

Kinetix 5700 Single-axis Inverters

Catalog Numbers 2198-S086-ERS3, 2198-S130-ERS3, 2198-S160-ERS3, 2198-S263-ERS3, 2198-S312-ERS3, 2198-S086-ERS4, 2198-S130-ERS4, 2198-S160-ERS4, 2198-S263-ERS4, 2198-S312-ERS



ATTENTION: Read this document and the documents listed in the Additional Resources section about installation, configuration and operation of this equipment before you install, configure, operate or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

注意：在安装、配置、操作和维护本产品前，请阅读本文档以及“其他资源”部分列出的有关设备安装、配置和操作的相应文档。除了所有适用规范、法律和标准的相关要求之外，用户还必须熟悉安装和接线说明。

安装、调整、投运、使用、组装、拆卸和维护等各项操作必须由经过适当训练的专业人员按照适用的操作规范实施。

如果未按照制造商指定的方式使用该设备，则可能会损害设备提供的保护。

ATENÇÃO: Antes de instalar, configurar, poner en funcionamiento o realizar el mantenimiento de este producto, lea este documento y los documentos listados en la sección Recursos adicionales acerca de la instalación, configuración y operación de este equipo. Los usuarios deben familiarizarse con las instrucciones de instalación y cableado y con los requisitos de todos los códigos, leyes y estándares vigentes.

El personal debidamente capacitado debe realizar las actividades relacionadas a la instalación, ajustes, puesta en servicio, uso, ensamblaje, desensamblaje y mantenimiento de conformidad con el código de práctica aplicable. Si este equipo se usa de una manera no especificada por el fabricante, la protección provista por el equipo puede resultar afectada.

ATENÇÃO: Leia este e os demais documentos sobre instalação, configuração e operação do equipamento que estão na seção Recursos adicionais antes de instalar, configurar, operar ou manter este produto. Os usuários devem se familiarizar com as instruções de instalação e fiação além das especificações para todos os códigos, leis e normas aplicáveis.

É necessário que as atividades, incluindo instalação, ajustes, colocação em serviço, utilização, montagem, desmontagem e manutenção sejam realizadas por pessoal qualificado e especializado, de acordo com o código de prática aplicável.

Caso este equipamento seja utilizado de maneira não estabelecida pelo fabricante, a proteção fornecida pelo equipamento pode ficar prejudicada.

ВНИМАНИЕ: Перед тем как устанавливать, наладку, вводить в эксплуатацию, использовать, сборку, разборку и техническое обслуживание, прочитайте этот документ и документы, перечисленные в разделе «Дополнительные ресурсы». В этих документах изложены сведения об установке, настройке и эксплуатации данного оборудования. Пользователи обязаны ознакомиться с инструкциями по установке и прокладке соединений, а также с требованиями всех применимых норм, законов и стандартов.

Все действия, включая установку, наладку, ввод в эксплуатацию, использование, сборку, разборку и техническое обслуживание, должны выполняться обученным персоналом в соответствии с применимыми нормами и правилами.

Если оборудование используется не предусмотренным производителем образом, защита оборудования может быть нарушена.

注意：本製品を設置、構成、稼働または保守する前に、本書および本機器の設置、設定、操作についての参考資料の該当箇所に記載されている文書に目を通してください。ユーザは、すべての該当する条例、法律、規格の要件に加えて、設置および配線の手順に習熟している必要があります。

設置調整、運転の開始、使用、組立て、解体、保守を含む諸作業は、該当する実施規則に従って訓練を受けた適切な作業員が実行する必要があります。

本機器が製造メーカーにより指定されていない方法で使用されている場合、機器により提供されている保護が損なわれる恐れがあります。

ACHTUNG: Lesen Sie dieses Dokument und die im Abschnitt „Weitere Informationen“ aufgeführten Dokumente, die Informationen zu Installation, Konfiguration und Bedienung dieses Produkts enthalten, bevor Sie dieses Produkt installieren, konfigurieren, bedienen oder warten. Anwender müssen sich neben den Bestimmungen aller anwendbaren Vorschriften, Gesetze und Normen zusätzlich mit den Installations- und Verdrahtungsanweisungen vertraut machen.

