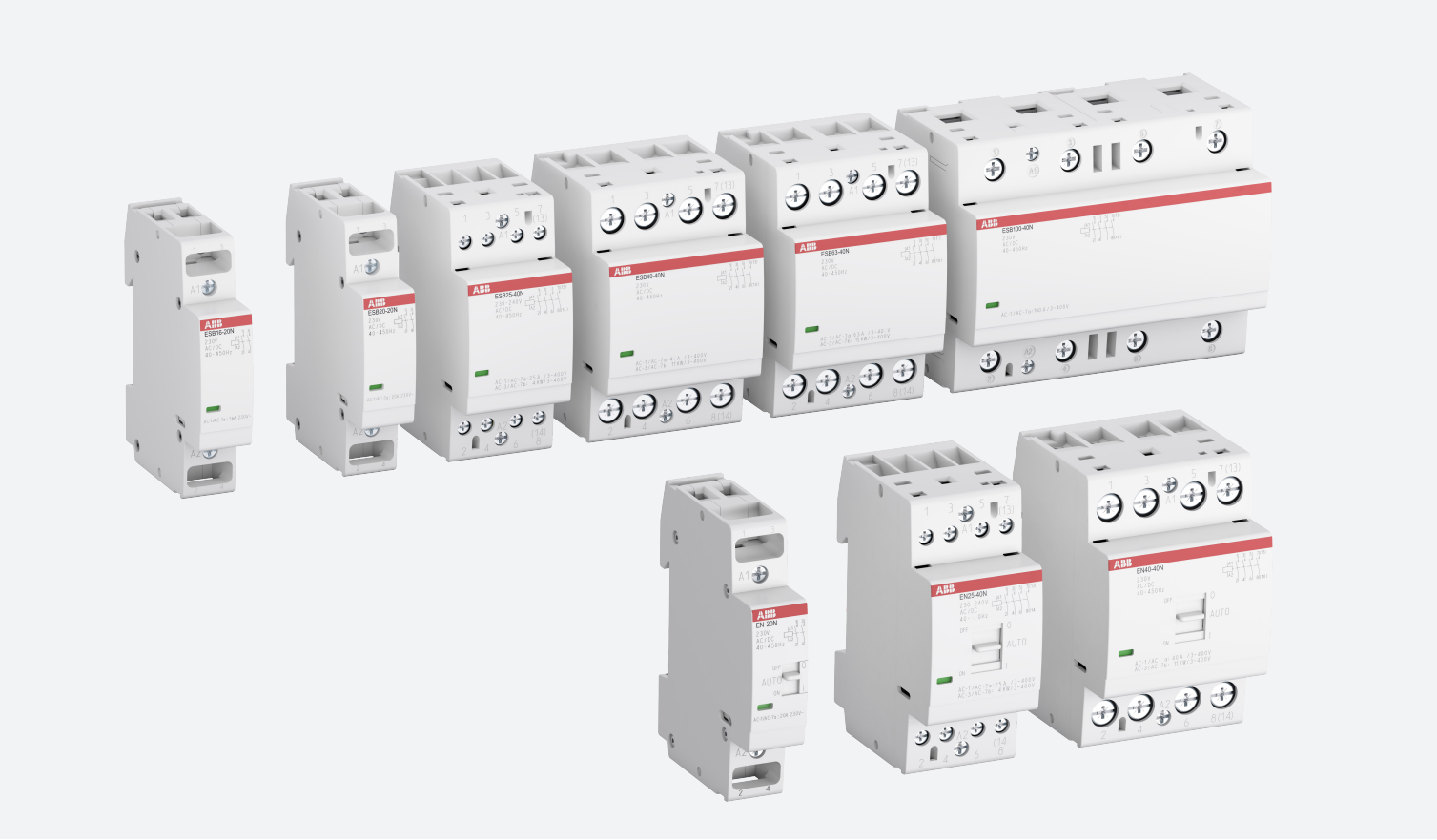
CATALOG

Installation contactors

Modular DIN rail components



- Quiet and reliable in every application with hum-free AC/DC coils
- Tool-free accessories
- Wide range from 16 to 100 A
- Single- and multipackaging available

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Available in a wide range from 16 to 100 A and featuring tool-free accessories, ABB´s installation contactors are widely used for switching and controlling lighting, heating, ventilation, motors and pumps. Quiet and reliable with hum-free AC/DC coils, the all-new installation contactors offer peace of mind in noise-sensitive applications.

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Installation contactors

A wide range of contactors take noise reduction to new levels

ABB's hum-free installation contactor designs now offer a wider range of ratings from 16 A to 100 A. Widely used in buildings for switching and controlling lighting, heating, ventilation, motor and pumps, the installation contactors take noise reduction to a new level. With an innovative AC / DC coil design that eliminates hum, a broad selection of common accessories as well as manual and automatic versions, installation contactors offer peace of mind in noise-sensitive applications.

Optimum interface

Quiet and reliable in every application
ABB's hum-free contactors feature innovative AC / DC coils. The range covers ratings from 16 A to 100 A and offers accessories to suit customer requirements in every application. An integrated indicator makes diagnostics quicker and provides reliable information about the contactor's status at a glance.

Easy to install

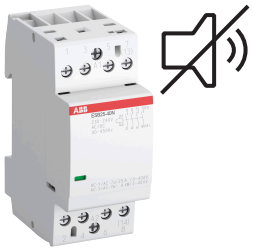
Simple solution that saves time
Reduce installation time and stock levels, with a universal auxiliary contact block that can be attached to the contactors by hand. Installation contactors fit easily with ABB's System Pro M compact range, making them fully compatible with other modular DIN-rail components.

Global availability

Whatever you need, wherever you need it
Installation contactors are available in single and multi-packs to meet different customer needs and to optimize warehousing space. Every ABB product enjoys expert local support worldwide to make communication easier and delivery faster.

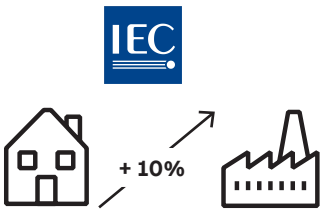
Installation contactors

Features and benefits

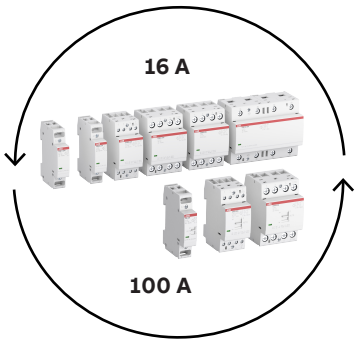


Hum-free operation
With an innovative AC / DC design that eliminates hum, the range meets the needs of applications demanding silent operation, for example hotel rooms and residential buildings.

Single and multiple packaging
The right packaging for your needs- our products are available in a choice of different packaging and delivery quantities. This allows you to warehouse according to your needs and save up to 50% on your inventory.



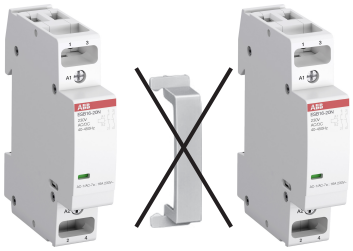
Wide application range
The ESB installation contactors range meets both the industrial standard IEC 60947-4-1 and the household standard IEC 61095 as well as pollution degree class 3. Due to multiple certification and inherent robustness, the contactors can be used in 10% more applications in both residential and industrial settings.



