

Product Information

Original Instructions

ArmorKinetix System



Allen-Bradley

by ROCKWELL AUTOMATION

Catalog Numbers 2198-DSO16-ERS2, 2198-DSO16-ERS5, 2198-DSO24-ERS2, 2198-DSO24-ERS5, 2198-DSM16-ERS2-A075x-xxxxxx, 2198-DSM24-ERS2-A075x-xxxxxx, 2198-DSM16-ERS2-B075x-xxxxxx, 2198-DSM24-ERS2-B075x-xxxxxx, 2198-DSM16-ERS2-A100x-xxxxxx, 2198-DSM24-ERS2-A100x-xxxxxx, 2198-DSM16-ERS2-B100x-xxxxxx, 2198-DSM24-ERS2-B100x-xxxxxx, 2198-DSM16-ERS2-A115x-xxxxxx, 2198-DSM24-ERS2-A115x-xxxxxx, 2198-DSM16-ERS2-B115x-xxxxxx, 2198-DSM24-ERS2-B115x-xxxxxx, 2198-DSM16-ERS2-A130x-xxxxxx, 2198-DSM24-ERS2-A130x-xxxxxx, 2198-DSM16-ERS2-B130x-xxxxxx, 2198-DSM24-ERS2-B130x-xxxxxx, 2198-DSM16-ERS5-A075x-xxxxxx, 2198-DSM24-ERS5-A075x-xxxxxx, 2198-DSM16-ERS5-B075x-xxxxxx, 2198-DSM24-ERS5-B075x-xxxxxx, 2198-DSM16-ERS5-A100x-xxxxxx, 2198-DSM24-ERS5-A100x-xxxxxx, 2198-DSM16-ERS5-B100x-xxxxxx, 2198-DSM24-ERS5-B100x-xxxxxx, 2198-DSM16-ERS5-A115x-xxxxxx, 2198-DSM24-ERS5-A115x-xxxxxx, 2198-DSM16-ERS5-B115x-xxxxxx, 2198-DSM24-ERS5-B115x-xxxxxx, 2198-DSM16-ERS5-A130x-xxxxxx, 2198-DSM24-ERS5-A130x-xxxxxx, 2198-DSM16-ERS5-B130x-xxxxxx, 2198-DSM24-ERS5-B130x-xxxxxx, 2198-PIM070, 2198-KITCON-PIM070, 2198-BARCON-55DC200

The ArmorKinetix® system includes a Power Interface Module (PIM), a Distributed Servo Drive (DSD), and a Distributed Servo Motor (DSM).



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、法律和标准的有关要求之外，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。

ATENCIÓN: 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 adicionales 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, настраивать, эксплуатировать или обслуживать данное оборудование, 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 ekipmanın 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, ayarlama, hizmete alma, kulllanma, 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 oprzewodowania, 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.

OBŚ! 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 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 bedradingsinstructies, naast de vereisten van alle toepasselijke regels, wetten en normen.

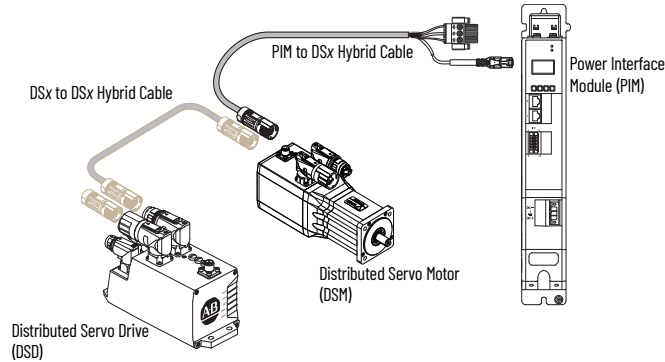
Activiteiten zoals het installeren, afstellen, in gebruik stellen, gebruiken, monteren, demonteren en het uitvoeren van onderhoud mogen uitsluitend worden uitgevoerd door hiervoor opgeleid personeel en in overeenstemming met de geldende praktijkregels.

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.

