

## SAFETY INSTRUCTIONS

# ESB16-xxN, ESB/EN20-xxN, ESB/EN25-xxN, ESB/EN40-xxN, ESB63/100-xxN, EH04-xxN, DIS, PLK24/40/63

## Installation contactors and accessories

Doc.no. 2CDC103043M6801 J (08/26)

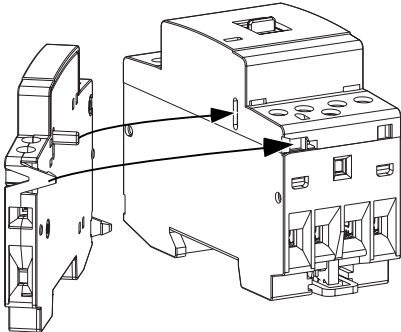
|    |                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                 |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                                                                                                                                                                                                                                                             | <p>it</p> <p>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> |
| ar | <p>تحذير: جهد كهربائي خطراً! راجع تعليمات التشغيل. أفضل الكهرباء وقم بتأمينها قبل العمل في هذا الجهاز. تنبيه! يجب عدم التركيب إلا من خلال شخص على دراية بمجال التقنية الكهربائية.</p>                                                                                                                       | <p>lt</p> <p>Įspėjimas: Pavojinga įtampa! Žr. naudojimo instrukcijas. Atjunkite ir laikinai užblokuokite maitinimą prieš dirbdami su šiuo įrenginiu. Dėmesio! Įrengti gali tik asmuo, turintis elektrotechnikos patirties.</p>                                                                  |
| bg | <p>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</p> <p>Bīdīnājums: 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>                                                           |
| cs | <p>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</p> <p>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>                |
| da | <p>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</p> <p>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>                                                                       |
| de | <p>Warnung: Gefährliche Spannung! Siehe Installationsanleitung. Vor dem Arbeiten Gerät ausschalten und von der Spannungsversorgung trennen. Achtung! Installation nur durch elektrotechnische Fachkraft.</p>                                                                                                | <p>pl</p> <p>Ostrzeżenie: Niebezpieczne napięcie! Patrz: instrukcja instalacji. Przed rozpoczęciem wykonywania pracy z tym urządzeniem odłącz i zablokuj zasilanie. Uwaga! Montaż może wykonywać wyłącznie osoba posiadająca doświadczenie elektrotechniczne.</p>                               |
| el | <p>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</p> <p>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>                                       |
| en | <p>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</p> <p>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>             |
| es | <p>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</p> <p>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>                          |
| et | <p>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</p> <p>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>                                                  |
| fi | <p>Varoitus: Vaarallinen jännite! Katso asennusohje, atkaise virta ja estä virran kytkeminen lukituksella ennen töiden aloittamista. Huomio! Asennuksen saa suorittaa vain henkilö, jolla on kokemusta sähkötekniikasta.</p>                                                                                | <p>sl</p> <p>Opozorilo: Nevarna napetost! Glejte navodila za uporabo. Pred delom na tej napravi izklopote in zaklenite električno napajanje. Pozor! Namestitve sme izvesti samo elektrotehnični strokovnjak.</p>                                                                                |
| fr | <p>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</p> <p>Varning: Livsfarlig spänning! Se i bruksanvisningen. Frånkoppla och blockera anläggning eller en anläggningsdel innan arbete utförs. Obs! Får endast installeras av behörig elektriker.</p>                                                                                        |
| hr | <p>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</p> <p>Uyarı: Tehlikeli gerilim! Montaj talimatlarını bakın. Bu cihaz üzerinde çalışmadan önce elektriği kesin ve kilitleyin. Dikkat! Yalnızca elektroteknik uzmanlığa sahip kişiler tarafından kurulabilir.</p>                                                                          |
| hu | <p>Figyelmeztetés: Veszélyes feszültség! Lásd a használati utasítást. Válassza le és zárja ki az áramellátást, mielőtt a berendezésen dolgozni kezd. Figyelem! Az üzembe helyezést csak elektrotechnikai szakértelemmel rendelkező személy végezheti el.</p>                                                | <p>zh</p> <p>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>                                                                                                                                                                                                                                  |