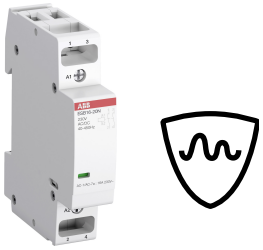
Comprehensive solution
ABB's ESB and EN installation contactors range offers a complete solution from 16 A to 100 A, offering an answer to all customer needs from a single supplier.
With 16 A, 25 A and 100 A versions, tender specifications can be met with competitive pricing.

Installation contactors

Features and benefits



Save up to 15% space with group mounting
ESB16..N, ESB/EN20..N and ESB100..N can be group mounted. There is no need for a distance piece in between contactors, saving both valuable space in cabinets and money.



Built-in protective circuit
Protect the contactor without additional space-demanding components against remote lightning strikes and overvoltages.

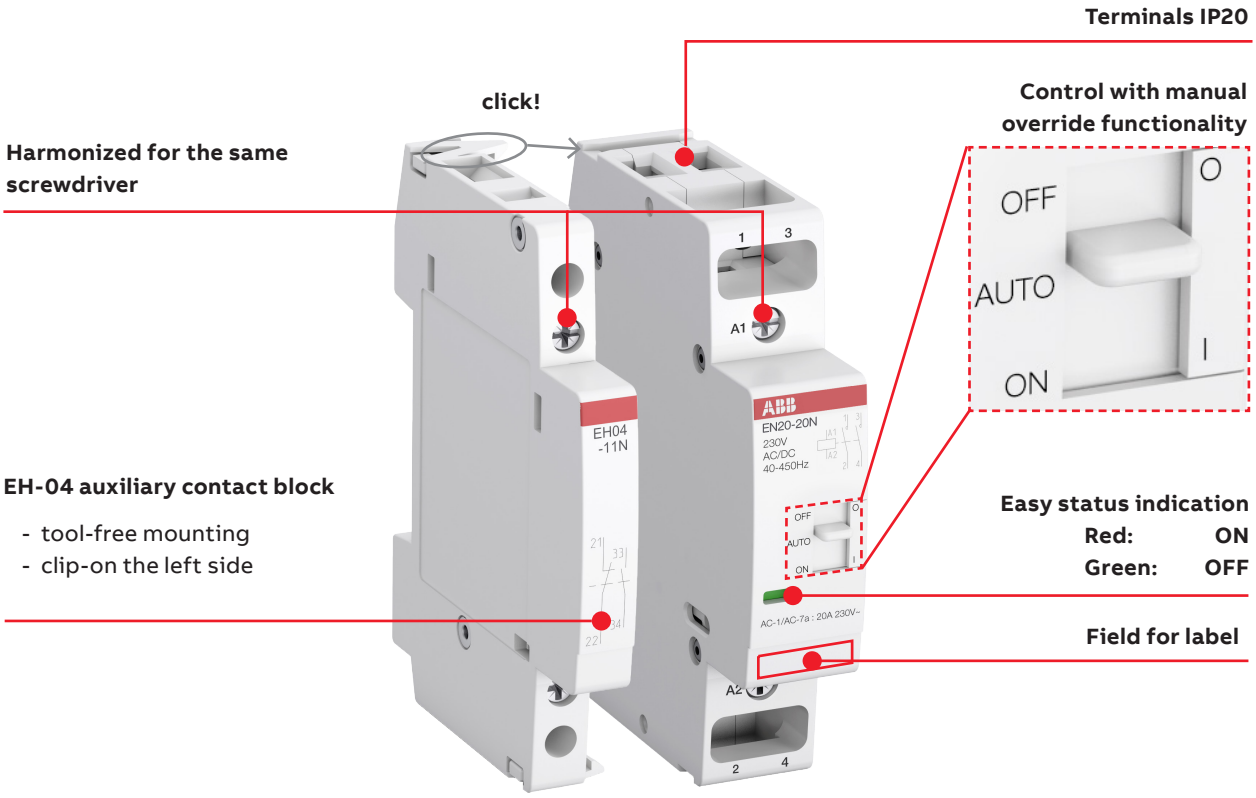
Design in accordance with System Pro M
Contactors and accessories are designed according to System pro M range and ABB´s modular DIN-rail components and fit in dedicated panels.

EAN-code for an easy identification
Just scan the EAN-code printed on the side of the devices and save up to 80% time identifying the product in your system. This way, handling and identifying your products in warehouse and cashier system is easy.

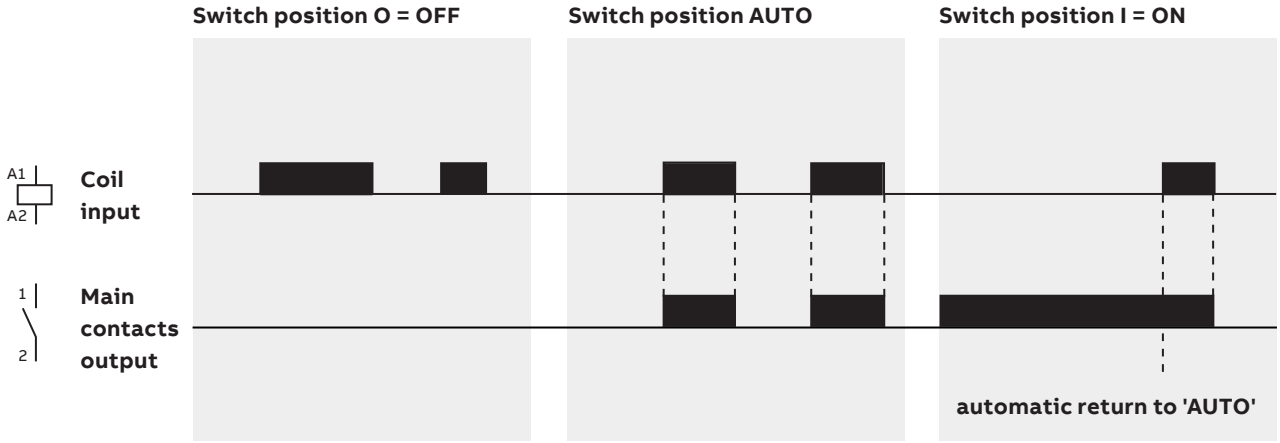
Installation contactors

Easy installation and maintenance

ABB´s installation contactors come with many features that make installation and maintenance easier. The mechanical Indicator with green and red color for status indication ensures a quick diagnostic of the system. Also, some specialty types feature a manual override functionality with a toggle switch to control independently from control source. Accessories can be mounted tool-free on the contactor, for example auxiliaries, space holders as well as security and safety covers.



Operation mode EN-versions



Installation contactors

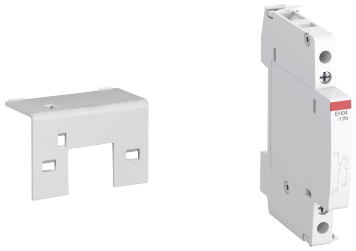
Overview contactors

Type		ESB16..N	ESB20..N EN20..N	ESB25..N EN25..N	ESB40..N EN40..N	ESB63..N	ESB100..N
AC-1/AC-7a (A)		16	20	25	40	63	100
Modular Width		1	1	2	3	3	3/6
Accessories							
Auxiliary contact blocks	2 NO	EH04-20N	EH04-20N	EH04-20N	EH04-20N	EH04-20N	EH04-20N
	1 NO + 1 NC	EH04-11N	EH04-11N	EH04-11N	EH04-11N	EH04-11N	EH04-11N
Distance piece	up to 40 °C	-	-	-	-	-	-
	between 40 °C and 55 °C	-	-	ESB-DIS*	ESB-DIS*	ESB-DIS*	-
Covers		-	-	ESB-PLK24 ESB-SPK24	ESB-PLK40/63 ESB-SPK40/63	ESB-PLK40/63 ESB-SPK40/63	-

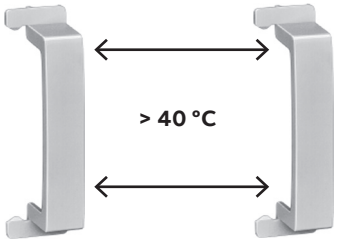
*If several contactors are mounted adjacently and the duty time is longer than one hour, every second contactor needs a distance piece, Type ESB-DIS (1/2 module).
This is not necessary at an ambient temperature ≤ 40 °C .