Arbeiten im Rahmen der Installation, Anpassung, Inbetriebnahme, Verwendung, Montage, Demontage oder Instandhaltung dürfen nur durch ausreichend geschulte Mitarbeiter und in Übereinstimmung mit den anwendbaren Ausführungsvorschriften vorgenommen werden.

Wenn das Gerät in einer Weise verwendet wird, die vom Hersteller nicht vorgesehen ist, kann die Schutzfunktion beeinträchtigt sein.

ATTENTION: Lisez ce document et les documents listés dans la section Ressources complémentaires relatifs à l'installation, la configuration et le fonctionnement de cet équipement avant d'installer, configurer, utiliser ou entretenir ce produit. Les utilisateurs doivent se familiariser avec les instructions d'installation et de câblage en plus des exigences relatives aux codes, lois et normes en vigueur. Les activités relatives à l'installation, le réglage, la mise en service, l'utilisation, l'assemblage, le démontage et l'entretien doivent être réalisées par des personnes formées selon le code de pratique en vigueur.

Si cet équipement est utilisé d'une façon qui n'a pas été définie par le fabricant, la protection fournie par l'équipement peut être compromise.

주의：본 제품 설치, 설정, 작동 또는 유지 보수하기 전에 본 문서를 포함하여 설치, 설정 및 작동에 관한 참고 자료 섹션의 문서들을 반드시 읽고 숙지하십시오. 사용자는 모든 관련 규정, 법규 및 표준에서 요구하는 사항에 대해 반드시 설치 및 배선 지침을 숙지해야 합니다.

설치, 조정, 가동, 사용, 조립, 분해, 유지보수 등 모든 작업은 관련 규정에 따라 적절한 교육을 받은 사용자를 통해서만 수행해야 합니다.

본 장비를 제조사가 명시하지 않은 방법으로 사용하면 장비의 보호 기능이 손상될 수 있습니다.

ATTENZIONE: Prima di installare, configurare ed utilizzare il prodotto, o effettuare interventi di manutenzione su di esso, leggere il presente documento ed i documenti elencati nella sezione "Altre risorse", riguardanti l'installazione, la configurazione ed il funzionamento dell'apparecchiatura. Gli utenti devono leggere e comprendere le istruzioni di installazione e cablaggio, oltre ai requisiti previsti dalle leggi, codici e standard applicabili.

Le attività come installazione, regolazioni, utilizzo, assemblaggio, disassemblaggio e manutenzione devono essere svolte da personale adeguatamente addestrato, nel rispetto delle procedure previste. Qualora l'apparecchio venga utilizzato con modalità diverse da quanto previsto dal produttore, la sua funzione di protezione potrebbe venire compromessa.

DİKKAT: Bu ürünün kurulumu, yapılandırılması, işletilmesi veya bakımı öncesinde bu dokümanı ve bu ekipman kurulumu, yapılandırılması ve işletimi ile ilgili ilave Kaynaklar bölümünde yer listelenmiş dokümanları okuyun. Kullanıcılar yürürlükteki tüm yönetmelikler, yasalar ve standartların gereksinimlerine ek olarak kurulum ve kablolama talimatlarını da öğrenmek zorundadır.

Kurulum, ayarlar, hizmete alma, kullanma, parçaları birleştirme, parçaları sökme ve bakım gibi aktiviteler sadece uygun eğitimleri almış kişiler tarafından yürürlükteki uygulama yönetmeliklerine uygun şekilde yapılabilir.

Bu ekipman üretici tarafından belirlenmiş amacın dışında kullanılırsa, ekipman tarafından sağlanan koruma bozulabilir.

注意事項：在安装、設定、操作或維護本產品前，請先閱讀此文件以及列於「其他資源」章節中有關安裝、設定與操作此設備的文件。使用者必須熟悉安裝和配線指示，並符合所有法規、法律和標準要求。

包括安裝、調整、交付使用、使用、組裝、拆卸和維護等動作都必須交由已經過適當訓練的人員進行，以符合適用的實作法規。

如果將設備用於非製造商指定的用途時，可能會造成設備所提供的保護功能受損。

POZOR: Než začnete instalovat, konfigurovat či provozovat tento výrobek nebo provádět jeho údržbu, přečtěte si tento dokument a dokumenty uvedené v části Dodatečné zdroje ohledně instalace, konfigurace a provozu tohoto zařízení. Uživatelé se musejí vedle požadavků všech relevantních vyhlášek, zákonů a norem nutně seznámit také s pokyny pro instalaci a elektrické zapojení.

