



**Bulletin 193 E1 PLUS Overload Relay Application and Installation**  
**Application et installation du relais de surcharge Famille 193 E1 PLUS**  
**Überlastrelais Bulletin 193 E1 PLUS, Anwendung und Installation**  
**Aplicación e instalación del relé de sobrecarga, Boletín 193 E1 PLUS**  
**Boletim 193 E1 PLUS Aplicação e Instalação do Relé de Sobrecarga**  
**Applicazione ed installazione dei relè termici Bollettino 193 E1 PLUS**  
**ブレイテン193 E1 PLUS 過負荷継電器の応用と取付け**  
**Bulletin 193 E1 PLUS 过载继电器的使用与安装**  
 (Cat 193-ED1\_ \_ , 193\*-EE\_ \_)

**Installation**  
**Instalación**  
**Instalação**  
**Installazione**  
 取付け方法  
 安装



**ATTENTION:** To prevent electrical shock, disconnect from power source before installing or servicing. Install in suitable enclosure. Keep free from contaminants.

**ATTENTION:** Avant le montage et la mise en service, couper l'alimentation secteur pour éviter toute décharge. Prévoir une mise en coffret ou armoire appropriée. Protéger le produit contre les environnements agressifs.

**ACHTUNG:** Vor Installations- oder Servicearbeiten Stromversorgung zur Vermeidung von elektrischen Unfällen trennen. Die Geräte müssen in einem passenden Gehäuse eingebaut und gegen Verschmutzung geschützt werden.

**ATENCION:** Desconéctese de la corriente eléctrica, antes de la instalación o del servicio, a fin de impedir sacudidas eléctricas. Instálelo en una caja apropiada. Manténgalo libre de contaminantes.

**ATENÇÃO:** Para evitar choques, desconectar da corrente elétrica antes de fazer a instalação ou a manutenção. Instalar em caixa apropriada. Manter livre de contaminantes.

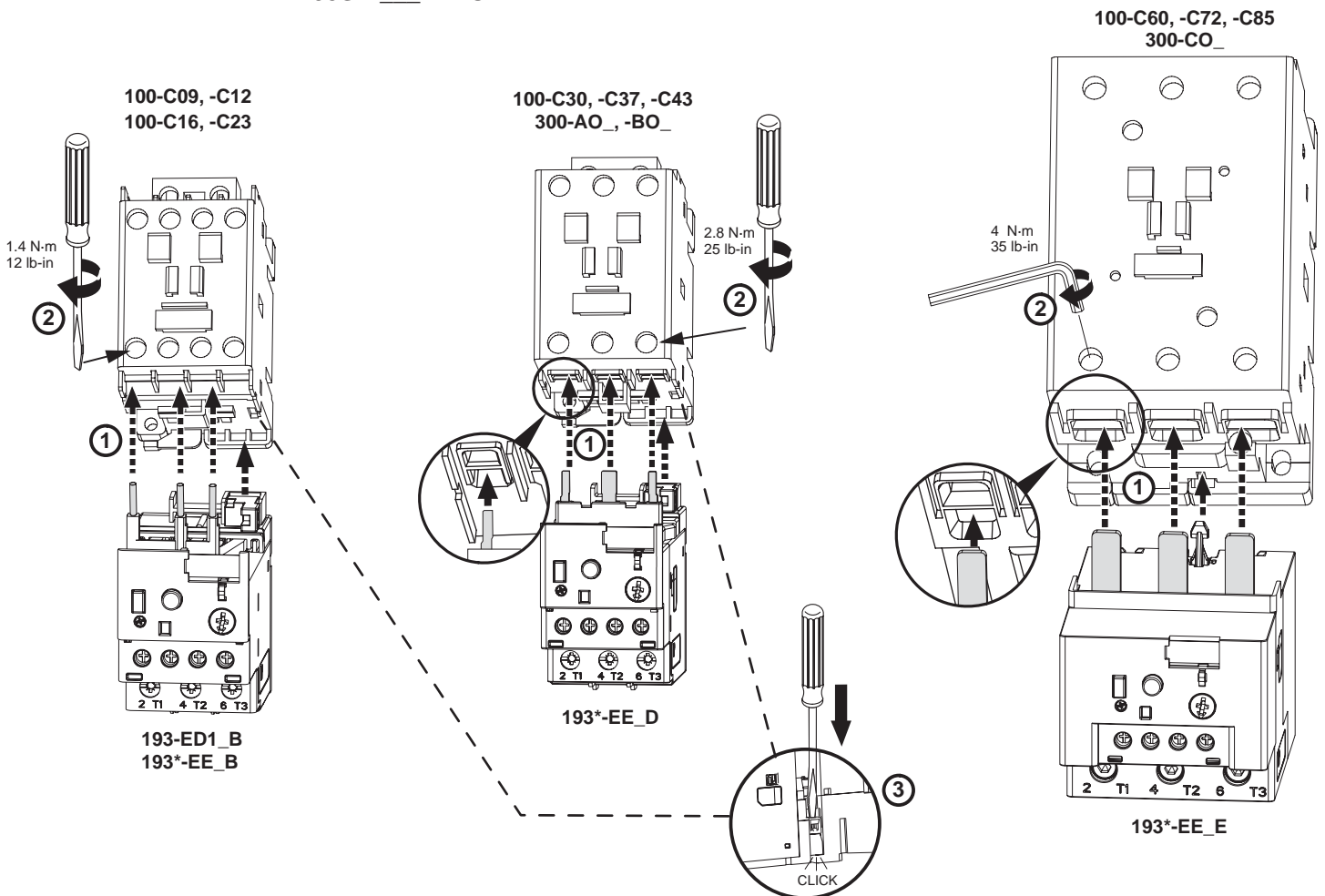
**ATTENZIONE:** Per prevenire infortuni, togliere tensione prima dell'installazione o manutenzione. Installare in custodia idonea. Tenere lontano da contaminanti.