Installation contactors

Overview accessories

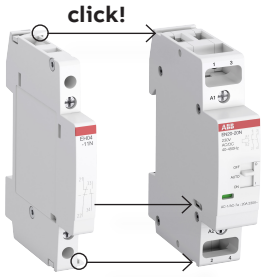


Tool-free accessories
Speed up installation and maintenance time by mounting accessories tool-free to the contactor. Auxiliaries, security safety covers and space holders are easily and quickly installed.



Distance pieces
If the ambient temperature in your control cabinet exceeds 40 °C and the duty time is longer than an hour, you need to use a distance piece between each second contactor for the ESB25..N to ESB63..N.

Sealing covers
Protect the security of your employees/customers´installation with sealing covers. They are available in different sizes and can be clipped on easily.



Auxiliary contact blocks
ABB´s new range of auxiliary contact blocks are mounted on the left side of the contactors. Simply clip them on - no tools required! Valuable inventory space can be saved with the new auxiliary contact block which is designed to fit all contactors of the range.

The innovative AC/DC coil design eliminates hum and offers peace of mind in noise-sensitive applications like hotel rooms and offices.

ESB16..N installation contactors

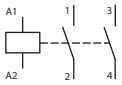
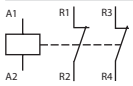
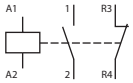
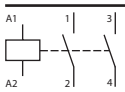
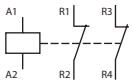
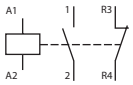
Ordering details 16 A, AC-1 /AC-7a, AC/DC operated

1SBC101551V0000

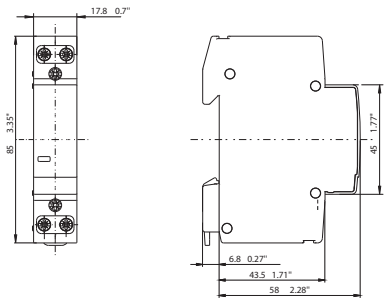
ESB16..N

The ESB16..N installation contactors are used to control single-phase loads up to 16 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB16..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1]	Type	Order code	Pkg qty	Weight (1 pc.)
		V AC/DC				kg
Single packaging						
	1	24	ESB16-20N-01	1SBE111111R0120	1	0.14
		230	ESB16-20N-06	1SBE111111R0620	1	0.14
	1	24	ESB16-02N-01	1SBE111111R0102	1	0.14
		230	ESB16-02N-06	1SBE111111R0602	1	0.14
	1	24	ESB16-11N-01	1SBE111111R0111	1	0.14
		230	ESB16-11N-06	1SBE111111R0611	1	0.14
Multiple packaging						
	1	24	ESB16-20N-01	1SBE111111M0120	12	0.14
		230	ESB16-20N-06	1SBE111111M0620	12	0.14
	1	24	ESB16-02N-01	1SBE111111M0102	12	0.14
		230	ESB16-02N-06	1SBE111111M0602	12	0.14
	1	24	ESB16-11N-01	1SBE111111M0111	12	0.14
		230	ESB16-11N-06	1SBE111111M0611	12	0.14

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



1SBC501727F0000

ESB16..N

Dimensions mm, inches

ESB20..N installation contactors

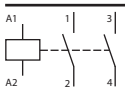
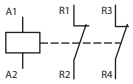
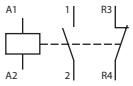
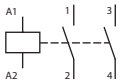
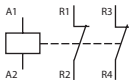
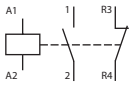
Ordering details 20 A, AC-1 /AC-7a, AC/DC operated

1SBC101552V0000

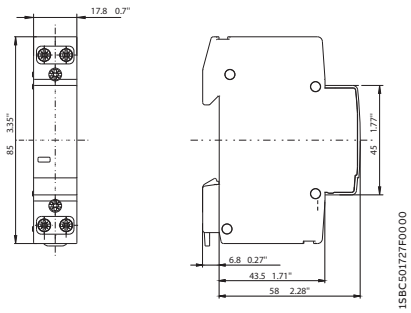
ESB20..N

The ESB20..N installation contactors are used to control single-phase loads up to 20 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB20..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1] V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	1	24	ESB20-20N-01	1SBE121111R0120	1	0.14
		230	ESB20-20N-06	1SBE121111R0620	1	0.14
	1	24	ESB20-02N-01	1SBE121111R0102	1	0.14
		230	ESB20-02N-06	1SBE121111R0602	1	0.14
	1	24	ESB20-11N-01	1SBE121111R0111	1	0.14
		230	ESB20-11N-06	1SBE121111R0611	1	0.14
Multiple packaging						
	1	24	ESB20-20N-01	1SBE121111M0120	12	0.14
		230	ESB20-20N-06	1SBE121111M0620	12	0.14
	1	24	ESB20-02N-01	1SBE121111M0102	12	0.14
		230	ESB20-02N-06	1SBE121111M0602	12	0.14
	1	24	ESB20-11N-01	1SBE121111M0111	12	0.14
		230	ESB20-11N-06	1SBE121111M0611	12	0.14

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



ESB20..N

Dimensions mm, inches

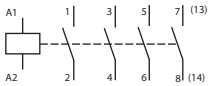
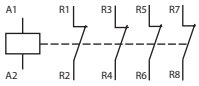
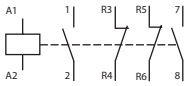
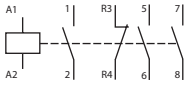
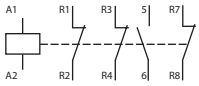
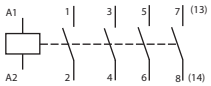
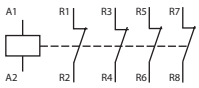
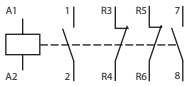
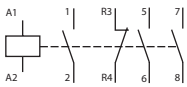
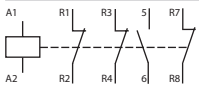
ESB25..N installation contactors