Činnosti zahrnující instalaci, nastavení, uvedení do provozu, užívání, montáž, demontáž a údržbu musí vykonávat vhodné proškolený personál v souladu s příslušnými prováděcími předpisy.

Pokud se toto zařízení používá způsobem neodpovídajícím specifikaci výrobce, může být narušena ochrana, kterou toto zařízení poskytuje.

UWAGA: Przed instalacją, konfiguracją, użytkowaniem lub konserwacją tego produktu należy przeczytać niniejszy dokument oraz wszystkie dokumenty wymienione w sekcji Dodatkowe źródła omawiające instalację, konfigurację i procedury użytkowania tego urządzenia. Użytkownicy mają obowiązek zapoznać się z instrukcjami dotyczącymi instalacji oraz przewodowania, jak również z obowiązującymi kodeksami, prawem i normami.

Działania obejmujące instalację, regulację, przekazanie do użytkowania, użytkowanie, montaż, demontaż oraz konserwację muszą być wykonywane przez odpowiednio przeszkolony personel zgodnie z obowiązującym kodeksem postępowania.

Jesli urządzenie jest użytkowane w sposób inny niż określony przez producenta, zabezpieczenie zapewniane przez urządzenie może zostać ograniczone.

OBBS! Läs detta dokument samt dokumentet, som står listat i avsnittet Övriga resurser, om installation, konfigurering och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. Användare måste bekanta sig med instruktioner för installation och kabeldragning, förutom krav enligt gällande koder, lagar och standarder.

Åtgärder som installation, justering, service, användning, montering, demontering och underhållsarbete måste utföras av personal med lämplig utbildning enligt lämpligt bruk.

Om denna utrustning används på ett sätt som inte anges av tillverkaren kan det hända att utrustningens skyddsanordningar försätts ur funktion.

LET OP: Lees dit document en de documenten die genoemd worden in de paragraaf Aanvullende informatie over de installatie, configuratie en bediening van deze apparatuur voordat u dit product installeert, configureert, bedient of onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie en de bedringsinstructies, naast de vereisten van alle toepasselijke regels, wetten en normen. Activiteiten zoals het installeren, afstellen, in gebruik stellen, gebruiken, monteren, demonteren en het uitvoeren van onderhoud mogen uitsluitend worden uitgevoerd door hiervoor opgeleid personeel en in overeenstemming met de geldende praktijkregels.

Indien de apparatuur wordt gebruikt op een wijze die niet is gespecificeerd door de fabrikant, dan bestaat het gevaar dat de beveiliging van de apparatuur niet goed werkt.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at rok.auto/literature.

Resource	Description
Kinetix® 5700 Servo Drives User Manual, publication 2198-UHQ02	Provides information to install, configure, start, and troubleshoot your Kinetix 5700 servo drive system.
Kinetix 5700, 5500, 5300, 5100 Servo Drive Specifications, publication KNX-TD003	Provides product specifications for Kinetix Integrated Motion over the EtherNet/IP network and EtherNet/IP networking servo drive families.
Kinetix Rotary and Linear Motion Cable Specifications, publication KNX-TD004	Product specifications for Kinetix 2090 motor and interface cables.
Kinetix Servo Drive Performance Specifications per Ecodesign Regulation (EU) 2019/1781 and UK SI 2021 No. 745, publication KNX-TD006	Provides specifications per EU and UK Ecodesign, including efficiency class.
Kinetix Motion Control Selection Guide, publication KNX-SG001	Provides an overview of Kinetix servo drives, motors, actuators, and motion accessories that are designed to help make initial decisions for the motion control products that are best suited for your system requirements.
Kinetix 5700 Drive Systems, Design Guide, publication KNX-RM010	Provides information to determine and select the required (drive specific) drive module, power accessory, connector kit, motor cable, and interface cable catalog numbers for your drive and motor/actuator motion control system. Includes system performance specifications and torque/speed curves (rotary motion) and force/velocity curves (linear motion) for your motion application.
System Design for Control of Electrical Noise Reference Manual, publication GMC-RM001	Information, examples, and techniques that are designed to minimize system failures that are caused by electrical noise.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequences.



