

External CP Interrupter



- Small, efficient and reliable load switching unit for all types of CP Rectifiers
- Capable of switching loads up to 50A
- Polarity switch for either positive or negative logic
- Detachable mounting wings to fit a wide range of cabinets
- Driven by external control modules
- Bi-Direction switch

CONTROL

Supply voltage	: 12V ($\pm 4V$) 300mA max for failsafe : 12V ($\pm 4V$) 25mA max no failsafe
Signal Sense	: Selectable via externally accessible switch (Default high signal = Interrupter closed, protection applies Low signal = Interrupter open, protection interrupted)

MECHANICAL

Size	: 170mm x 215mm x 110mm (HxDxW)
Weight	: <2.5kg
Switched terminals	: M8 Studs suitable for wire up to 120mm ²
Control terminals	: Removable plug with screw-down cage clamp terminals suitable for 1.5mm ² wire
Mounting	: 190mm x 80mm centres suitable for M4 fixings
Ingress protection	: Switched terminals IP22 : Control sections IP42

INDICATORS

Indicators	: Power – Green LED : Switching – Red LED
------------	--

ENVIRONMENTAL

Temperature	: -40°C to +55°C operational : -55°C to +85°C storage
Altitude	: up to 2,000m
Surface temperature	: +25°C max rise above ambient
Power dissipation	: 5W @ 20A : 25W @ 50A

PROTECTION

Surge	: Transient Over-Voltage : Inductive Spike Protection
-------	--

OPTIONAL FEATURES

DC Fault	: Output overvoltage shutdown : Output short circuit protection
----------	--

External Interrupter

SWITCHING

Maximum switching voltage	: 50V RMS (100V peak)
Maximum switching current	: 50A RMS (75A peak)
Maximum ripple from rectifier	: Unsmoothed full wave rectified sinusoid (up to 60Hz mains frequency)
Failsafe	: Electromechanical
Start-up delay	: <50ms (From supply voltage turn on to first current interruption)
Control signal delay Turn OFF	: <100us (Delay from OFF control signal to current interruption)
Control signal delay Turn ON	: <100us (Delay from ON control signal to current re-connect)
Typical Turn-ON Rise Time	: <100uS (Dependant on control speed)
Typical Turn-OFF Fall Time	: <100uS (Dependant on control speed)
Duty Cycle	: 0-100% (Subject to pulse duration constraints)

