

Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

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The ED300 range of switches have been designed to provide a rapid means of disconnecting batteries or other power supplies in the event of serious electrical faults. Whilst the switches are primarily intended for use with battery powered vehicles they are also suitable for use with static power systems. All types are capable of safely rupturing full load battery currents in the event of an emergency.

- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The ED300 is a manually operated device with an over-centre spring mechanism which provides a snap action for both opening and closing of the main contacts. The ED300 is easy to install (see drilling details) and is secured with supplied M5 posidrive mounting screws. Lockable versions feature a key which is necessary for the knob to be moved from the "Off" position to the "On" position. Once in the "On" position, the key can be removed. Thereafter, the knob may be depressed to the "Off" position where it will automatically lock and remain locked until the key is used again to unlock it. The ED300 is fully serviceable with genuine replacement parts available.

Precautions:

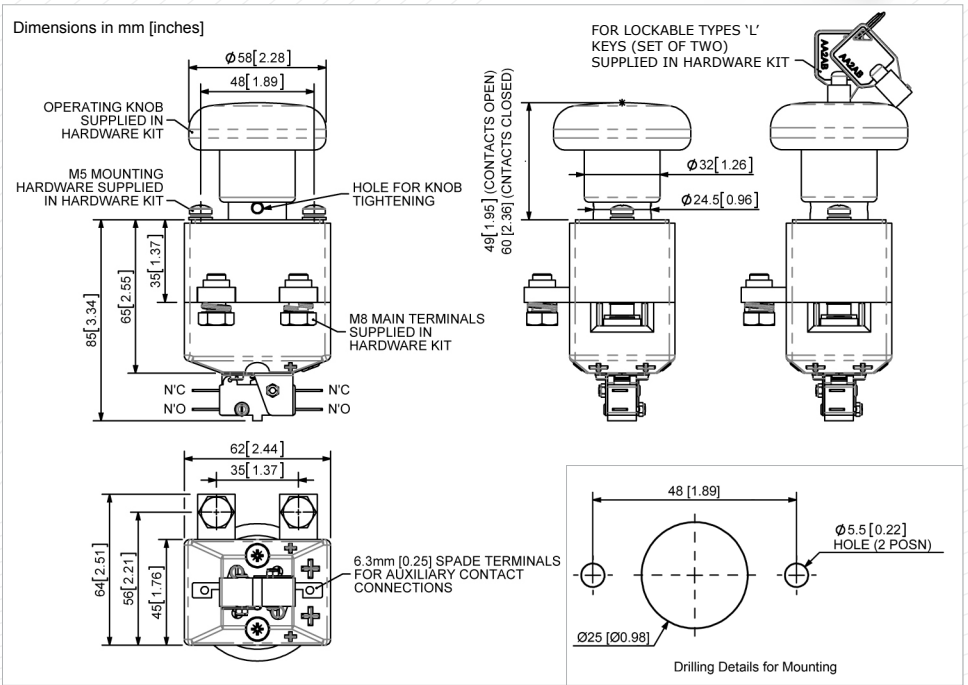
When fitted with magnetic blowouts the polarity marked on the contact housing must be observed when connecting the main terminals. Ensure that the switches are installed in a position where heavy arcs emanating from the switch cannot damage or electrically jump across to adjacent parts. The switch is to be used to rupture current in an emergency or as a no-load isolator.

Do not use as a regular On-Load Switching Device.

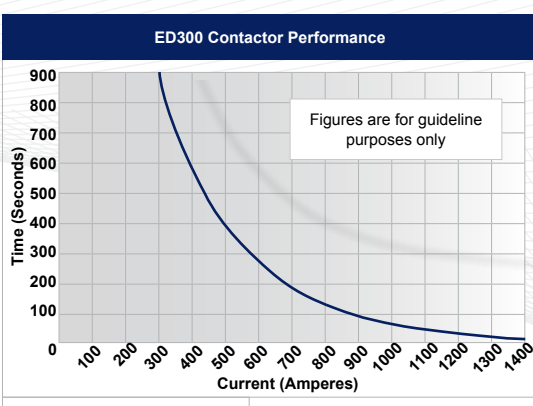


ED300

| Application | Uninterrupted |
|---|-----------------------|
| Thermal Current Rating (I _{th}) | 300A |
| Intermittent Current Rating: | |
| 30% Duty | 550A |
| 40% Duty | 475A |
| 50% Duty | 425A |
| 60% Duty | 385A |
| 70% Duty | 360A |
| Overload Currents that can be Ruptured: | |
| ED300 | 1000A at 48V D.C. |
| ED300B | 1000A at 96V D.C. |
| Maximum Recommended Contact Voltages (U _c): | |
| ED300 | 48V D.C. |
| ED300B | 96V D.C. |
| Typical Voltage Drop per pole across New Contacts at 100A | 30mV |
| Mechanical M.T.B.F | >10 x 10 ³ |
| Operating Ambient Temperature | - 40°C to + 60°C |
| Guideline Contactor Weight: | |
| ED300 | 400 gms |
| With Auxiliary | + 20 gms |
| With Blowouts | + 50 gms |
| With Lock | + 60 gms |



| Auxiliary Details | |
|---|-----------------|
| Auxiliary Thermal Current Rating | 15A |
| Auxiliary Contact Switching Capabilities (Resistive Load): | |
| | 15A at 24V D.C. |
| | 10A at 48V D.C. |
| | 5A at 96V D.C. |
| Advised Connection Sizes for Maximum Continuous Current | |
| Cable to be rated suitable to Application | |
| Key: ▲ = Uninterrupted | |
| Note: Where applicable values shown are at 20°C | |



| ED300 Available Options | | |
|---|---|--------|
| General | | Suffix |
| Auxiliary Contacts | ○ | A |
| Auxiliary Contacts - V3 | X | |
| Magnetic Blowouts† | ○ | B |
| Magnetic Blowouts - High Powered† | X | |
| Mounting Brackets | X | |
| Closed Contact Housing | ○ | |
| Environmentally Protected IP55† | ○ | |
| EE Type (Steel Shroud) | ○ | |
| Lockable | ○ | L |
| Contacts | | |
| Large Tips | X | |
| Textured Tips | ○ | T |
| Silver Plating | X | |
| Key: Optional ○ Standard ● Not Available X | | |
| † Connections become polarity sensitive | | |
| ‡ A rubber gasket 'O' ring and special guide can be fitted to increase the sealing of the switch when mounted to the panel (uppermost section only) | | |

The Use of Battery Disconnecting Switches in Electric Vehicles

Modern battery powered electric vehicles are inherently very reliable and safe. However, even when sophisticated electronic controllers are used it is desirable to have a means of disconnecting the battery in the event of an emergency, such as a vehicle failing to stop or an electrical short circuit.

In many countries it is mandatory to fit one or more devices to achieve an emergency disconnection of the battery.