Ordering details 25 A, AC-1/AC-7a, AC/DC operated

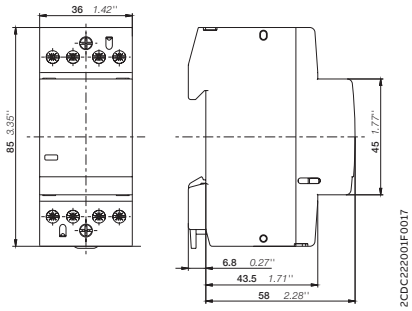
ESB25..N

The ESB25..N installation contactors are used to control single and three-phases loads up to 25 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB25..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1] V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	2	24	ESB25-40N-01	1SAE231111R0140	1	0.245
		230 ... 240	ESB25-40N-06	1SAE231111R0640	1	0.235
	2	24	ESB25-04N-01	1SAE231111R0104	1	0.245
		230 ... 240	ESB25-04N-06	1SAE231111R0604	1	0.235
	2	24	ESB25-22N-01	1SAE231111R0122	1	0.245
		230 ... 240	ESB25-22N-06	1SAE231111R0622	1	0.235
	2	24	ESB25-31N-01	1SAE231111R0131	1	0.245
		230 ... 240	ESB25-31N-06	1SAE231111R0631	1	0.235
	2	24	ESB25-13N-01	1SAE231111R0113	1	0.245
		230 ... 240	ESB25-13N-06	1SAE231111R0613	1	0.235
Multiple packaging						
	2	24	ESB25-40N-01	1SAE231111M0140	6	0.245
		230 ... 240	ESB25-40N-06	1SAE231111M0640	6	0.235
	2	24	ESB25-04N-01	1SAE231111M0104	6	0.245
		230 ... 240	ESB25-04N-06	1SAE231111M0604	6	0.235
	2	24	ESB25-22N-01	1SAE231111M0122	6	0.245
		230 ... 240	ESB25-22N-06	1SAE231111M0622	6	0.235
	2	24	ESB25-31N-01	1SAE231111M0131	6	0.245
		230 ... 240	ESB25-31N-06	1SAE231111M0631	6	0.235
	2	24	ESB25-13N-01	1SAE231111M0113	6	0.245
		230 ... 240	ESB25-13N-06	1SAE231111M0613	6	0.235

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



ESB25..N

Dimensions mm, inches

ESB40..N installation contactors

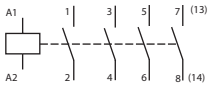
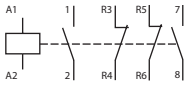
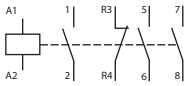
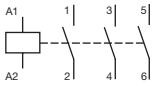
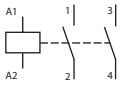
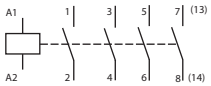
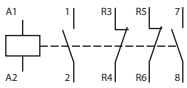
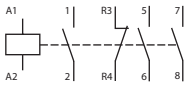
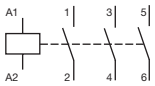
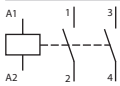
Ordering details 40 A, AC-1/AC-7a, AC/DC operated

2CDC221008V0017

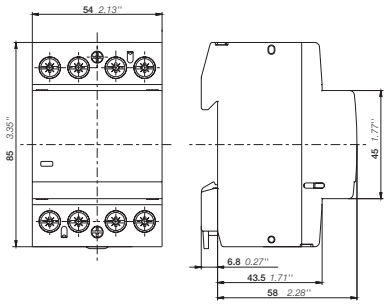
ESB40..N

The ESB40..N installation contactors are used to control single and three-phases loads up to 40 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB40..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1] V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	3	24	ESB40-40N-01	1SAE341111R0140	1	0.405
		230	ESB40-40N-06	1SAE341111R0640	1	0.405
	3	24	ESB40-22N-01	1SAE341111R0122	1	0.405
		230	ESB40-22N-06	1SAE341111R0622	1	0.405
	3	24	ESB40-31N-01	1SAE341111R0131	1	0.405
		230	ESB40-31N-06	1SAE341111R0631	1	0.405
	3	24	ESB40-30N-01	1SAE341111R0130	1	0.385
		230	ESB40-30N-06	1SAE341111R0630	1	0.385
	3	24	ESB40-20N-01	1SAE341111R0120	1	0.370
		230	ESB40-20N-06	1SAE341111R0620	1	0.370
Multiple packaging						
	3	24	ESB40-40N-01	1SAE341111M0140	4	0.405
		230	ESB40-40N-06	1SAE341111M0640	4	0.405
	3	24	ESB40-22N-01	1SAE341111M0122	4	0.405
		230	ESB40-22N-06	1SAE341111M0622	4	0.405
	3	24	ESB40-31N-01	1SAE341111M0131	4	0.405
		230	ESB40-31N-06	1SAE341111M0631	4	0.405
	3	24	ESB40-30N-01	1SAE341111M0130	4	0.385
		230	ESB40-30N-06	1SAE341111M0630	4	0.385
	3	24	ESB40-20N-01	1SAE341111M0120	4	0.370
		230	ESB40-20N-06	1SAE341111M0620	4	0.370

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



2CDC222003F0017

ESB40..N

Dimensions mm, inches

ESB63..N installation contactors

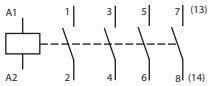
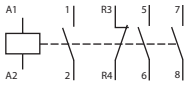
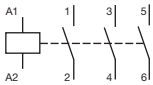
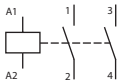
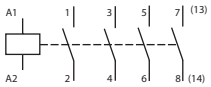
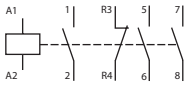
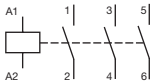
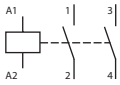
Ordering details 63 A, AC-1/AC-7a, AC/DC operated

2CDC221009V0017

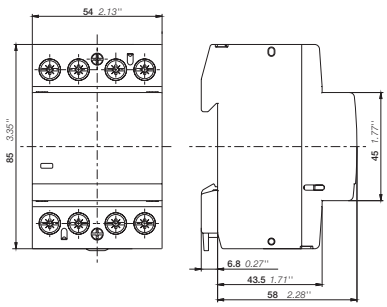
ESB63..N

The ESB63..N installation contactors are used to control single and three-phases loads up to 63 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB63..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1] V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	3	24	ESB63-40N-01	1SAE351111R0140	1	0.405
		230	ESB63-40N-06	1SAE351111R0640	1	0.405
	3	230	ESB63-31N-06	1SAE351111R0631	1	0.405
	3	230	ESB63-30N-06	1SAE351111R0630	1	0.385
	3	24	ESB63-20N-01	1SAE351111R0120	1	0.37
		230	ESB63-20N-06	1SAE351111R0620	1	0.37
Multiple packaging						
	3	24	ESB63-40N-01	1SAE351111M0140	4	0.405
		230	ESB63-40N-06	1SAE351111M0640	4	0.405
	3	230	ESB63-31N-06	1SAE351111M0631	4	0.405
	3	230	ESB63-30N-06	1SAE351111M0630	4	0.385
	3	24	ESB63-20N-01	1SAE351111M0120	4	0.37
		230	ESB63-20N-06	1SAE351111M0620	4	0.37

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



2CDC222003F0017

ESB63..N

Dimensions mm, inches

ESB100..N installation contactors

Ordering details 100 A, AC-1/AC-7a, AC/DC operated

2CDC221010V0017

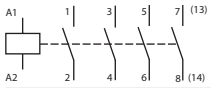
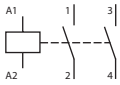
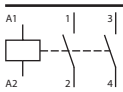
ESB100-20N

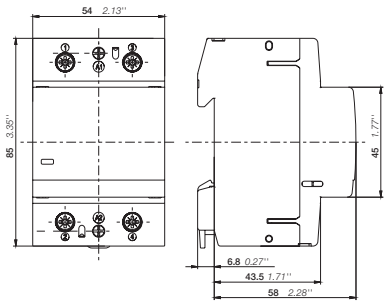
2CDC221011V0017

ESB100-40N

The ESB100..N installation contactors are used to control single and three-phases loads up to 100 A and can be operated by AC or DC voltages. These contactors are made for use in household applications as well as in industrial environment.
ESB100..N series is providing the following benefits:

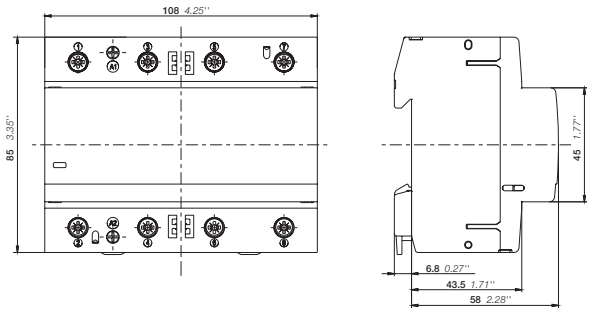
- Hum-free operation, low power consumption and integrated overvoltage protection.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	6	24	ESB100-40N-01	1SAE661111R0140	1	0.405
		230	ESB100-40N-06	1SAE661111R0640	1	0.405
	3	24	ESB100-20N-01	1SAE361111R0120	1	0.81
		230	ESB100-20N-06	1SAE361111R0620	1	0.81
Multiple packaging						
	3	24	ESB100-20N-01	1SAE361111M0120	2	1.62
		230	ESB100-20N-06	1SAE361111M0620	2	1.62



2CDC222005F0017

ESB100-20N



2CDC222006F0017

ESB100-40N

Dimensions mm, inches

EN20..N installation contactors - manually/automatic operated

Ordering details 20 A, AC-1/AC-7a, AC/DC operated

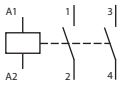
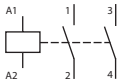
1SBC101553V0000

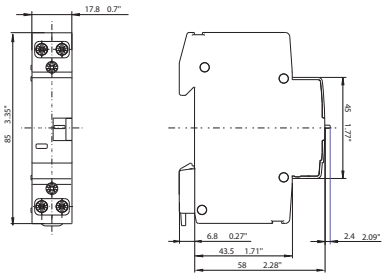
EN20..N

The EN20..N installation contactors are used to control single-phase loads up to 20 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN20..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	1	24	EN20-20N-01	1SBE122111R0120	1	0.14
		230	EN20-20N-06	1SBE122111R0620	1	0.14
Multiple packaging						
	1	24	EN20-20N-01	1SBE122111M0120	12	0.14
		230	EN20-20N-06	1SBE122111M0620	12	0.14



1SBC501729F0000

EN20..N

Dimensions mm, inches

EN25..N installation contactors - manually/automatic operated

Ordering details 25 A, AC-1/AC-7a, AC/DC operated

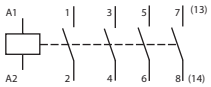
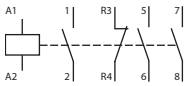
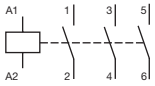
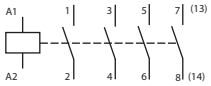
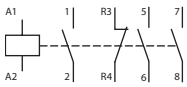
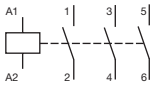
2CDC221031V0017

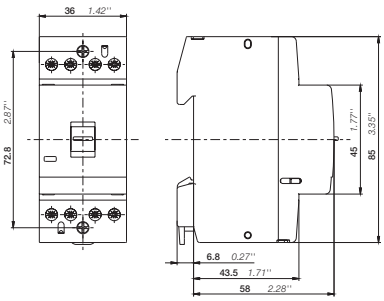
EN25..N

The EN25..N installation contactors are used to control single- and three-phase loads up to 25 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN25..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	2	24	EN25- 40N- 01	1SAE232111R0140	1	0.250
		230 ... 240	EN25-40N-06	1SAE232111R0640	1	0.240
	2	24	EN25-31N-01	1SAE232111R0131	1	0.250
		230 ... 240	EN25-31N-06	1SAE232111R0631	1	0.240
	2	230 ... 240	EN25-30N-06	1SAE232111R0630	1	0.235
Multiple packaging						
	2	24	EN25-40N-01	1SAE232111M0140	6	0.250
		230 ... 240	EN25-40N-06	1SAE232111M0640	6	0.240
	2	24	EN25-31N-01	1SAE232111M0131	6	0.250
		230 ... 240	EN25-31N-06	1SAE232111M0631	6	0.240
	2	230 ... 240	EN25-30N-06	1SAE232111M0630	6	0.235



2CDC222002F0017

EN25..N

Dimensions mm, inches

EN40..N installation contactors - manually/automatic operated

Ordering details 40 A, AC-1/AC-7a, AC/DC operated

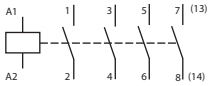
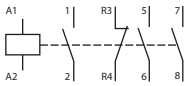
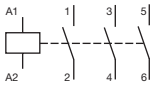
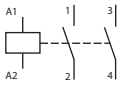
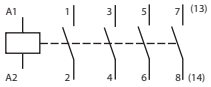
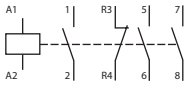
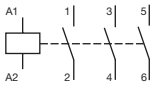
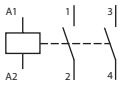
EN40..N

2CDC221004V0017

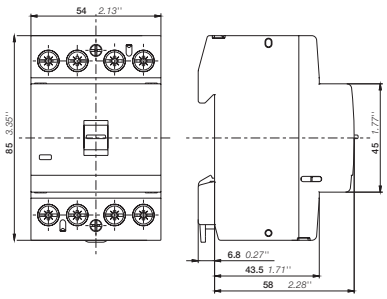
The EN40..N installation contactors are used to control single- and three-phase loads up to 40 A and can be operated by AC or DC voltages. They have a built-in toggle switch to be operated manually or automatically. These contactors are made for use in household applications as well as in industrial environment.

EN40..N series is providing the following benefits:

- Hum-free operation, low power consumption and integrated overvoltage protection and manual override.
- Various contact combinations and accessories are available.

Main contacts	Width in number of modular spacings	Rated control circuit voltage[1] V AC/DC	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging						
	3	24	EN40-40N-01	1SAE342111R0140	1	0.410
		230	EN40-40N-06	1SAE342111R0640	1	0.410
	3	24	EN40-31N-01	1SAE342111R0131	1	0.410
		230	EN40-31N-06	1SAE342111R0631	1	0.410
	3	230	EN40-30N-06	1SAE342111R0630	1	0.410
	3	230	EN40-20N-06	1SAE342111R0620	1	0.375
Multiple packaging						
	3	24	EN40-40N-01	1SAE342111M0140	4	0.410
		230	EN40-40N-06	1SAE342111M0640	4	0.410
	3	24	EN40-31N-01	1SAE342111M0131	4	0.410
		230	EN40-31N-06	1SAE342111M0631	4	0.410
	3	230	EN40-30N-06	1SAE342111M0630	4	0.410
	3	230	EN40-20N-06	1SAE342111M0620	4	0.375

[1] Other control voltages: see voltage code table and contact ABB for availability of products.