SHOCK HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that dangerous voltage may be present.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.



ATTENTION: Only qualified personnel familiar with servo drives and associated machinery should plan or implement the installation, startup, and subsequent maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.



ATTENTION: An incorrectly applied or installed drive can result in component damage or a reduction in product life. Wiring or application errors such as undersizing the motor, incorrect or inadequate AC supply, or excessive surrounding air temperatures can result in malfunction of the system.



ATTENTION: Drive **must not** be installed in an area where the ambient atmosphere contains volatile or corrosive gas, vapors, or dust. If the drive is not going to be installed for a period of time, it must be stored in an area where it will not be exposed to a corrosive atmosphere.

Specifications

Attribute	2198-S086-ERSx	2198-S130-ERSx	2198-S160-ERSx	2198-S263-ERSx	2198-S312-ERSx
Surrounding air temperature	0...50 °C (32...122 °F)				
Operating	-40...+70 °C (-40...+158 °F)				
Storage					
Weight, kg (lb) approx	5.21 (11.5)	5.44 (12.0)	6.80 (15.0)	15.87 (35.0)	15.87 (35.0)
Short circuit current rating	200,000 A rms symmetrical				
Branch circuit short circuit protection	Integral solid-state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electric Code (NEC) and any additional local codes.				
Leakage current	<ul style="list-style-type: none"> Kinetix 5700 drives produce leakage current in the protective-earthing conductor that exceeds 3.5 mA AC and/or 10 mA DC. The minimum size of the protective-earthing (grounding) conductor that is used in the application must comply with local safety regulations for high protective-earthing conductor current equipment. Kinetix 5700 drives produce DC current in the protective-earthing conductor and can reduce the ability of a residual current device (RCD) or residual current monitor (RCM) of type A or AC to provide protection for the drive module and other equipment in the installation. 				

Motor Overload Protection

This servo drive uses solid-state motor overload protection that operates in accordance with UL 61800-5-1. Motor overload protection is provided by algorithms that estimate actual motor temperature that is based on operating conditions.

In addition, this drive provides an input for an external temperature sensor/thermistor device, which is embedded in the motor, to support the UL requirement for motor overload protection. Specifically, the Kinetix VP motors perform motor temperature monitoring to support the UL requirement for motor overload protection.

Some motors supported by this drive (firmware revision 3.001 or earlier) do not contain temperature sensors/thermistors; therefore, motor overload protection against excessive consecutive motor overloads with power cycling is not supported. Beginning with firmware revision 4.001 (and later) thermal retention is supported regardless of the motor or encoder type in use.

This servo drive meets the following UL 61800-5-1 requirements for solid-state overload protection.

Motor Overload Protection Trip Point	Value
Ultimately	100% overload
Within 8 minutes	200% overload
Within 20 seconds	600% overload



ATTENTION: To avoid damage to your motor due to overheating caused by excessive, successive motor-overload trips, follow the wiring diagram that is provided in the user manual for your motor and drive combination.

Refer to your servo drive user manual for the interconnect diagram that illustrates the wiring between your motor and drive.

Ground Jumper Installation

Included with the drive module connector set is a ground jumper. The ground jumper setting depends on your Kinetix 5700 drive system power supply and the EMC line filter.

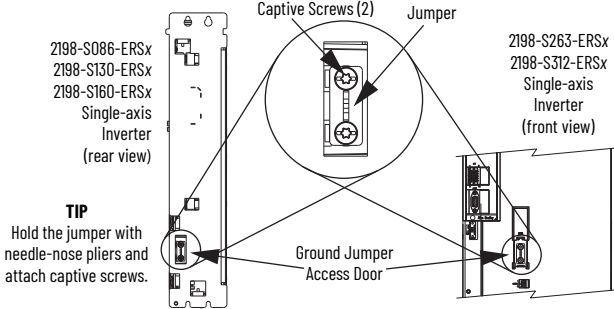
If you have grounded-wye power distribution and the 2198-Pxxx DC-bus power supply with:

- 2198-DB20-F, 2198-DB42-F, 2198-DB80-F, or 2198-DB290-F EMC line filters, install the ground jumper. EMC performance can be affected if the ground jumper is not installed.
- 2198-DBR20-F, 2198-DBR40-F, 2198-DBR90-F, or 2198-DBR200-F EMC filters, remove the ground jumper. Ground jumper removed is preferred when using the 2198-DBRxx-F EMC line filters. EMC performance is achieved with or without the ground jumper installed.