**注意:** 感電事故防止のため、取付けまたは修理の際は電源から取り外してください。適切なケース内に取り付けてください。また、汚染物質がないことを確認してください。

**注意:** 为了防止触电，在安装或维修之前必须先切断电源。安装在合适的设备箱内。防止接触污染物。

193-E\_ \_ = 3 Ø

193S-E\_ \_ = 1 Ø



# E1 PLUS Features

## Caractéristiques du E1 PLUS

## Leistungsmerkmale des E1 PLUS

## Características del E1 PLUS

# Características E1 PLUS

## Funzioni dell'E1 PLUS

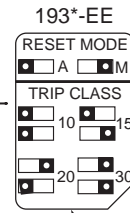
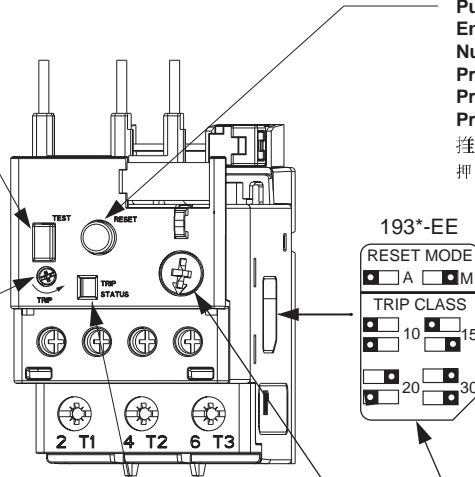
## E1 PLUS の特長

## E1 PLUS 继电器的特性

Push To Test  
 Enfoncez pour tester  
 Testschalter  
 Presione para probar  
 Pressione para testar  
 Spingere per provare  
 押してテストします。  
 按下按钮进行测试

Push to Reset  
 Enfoncez pour réinitialiser  
 Nullstellschalter  
 Presione para reiniciar  
 Pressione para religar  
 Premere per reimpostare  
 推進并重新設置  
 押してリセットします。

Rotate to Manually Trip  
 Faire pivoter pour déclencher manuellement  
 Für manuelle Auslösung drehen  
 Rotar para disparar manualmente  
 Gire para disparar manualmente  
 Ruotare per intervenire manualmente  
 旋轉进行手动設置  
 回転すると手動トリップします。



193\*EE  
 RESET MODE  
 A  M  
 TRIP CLASS  
 10  15  
 20  30

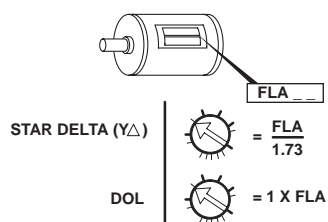
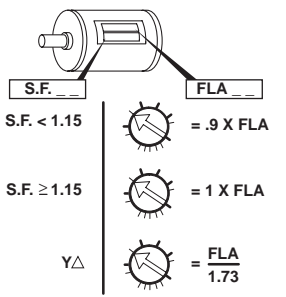
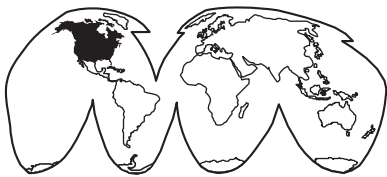
A = Automatic/Manual Reset Mode  
 A = Mode de réinitialisation automatique/manuel  
 A = Automatische/Manuelle Nullstellung  
 A = Modo de reinicio automático/manual  
 A = Modo de religação automático/manual  
 A = Modalità reimpostazione automatica/Manuale  
 自动和手动模式  
 A = 自動/手動リセットモード

M = Manual Reset Mode  
 M = Mode de réinitialisation manuel  
 M = Manuelle Nullstellung  
 M = Modo de reinicio manual  
 M = Modo de religação manual  
 M = Modalità reimpostazione manuale  
 手动模式  
 M = 手動リセットモード