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EN40..N

Dimensions mm, inches

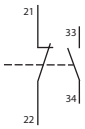
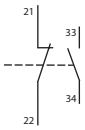
Installation contactors

Ordering details accessories

2CDC221001V0017

EH04-20N

Auxiliary contact blocks

Suitable for	Auxiliary contacts	Type	Order code	Pkg qty	Weight (1 pc.) kg
Single packaging					
ESB16..N, ESB20..N, ESB25..N, ESB40..N, ESB63..N, ESB100..N, EN20..N, EN25..N, EN40..N		EH04-11N	1SAE901901R1011	1	0.040
		EH04-20N	1SAE901901R1020	1	0.040
Multiple packaging					
ESB16..N, ESB20..N, ESB25..N, ESB40..N, ESB63..N, ESB100..N, EN20..N, EN25..N, EN40..N		EH04-11N	1SAE901901M1011	6	0.040
		EH04-20N	1SAE901901M1020	6	0.040

SST31292

ESB-PLK24

2CDC221001F0012

ESB-DIS

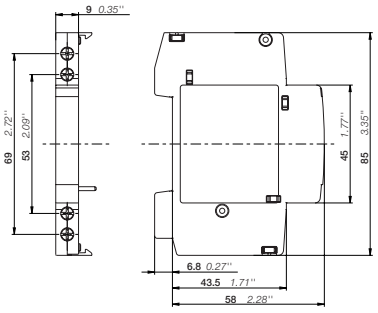
2CDC2210250014

ESB-SPK40/63

Accessories

Suitable for	Description	Type	Order code	Pkg qty	Weight (1 pc.) kg
Sealing covers					
ESB25..N, EN25..N	sealing cover	ESB-PLK24	GHE3201903R0001	10	0.002
ESB40..N, ESB63..N, EN40..N	sealing cover	ESB-PLK40/63	GHE3401903R0001	10	0.003
ESB25..N, EN25..N	protection cover	ESB-SPK24	GHE3201903R0002	10	0.005
ESB40..N, ESB63..N, EN40..N	protection cover	ESB-SPK40/63	GHE3401903R0002	10	0.010
Distance piece					
ESB25..N, ESB40..N, ESB63..N, EN25..N, EN40..N		ESB-DIS [1]	GHE3201902R0001	10	0.002

[1] If several contactors are mounted adjacently and the duty time is longer than one hour, every second contactor needs a distance piece, Type ESB-DIS (1/2 module). This is not necessary at an ambient temperature ≤ 40 °C or on Type ESB16..N, ESB/EN20..N and ESB100..N.



2CDC222007F0017

EH04..N

Dimensions mm, inches

Installation contactors

Technical data main circuit

Main circuit – Utilization characteristics according to IEC/EN

Contactor type		ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Standards		IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 61095					
Rated operational voltage U_e		220 V DC 250 V AC	220 V DC 250 V AC	220 V DC 400 V AC	220 V DC 400 V AC	220 V DC 400 V AC	220 V DC 400 V AC
Rated frequency		DC, 50/60 Hz	DC, 50/60 Hz	DC, 50/60 Hz	DC, 50/60 Hz	DC, 50/60 Hz	DC, 50/60 Hz
AC-1/AC-7a utilization category for air temperature near the contactor ≤ 55 °C							
Rated operational current I_e AC-1/AC-7a	NO	16 A	20 A	25 A	40 A	63 A	100 A
	NC	16 A	20 A	25 A	30 A	30 A	-
Rated operational power AC-1	230 V 1 phase	3.7 kW	4.6 kW	5.8 kW	9.2 kW	14.5 kW	23 kW
	400 V 3 phases	–	–	17.3 kW	27.7 kW	43.6 kW	69.3 kW
AC-3/AC-7b utilization category for air temperature close to contactor ≤ 55 °C							
Rated operational current I_e AC-3/AC-7b	230 V 1 phase	6 A	9 A	9 A	22 A	30 A	–
	400 V 3 phases	–	–	9 A	22 A	30 A	–
Rated operational power AC-3	230 V 1 phase	0.9 kW	1.3 kW	1.3 kW	3.7 kW	5 kW	–
	400 V 3 phases	–	–	4 kW	11 kW	15 kW	–
Rated making capacity AC-3 acc. to IEC 60947-4-1		10 x I_e /AC-3	10 x I_e /AC-3	10 x I_e /AC-3	10 x I_e /AC-3	10 x I_e /AC-3	–
Rated breaking capacity AC-3 acc. to IEC 60947-4-1		8 x I_e /AC-3	8 x I_e /AC-3	8 x I_e /AC-3	8 x I_e /AC-3	8 x I_e /AC-3	–
Short-circuit protective devices - gG type fuses, type 1 coordinated		20 A	20 A	35 A	63 A	80 A	125 A
Rated short-time withstand current I_{cw} at 40 °C ambient temp. in free air, from a cold state	10 s	48 A	72 A	72 A	176 A	240 A	–
Minimum switching capacity		17 V/200 mA	17 V/200 mA	17 V/200 mA	17 V/200 mA	17 V/200 mA	17 V/200 mA
Power loss per pole		0.9 W	1.4 W	2 W	3 W	4.5 W	6 W
Maximum electrical switching frequency	AC-1/AC-7a	300 cycles/h	300 cycles/h	300 cycles/h	300 cycles/h	300 cycles/h	150 cycles/h
	AC-3/AC-7b	600 cycles/h	600 cycles/h	600 cycles/h	600 cycles/h	600 cycles/h	–
Electrical durability	AC-1/AC-7a	150,000 cycles	150,000 cycles	130,000 cycles	150,000 cycles	100,000 cycles	70,000 cycles
	AC-3/AC-7b	150,000 cycles	150,000 cycles	500,000 cycles	150,000 cycles	240,000 cycles	–
Mechanical durability		1,000,000 cycles					

Installation contactors

Technical data main circuit and control circuit

Main circuit – Utilization characteristics according to UL/CSA

Contactor type		ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Standards		UL 60947-1, UL 60947-4-1					
General use rating	240 V	16 A	20 A	–	–	–	–
	480 V	–	–	25 A	40 A	63 A	100 A
Motor rating							
Full load current	220 ... 240 V 1 phase	6.9 A	8 A	–	–	–	–
	220 ... 240 V 3 phases	–	–	9.6 A	22 A	28 A	–
	440 ... 480 V 3 phases	–	–	7.6 A	21 A	21 A	–
Horse power rating	220 ... 240 V 1 phase	0.8 hp	1 hp	–	–	–	–
	220 ... 240 V 3 phases	–	–	3 hp	7.5 hp	10 hp	–
	440 ... 480 V 3 phases	–	–	5 hp	15 hp	15 hp	–
Short-circuit protection for contactors without thermal O/L relay - Motor protection excluded							
	Fuse rating	20 A	20 A	25 A	40 A	75 A	125 A
	Fuse type 480 V	K5	K5	K5	K5	K5	K5
Max. electrical switching frequency							
	for general use	300 cycles/h	300 cycles/h	300 cycles/h	300 cycles/h	300 cycles/h	150 cycles/h
	for motor use	600 cycles/h	600 cycles/h	600 cycles/h	600 cycles/h	600 cycles/h	–

General technical data

Contactor type		ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Rated insulation voltage U_i acc. to IEC 60947-4-1 and VDE 0110 (Gr. C)		400 V	400 V	500 V	500 V	500 V	500 V
Rated impulse withstand voltage U_{imp}		6 kV	ESB: 6 kV EN: 6 kV	ESB: 6 kV EN: 4 kV/6 kV with protection cover		6 kV	6 kV
Ambient air temperature range [1]	operation	-25 ... +55 °C	-25 ... +55 °C	-25 ... +55 °C	-25 ... +55 °C	-25 ... +55 °C	-25 ... +55 °C
	storage	-40 ... +80 °C	-40 ... +80 °C	-40 ... +80 °C	-40 ... +80 °C	-40 ... +80 °C	-40 ... +80 °C
Maximum operating altitude permissible		2000 m	2000 m	2000 m	2000 m	2000 m	2000 m
Vibration (sinusoidal) according to IEC/EN 60068-2-6 (Fc)		1 g/3-150 Hz	1 g/3-150 Hz	1 g/3-150 Hz	1 g/3-150 Hz	1 g/3-150 Hz	
Shock (half-sine) according to IEC/EN 60947-1 Annex. Q		Category E	Category E	Category E	Category E	Category E	Category E
Shock (half-sine) according to IEC/EN 60068-2-27 (Ea)		15g/11ms	15g/11ms	15g/11ms	15g/11ms	15g/11ms	15g/11ms