If you are using the 2198-RPxxx regenerative bus supply, always remove the ground jumper.

We recommend that you install the ground jumper when the drive is removed from the panel and placed on its side on a solid surface equipped as a grounded static-safe workstation (applies to only catalog numbers 2198-S086-ERSx, 2198-S130-ERSx, and 2198-S160-ERSx). The ground-jumper access door is on the back of some single-axis inverters and on the front of others. The ground jumper is installed with two captive screws.

Install the Ground Jumper



ATTENTION: Risk of equipment damage exists. The input-power ground configuration must be accurately determined. Install the ground jumper for only grounded-wye power configurations when the 2198-Pxxx DC-bus power supply is used with 2198-DB20-F, 2198-DB42-F, 2198-DB80-F, or 2198-DB290-F EMC line filters.

ATTENTION: To avoid personal injury, the ground jumper access door must be inaccessible when power is applied. If power is applied and then removed, wait at least 5 minutes for the DC-bus voltage to dissipate, and verify that no DC-bus voltage exists before accessing the ground jumper.

Ground Jumper Setting for Single-axis Inverters

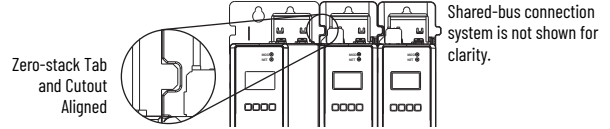
Power Source Type ⁽¹⁾	Ground Jumper Setting Based on Selected Power Supply	
	2198-Pxxx ⁽²⁾ DC-bus Power Supply	<ul style="list-style-type: none"> • 2198-Pxxx DC-bus Power Supply ⁽³⁾ • 2198-RPxxx Regenerative Bus Supply • 8720MC-RPS Regenerative Power Supply • Any Other Active Converter
Grounded (wye)	Jumper installed	Not installed (default setting)
<ul style="list-style-type: none"> • AC-fed ungrounded • Corner grounded • Impedance grounded 	Not installed (default setting)	

(1) Refer to the Kinetix 5700 Servo Drives User Manual, publication [2198-UM002](#), for example power configurations.
 (2) 2198-Pxxx DC-bus power supply when 2198-DB20-F, 2198-DB42-F, 2198-DB80-F, or 2198-DB290-F EMC line filter is used.
 (3) 2198-Pxxx DC-bus power supply when 2198-DBR20-F, 2198-DBR40-F, 2198-DBR90-F, or 2198-DBR200-F EMC line filter is used.

Mount the Single-axis Inverter

- Observe these clearance requirements when mounting the single-axis inverter:
- Additional clearance is required for cables and wires or the shared-bus connection system that is connected to the top of the drive.
 - Additional clearance is required if other devices are installed above and/or below the drive and have clearance requirements of their own.
 - Additional clearance that is left and right of the drive is required when mounted adjacent to noise sensitive equipment or clean wire ways.
 - The recommended minimum cabinet depth is 300 mm (11.81 in.).

Refer to the Kinetix Servo Drives Technical Data, publication [KNX-TD003](#), for Kinetix 5700 drive dimensions. The Kinetix 5700 drive system must be spaced by aligning the zero-stack tab and cutout. For hole patterns, refer to the Kinetix 5700 Servo Drives User Manual, publication [2198-UM002](#).



Mount the Kinetix 5700 servo drives to the cabinet subpanel with M5 (#10-32) steel bolts torqued to 4.0 N·m (35.4 lb·in), max.

Minimum Clearance Requirements

Clearance above drive for airflow and installation.

Drive Cat. No.	Clearance Above mm (in.)	Clearance Below mm (in.)
2198-S086-ERSx 2198-S130-ERSx 2198-S160-ERSx	40 (1.57)	185 (7.28) ⁽¹⁾
2198-S263-ERSx 2198-S312-ERSx	80 (3.15)	200 (7.87)

⁽¹⁾ Additional clearance is required for cable bend radius and wireway.