Selectable Trip Class  
 Classe de déclenchement sélectionnable  
 Wählbare Auslösestufen  
 Clase de disparo seleccionable  
 Seleção da classe de disparo  
 Classe di intervento selezionabile  
 選択可能なトリップ種類  
 可选用的跳闸等级

- Trip Indicator Window  
 Yellow indicator not visible: Not Tripped.  
 Yellow indicator visible: Tripped.
- Fenêtre d'indicateur de déclenchement  
 Indicateur jaune non visible : pas de déclenchement  
 Indicateur jaune visible : déclenchement
- Auslösungsanzeigefenster  
 Gelbe Anzeige nicht sichtbar: keine Auslösung  
 Gelbe Anzeige sichtbar: Auslösung
- Ventana indicadora de disparo  
 Indicador amarillo no visible: No disparado  
 Indicador amarillo visible: Disparado

- Visor de disparo  
 Se o indicador amarelo não estiver visível: não disparado  
 Se o indicador amarelo estiver visível: disparado
- Finestra indicatrice di intervento.  
 Indicatore giallo non visibile: non scattato.  
 Indicatore giallo visibile: scattato.
- トリップ表示ウィンドウ  
 黄色インジケータが表示されていない場合:トリップなし  
 黄色インジケータが表示されている場合:トリップ済み
- 跳闸指示窗  
 黄色标记未显示: 没有跳闸  
 黄色标记显示: 已跳闸



- To adjust trip current, turn dial until the desired current is aligned with the ▲ pointer. Trip rating is 120% of dial setting.
- Pour régler l'intensité de déclenchement, tournez le cadran jusqu'à ce que le pointeur ▲ soit sur l'intensité voulue. La valeur nominale de déclenchement est de 120% du réglage cadran.
- Zur Einstellung des Auslösestroms drehen Sie den Schalter, bis der Zeiger ▲ auf die gewünschte Stromstärke zeigt. Der zur Auslösung erforderliche Nennstrom beträgt 120% des eingestellten Wertes.
- Para ajustar la corriente del disparo, gire el dial hasta que la corriente deseada esté alineada con la marca ▲. La capacidad nominal del disparo es el 120% del posicionamiento del dial.
- Para regular a corrente de disparo, gire o disco mostrador até que a corrente desejada esteja alinhada com o indicador ▲. A classe de disparo corresponde a 120% da marcação no mostrador.
- Per regolare la corrente di intervento, ruotare il regolatore fin quando la corrente desiderata non è allineata con il puntatore ▲. Il valore nominale di intervento corrisponde al 120% dell'impostazione del regolatore.
- トリップ電流を調整するには、所定の電流の目盛りが▲印に来るまでダイヤルを回してください。トリップ定格は、ダイヤル設定値の120%です。
- 若欲调节跳闸电流设定，可转动刻度盘，使所需的设定值对准▲箭头。跳闸电流额定值是刻度盘显示值的120%。



**ATTENTION:** Do not use automatic reset mode in applications where unexpected automatic restart of the motor can cause injury to persons or damage to equipment.

**ATTENTION :** N'utilisez pas le mode Remise à zéro automatique dans les applications où un redémarrage automatique inattendu du moteur pourrait provoquer des blessures personnelles ou des dégâts matériels.

**ACHTUNG:** Der automatische Rücksetzmodus darf nicht in Anwendungen verwendet werden, in denen der unerwartete Neustart des Motors zu Personen- oder Sachschäden führen kann.

**ATENCIÓN:** No use el modo de reseteo automático en aplicaciones donde el re arranque repentino del motor pueda causar lesiones personales o daño al equipo.

**ATENÇÃO:** não utilize o modo de reajuste automático em aplicações nas quais o reinício automático e inesperado do motor possa causar ferimentos às pessoas ou danos ao equipamento.

**ATTENZIONE:** non usare la modalità di ripristino automatico in applicazioni dove il riavviamento automatico improvviso del motore può provocare infortuni o danni all'apparecchiatura.

**注意：**モーターの予期しない自動再スタートによって負傷や機器の破損をまねく恐れのあるような応用では、自動リセット・モードを使用しないでください。

**注意:** 在马达突然自动再起动可能导致人员伤害或设备损坏的地方，切勿采用自动复原模式。

**Contact Status**  
**Etat des contacts**  
**Kontaktstatus**  
**Estado del contacto**

**Situação de contato**  
**Stato dei contatti**  
接触狀態  
接触状态

| Normal |    | Test | Tripped |
|--------|----|------|---------|
| 95     | 96 | Open | Open    |
| 97     | 98 | Open | Closed  |

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 97 | 95 | 97 | 95 | 97 | 95 |
| 98 | 96 | 98 | 96 | 98 | 96 |

**Wiring Diagram - 3 Phase Full Voltage DOL Starter**

Schéma de câblage - Pleine tension triphasée Démarreur DOL (direct en ligne)