INSTALLATION INSTRUCTIONS

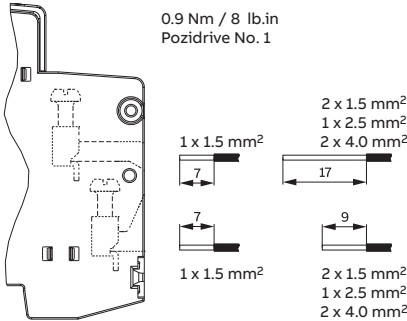
ESB16-xxN, ESB/EN20-xxN, ESB/EN25-xxN, ESB/EN40-xxN,  
ESB63/100-xxN, EH04-xxN, DIS, PLK24/40/63  
Installation contactors and accessories

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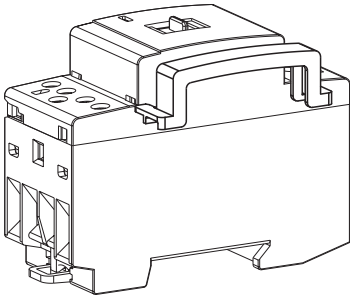
EH04-xxN > ESB-xxN / EN-xxN



EH04-xxN > ESB-xxN / EN-xxN

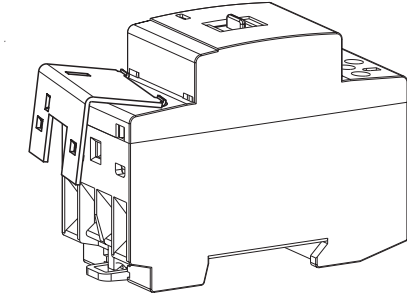


ESB-DIS > ESB/EN25-xxN, ESB/EN40-xxN, ESB63-xxN, ESB100-xxN

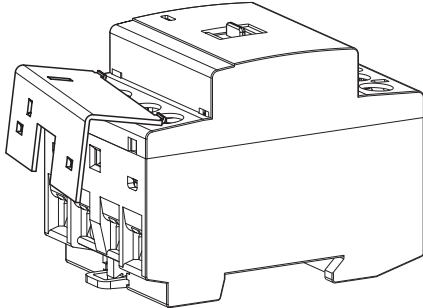


|                                                                                        |                                       |
|----------------------------------------------------------------------------------------|---------------------------------------|
| Ambient temperature: $\geq 40\text{ }^{\circ}\text{C}$ ; Duty time $\geq 1\text{ hrs}$ |                                       |
|                                                                                        | ESB-DIS                               |
| ESB16-xxN / ESB20-xxN, EN20-xxN                                                        | not necessary                         |
| ESB25-xxN / EN25-xxN, ESB40-xxN / EN40-xxN, ESB63-xxN, ESB100-xxN                      | must be used after each 2nd contactor |

