

EK550, EK1000 CONTACTOR

Doc.no. 5309660-30 (03/23)

	<p>it Attenzione: Tensione pericolosa! Fare riferimento alle istruzioni per l'uso. Prima di intervenire su questo dispositivo, scollegare e isolare tutte le fonti di alimentazione. Attenzione! L'installazione deve essere eseguita esclusivamente da un installatore qualificato.</p>
<p>ar تحذير: جهد كهربائي خطير! راجع تعليمات التشغيل. افصل الكهرباء وقم بتأمينها قبل العمل في هذا الجهاز. تنبيه! يجب عدم التركيب إلا من خلال شخص على دراية بمجال التقنية الكهربائية.</p>	<p>lt Įspėjimas: Pavojinga įtampa! Žr. naudojimo instrukcijas. Atjunkite ir laikinai užblokuokite maitinimą prieš dirbdami su šiuo įrenginiu. Dėmesio! Įrengti gali tik asmuo, turintis elektrotechniko patirties.</p>
<p>bg Предупреждение: Опасно напрежение! Вижте инструкциите за работа. Изключете и блокирайте захранването преди да работите с устройството. Внимание! Да се монтира само от експерт електротехник.</p>	<p>lv Brīdinājums: Bīstams spriegums! Skatiet darba norādījumus. Pirms sākat darbu ar šo ierīci, atvienojiet un bloķējiet strāvas padevi. Uzmanību! Uzstādīšanu drīkst veikt tikai persona ar zināšanām par elektrotehniku.</p>
<p>cs Varování: Nebezpečné napětí! Viz návod k obsluze. Před zahájením prací na tomto zařízení odpojte a uzamkněte napájení. Pozor! Toto zařízení smí instalovat pouze osoba s elektrotechnickou odborností.</p>	<p>nl Waarschuwing: Gevaarlijke spanning! Raadpleeg de installatie-instructies. Koppel dit apparaat los van de stroomvoorziening voordat u werkzaamheden uitvoert. Let op! Installatie mag alleen worden uitgevoerd door een monteur met elektrotechnische expertise.</p>
<p>da Advarsel: Farlig elektrisk spænding! Se installationsinstruktioner. Frakobl enheden, og afbryd strømforsyningen, før du arbejder med denne enhed. Giv agt! Installation må kun foretages af personer med elektroteknisk ekspertise.</p>	<p>no Advarsel: Farlig spenning! Se i bruksanvisningen. Koble fra og steng av strømmen før du arbeider på denne enheten. Forsiktig! Montering skal kun utføres av kvalifiserte personer med elektrokompetanse.</p>
<p>de Warnung: Gefährliche Spannung! Siehe Installationsanleitung. Vor dem Arbeiten Gerät ausschalten und von der Spannungsversorgung trennen. Achtung! Installation nur durch elektrotechnische Fachkraft.</p>	<p>pl Ostrzeżenie: Niebezpieczne napięcie! Patr: instrukcja instalacji. Przed rozpoczęciem wykonywania pracy z tym urządzeniem odłącz i zablokuj zasilanie. Uwaga! Montaż może wykonywać wyłącznie osoba posiadająca doświadczenie elektrotechniczne.</p>
<p>el Προειδοποίηση: Επικίνδυνη τάση! Ανατρέξτε στις οδηγίες λειτουργίας. Αποσυνδέστε και απομονώστε την παροχή ισχύος προτού ξεκινήσετε τις εργασίες σε αυτήν τη συσκευή. Προσοχή! Η εγκατάσταση πρέπει να γίνεται μόνο από αδειούχο ηλεκτρολόγο εγκαταστάτη.</p>	<p>pt Aviso: Tensão perigosa! Consulte as instruções de instalação. Desconecte e desligue a energia elétrica antes de trabalhar nesse dispositivo. Atenção! A instalação deve ser feita apenas por uma pessoa com especialidade eletrotécnica.</p>
