

Dagangan : OVERCURRENT PROTECTION DEVICE NOT EXCEEDING 1000 V Nama Perdagangan : Multifunction Protection Relay Jenama : Siemens Model : 7SJ85 (Siprotec 5 Series)	Kod Tarif (Perintah Duti Kastam 2012) : 8536.90 100 (PDK 2012) 8536.90.94 00 (PDK 2017) Tarikh Kelulusan : 24 Mac 2017
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Keterangan barangan :

Barangan dinamakan sebagai *Multifunction Protection Relay* , berbentuk kotak yang mempunyai *panel LCD, touch buttons, display panel* dan pelbagai komponen elektronik dengan ukuran seperti berikut

- a) 245 mm x 146 mm x 221 mm
- b) 245 mm x 146 mm x 296 mm
- c) 245 mm x 146 mm x 371 mm
- d) 245 mm x 146 mm x 446 mm

Gambar barangan adalah seperti berikut :



Fungsi utama barangan ini adalah seperti berikut :

The overcurrent protection device SIPROTEC 7SJ85 are multifunctional devices whose main protection functions are based on the overcurrent protection principle. They protect primarily feeders and lines in the distribution network but they are also suitable for use in the high-voltage network. The device also contain all important additional functions includes functions for protection, control, monitoring and measuring applications in electrical energy system.

Typical feeder and overcurrent applications are :

- a. *Detection of short circuits in electric operational equipment of radial networks, lines which are supplied from one or two sides, parallel lines and open or closed looped networks of all voltage levels.*
- b. *Detection of ground faults in isolated or resonant-grounded systems with radial, ring-shaped or meshed topology.*
- c. *Backup protection of differential protective schemes of all types of lines, transformers, generators, motors and busbars.*
- d. *Protection and monitoring of capacitors bank*
- e. *Phasor Measurement Unit (PMU)*
- f. *Reverse power protection*
- g. *Load shedding applications*
- h. *Switchover automation.*

Ketetapan:

Ketua Pengarah Kastam Malaysia memutuskan barangan ini sesuai diperjeniskan di bawah kod tariff **8536.90 100 (PDK 2012)** dan **8536.90.94 00 (PDK 2017)** sebagai **other apparatus for a voltage not exceeding 1000 volts ; For a current of less than 16 amps** berdasarkan alasan- alasan berikut :

Barangan adalah sejenis peranti khas yang mengesan *over/ high current or short circuits and the primary equipment which is circuit breaker in the current distribution at power substation (circuit protection system)*.

Circuit protection functions yang boleh dilaksana oleh barangan ini adalah seperti berikut :

- a. *Distance protection*
- b. *Earth-fault protection*
- c. *Tele protection*
- d. *Fault locator*
- e. *Power-swing detection/ tripping*
- f. *Phase overcurrent protection*
- g. *Switch-onto-fault protection*
- h. *Overcurrent protection*
- i. *Overvoltage/ undervoltage protection*
- j. *Over/ underfrequency protection*
- k. *Breaker failure protection*
- l. *Thermal overload protection*

Auxiliary Rated Voltage bagi barangan ini adalah di antara 24V hingga 250V bagi DC dan 100 V – 230 V bagi AC . Barangan ini mempunyai *rated auxiliary current less than 1 amps*.

Barangan mendapat liputan di dalam EN HS 2012 mukasurat XVI-8536-1 dan XVI-8536-2 seperti berikut :

85.36 - Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders and other connectors, junction boxes), for a voltage not exceeding 1,000 volts; connectors for optical fibres, optical fibre bundles or cables.

8536.10 - Fuses

8536.20 - Automatic circuit breakers

8536.30 - Other apparatus for protecting electrical circuits

- Relays :

8536.41- - For a voltage not exceeding 60 V

8536.49 - - Other

8536.50 - Other switches

8536.61 - - Lamp holders

8536.69 - - Other

8536.70 - Connectors for optical fibre, optical fibre bundles or cables

8536.90 – Other apparatus

This heading covers electrical apparatus for a voltage not exceeding 1,000 volts generally used for dwellings or industrial equipment. However, heading 85.35 covers the apparatus described below for a voltage exceeding 1,000 volts. This heading also covers connectors for optical fibres, optical fibre bundles or cables.

The heading includes :

(I) APPARATUS FOR SWITCHING ELECTRICAL CIRCUITS

*These apparatus consist essentially of **devices for making or breaking one or more circuits in which they are connected**, or for switching from one circuit to another; they may be known as single pole, double pole, triple pole, etc., according to the number of switch circuits incorporated. This group also includes change-over switches and relays.*

(A) - (B)

(C) Relays are electrical devices by means of which the circuit is automatically controlled by a change in the same or another circuit. They are used, for example, in telecommunication apparatus, road or rail signalling apparatus, for the control or protection of machine-tools, etc.

The various types can be distinguished by, for example :

(1) The electrical means of control used : electromagnetic relays, permanent magnet relays, thermo-electric relays, induction relays, electro-static relays, photoelectric relays, electronic relays, etc.

(2) The predetermined conditions on which they operate : maximum current relays, maximum or minimum voltage relays, differential relays, fast acting cut-out relays, time delay relays, etc.

Barangan juga mendapat liputan khusus dalam Perintah Duti Kastam 2012 seperti berikut :

85.36 Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders and other connectors, junction boxes), for a voltage not exceeding 1,000 volts;
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8536.30 - Other apparatus for protecting electrical circuits :
- Relays :

8536.41 - - For a voltage not exceeding 60 V

8536.49 - - Other

8536.50 - Other switches

8536.61 - - Lamp holders :

8536.69 - - Other

8536.70 - Connectors for optical fibres, optical fibre bundles or cables

8536.90 - Other apparatus

100 - - For a current of less than 16 amps

900 - - Other