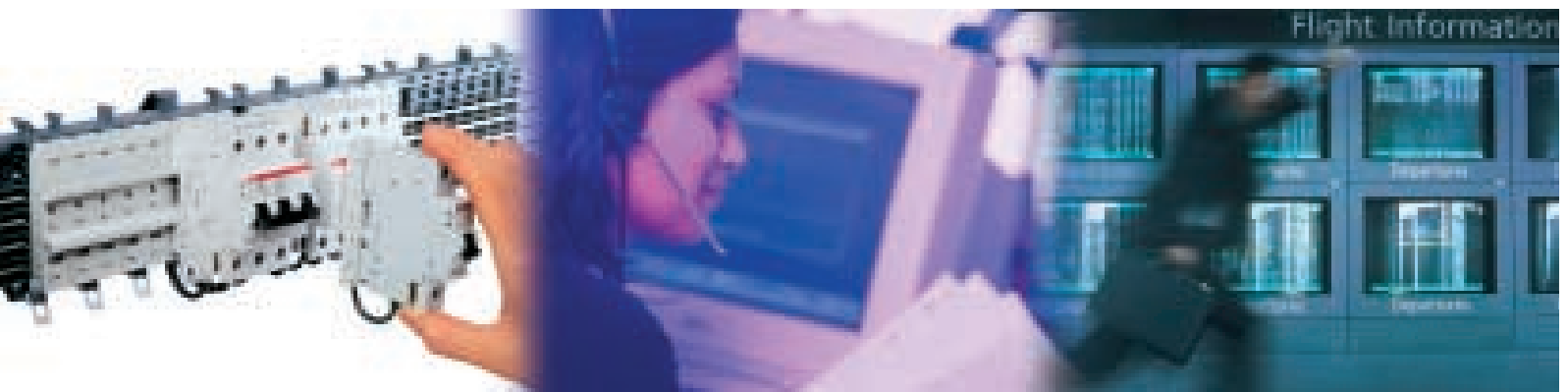


Bus-bar System

smisline



Technical system for
energy distribution



ABB

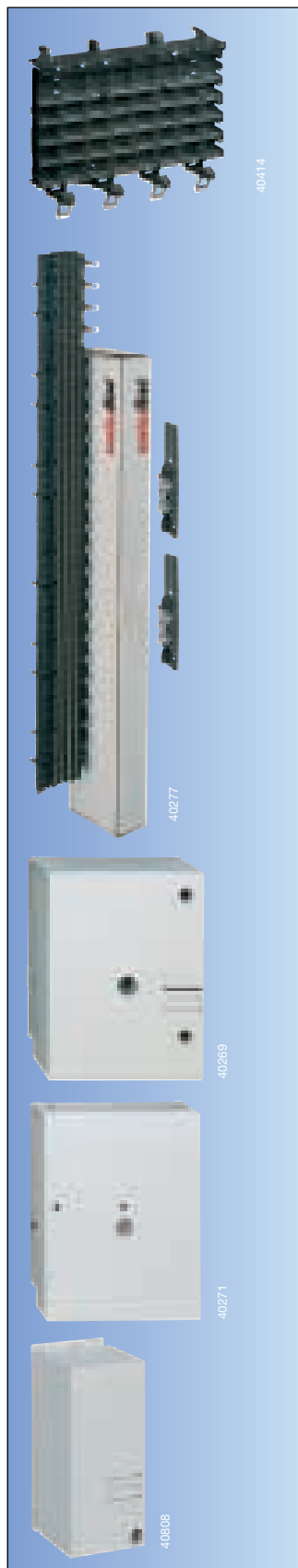
Technical data / Approbation

Technical data

	Socket base ZLS806/808	Incoming terminal block ZLS224/225	Incoming terminal component ZLS250-255	Adapter 30A	Adapter 60A	Adapter 100A
Rated voltage U_n :	600V AC	600V AC	600V AC	600V AC	600V AC	600V AC
Rated current I_n :	–	Main terminal 150A Auxiliary terminal 40A	150A	30A	60A	100A
Space required (Modules) per element:	6 (108 mm) 8 (144 mm)	4 (72 mm)	2 (36 mm)	1 (18 mm)	1 (18 mm)	4 (72 mm)
Cable cross section:	–	10 AWG to 1 AWG	8 AWG to 3/0 AWG	–	–	–
Type of feeder cable:	–	Cable or strand	Cable or strand	–	–	–
Rated insulation voltage U_i :	2500 Volt	2500 Volt	2500 Volt	2500 Volt	2500 Volt	2500 Volt
Rated surge voltage U_{imp} :	8000 Volt	8000 Volt	8000 Volt	8000 Volt	8000 Volt	8000 Volt
Rated surge current I_{sw} :				6kA	6kA	6kA
IP-Protection:	–	IP 40	IP 40	–	–	–
Rated ambient temperature:	30 °C	30 °C	30 °C	30 °C	30 °C	30 °C
Environmental degree:	3	3	3	3	3	3
Plastics:		Halogen- and cadmium free	Halogen- and cadmium free	Halogen- and cadmium free	Halogen- and cadmium free	Halogen- and cadmium free
Approbation/Standards:	C US	C US EN60947-2	C US EN60947-2	C US –	C US –	– –
						

Order data

Sockets, Starter pack, Incoming Terminal Block



Sockets

To determine the required socket length allow for
 the required components
 the feeder block and
 spare positions must be determined.

Major features

Expansion to any desired length (even number of poles)
 Integral bus-bars
 Simple exchange of units
 Long-term planning and problem-free extension possible
 Significant time savings for mounting and connection

Order data

	Order data	Module	Packaging unit
Socket base			
- 8-module socket length 144 mm	ZLS 808	8	10
- 6-module socket length 108 mm	ZLS 806	6	10