<p>en Warning: Hazardous voltage! Refer to installation instructions. Disconnect and lock out power before working on this device. Attention! Installation by person with electrotechnical expertise only.</p>	<p>ro Avertisment: Tensiune electrică periculoasă! Consultați instrucțiunile de utilizare. Deconectați și închideți sursa de energie înainte de a lucra cu acest dispozitiv. Atenție! Instalarea trebuie realizată doar de către o persoană cu expertiză electrotehnică.</p>
<p>es Advertencia: ¡Tensión peligrosa! Consulte las instrucciones de instalación. Antes de trabajar con este dispositivo, desconecte y bloquee la corriente. ¡Atención! La instalación debe ser realizada únicamente por un técnico electricista.</p>	<p>ru Предупреждение: Опасное электрическое напряжение! Обратитесь к инструкциям по монтажу. Отключите электропитание и обеспечьте безопасность перед началом работ. Внимание! Монтаж должен выполняться только специалистом по электротехническим работам.</p>
<p>et Hoiatus: Elektrilöögi oht! Lisateavet vaadake kasutusjuhendist. Enne selle seadmega töötamist ühendage lahti ja lukustage toide. Tähelepanu! Seadet tohib paigaldada ainult elektrotehnilise kogemusega isik.</p>	<p>sk Výstraha: Nebezpečné napätie! Pozrite si návod na použitie. Pred začatím prác na tomto zariadení odpojte a zablokujte napájanie. Pozor! Inštaláciu smie vykonávať len osoba s odbornými znalosťami v oblasti elektrotechniky.</p>
<p>fi Varoitus: Vaarallinen jännite! Katso asennusohje. atkaise virta ja estä virran kytkeminen lukituksen alla ennen töiden aloittamista. Huomio! Asennuksen saa suorittaa vain henkilö, jolla on kokemusta sähkötekniikasta.</p>	<p>sl Opozorilo: Nevarna napetost! Glejte navodila za uporabo. Pred delom na tej napravi izklopite in zaklenite električno napajanje. Pozor! Namestitve sme izvesti samo elektrotehnični strokovnjak.</p>
<p>fr Avertissement: Tension dangereuse! Consultez les consignes d'installation. Débranchez et verrouillez l'alimentation électrique avant d'entreprendre des travaux sur cet appareil. Attention! L'installation doit être effectuée uniquement par une personne ayant une expertise en électrotechnique.</p>	<p>sv Varning: Livsfarlig spänning! Se i bruksanvisningen. Frånkoppla och blockera anläggning eller en anläggningsdel innan arbete utförs. Obs! Får endast installeras av behörig elektriker.</p>
<p>hr Upozorenje: Opasan napon! Pogledajte upute za ugradnju. Odspojite i isključite struju prije rada na ovom uređaju. Pažnja! Ugradnja je dopuštena samo osobama stručnim u području elektrotehnike.</p>	<p>tr Uyarı: Tehlikeli gerilim! Montaj talimatlarına bakın. Bu cihaz üzerinde çalışmadan önce elektriği kesin ve kilitleyin. Dikkat! Yalnızca elektroteknik uzmanlığa sahip kişiler tarafından kurulabilir.</p>
<p>hu Figyelmeztetés: Veszélyes feszültség! Lásd a használati utasítást. Válassza le és zárja ki az áramellátást, mielőtt a berendezésen dolgozni kezd. Figyelem! Az üzembe helyezés csak elektrotechnikai szakértelemmel rendelkező személy végezheti el.</p>	<p>zh 警告: 高压危险! 请参见操作手册。 操作本设备前请断开并锁定电源。注意! 安装仅限专业电工人员。</p>