Verkabelungsschema - 3-phasiger Vollspannungs-DOL-Motoranlasser

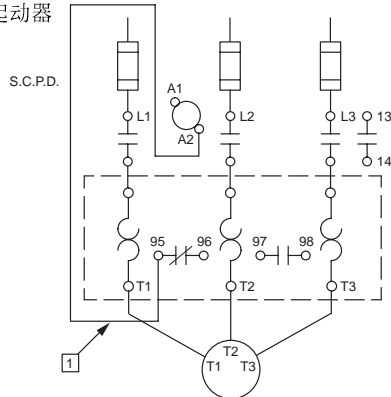
Diagrama de cableado - Arrancador DOL (directo en línea) trifásico de voltaje pleno

Diagrama de circuito - Dispositivo de partida DOL, trifásico, de máxima tensão

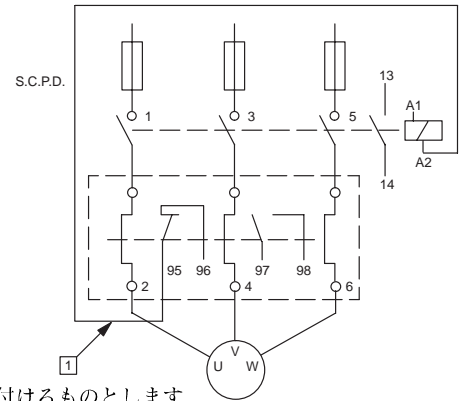
Schema elettrico - Avviatore diretto trifase a tensione piena

配線図 - 3相全电压 DOL 始動器

配线图 - 三相全电压DOL起动机



- 1 Connection must be fitted by user
- 1 Connexion à régler par l'utilisateur
- 1 Verbindung muß vom Benutzer hergestellt werden
- 1 La conexión debe ser realizada por el usuario
- 1 Conexão deve ser colocada pelo usuário
- 1 Il collegamento deve essere adattato dall'utente
- 1 接続部はユーザー側で取付けるものとします。
- 1 线路连接必须由用户完成



**Wiring Diagram - 1 Phase Full Voltage DOL Starter (193S-\_\_\_)**

Schéma de câblage - Pleine tension monophasée Démarreur DOL (direct en ligne)

Verkabelungsschema - 1-phasiger Vollspannungs-DOL-Motoranlasser

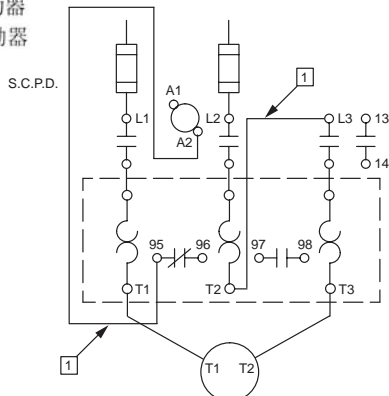
Diagrama de cableado - Arrancador DOL (directo en línea) monofásico de voltaje pleno

Diagrama de circuito - Dispositivo de partida DOL, monofásico, de máxima tensão

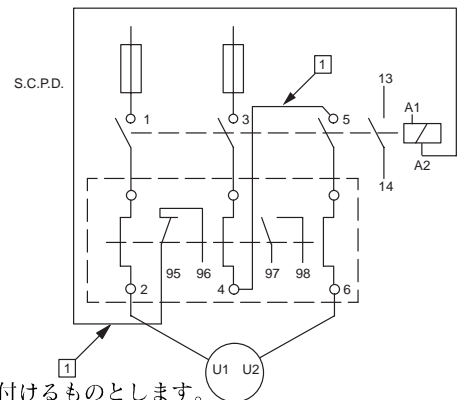
Schema elettrico - Avviatore diretto monofase a tensione piena

配線図 - 1相全电压 DOL 始動器

配线图 - 单相全电压DOL起动机



- 1 Connection must be fitted by user
- 1 Connexion à régler par l'utilisateur
- 1 Verbindung muß vom Benutzer hergestellt werden
- 1 La conexión debe ser realizada por el usuario
- 1 Conexão deve ser colocada pelo usuário
- 1 Il collegamento deve essere adattato dall'utente
- 1 接続部はユーザー側で取付けるものとします。
- 1 线路连接必须由用户完成