Starter pack

Starter packs are available comprising socket bases with 3 or 4 main bus-bars already inserted as required. Two end pieces are also included.

Order data

Solutions available:		Order data	Packaging unit
Starter pack with 22 modules	397 mm	3P ZLS760	1
Starter pack with 22 modules	397 mm	3P+N ZLS761	1
Starter pack with 24 modules	433 mm	3P ZLS750	1
Starter pack with 24 modules	433 mm	3P+N ZLS751	1
Starter pack with 30 modules	541 mm	3P ZLS762	1
Starter pack with 30 modules	541 mm	3P+N ZLS763	1
Starter pack with 32 modules	577 mm	3P ZLS752	1
Starter pack with 32 modules	577 mm	3P+N ZLS753	1
Starter pack with 38 modules	685 mm	3P ZLS764	1
Starter pack with 38 modules	685 mm	3P+N ZLS765	1
Starter pack with 40 modules	721 mm	3P ZLS754	1
Starter pack with 40 modules	721 mm	3P+N ZLS755	1
Starter pack with 48 modules	865 mm	3P ZLS756	1
Starter pack with 48 modules	865 mm	3P+N ZLS757	1
Starter pack with 64 modules	1154 mm	3P ZLS766	1
Starter pack with 64 modules	1154 mm	3P+N ZLS767	1
Starter pack with 80 modules	1442 mm	3P ZLS758	1
Starter pack with 80 modules	1442 mm	3P+N ZLS759	1

Incoming Terminal Blocks, standard

Touch proof incoming terminal block, height 50 mm. To feed the bus-bars, the terminal block base can be fitted with L1, L2, L3 and N connectors if required.

Order data

	Order data	Module	Packaging unit
Standard incoming terminal block			
complete with main terminals, construction height 50 mm			
3LN	ZLS224	4	1
3L	ZLS225	4	1

Incoming Terminal Blocks, oversized

The incoming terminal component is used to connect the feeder cable to the bus-bars. The incoming terminal component with a width of 36 mm is available as a single-pole device to feed L1, L2, L3 as well as for N. The incoming terminals act directly on the bus-bars and are mechanically secured. Accordingly the incoming terminals L1, L2, L3 and N can be combined to meet specific needs.