1) If several contactors are mounted adjacently and the duty time is longer than one hour, every second contactor needs a distance piece, Type ESB-DIS (1/2 module). This is not necessary at an ambient temperature ≤ 40 °C or on Type ESB16..N, ESB/EN20..N and ESB100..N

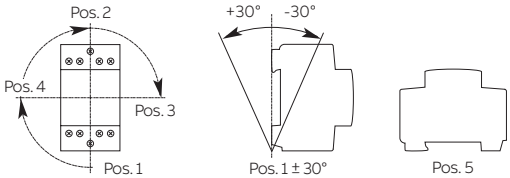
Magnet system characteristics

Contactor type			ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Coil operating limits acc. to IEC/EN60947-4-1			0.85 ... 1.1 x U_c (at $\theta \leq 55$ °C)					
Rated frequency			DC, 50/60/400 Hz					
Frequency range			DC, 40 ... 450 Hz					
Coil consumption	pull-in	50 Hz	2.5 VA	2.5 VA	4 VA	4.5 VA	60 VA	90 VA
		60 Hz	2.5 VA	2.5 VA	4 VA	4.5 VA	60 VA	90 VA
		DC	2.5 W	2.5 W	4 W	5 W	70 W	100 W
	holding	50 Hz	2.5 VA	2.5 VA	4 VA	4.5 VA	4.5 VA	7.5 VA
		60 Hz	2.5 VA	2.5 VA	4 VA	4.5 VA	4.5 VA	7.5 VA
		DC	2.5 W	2.5 W	4 W	5 W	5 W	8.5 W

Installation contactors

Technical data main circuit and control circuit

Mounting characteristics and conditions for use

Contactor type	ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Mounting position	Position 1 to 5 					
Mounting on DIN rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715					

Main circuit - Connecting characteristics

Contactor type	ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Connecting capacity						
Rigid	1x 1 ... 10 mm² 2x 1 ... 4 mm²	1x 1 ... 10 mm² 2x 1 ... 4 mm²	1x 1.5 ... 10 mm² 2x 1.5 ... 4 mm²	1x 1.5 ... 25 mm² 2x 1.5 ... 10 mm²	1x 1.5 ... 25 mm² 2x 1.5 ... 10 mm²	1x 10 ... 50 mm²
Flexible with ferrule	1x 1 ... 6 mm² 2x 1 ... 2.5 mm²	1x 1 ... 6 mm² 2x 1 ... 2.5 mm²	1 x 1.5 ... 10 mm² 2x 1.5 ... 2.5 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 10 ... 35 mm²
Flexible with insulated ferrule	1x 1 ... 6 mm² 2x 1 ...1.5 mm²	1x 1 ... 6 mm² 2x 1 ...1.5 mm²	1 x 1 .5 ... 10 mm² 2x 1 .5 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 10 ... 35 mm²
Flexible	1x 1 ... 6 mm² 2x 1... 4 mm²	1x 1 ... 6 mm² 2x 1... 4 mm²	1 x 1.5 ... 10 mm² 2x 1.5 ... 4 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 1.5 ... 16 mm² 2x 1.5 ... 10 mm²	1x 10 ... 35 mm²
Stranded acc. to UL/CSA	14-8 AWG	14-8 AWG	16-8 AWG	16-4 AWG	16-4 AWG	8-0 AWG
Degree of protection	IP20	IP20	IP20	IP20	IP20	IP20
Wire stripping length	10 mm	10 mm	10 mm	13 mm	13 mm	15 mm
Tightening torque	1.2 N·m/ 11 lb.in	1.2 N·m/ 11 lb.in	1 N·m/ 9 lb.in	2.5 N·m/ 20 lb.in	2.5 N·m/ 20 lb.in	3 N·m/ 27 lb.in
Recommended screw driver	Pozidriv 1	Pozidriv 1	Pozidriv 1	Pozidriv 2	Pozidriv 2	Pozidriv 2

Control circuit - Connecting characteristics

Contactor type	ESB16..N	ESB20..N/ EN20..N	ESB25..N/ EN25..N	ESB40..N/ EN40..N	ESB63..N	ESB100..N
Connecting capacity						
Rigid	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²
Flexible with ferrule	1x 0.75 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 0.75 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 0.75 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 0.75 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 0.75 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 0.75 ... 2.5mm² 2x 0.75 ... 1 mm²
Flexible with insulated ferrule	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²	1x 1 ... 2.5 mm² 2x 0.75 ... 1 mm²
Flexible	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²	1x 1 ... 4 mm² 2x 1 ... 2.5 mm²
Stranded acc. to UL/CSA	16-10 AWG	16-10 AWG	16-10 AWG	16-10 AWG	16-10 AWG	16-10 AWG
Degree of protection	IP20	IP20	IP20	IP20	IP20	IP20
Wire stripping length	7 mm	7 mm	7 mm	7 mm	7 mm	7 mm
Tightening torque	0.9 N·m/8 lb.in	0.9 N·m/8 lb.in	0.9 N·m/8 lb.in	0.9 N·m/8 lb.in	0.9 N·m/8 lb.in	0.9 N·m/8 lb.in
Recommended screw driver	Pozidriv 1	Pozidriv 1	Pozidriv 1	Pozidriv 1	Pozidriv 1	Pozidriv 1

Installation contactors

Technical data auxiliary circuit

Auxiliary circuit - Utilization characteristics according to IEC/EN

For ambient temperature T_u = 40 °C if not stated otherwise.

Contactor type			EH04-xxN
Standards			IEC/EN 60947-1, IEC/EN 60947-5-1
Rated operational voltage U_e			500 V AC
			250 V DC
Rated frequency			DC, 50/60 Hz
Rated operational current I_e AC-15	24 V	NO/NC	6 A/6 A
	120 V	NO/NC	6 A/6 A
	240 V	NO/NC	4 A/4 A
	415 V	NO/NC	3 A/3 A
	500 V	NO/NC	2 A/2 A
Rated operational current I_e DC-13	125 V	NO/NC	0.55 A/0.55 A
	250 V	NO/NC	0.27 A/0.27 A
Minimum switching capacity			17 V/5 mA
Short-circuit protective devices			10 A, gG type fuse
Mechanical durability			1,000,000 cycles
Electrical durability	AC-15	240 V/4 A	100,000 cycles
	DC-13	125 V/0.55 A	100,000 cycles
Maximum electrical switching frequency	AC-15		360 cycles/h
	DC-13		360 cycles/h