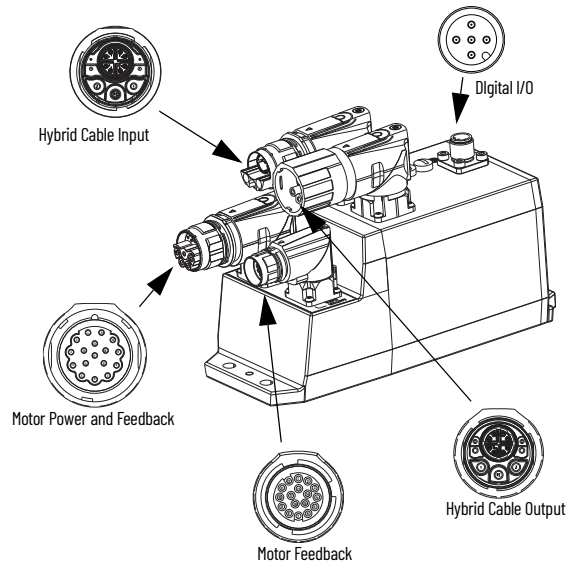
Precautions

IMPORTANT	The Armorkinetix system is compatible with 200V-class and 400V-class Kinetix® 5700 drive systems.
	ATTENTION: Do not attempt to open or modify the Armorkinetix PIM, DSD, or DSM module.
	ATTENTION: To avoid personal injury and damage to the motor, do not lift or handle the motor by the motor shaft. The cap on the shaft can come loose and cause you to drop the motor. To avoid personal injury and damage to the DSD or DSM, do not lift or handle the DSD or DSM by the hybrid connectors.
	ATTENTION: The DSD and DSM modules connect to a power interface module (PIM) module that stores residual voltage for an extended period of time. Do not connect a DSD or DSM to a PIM module immediately after removing power to the PIM module. Allow the residual power stored in the PIM module to dissipate for 5 minutes after power is removed from the Armorkinetix system. This extended discharge period is needed for the system power to return to a nominal voltage that is acceptable for reconfiguration of the system.
	ATTENTION: DSD and DSM units are not intended for direct connection to an AC power line. The DSD and DSM units are designed for connection to a PIM module that controls the application of power.
	SHOCK HAZARD: Labels may be on or inside the equipment (for example, drive or motor) to alert people that dangerous voltage may be present.
	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.
IMPORTANT	The DSD and/or DSM power must be supplied by a PIM. The PIM operates from one of the compatible Kinetix 5700 power configurations.

