

ESB00351

DIN Rail

Made in Germany

Electronic Inrush Current Limiter

115/230Vac 35A_{peak} 24,8A_{eff} -20°C...+70°C

Short Specification:

- Input 115Vac or 230Vac
- DIN-Rail TS35 mounting
- Screw terminals for 22...6AWG
- Self-powered
- Integrated bypass relay
- Undervoltage detection 100ms standard
- Inrush current limitation 150ms standard
- Maintenance free
- IP20 metal housing
- Power LED
- No simple NTC circuit !

The ESB00351 is an inrush current limiter for complex automation systems and machinery. It provides high recommended and trouble interference free operation. It is simple to integrate into existing equipment.



In accordance with IEC60950-1

Powersolve Electronics Ltd., Unit 8A Arnhem Road, Newbury RG14 5RU, United Kingdom

Tel 0044 (0)1635 521858 Fax 0044 (0)1635 523771 www.powersolve.co.uk sales@powersolve.co.uk p.1/2 10.12A

(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)

AC-Input	184...265Vac or 85...132Vac , 47...63Hz
AC Voltage Rating	230Vac or 115Vac
AC Current Rating	30A continuous
Order codes	230Vac ESB00351T 115Vac ESB00351T.115VAC

Operating Cycles	3cycles/60sec
Current Limitation	35Apeak / 24,8Aeff.
Tolerance Limitation	± 5%
Temperature Drift	Within limitation tolerance
Capacitive Load	10000uF max
Limitation Time	Ton = 150ms standard *
Undervoltage Detect	Tout = 100ms standard *
Cooling	Natural convection
Ambient Temperature	-20°C...+70°C
Storage Temperature	-40°C...+85°C
EMI	EN55022 class B / EN61000-3-2
EMS	EN61000-6-2,3
Safety	cUL60950/1950 (IEC)EN60950-1
Safety class 1(A)	VDE0805, VDE0100
Creepage Distance	> 4mm
MTBF IEC61709	600000h
Dimensions (HxWxD)	65x124x99.5mm
Weight	800g
Connectors	Spring type 22...6AWG

*** Inrush Current Limitation Time :**

Ton factory adjustable from 100...300ms (150ms standard)
Tout factory adjustable from 50...150ms (100ms standard)
Please add desired limitation time to your order. If no limitation time is added, standard times will be adjusted by factory.

Application:

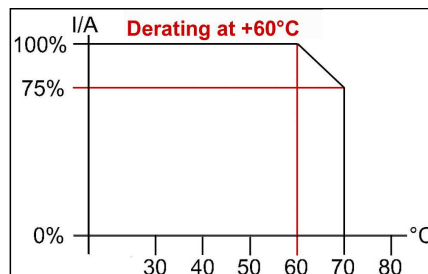
The inrush current limiter ESB00351 is no simple NTC-solution. Running as a real peak current limiter the ESB00351 cuts off all current peaks while starting consumer loads. Extreme conditions occur on the AC-line while thunderstorms or mechanical damages are caused to the electricity network. When the mains supply returns indefinable stress peaks arise to the system loads as high that the automatic circuit breakers actuate. In decentral automation this often leads to services and high cost. Therefore the ESB00351 is an accurate tool to reduce cost and to prevent system break downs. The ESB00351 limits all power up current peaks and provides continuous operation up to 30A.

The ESB00351 is also designed to be integrated into high capacitive loads like AC-DC power supplies running in parallel operation mode. While causing stress peaks up to several hundred Amperes all circuit breakers and electrical network installations would be overloaded. The ESB00351 allows to reduce cabling sections and to install fast responding circuit breakers, however. Hence the ESB00351 is a perfect and cost effective instrument to prevent infringe upon rights and norms.

The ESB00351 is a powerful tool to cut down cost of system current consumption for the operator. In accordance to the *European EuP2005/32/EC directive*, the ESB00351 provides accurate performance to the energy balance of an electrical system. The ESB00351 can reduce cabling section in accordance to the international directives. It allows smaller and faster responding circuit breakers. In usage with shutdown energy feed-ins it can help to reduce energy consumption of every system.

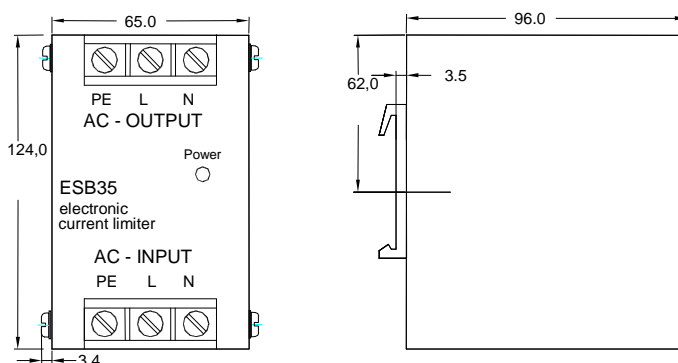
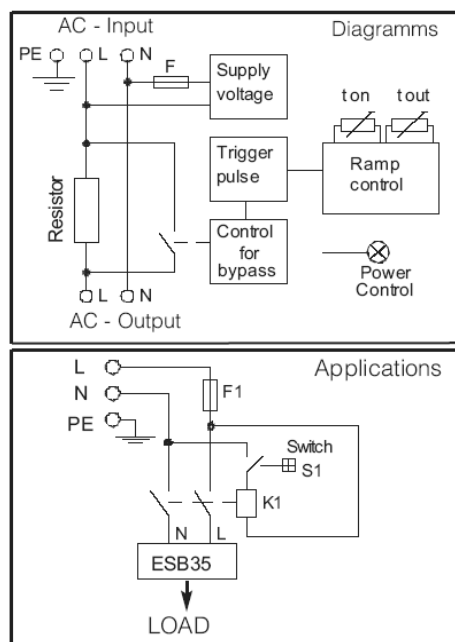
Mechanics:

Stable IP20 metal housing with VDE approved ventilation slots. Safe snap on DIN-Rail: although no tool is necessary to snap on or demount it from the TS35-Rail (DIN/EN60715.) A wall mount kit is available upon request.



Connection Terminals:

PE = GND
Input L N
Output PE = GND L N



Powersolve Electronics Ltd., Unit 8A Arnhem Road, Newbury RG14 5RU, United Kingdom

Tel 0044 (0)1635 521858 Fax 0044 (0)1635 523771 www.powersolve.co.uk sales@powersolve.co.uk p.2/2 10.12A
(Subject to alterations. This product is not designed to be used in applications such as life support systems wherein a failure or malfunction could result in injury or death)