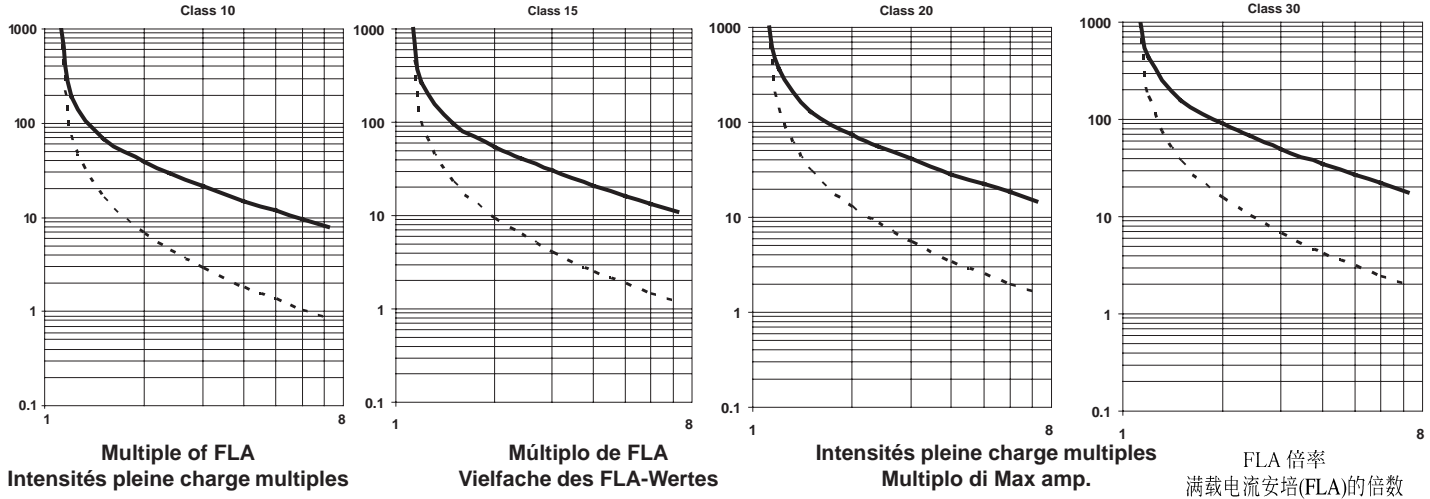


**Trip Curve**  
**Courbe de déclenchement**  
**Auslösekurve**  
**Curva del disparo**  
**Curva de disparo**  
**Curva di intervento**

トリップ曲線  
 跳閘曲線

COLD START  
 DEMARRAGE A FROID  
 KALTSTART  
 ARRANQUE EN FRIO  
 PARTIDA À FRIO  
 AVVIAMENTO A FREDDO  
 冷始動  
 冷态启动

HOT START  
 DEMARRAGE A CHAUD  
 WARMSTART  
 ARRANQUE EN CALIENTE  
 PARTIDA À QUENTE  
 AVVIAMENTO A CALDO  
 熱始動  
 热态启动



Multiple of FLA  
 Intensités pleine charge multiples

Múltiplo de FLA  
 Vielfache des FLA-Wertes

Intensités pleine charge multiples  
 Multiplo di Max amp.

FLA 倍率  
 满载电流安培(FLA)的倍数

**Short Circuit Ratings**

Table 1 Standard Fault Short Circuit Ratings per UL508 and CSA 22.2 No. 14

| E1 Plus Cat. No. |   | Max. available fault current, I <sub>r</sub> (kA) | Max. voltage (V) | S.C.P.D.                         |
|------------------|---|---|------------------|----------------------------------|
| 193, 193R, 193S  | ED1AB, ED1BB, EEAB, EEBC  | 1   | 600              | Suitable for use with fuses only |
|                  | ED1CB, ED1DB, EECB, EECB, EEDB, EEEB, EEEED, EEFD, EEPB, EERB, EESB, EETD | 5   |                  | Not restricted to fusing only    |
|                  | EEEE, EEEF, EEEG, EEUE  | 10  |                  |                                  |

Table 2 Type I and Type II Fuse Coordination with Bul. 100-C contactors per EN 60947-4-1

| E1 Plus Cat. No. | Contactor Cat. No.       | Max. starter FLC (A) | Prospective S.C. current, I <sub>r</sub> (kA) | Conditional S.C. current, I <sub>q</sub> (kA) | Max. voltage (V) | Type I Max. Class J or CC fuse (A) | Type II Max. Class J or CC fuse (A) |
|------------------|--------------------------|----------------------|---|---|------------------|------------------------------------|-------------------------------------|
| 193, 193R        | ED1AB, EEAB, ED1BB, EEBC | 100-C09              | 0.5   | 1   | 100              | 600                                | 3                                   |
|                  |                          | 100-C09              | 1   |   |                  |                                    | 6                                   |
|                  |                          | 100-C09              | 9   | 1   |                  |                                    | 15                                  |
|                  |                          | 100-C12              | 12  |   |                  |                                    | 20                                  |
|                  |                          | 100-C16              | 16  |   |                  |                                    | 30                                  |
|                  |                          | 100-C23              | 23  |   |                  |                                    | 40                                  |
|                  |                          | 100-C09              | 9   | 3   |                  |                                    | 15                                  |
|                  |                          | 100-C12              | 12  |   |                  |                                    | 20                                  |
|                  |                          | 100-C16              | 16  |   |                  |                                    | 30                                  |
|                  |                          | 100-C23              | 23  |   |                  |                                    | 40                                  |
|                  |                          | 100-C30              | 30  | 3   |                  |                                    | 50                                  |
|                  |                          | 100-C37              | 37  |   |                  |                                    | 50                                  |
|                  |                          | 100-C43              | 43  |   |                  |                                    | 70                                  |
|                  |                          | 100-C60              | 60  |   |                  |                                    | 80                                  |
|                  |                          | 100-C72              | 72  | 5   |                  |                                    | 100                                 |
|                  |                          | 100-C85              | 85  |   |                  |                                    | 150                                 |
|                  |                          | 100-C60              | 60  |   |                  |                                    | 80                                  |
|                  |                          | 100-C72              | 72  |   |                  |                                    | 100                                 |
|                  |                          | 100-C85              | 85  |   |                  |                                    | 150                                 |