EK550, EK1000 CONTACTOR

Installation

Warning: Ensure that no liquids, dust or other objects enter the contactor during installation.

Installation in enclosure (box, cubicle) or locked, dry and clean room. Auxiliary contact terminals are finger proof (degree of protection IP 20). Main terminals are not protected. Except for the terminals, no live parts are accessible.

EK550 17.2 kg
EK1000 17.5 kg

Minimum Enclosure size, acc. to UL 60947-4-1

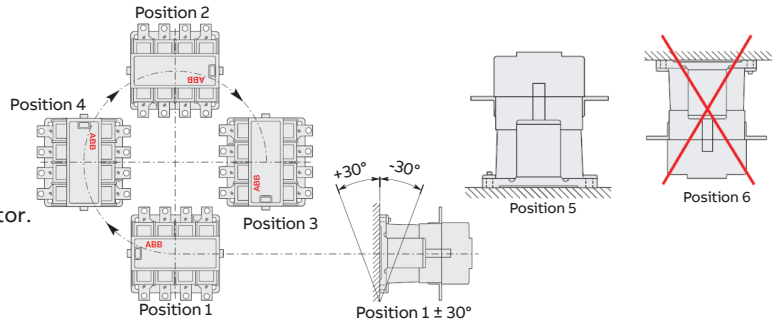
EK550 1067x762x330 mm

Mounting positions:

EK550...1000 position 6 not acceptable

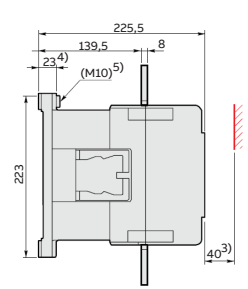
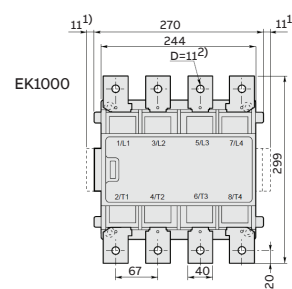
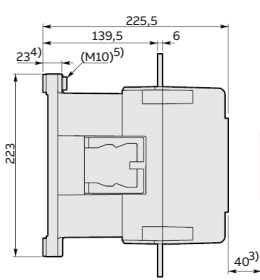
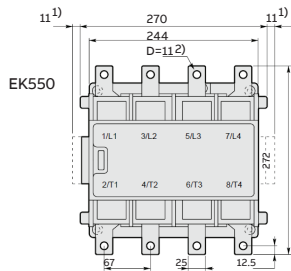
EK550...EK1000 are installed with four M6 screws.

Mounting hardware kit with damping devices comes with contactor.



Dimensions in mm

- 1) Dimension for extra auxiliary contact block
- 2) Screw, nut and washer by-packed
- 3) Min. distance to uninsulated wall
- 4) Damping elements are included
- 5) Earthing screw

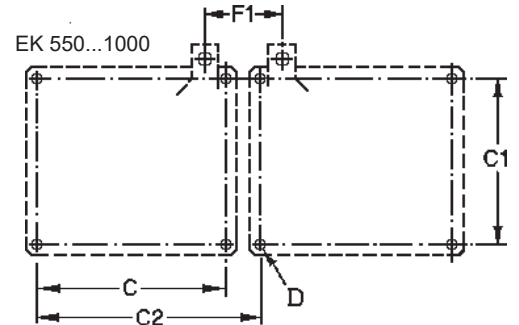


Drilling plan

- 1) Smallest distance.
- 2) Gives min. distance F1 = distance between the poles, on one contactor.
- 3) Allows space for three auxiliary contact blocks between the contactors.
- 4) Allows space for four auxiliary contact blocks between the contactors.
- 5) Screws and damping elements are included

Dimensions in mm

	C	C1	C2				D
			1)	2)	3)	4)	For
EK 550...1000	220	200	268	268	280	292	M6 ⁵⁾



The minimum distance between arc-chute and uninsulated wall has to be:

For Min.
EK550...1000 40 mm

The voltage of the contactor coil is stated next to the coil terminals (marked A1 and A2) and should correspond with the control voltage. The contactor will work within the voltage range 85 to 110%.

Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal	Terminal
M 3,5 1 Nm -9lb.in	ø 5,5	Pz 2	1 x 1 ... 4mm ² 2 x 1 ... 4mm ² 1 x AWG 18 ... 14 2 x AWG 18 ... 14	1 x 0,75 ... 2,5mm ² 2 x 0,75 ... 2,5mm ² 1 x AWG 18 ... 14 2 x AWG 18 ... 14	1 x 0,75 ... 2,5mm ² 2 x 0,75 ... 2,5mm ²	1 x 0,75 ... 2,5mm ² 2 x 0,75 ... 2,5mm ²	1 > 3,5 mm L < 8 mm	9 mm