Order data

Type	Order data	Module	Packaging unit
Incoming Terminal Component L1	ZLS251	2	1
Incoming Terminal Component L2	ZLS252	2	1
Incoming Terminal Component L3	ZLS253	2	1
Incoming Terminal Component neutral	ZLS250	2	1

Order data Accessories

Bus-bars for the sockets and additional socket

The 10 x 3 mm bus-bars are suitable for currents up to 100A. They are electroplated for perfect contact with unit plug contacts. The maximum available bus-bar length is 1983 mm. The same bus-bar type is used regardless of whether it is internally in the socket (L1, L2, L3, N) or externally in the additional socket (N, PE). The bus-bars are inserted into the socket from the front.



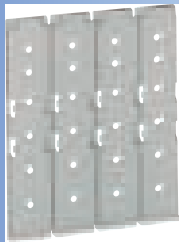
40174



40319



40180



40170



40183

	Order data	Module	Packaging unit
--	------------	--------	----------------

Bus-bars 100A

electroplated, 10 x 3 mm,
for L1, L2, L3, N and PE
– Delivery length 1979 mm

ZLS200

110

10

Socket end-piece

	Order data	Module	Packaging unit
--	------------	--------	----------------

Socket end-piece

for lateral, electrically-protected closure and mech. fixing of a row of sockets on the supporting rail. Width: 20 mm

ZLS730

–

1

Bus-bar insulator

	Order data	Module	Packaging unit
--	------------	--------	----------------

Bus-bar insulator

dark grey, for isolation and spacing of the bus-bar interruption at the isolation point, 18 mm

ZLS239

1

10

Bus-bar cover

	Order data	Module	Packaging unit
--	------------	--------	----------------

Bus-bar cover

electrically-protected covering of bus-bars, 4-module, can be divided. Suitable to accept extension adapter ZLS101 4 x 18 mm
– Bag of 5

ZLS100

1

1

Extension adapter

	Order data	Module	Packaging unit
--	------------	--------	----------------

Extension adapter

18 mm wide, for plugging into bus-bar cover ZLS100. For fixing REG units

ZLS101

1

10

Order data Adapter



General

The incoming terminal component for non smissline devices has an installation width of one module of (18 mm). This adapter can be combined to multiple pole versions to meet specific needs (L1, L2, L3, N, dummy). The connecting wires can carry a maximum of 63A (I_n).

Order data of Adapter 30A and 60A

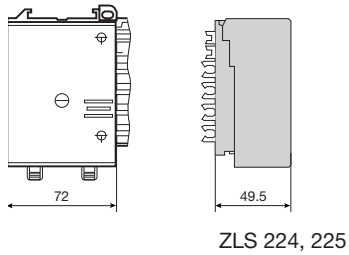
Description	Order data	Module	Packaging unit
Single Adapter 32A bottom feed			
Adapter 30A L1 bottom feed	ZLS161	1	1
Adapter 30A L2 bottom feed	ZLS162	1	1
Adapter 30A L3 bottom feed	ZLS163	1	1
Adapter 30A N bottom feed	ZLS160	1	1
Adapter dummy element	ZLS164	1	1
Single Adapter 32A top feed			
Adapter 30A L1 top feed	ZLS177	1	1
Adapter 30A L2 top feed	ZLS178	1	1
Adapter 30A L3 top feed	ZLS179	1	1
Adapter 30A N top feed	ZLS176	1	1
Combination 32A bottom feed			
Adapter 30A L1, N bottom feed	ZLS180	1	1
Adapter 30A L2, N bottom feed	ZLS181	1	1
Adapter 30A L3, N bottom feed	ZLS182	1	1
Adapter 30A L1, L2, L3 bottom feed	ZLS183	1	1
Adapter 30A L1, L2, L3, N bottom feed	ZLS184	1	1
Single Adapter 63A bottom feed			
Adapter 60A L1 bottom feed	ZLS171	1	1
Adapter 60A L2 bottom feed	ZLS172	1	1
Adapter 60A L3 bottom feed	ZLS173	1	1
Adapter 60A N bottom feed	ZLS170	1	1
Adapter dummy element	ZLS164	1	1
Single Adapter 63A top feed			
Adapter 60A L1 top feed	ZLS167	1	1
Adapter 60A L2 top feed	ZLS168	1	1
Adapter 60A L3 top feed	ZLS169	1	1
Adapter 60A N top feed	ZLS166	1	1
Combination 63A bottom feed			
Adapter 60A L1, N bottom feed	ZLS186	1	1
Adapter 60A L2, N bottom feed	ZLS187	1	1
Adapter 60A L3, N bottom feed	ZLS188	1	1
Adapter 60A L1, L2, L3 bottom feed	ZLS189	1	1
Adapter 60A L1, L2, L3, N bottom feed	ZLS190	1	1
Combination set for multiple pole adapter (Packets with 100 pieces for 50 adapters)	ZLS174	1	1