Table 3 Short Circuit Ratings per EN 60947-4-1

| E1 Plus Cat. No. |  | Prospective S.C. current, I <sub>r</sub> (kA) | Conditional S.C. current, I <sub>q</sub> (kA) | Max. voltage (V) | S.C.P.D.                         |
|------------------|--|---|---|------------------|----------------------------------|
| 193, 193R, 193S  | ED1AB, ED1BB, EEAB, EEBC   | 1   | 100   | 690              | Suitable for use with fuses only |
|                  | ED1CB, ED1DB, EECB, EECB, EEDB, EEEB, EEEED, EEFD, EEPB, EERB, EESB, EETD                        | 1   |   |                  | Not restricted to fusing only    |
|                  | ED1EB, EEEB, EEEED, EEFD, EEEF, EEEG, EEEH, EEEI, EEEJ, EEEK, EEEF, EEEG, EEEH, EEEI, EEEJ, EEEK | 3   |   |                  |                                  |
|                  | EEEE, EEEF, EEEG, EEUE   | 5   |   |                  |                                  |

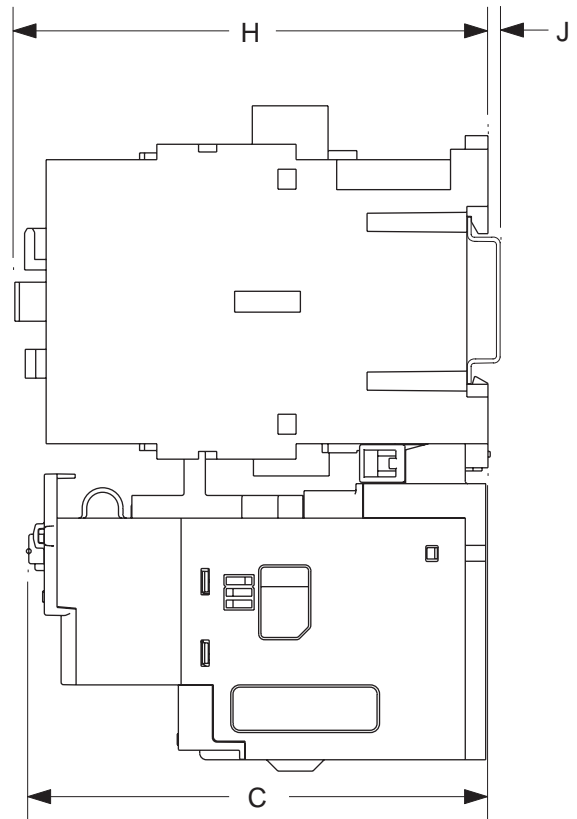
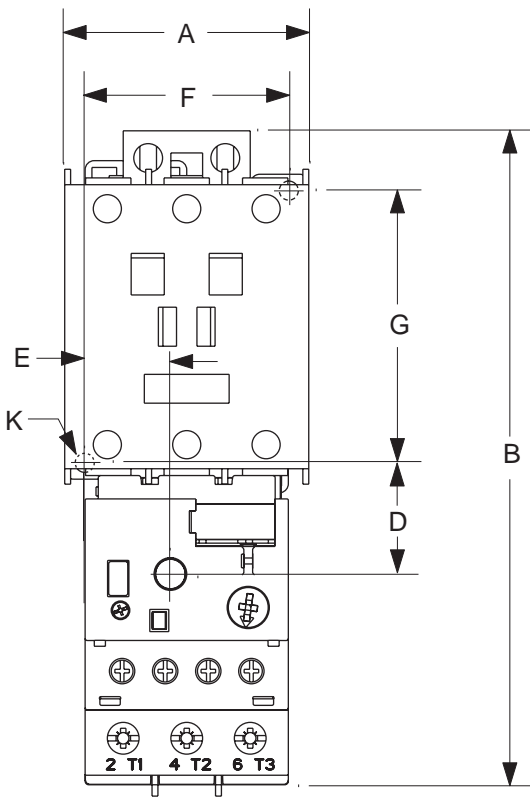
Table 4 High Fault Short Circuit Ratings per UL508 and CSA 22.2 No. 14