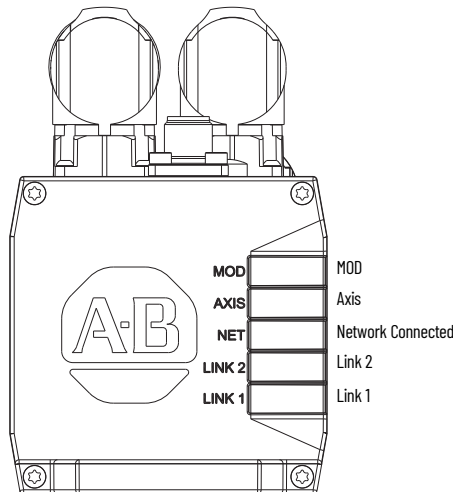
System Diagram



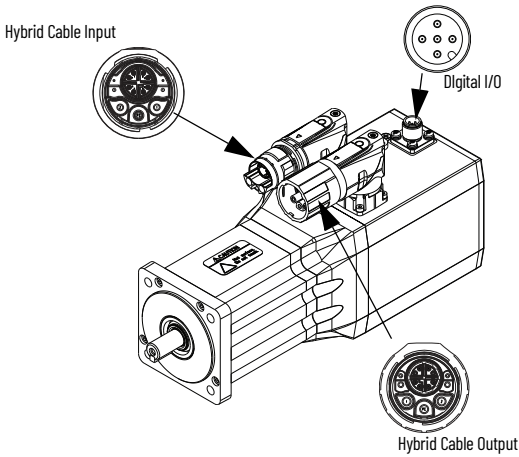
DSD Connectors



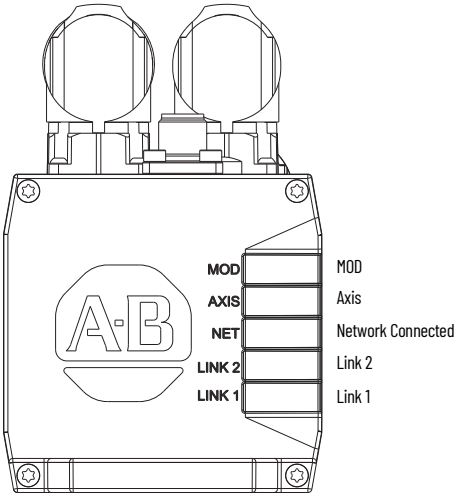
DSD Indicators



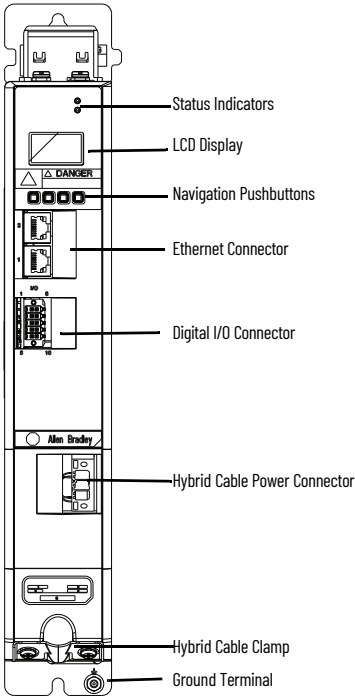
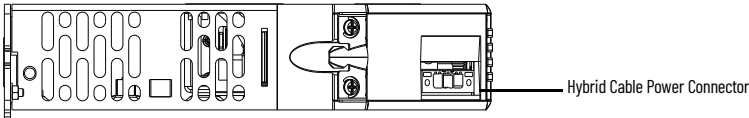
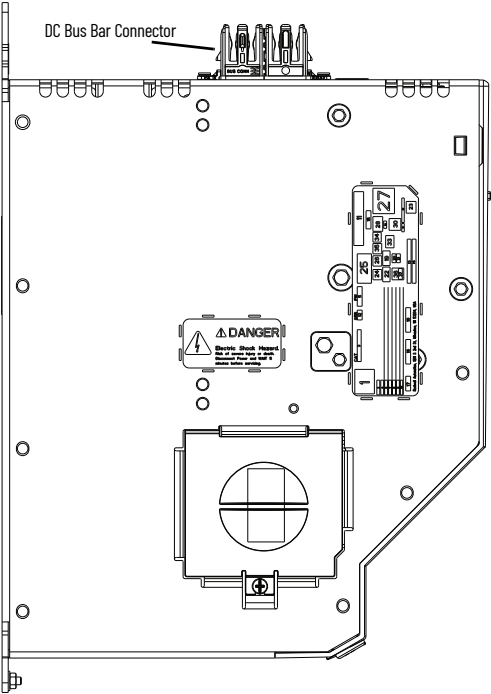
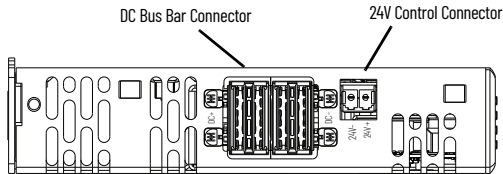
DSM Connectors