Order data of Adapter 100A

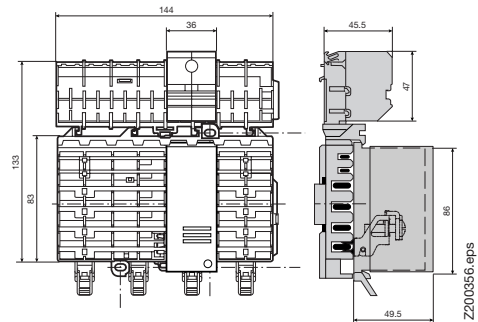
Type	Order data	Module	Packaging unit
Adapter with 3 connecting wires (L1, L2, L3)	ZLS240	4	1
Adapter with 4 connecting wires (L1, L2, L3, N)	ZLS241	4	1

Dimensions (in mm)

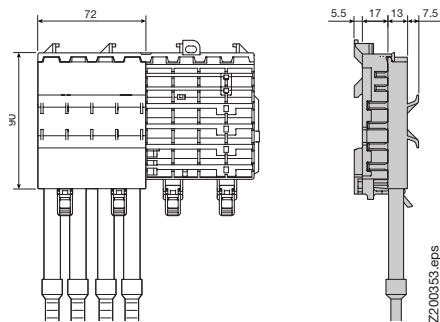
Incoming terminal blocks



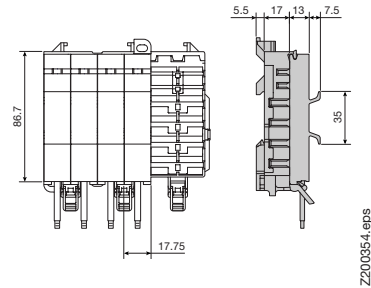
Incoming terminal components



Adapter for non smissline devices 100A

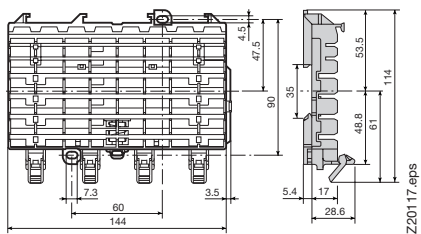


Adapter for foreign devices 30A, 60A



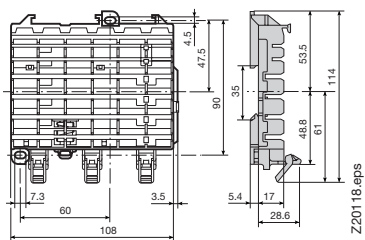
smissline-Socket base ZLS808

Socket base
- 8 way modules

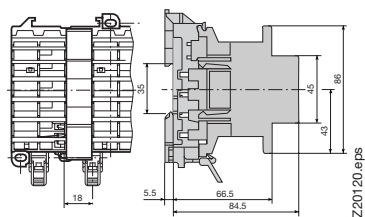


smissline-Socket base ZLS806

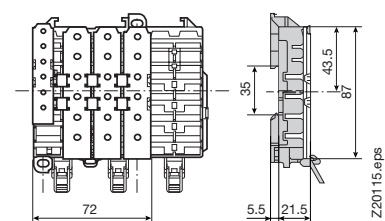
Socket base
- 6 way modules



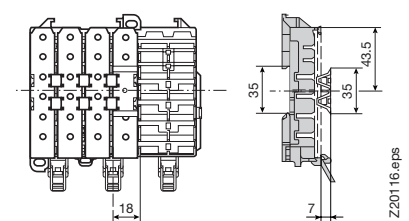
Bus-bar isolator ZLS239



Bus-bar cover ZLS100



Extension adapter ZLS101





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