

ASC+ Engine Start Protect

ENSURES STARTING, PROTECTS BATTERY, CONSERVES POWER



This system is used on starting batteries, to protect against discharge levels where the cranking is endangered.

A permanent fused feed through is offered to power feeds such as clocks, radios and central locking which would normally require resetting if disconnected.

The unit comprises of a high performance latching contactor, a control box and dashboard isolator switch assembly and all connecting looms. It provides a timed auto isolation after a preset period of inactivity, and a manual on/off control.

Simple to install, the start protect isolator provides a complete solution to ensure the engine can crank at all times.

KEY FEATURES

- 12V and 24V versions
- No power fully latching contactor
- Vehicle loads 125A or 250A continuous
- Auto timed isolation
- Low voltage start protection
- Manual override and control
- Feed for clocks/ICE/central locking etc.
- Push button manual on/off control
- 3sec accidental isolation protection
- Cranking capability up to 1500A
- Illuminated switch
- Minimal power consumption at all times
- Ignition on safety interlock
- Customised versions

Description

The system consists of a latching heavy duty contactor controlled by a remotely mounted microprocessor. The system is automatic in operation but can be controlled manually to provide manual isolation.

The system protects the engine start capability by continuously monitoring the start battery voltage. If loads are accidentally left running and the voltage falls below a preset level (12.2 or 24.4V) for a period of more than 90 seconds the unit will isolate the load. This allows for short duration currents such as tail-lifts and winches to be operated. When isolated the dashboard switch blinks and is pressed to reconnect the vehicle loads.

Auto timeout

The system also has an auto time out after the ignition key is removed. It will remain powering the loads for 90 minutes after the engine is switched off. In applications with an on board charger, the system will remain active whilst the voltage remains



FM 37786
ISO 9001:2008

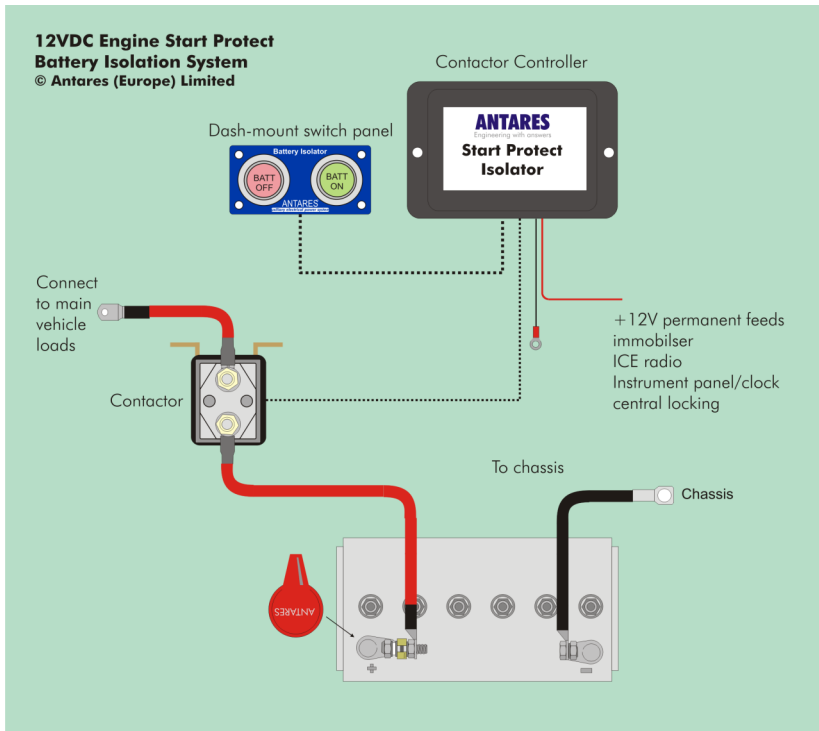
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engineering with answers

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manual isolator switch

above the cut off threshold. This feature eliminates unnecessary discharge when the vehicle is parked and not in use. Conserving charge will improve battery life and give operational cost savings. The automatic isolation is indicated by a flashing indicator switch. Once disconnected the system draws negligible current, it can be reactivated simply by pressing the conveniently located dashboard switch.

Installation

A complete set of parts is supplied. The contactor can be conveniently located close to the battery positive post connection and interrupts the power cable to the vehicle loads, it is not necessary to isolate the starter motor, only the starter solenoid. However the contactor is generously sized and can easily take the full cranking current. The control module is located close to the control switch in the cab.

Compatibility

The engine start protect is fully compatible with the auto split charge system and auxiliary battery protect system and can also be controlled via our Se04 multiplex task management system.

Customised versions

The controller contains a microprocessor and can be programmed with different operating regimes to suit different applications. We can also configure the hardware to meet specific OE manufacturing requirements. Please contact applications engineering to discuss your particular requirements.

SPECIFICATIONS				
Part number	90900	90901	90910	90911
System voltage/ current	12V/125A	12V/250A	24V/125A	24V/250A
Permanent feed	3A continuous 8A short term peak			
Contactor rating	125A continuous 950A peak	250A continuous 1500A peak	125A continuous 950A peak	250A continuous 1000A peak
Contactor connections	power: M8 studs	power: M10 studs	power: M8 studs	power: M10 studs
Auto time out (optional)	Standard 90mins without charging source , (programmable to one week)			
Start protection	Std 3 mins below 12.2V	Std 3 mins below 12.2V	Std 3 mins below 24.4V	Std 3 mins below 24.4V
Controller dimensions	120mm x 70mm x 30mm (flange mounted)			
Contactor dimensions	97x50x38mm (excl mount)	152x55x70mm (excl mount)	97x50x38mm (excl mount)	152x55x70mm (excl mount)