DSM Indicators

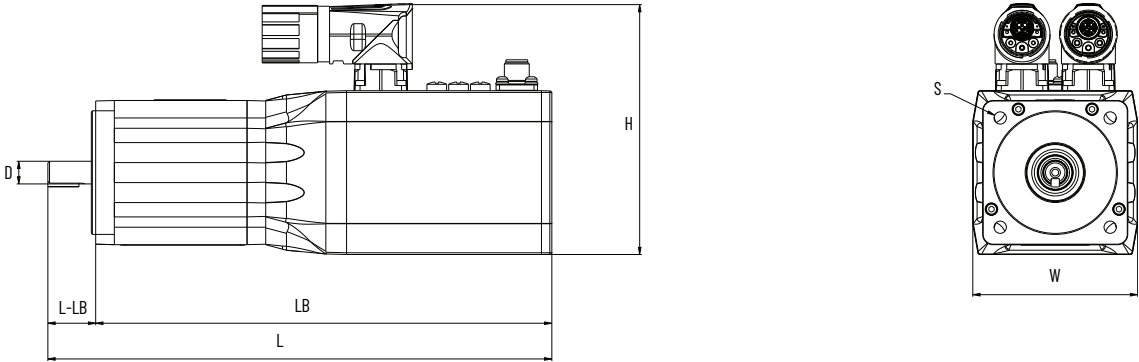


PIM Connectors and Indicators



DSM Dimensions

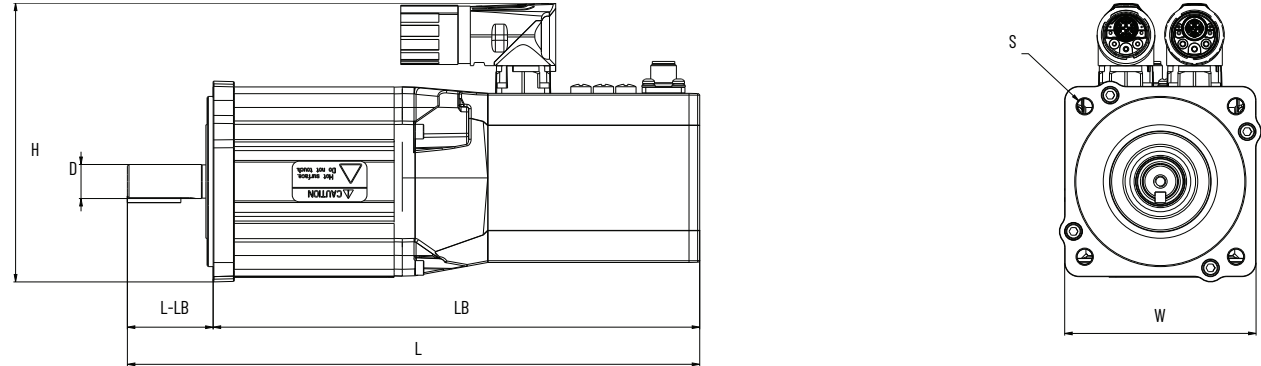
DSM Dimensions, 75 mm Frame Size



DSM Dimensions Table, 75 mm Frame Size

Cat. No.	L mm (in.)	LB mm (in.)	L-LB mm (in.)	H mm (in.)	W mm (in.)	D mm (in.)	S mm (in.)
2198-DSMxxx-ERSx-x0751 without brake	244.8 (9.64)	221.8 (8.73)	23.0 (0.91)	121.9 (4.80)	79.5 (3.13)	11.0 (0.43)	5.95 (0.23)
2198-DSMxxx-ERSx-x0751 with brake	275.4 (10.84)	252.4 (9.94)					
2198-DSMxxx-ERSx-x0752 without brake	269.8 (10.62)	246.8 (9.72)					
2198-DSMxxx-ERSx-x0752 with brake	300.4 (11.83)	277.4 (10.92)					
2198-DSMxxx-ERSx-x0753 without brake	294.8 (11.61)	271.8 (10.70)					
2198-DSMxxx-ERSx-x0753 with brake	325.4 (12.81)	302.4 (11.91)					

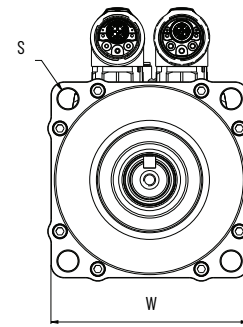
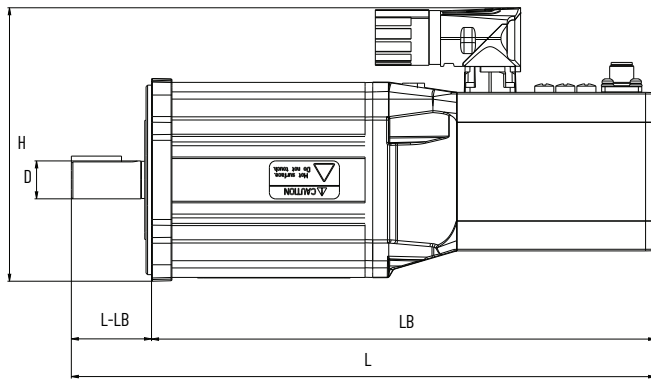
DSM Dimensions, 100 mm Frame Size