ESB-PLK24 > ESB25-xxN / EN25-xxN

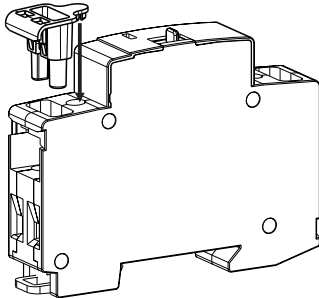


ESB-PLK40/63 > ESB40-xxN / EN40-xxN, ESB63-xxN

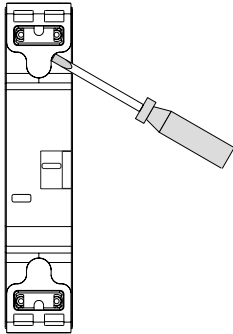


ESB-PLK20N > ESB16-xxN / ESB20-xxN / EN20-xxN

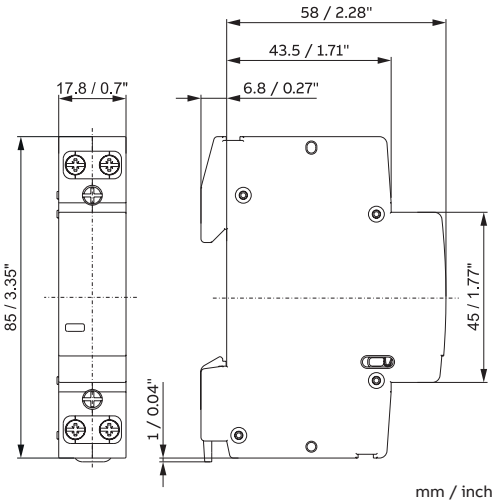
Mounting



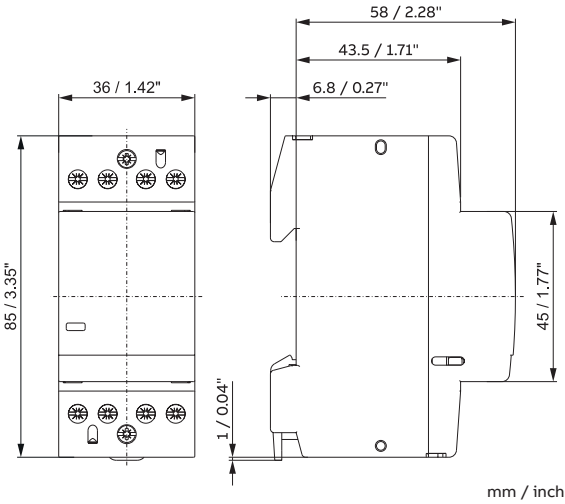
Demounting



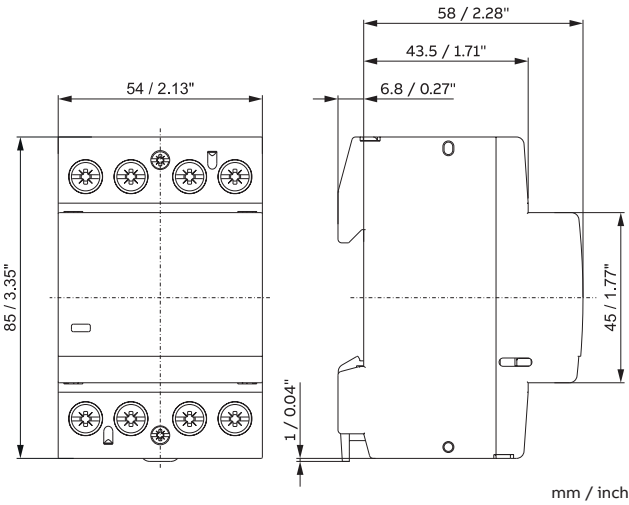
ESB16-xxN / ESB20-xxN



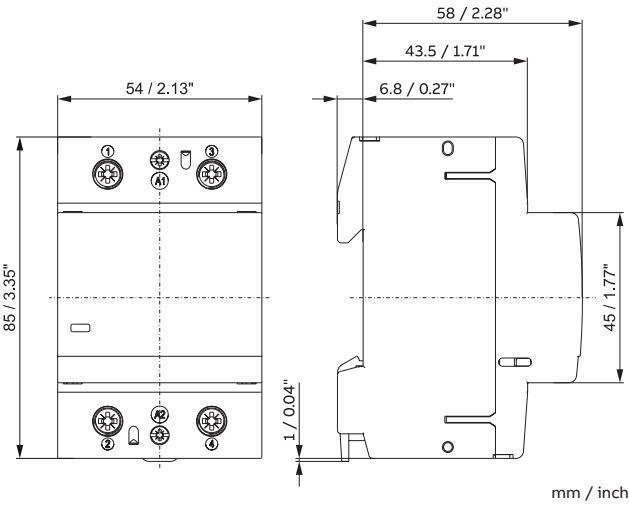
ESB25-xxN



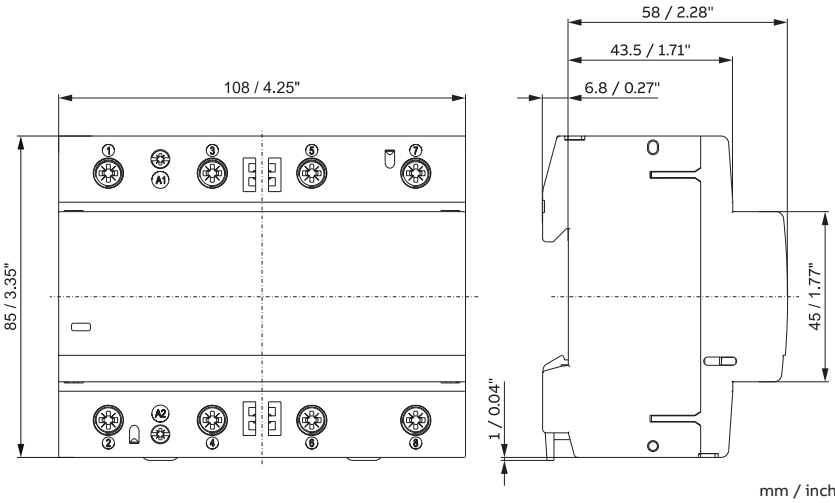
ESB40-xxN / ESB63-xxN



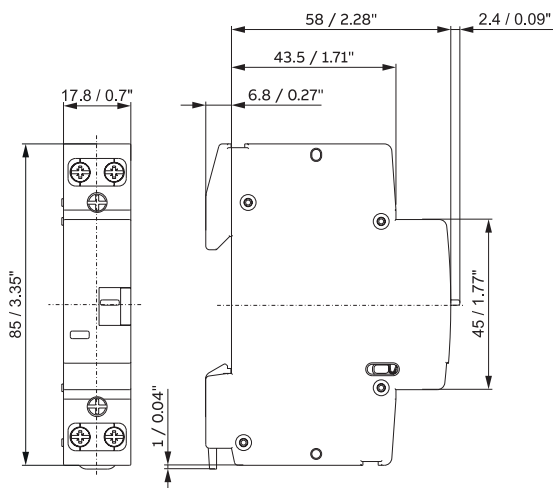
ESB100-20N



ESB100-40N

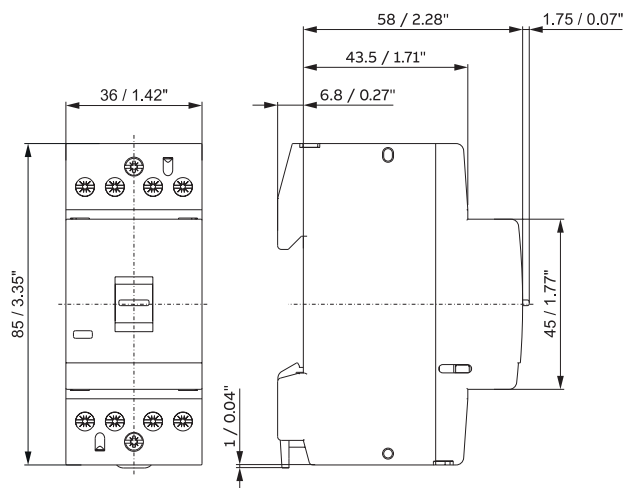


## EN20-xxN



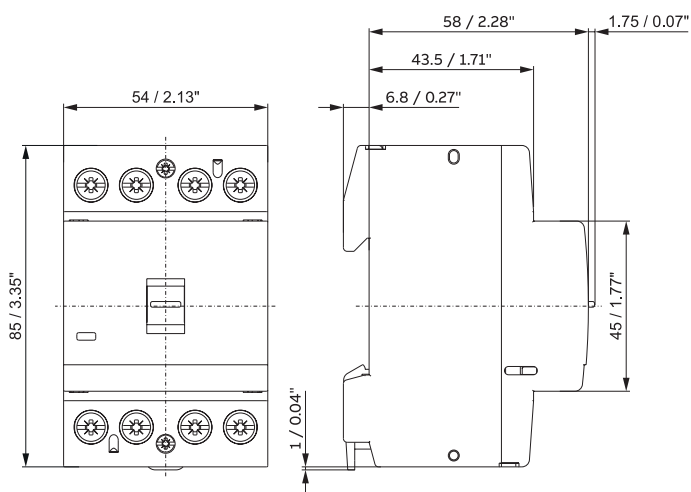
mm / inch

## EN25-xxN



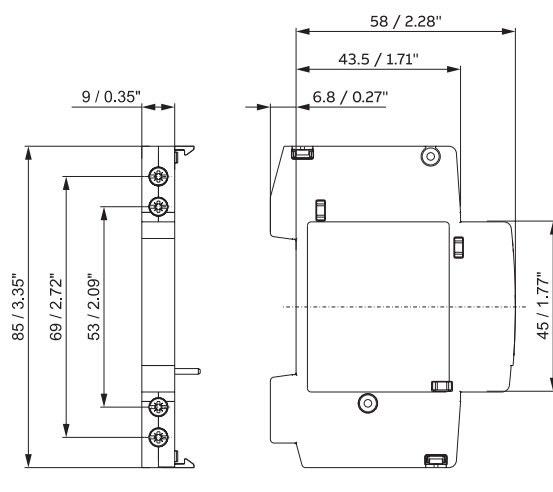
mm / inch

## EN40-xxN



mm / inch

## EH04-xxN



mm / inch

| ESB16-xxN<br>ESB20-xxN<br>EN20-xxN |  | M4<br>1.2 Nm   | Ø<br>5.0 mm | PZ1 | 1 x 1 ... 10 mm <sup>2</sup><br>2 x 1 ... 4 mm <sup>2</sup>      | 1 x 1 ... 6 mm <sup>2</sup><br>2 x 1 ... 4 mm <sup>2</sup>      | 1 x 1 ... 6 mm <sup>2</sup><br>2 x 1 ... 1.5 mm <sup>2</sup>       | 10 mm                                                                                  |