| E1 Plus Cat. No. | Contactor Cat. No.       | Max. starter FLC (A) | Max. available fault current (kA) | Max. voltage (V) | Max. UL Class J or CC fuse, CSA HRCl-J (A) |     |
|------------------|--------------------------|----------------------|-----------------------------------|------------------|--|-----|
| 193, 193R        | ED1AB, EEAB, ED1BB, EEBC | 100-C09              | 0.5                               | 100              | 600  |     |
|                  |                          | 100-C09              | 1                                 |                  |  | 3   |
|                  |                          | 100-C09              | 9                                 |                  |  | 6   |
|                  |                          | 100-C12              | 12                                |                  |  | 15  |
|                  |                          | 100-C16              | 16                                |                  |  | 20  |
|                  |                          | 100-C23              | 23                                |                  |  | 30  |
|                  |                          | 100-C30              | 30                                |                  |  | 40  |
|                  |                          | 100-C37              | 37                                |                  |  | 50  |
|                  |                          | 100-C43              | 43                                |                  |  | 50  |
|                  |                          | 100-C60              | 60                                |                  |  | 70  |
|                  |                          | 100-C72              | 72                                |                  |  | 80  |
|                  |                          | 100-C85              | 85                                |                  |  | 80  |
|                  |                          | 100-C85              | 85                                |                  |  | 100 |
|                  |                          | 100-C85              | 85                                |                  |  | 150 |

**Fuse Selection Table Class gL/gG and Class aM Fusing**

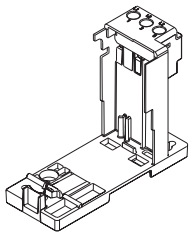
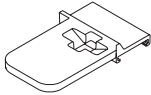
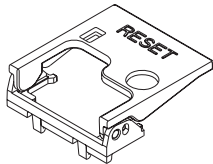
| Motor    |      | Fuse        |                   | Contactor |           | ED/EE O/L Relay |                     |
|----------|------|-------------|-------------------|-----------|-----------|-----------------|---------------------|
| 1500 rpm | Type | Type        | Rated Current [A] | Type      | Type      | Type            | Thermal Setting [A] |
| 0.06     | 0.24 | Class gL/gG | 2                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.09     | 0.33 | Class gL/gG | 2                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.12     | 0.43 | Class gL/gG | 2                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.18     | 0.61 | Class gL/gG | 2                 | 100-C09   | 193-ED1BB | 0.20 - 1.0      |                     |
| 0.25     | 0.8  | Class gL/gG | 4                 | 100-C09   | 193-ED1BB | 0.20 - 1.0      |                     |
| 0.37     | 1.1  | Class gL/gG | 4                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 0.55     | 1.5  | Class gL/gG | 6                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 0.75     | 1.9  | Class gL/gG | 6                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 1.1      | 2.7  | Class gL/gG | 10                | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 1.5      | 3.5  | Class gL/gG | 10                | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 2.2      | 5.0  | Class gL/gG | 16                | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 3        | 6.6  | Class gL/gG | 20                | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 4        | 8.5  | Class gL/gG | 25                | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 5.5      | 11   | Class gL/gG | 32                | 100-C12   | 193-ED1DB | 3.2 - 16        |                     |
| 7.5      | 15   | Class gL/gG | 40                | 100-C23   | 193-ED1DB | 3.2 - 16        |                     |
| 10       | 20   | Class gL/gG | 50                | 100-C30   | 193-EEFD  | 5.4 - 27        |                     |
| 11       | 22   | Class gL/gG | 63                | 100-C30   | 193-EEFD  | 5.4 - 27        |                     |
| 15       | 29   | Class gL/gG | 80                | 100-C30   | 193-EEFD  | 9 - 45          |                     |
| 18.5     | 36   | Class gL/gG | 80                | 100-C37   | 193-EEFD  | 9 - 45          |                     |
| 22       | 41   | Class gL/gG | 100               | 100-C43   | 193-EEFD  | 9 - 45          |                     |
| 30       | 56   | Class gL/gG | 125               | 100-C60   | 193-EEGE  | 18 - 90         |                     |
| 37       | 68   | Class gL/gG | 160               | 100-C72   | 193-EEGE  | 18 - 90         |                     |
| 45       | 81   | Class gL/gG | 160               | 100-C85   | 193-EEGE  | 18 - 90         |                     |