DSM Dimensions Table, 100 mm Frame Size

STACK SIZE	L mm (in.)	LB mm (in.)	L-LB mm (in.)	H mm (in.)	W mm (in.)	D mm (in.)	S mm (in.)
2198-DSMxxx-ERSx-x1001 without brake	269.7 (10.62)	229.7 (9.04)	40.0 (1.57)	126.4 (4.98)	89.4 (3.52)	16.0 (0.63)	7.2 (0.28)
2198-DSMxxx-ERSx-x1001 with brake	304.2 (11.98)	264.2 (10.40)					
2198-DSMxxx-ERSx-x1002 without brake	295.1 (11.62)	255.1 (10.04)					
2198-DSMxxx-ERSx-x1002 with brake	329.6 (12.98)	289.6 (11.40)					
2198-DSMxxx-ERSx-x1003 without brake	320.5 (12.62)	280.5 (11.04)					
2198-DSMxxx-ERSx-x1003 with brake	355.0 (13.98)	315.0 (12.40)					

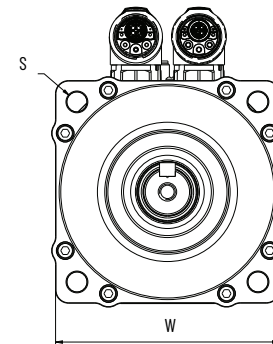
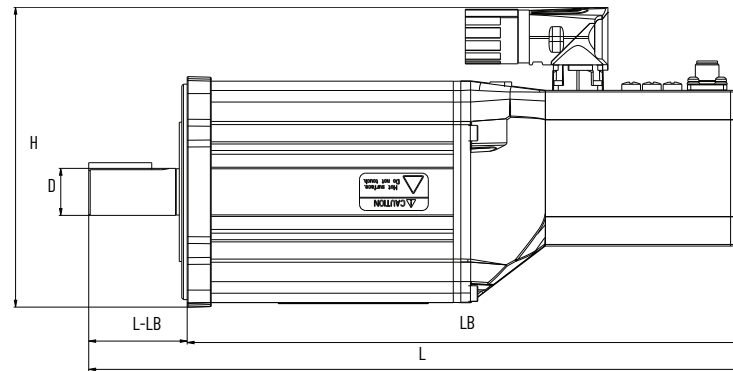
DSM Dimensions, 115 mm Frame Size



DSM Dimensions Table, 115 mm Frame Size

STACK SIZE	L mm (in.)	LB mm (in.)	L-LB mm (in.)	H mm (in.)	W mm (in.)	D mm (in.)	S mm (in.)
2198-DSMxxx-ERSx-x1152 without brake	291.5 (11.48)	251.5 (9.90)	40.0 (1.57)	137.1 (5.40)	98.3 (3.87)	19.0 (0.75)	10.2 (0.40)
2198-DSMxxx-ERSx-x1152 with brake	340.0 (13.39)	300.0 (11.81)					
2198-DSMxxx-ERSx-x1153 without brake	316.9 (12.48)	276.9 (10.90)					
2198-DSMxxx-ERSx-x1153 with brake	365.4 (14.39)	325.4 (12.81)					