|------------------------------------|--|----------------|-------------|-----|------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| ESB25-xxN<br>EN25-xxN              |  | M3.5<br>1.0 Nm | Ø<br>5.0 mm | PZ1 | 1 x 1.5 ... 10 mm <sup>2</sup><br>2 x 1.5 ... 4 mm <sup>2</sup>  | 1 x 1.5 ... 10 mm <sup>2</sup><br>2 x 1.5 ... 4 mm <sup>2</sup> | 1 x 1.5 ... 10 mm <sup>2</sup><br>2 x 1.5 mm <sup>2</sup>          | 10 mm                                                                                  |
| ESB40-xxN<br>EN40-xxN<br>ESB63-xxN |  | M5<br>2.5 Nm   | Ø<br>7.5 mm | PZ2 | 1 x 1.5 ... 25 mm <sup>2</sup><br>2 x 1.5 ... 10 mm <sup>2</sup> | 1 x 1.5 ... 16 mm <sup>2</sup>                                  | 1 x 1.5 ... 16 mm <sup>2</sup>                                     | 13 mm                                                                                  |
| ESB100-xxN                         |  | M7<br>3.0 Nm   | Ø<br>7.5 mm | PZ2 | 1 x 10 ... 50 mm <sup>2</sup>                                    | 1 x 10 ... 35 mm <sup>2</sup>                                   | 1 x 10 ... 35 mm <sup>2</sup>                                      | 15 mm                                                                                  |