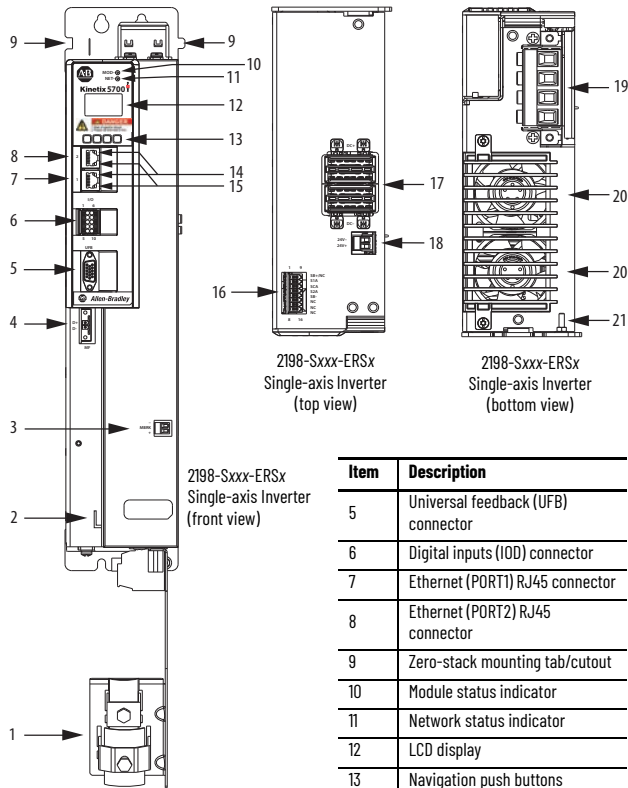
Refer to the Kinetix Servo Drives Technical Data, publication [KNX-TD003](#), for Kinetix 5700 drive dimensions.

IMPORTANT Mount the drive in an upright position as shown. Do not mount the drive on its side.

Connector Data

Use this illustration to identify the single-axis inverter features and indicators.

Single-axis Inverters Features and Indicators (2198-S086-ERSx inverter is shown)



Item	Description
1	Motor-cable clamp bracket (applies to only 2198-S086-ERSx, 2198-S130-ERSx, and 2198-S160-ERSx)
2	Motor feedback cable tie-wrap bracket
3	Motor brake (BC) connector
4	Motor feedback (MF) connector

Item	Description
5	Universal feedback (UFB) connector
6	Digital inputs (IOD) connector
7	Ethernet (PORT1) RJ45 connector
8	Ethernet (PORT2) RJ45 connector
9	Zero-stack mounting tab/cutout
10	Module status indicator
11	Network status indicator
12	LCD display
13	Navigation push buttons
14	Link speed status indicators
15	Link/Activity status indicators
16	Safe torque-off (STO) connector
17	DC bus (DC) connector
18	24V control input power (CP) connector
19	Motor power (MP) connector
20	Cooling fans
21	Ground lug