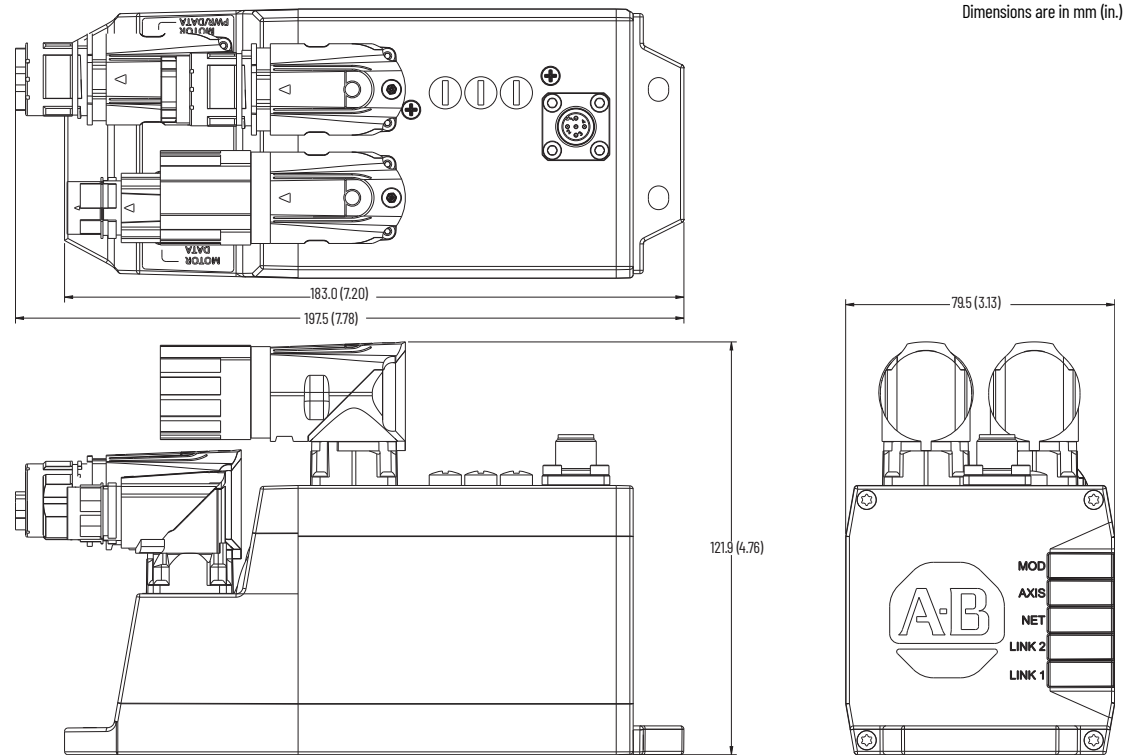
DSM Dimensions, 130 mm Frame Size



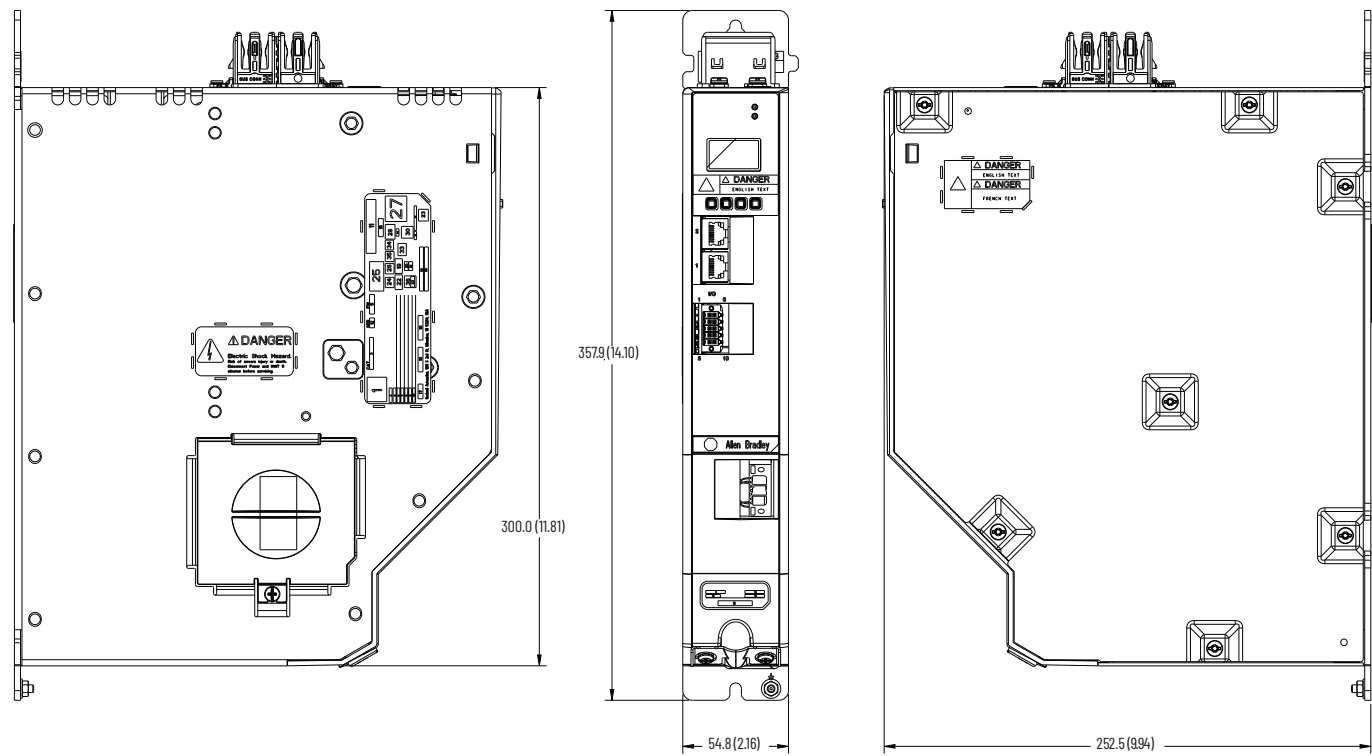
DSM Dimensions Table, 130 mm Frame Size

STACK SIZE	L mm (in.)	LB mm (in.)	L-LB mm (in.)	H mm (in.)	W mm (in.)	D mm (in.)	S mm (in.)
2198-DSMxxx-ERSx-x1303 without brake	330.2 (13.00)	280.2 (11.03)	50.0 (1.97)	153.1 (6.03)	113.7 (4.48)	24.0 (0.94)	10.2 (0.40)
2198-DSMxxx-ERSx-x1303 with brake	378.7 (14.91)	328.7 (12.94)					
2198-DSMxxx-ERSx-x1304 without brake	355.6 (14.00)	305.6 (12.03)					
2198-DSMxxx-ERSx-x1304 with brake	404.1 (15.91)	354.1 (13.94)					
2198-DSMxxx-ERSx-x1306 without brake	406.4 (16.00)	356.4 (14.03)					
2198-DSMxxx-ERSx-x1306 with brake	454.9 (17.91)	404.9 (15.94)					

DSD Dimensions



PIM Dimensions



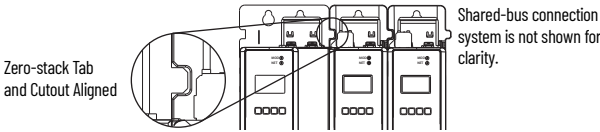
Mount the PIM

Observe these clearance requirements when mounting the power interface module:

- 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 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 5700, 5500, 5300, and 5100 Servo Drives Technical Data, publication [KNX-TD003](#), for Armorkinex PIM module dimensions.