| EH04-xxN                           |  | M3<br>0.9 Nm   | Ø<br>5.0 mm | PZ1 | 1 x 1 ... 4 mm <sup>2</sup><br>2 x 1 ... 1.5 mm <sup>2</sup>     | 1 x 1 ... 2.5 mm <sup>2</sup>                                   | ---                                                                | ≤ 1.5 mm <sup>2</sup> → 7 mm<br>> 1.5 mm <sup>2</sup> →<br>Upper: 17 mm<br>Lower: 9 mm |
|                                    |  | M3<br>0.9 Nm   | Ø<br>5.0 mm | PZ1 | 1 x 1 ... 4 mm <sup>2</sup><br>2 x 1 ... 2.5 mm <sup>2</sup>     | 1 x 1 ... 4 mm <sup>2</sup><br>2 x 1 ... 2.5 mm <sup>2</sup>    | 1 x 0.75 ... 2.5 mm <sup>2</sup><br>2 x 0.75 ... 1 mm <sup>2</sup> | 7 mm                                                                                   |



Use 75°C Cu wire only: ESB16/20 Main: 14 - 8 AWG / Torque 11 lb.in  
ESB40/63 Main: 16 - 4 AWG / Torque 20 lb.in  
Coil: 16 - 10 AWG / Torque 8 lb.in

ESB25 Main: 16 - 8 AWG / Torque 9 lb.in  
ESB100 Main: 8 - 0 AWG / Torque 27 lb.in

Suitable for use on a circuit capable of delivering not more than 5000 RMS

sym. amps. 240 V AC max. when protected: ESB16/20 by 20 A, K5 fuse

sym. amps. 480 V AC max. when protected: ESB25 by 25 A, K5 fuse / ESB40 by 40 A, K5 fuse / ESB63 by 75 A, K5 fuse / ESB100 by 125 A, K5 fuse

ABB AG – STOTZ-KONTAKT  
Eppelheimer Str. 82  
DE-69123 Heidelberg  
go.abb/contact

Further information:



Revision  
J

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