (W)

**SPEAKER:
Mr. Ritesh
Lutchman**

**TUESDAY, 4 MAY 2021
9.00AM - 1.00 PM**

**Registration Fees
(Subject to 6% SST)**

IEM Student Members : RM 40.00

IEM Graduate Members : RM 80.00

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SYNOPSIS

A transfer switch is an electrical switch that switches a load between two sources. Some transfer switches are manual, in that an operator effects the transfer by throwing a switch, while others are automatic and trigger when they sense one of the sources has lost or gained power. After this presentation, participants will be able to understand and select the correct type of Automatic Transfer Switch (ATS) for the electrical system.

1) IEC 60947-6-1 for Auto Transfer Switching Equipment (ATSE)

- a) Short-circuit withstand of ATS
- b) Category utilisation - AC31/33 in "A" or "B"
- c) Different Class of ATSS' - CB, PC & CC

2) The functionality and application for different types of Automatic Transfer Switch. Types of Automatic Transfer Switches available for different application such as :-

- a) Standard Transfer : Open Type - Simple transfer system for small load
- b) Closed Transition Transfer : Overlap Type - For uninterrupted of power supply to load
- c) Delay Transfer with "OFF" position : Open Type - The "OFF" position is important when transferring large motor load. This is to allow the magnetic field to "decay" before transfer to prevent back EMF generated by the motor which can trip the CB or blow the fuses.
- d) High Speed Transfer less than 20ms : Open Type - Introducing High speed transfer for loads such as electronic equipment without interruption. Comply to SEMI-F47, ITIC - Voltage / depth duration curve.

3) As required in IEC, together with the Smart ATS Controller, these Automatic Transfer Switches function perfectly without much complications. The ATS Smart controller had functions for voltage, frequency and timer settings for types for application. Engine start / stop and other functions are also available from these Smart Controllers.

4) Comparison to other types of change-over devices as ATS.

SPEAKER'S BIODATA

Mr Ritesh Lutchman is currently the Senior Sales and Marketing Manager at Wisepro Sdn Bhd. He has been working in the industry for the past 15 years and has gathered great experience in the design, installation, troubleshooting and site works for the industries mentioned above. He has also received extensive training on the Lightning Protection at Dehn headquarters in Germany, power factor capacitors, reactors and harmonics at Shizuki headquarters in Japan and ATS applications and troubleshooting at Vitzrotech headquarters in Korea. He graduated from the University of Cape Town with a degree in Electrical Engineering in 2004 and Master's Degree in Electrical Engineering in 2006.