| Motor    |      | Fuse     |                   | Contactor |           | ED/EE O/L Relay |                     |
|----------|------|----------|-------------------|-----------|-----------|-----------------|---------------------|
| 1500 rpm | Type | Type     | Rated Current [A] | Type      | Type      | Type            | Thermal Setting [A] |
| 0.06     | 0.24 | Class aM | 1                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.09     | 0.33 | Class aM | 1                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.12     | 0.43 | Class aM | 1                 | 100-C09   | 193-ED1AB | 0.10 - 0.50     |                     |
| 0.18     | 0.61 | Class aM | 2                 | 100-C09   | 193-ED1BB | 0.20 - 1.0      |                     |
| 0.25     | 0.8  | Class aM | 2                 | 100-C09   | 193-ED1BB | 0.20 - 1.0      |                     |
| 0.37     | 1.1  | Class aM | 2                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 0.55     | 1.5  | Class aM | 2                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 0.75     | 1.9  | Class aM | 4                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 1.1      | 2.7  | Class aM | 4                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 1.5      | 3.5  | Class aM | 4                 | 100-C09   | 193-ED1CB | 1.0 - 5.0       |                     |
| 2.2      | 5.0  | Class aM | 6                 | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 3        | 6.6  | Class aM | 8                 | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 4        | 8.5  | Class aM | 10                | 100-C09   | 193-ED1DB | 3.2 - 16        |                     |
| 5.5      | 11   | Class aM | 12                | 100-C12   | 193-ED1DB | 3.2 - 16        |                     |
| 7.5      | 15   | Class aM | 16                | 100-C16   | 193-ED1DB | 3.2 - 16        |                     |
| 11       | 22   | Class aM | 25                | 100-C30   | 193-EEFD  | 9 - 45          |                     |
| 15       | 29   | Class aM | 32                | 100-C30   | 193-EEFD  | 9 - 45          |                     |
| 18.5     | 36   | Class aM | 40                | 100-C37   | 193-EEFD  | 9 - 45          |                     |
| 22       | 41   | Class aM | 50                | 100-C43   | 193-EEFD  | 9 - 45          |                     |
| 30       | 56   | Class aM | 63                | 100-C60   | 193-EEGE  | 18 - 90         |                     |
| 37       | 68   | Class aM | 80                | 100-C72   | 193-EEGE  | 18 - 90         |                     |
| 45       | 81   | Class aM | 100               | 100-C85   | 193-EEGE  | 18 - 90         |                     |



| CONTACTOR CAT. NO.        | E1 PLUS CAT. NO.     |            | A            | B               | C               | D             | E             | F            | G             | H              | J          | K            |
|---------------------------|----------------------|------------|--------------|-----------------|-----------------|---------------|---------------|--------------|---------------|----------------|------------|--------------|
| 100-C09, -C12, -C16, -C23 | 193-ED1_B, 193*-EE_B | mm<br>(in) | 45<br>(1.76) | 146.6<br>(5.77) | 85.2<br>(3.35)  | 24.5<br>(.96) | 13.9<br>(.55) | 35<br>(1.38) | 60<br>(2.36)  | 86.5<br>(3.40) | 2<br>(.08) | 4.5<br>(.17) |
| 100-C30, -C37             | 193*-EE_D            | mm<br>(in) | 45<br>(1.76) | 146.6<br>(5.77) | 101.2<br>(3.98) | 24.5<br>(.96) | 13.9<br>(.55) | 35<br>(1.38) | 60<br>(2.36)  | 104<br>(4.09)  | 2<br>(.08) | 4.5<br>(.17) |
| 100-C43                   |                      | mm<br>(in) | 54<br>(2.12) | 146.6<br>(5.77) | 101.2<br>(3.98) | 24.5<br>(.96) | 18.4<br>(.74) | 45<br>(1.77) | 60<br>(2.36)  | 104<br>(4.09)  | 2<br>(.08) | 4.5<br>(.17) |
| 100-C60, -C72, -C85       | 193*-EE_E            | mm<br>(in) | 72<br>(2.83) | 192<br>(7.57)   | 120.4<br>(4.74) | 29<br>(1.14)  | 23.8<br>(.94) | 55<br>(2.16) | 100<br>(3.94) | 126<br>(4.94)  | 2<br>(.08) | 5.4<br>(.21) |
| 300-AO_, -BO_             | 193*-EE_D            | mm<br>(in) | 45<br>(1.76) | 146.6<br>(5.77) | 101.2<br>(3.98) | 24.5<br>(.96) | 13.9<br>(.55) | 35<br>(1.38) | 60<br>(2.36)  | 104<br>(4.09)  | 2<br>(.08) | 4.5<br>(.17) |
| 300-CO_                   | 193*-EE_E            | mm<br>(in) | 72<br>(2.83) | 192<br>(7.57)   | 120.4<br>(4.74) | 29<br>(1.14)  | 23.8<br>(.94) | 55<br>(2.16) | 100<br>(3.94) | 126<br>(4.94)  | 2<br>(.08) | 5.4<br>(.21) |

**Accessories**  
**Accessoires**  
**Zubehör**  
**Accesorios**  
**Accessori**  
 付属品  
 附件

|  | For Use With                   | Cat. No. |
|--|--------------------------------|----------|
| DIN Rail/Panel Adapter<br>    | 193-ED1_B, 193*-EE_B           | 193-EPB  |
|  | 193*-EE_D                      | 193-EPD  |
|  | 193*-EE_E                      | 193-EPE  |
| Current Adjustment Shield<br> | 193-ED1 (all)<br>193*-EE (all) | 193-BC8  |
| External Reset Adapter<br>    | 193-ED1 (all)<br>193*-EE (all) | 193-ERA  |