Connection diagram

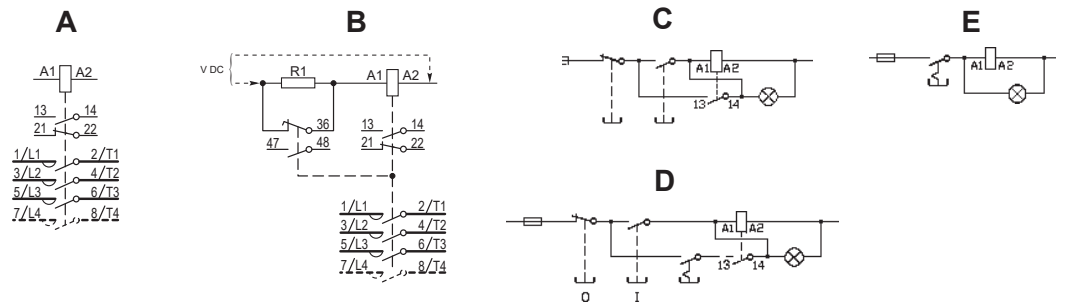
A Main diagram EK550...1000/AC

B Main diagram EK550...1000/DC

C Connection of ON and OFF pushbutton and pilot lamp

D Connection of control switch for selection between inching and normal operation.

E Connection of control switch, which is closed during running.



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Additional auxiliary contact blocks

AC-version

A maximum of 3 blocks can be mounted on the contactor beyond the one mounted as standard. Technially, all blocks are identical, which means that the same block can be used in all three positions. If the demand for correct position marking has to be met, order block B, C etc. mounted as shown in the figure 1.

DC-version

A maximum of 1 contact block can be mounted on the contactor's left side. The right side is blocked by the operating unit for DC.

- 1) **SK 829 002-E** is a special auxiliary contact block with overlapping. Can be mounted on the contactor's right side only. No other block can be mounted outside (figure 2). Contact 35-36 has late opening. 47-48 has late closing.
- 2) **Block A**, spare for the contactor's auxiliary contact block.

Diagram	Cat.No.
	SK829002-B
	SK829002-C
	SK829002-D
	SK829002-E ¹⁾
	SK829002-A ²⁾

Mounting positions of the auxiliary contacts

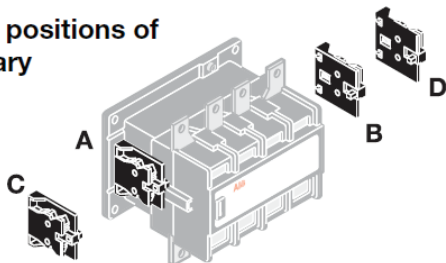


Fig. 1

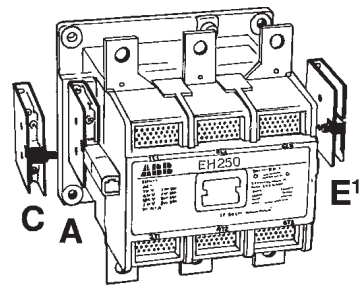


Fig. 2

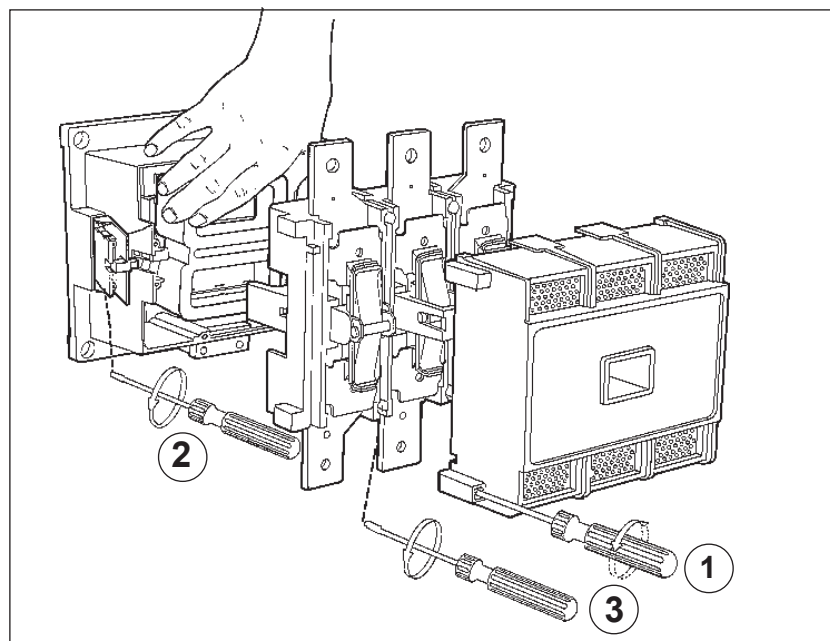
Before any dismantling of the contactor

- shut off power by turning off the contactor.
- opening the main circuit by turning off the main switch, if any, or by removing the main fuses in all three phases.
- To protect against making attempt, open also the control circuit.