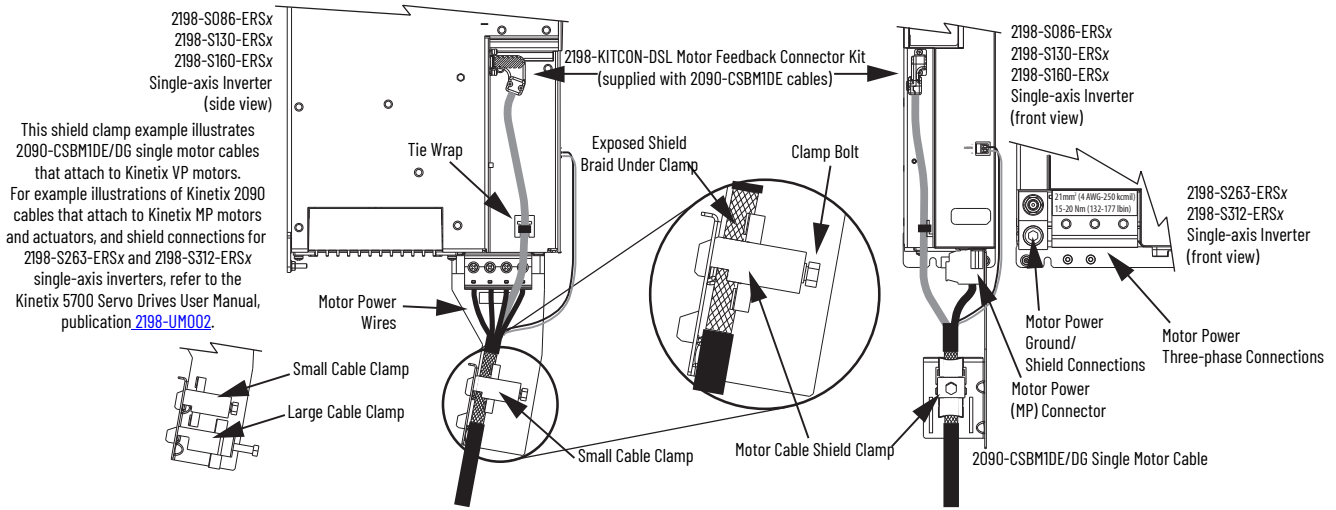
Wiring Requirements

Single-axis Inverter Cat. No.	Description	Connects to Terminals		Wire Size (1) mm ² (AWG)	Strip Length mm (in.)	Torque Value N·m (lb·in)
		Pin	Signal			
2198-S086-ERSx 2198-S130-ERSx	Motor power	U V W —	U V W —	Motor power cable depends on motor/drive combination. 6...25 ⁽²⁾ (10...4)	20.0 (0.79)	2.5...4.5 (22...40)
2198-S160-ERSx		10...35 ⁽²⁾ (8...2)				
2198-S263-ERSx 2198-S312-ERSx		21...120 (4...250 kcmil)	27.0 (1.06)	15...20 (132...177)		
2198-Sxxx-ERSx	PELV/SELV 24V power (connector plug)	CP-1 CP-2	24V+ 24V-	0.5...2.5 (20...14)	7.0 (0.28)	0.22...0.25 (1.9...2.2)
	Brake power	BC-1 BC-2	MBRK+ MBRK-	N/A ⁽³⁾		
	DC Bus power	Bus bar	DC- DC+	N/A ⁽⁴⁾	N/A ⁽⁴⁾	N/A ⁽⁴⁾
2198-Sxxx-ERSx	Safety	STO-1 STO-2, STO-10 STO-3, STO-11 STO-4, STO-12 STO-5, STO-13 STO-6, STO-14 STO-7, STO-15 STO-8, STO-16 STO-9	SB+ S1A SCA S2A SB- N/C N/C N/C	0.14...1.5 (26...16)	10.0 (0.39)	N/A ⁽⁵⁾
		Digital inputs	IOD-1 IOD-2 IOD-3 IOD-4 IOD-5 IOD-6 IOD-7 IOD-8 IOD-9 IOD-10	IN1 COM IN2 COM SHLD IN3 COM IN4 COM SHLD		

(1) Wire size is expressed as a range where solid wire is at the low end of the range (smaller diameter) and stranded wire is at the high end (larger diameter). For example, 6 (solid)...25 (stranded) mm² or 10 (solid)...4 (stranded) AWG.
 (2) Building your own cables or using third-party cables for Kinetix VP motors is not an option. Use 2090-CSxMIDE/DG single motor cables. Refer to the Kinetix Rotary and Linear Motion Cable Specifications Technical Data, publication [KNX-10004](#), for cable specifications.
 (3) Motor brake wires are included (when specified) in the Kinetix 2090 motor cable.
 (4) Shared-bus DC bus power connections are always made from one drive to another over the bus-bar connection system. These terminals do not receive discrete wires.
 (5) This connector uses spring tension to hold wires in place.

Shield Clamp Installation

Factory-supplied Kinetix 2090 single motor cables are shielded and the braided cable shield must terminate at the drive during installation. Clamp the exposed area at the bottom front of the drive. The motor-cable clamp bracket is included with 2198-S086-ERSx, 2198-S130-ERSx, and 2198-S160-ERSx inverters and optional (required for CE) with 2198-S263-ERSx and 2198-S312-ERSx inverters. The clamp bracket includes a two-position cable clamp. The upper position is for smaller cables (10, 8, and 6 AWG). The lower position is for larger cables (4 and 2 AWG). This example illustrates the smaller clamp. Replacement clamps are also available.



Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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