General technical data

Contactor type			EH04-xxN
Duty time			100%
Rated impulse withstand voltage U_{imp} acc. to IEC/EN 60947-1			4 kV
Rated insulation voltage U_i acc. to IEC/EN 60947-1			500 V
Pollution category acc. to IEC/EN 60664			2
Overvoltage category acc. to IEC/EN 60664			Up to III
Maximum operating altitude permissible			2000 m
Ambient air temperature range	Operation	Open	-25 °C ... +55 °C
	Storage		-40 °C ... +80 °C
Vibration (sinusoidal) acc. to IEC/EN 60068-2-6 (Fc)			5 g/3-150 Hz
Shock (half-sine) acc. to IEC/EN 60947-1 Annex. Q			Category E
Shock (half-sine) acc. to IEC/EN 60068-2-27 (Ea)			15 g/11 ms

Auxiliary circuit - Utilization characteristics according to UL/CSA

Contactor type		EH04-xxN
Standards		UL 60947-1, UL 60947-4-1
Max. operational voltage		600 V AC
Pilot duty		A600
Thermal continuous test current		10 A
General use rating	600 V AC per pole	5 A

Installation contactors

Technical data auxiliary circuit

Mounting characteristics and conditions for use

Contactor type	EH04-xxN		
Mounting position	Position 1	0°	Yes
	Position 2	180°	Yes
	Position 3	270°	Yes
	Position 4	90°	Yes
	Position 5	standing	Yes
	Position 6	upside down	Not allowed
Mounting on DIN rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715		

Auxiliary circuit - Connecting characteristics

Contactor type		EH04-xxN
Connecting capacity		
	Rigid	1x 1 mm² ...4 mm² 2x 1 mm² ... 1.5 mm²
	Flexible with ferrule	1x 1 mm² ... 1.5 mm²
	Flexible with insulated ferrule	-
	Flexible	1x 1 mm² ... 1x 2.5 mm²
	Stranded acc. to UL/CSA	AWG 18.... AWG 12
Degree of protection		IP20
Wire stripping length (upper/lower)		17 mm (≤ 1.5mm² 7 mm) / 9 mm (≤ 1.5mm² 7 mm)
Tightening torque		0.9 N·m/ 8 lb.in
Recommended screw driver		Pozidriv 1

Installation contactors

DC switching table

Type	Rated operational voltage	Contact	DC-1/A 1-pole	DC-3/A 1-pole
ESB16-..N	24 V DC	NO	16	12
	48 V DC		12	6
	60 V DC		12	4
	110 V DC		4	1.2
	220 V DC		0.4	0.2
	24 V DC	NC	11	5
	48 V DC		6	2
	60 V DC		4	1.5
	110 V DC		1.2	0.4
	220 V DC		0.2	0.1
ESB20-..N	24 V DC	NO	20	15
EN20-..N	48 V DC		15	7
	60 V DC		15	5
	110 V DC		5	1.5
	220 V DC		0.5	0.2
	24 V DC	NC	14	6
	48 V DC		7	3
	60 V DC		4.5	2
	110 V DC		1.5	0.6
	220 V DC		0.2	0.1

Type	Rated operational voltage	Contact	DC-1/A 3 poles in series	DC-3/A 3 poles in series
ESB25-..N	24 V DC	NO	24	24
EN25-..N	48 V DC		24	24
	60 V DC		24	24
	110 V DC		24	16
	220 V DC		13	4
	24 V DC	NC	24	19
	48 V DC		22	9.4
	60 V DC		17.5	7.5
	110 V DC		9.5	4.1
	220 V DC		3.8	1.6
ESB40-..N	24 V DC	NO	40	40
EN40-..N	48 V DC		40	40
	60 V DC		40	34
	110 V DC		30	18
	220 V DC		15	4.5
ESB63-..N	24 V DC	NO	63	63
	48 V DC		63	47
	60 V DC		60	38
	110 V DC		33	21
	220 V DC		17	5
ESB100-..N	24 V DC	NO	100	100
	48 V DC		100	70
	60 V DC		80	45
	110 V DC		50	25
	220 V DC		35	7

Installation contactors

Lamp load table

Please note that switching lamps is a capacitor load application where high inrush current peaks could occur. These are influenced by the length and cross section of the wire as well as the type of power supply unit and specifications of the lamp brand. For example, long cables can increase the possible number of lamps per pole. The table shows the allowed max. current for one pole and considers already the startup current peaks.
The following selection table shows the current values and the maximum switchable capacitor load for compensated lamps. These two limits have to be considered in the selection of contactors.

		ESB16..N	ESB20..N EN20..N	ESB25..N EN25..N	ESB40..N EN40..N	ESB63..N	ESB100..N
Permitted compensating capacity per phase Cmax [µF]		45	75	100	350	500	650
Lamp types		Maximum load of the current paths during switching of electric lamps I_e [A]					
Incandescent and halogen lamps (230 V)		4	6	7	20	30	45
Mixing lamps without ballast		4	6	7	20	30	45
Fluorescent lamps with conventional ballast	single lamp uncompensated	14	18	22	36	56	90
	single lamp parallel compensated	2	3	3.5	10	15	22
	series compensation, duo circuit	14	18	22	36	56	90
Fluorescent lamps with electronic ballast or CFL		4	6	7	20	30	45
LED lamps		4	6	7	20	30	45
High pressure mercury-vapor lamps	single lamp without compensation	7	9	11	18	28	45
	single lamp with parallel compensation	2	3	3.5	10	15	22
Halogen metal-vapor lamps	single lamp without compensation	7	9	11	18	28	45
	single lamp with parallel compensation	2	3	3.5	10	15	22
High pressure sodium-vapor lamps	single lamp without compensation	7	9	11	18	28	45
	single lamp with parallel compensation	2	3	3.5	10	15	22
Low pressure sodium-vapor lamps	single lamp without compensation	7	9	11	18	28	45
	single lamp with parallel compensation	2	3	3.5	10	15	22

Example for lamp load calculation
Due to many varieties of lamps and ballasts we advice to take the current load as base for reference. The lamp table considers already the inrush peaks and other lamp parameters. Please see the following examples for a reliable project lamp calculation.

Fluorescent lamp with conventional ballast, uncompensated
the lamp operating current I = 1.5 A, voltage U = 230 V
1 pole of ESB25..N can be loaded with max. 22 A,
see lamp table => 22 A/1.5 A = 14.66 => 14 lamps
1 pole of ESB20..N can be loaded with max. 18 A,
see lamp table => 18 A/1.5 A = 12 lamps

Please use the referring value in the table stated above and divide it with the current stated on the lamp.
This will lead to the number of lamps which can be switched.

Example with picture: ESB25..N used for LED lamps:
7 A (= 7000 mA) / 85 mA = 82.23 => 82 lamps

Installation contactors

Voltage code table

Contactor type

	ESB	EN
A	25	25
	40	40
	63	
	100	
B	16	20
	20	

Packaging

R	Single packaging
M	Multiple packaging

N.O. N.C.
Main contacts

ESB 20 - 20N - 06 **1SBE 1 2 1 111 M 06 20**

Rated operational current
I_e AC-1/AC-7A

Module width

1	Automatic oper.
2	Manually/ automatic oper.

1	16 A
2	20 A
3	25 A
4	40 A
5	63 A
6	100 A

Contactor type

ESB	Automatic operated
EN	Manually/automatic operated

Coil code	Rated control cicuit voltage AC/DC
14	12 V
01	24 V
02	42 V
03	48 V
04	110 V(1)
05	240 V
06	230 V(2)
07	400 V(3)
08	415 V(4)

(1) 110 V - 120 V for ESB25..N/EN25..N

(2) only coil 6 available with 230 V - 240 V for ESB25..N/EN25..N

(3) only coil 7 available with 400 V - 415 V for ESB25..N

(4) Coil 8 available for ESB40-40N and ESB63-40N only.

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