Change of coil

On installed contactor, main cables and coil cables must be loosened.

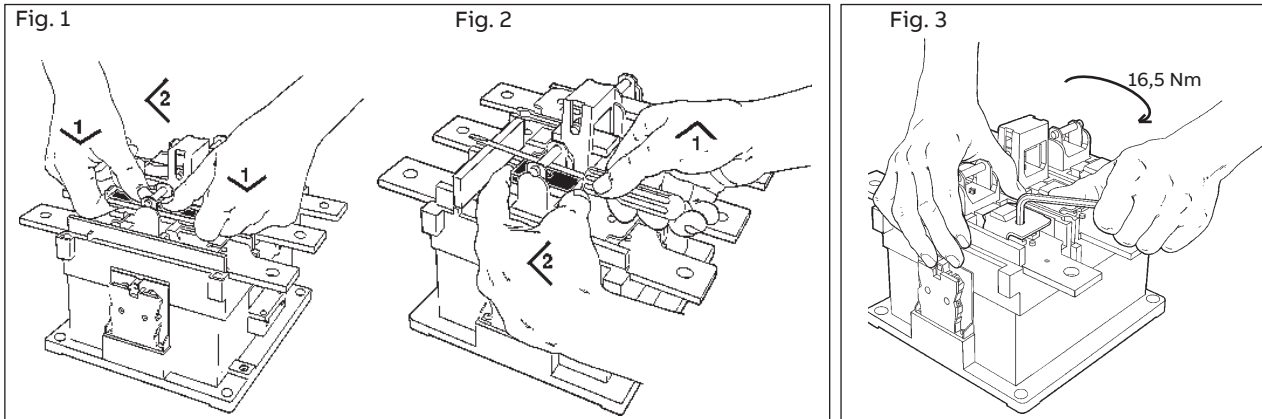
- Change coil according to Fig. Make sure that the return springs will fit into the guide holes in the coil when the contactor is replaced on the plate



EK550, EK1000 CONTACTOR

Change of contacts

- Remove the arc-shute
- Press out the moving contacts, see Fig. 1.
- Moving main contacts: Lift the respective clamp and press the contact into neutral position. See Fig. 2. Remove the contacts.
- Exchange the fixed contacts. See Fig. 3.
- Put in the new movable contacts.



Cable clamps

Quantity 1. For	mm ²	Cat.No.
For Cu-cable EK550...1000	70-300	SK1750009
For Al-cable (and Cu-cable) EK550...1000	70-300	SK173001-AD
Double clamps EK550...1000 2x	35-185	SK173001-BD

Note: For UL-approval, to be valid, special clamps must be used.
EK550 = Use terminal kit Cat. No. EHTK550N

Therminal shrouds

For	Cat.No.	Qty
For contactor connected by cable lugs EK550...1000	SK178001-LB	1
For contactor connected by cable clamps EK550...1000	SK178003-LB	1

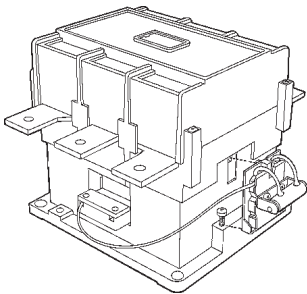
Coils

AC and DC For	Cat.No.
	□□ replace with code letters acc. to the table below
EK550...1000	SK828100-□□

Operating units for DC

See the figure below
Coil and contact block with
economising resistor

For	Cat.No.
	□□ replace with code letters acc. to the table below
EK550...1000	SK828150-□□



EK 550...1000							
Code letters				Code letters			
Alternating current				Direct current			
50 Hz V	60 Hz V	□□	50 Hz V	60 Hz V	□□	DC V	□□
110	120	AF	220-230	240	AL	48	DD
220	220-240	EL	230-240		AM	110	DE
220-230	230-255	EM	380-400	440	AP	125	DU
			400-415		AR	220	DF

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