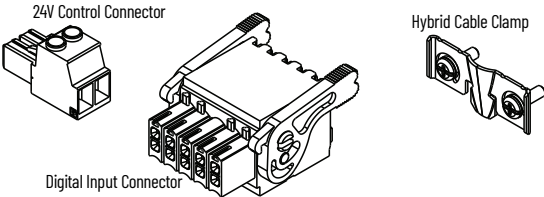
The Armorkinex PIM module must be spaced by aligning the zero-stack tab and cutout. For Armorkinex PIM hole patterns, see the Armorkinex System User Manual, publication [2198-UM006](#). For Kinetix 5700 drive hole patterns, see the Kinetix 5700 Servo Drives User Manual, publication [2198-UM002](#).



Mount the Armorkinex PIM to the cabinet subpanel with M5 (#10-32) steel bolts torqued to 4.0 N•m (35.4 lb•in), max.

PIM Connector Kit

The PIM connector kit, catalog number 2198-KITCON-PIM070, contains these items. See [PIM Connectors and Indicators on page 3](#) for location of these items.

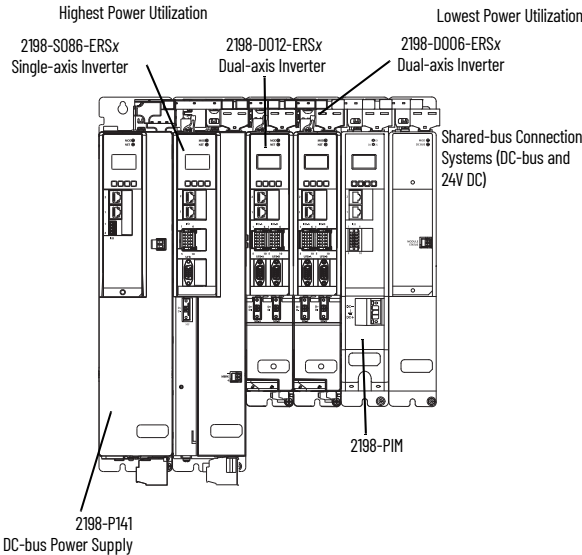


DC-bus Link Kit

The DC-bus link kit, catalog number 2198-BARCON-55DC200, is included with the PIM. For more information, see Kinetix 5700 DC-bus Link Kits Installation Instructions, publication [2198-IN007](#).

Determine Mounting Order

Refer to the Module Mounting Order Example diagram. The PIM can be placed anywhere left or right from the power supply module.



Minimum Clearance

Clearance above drive for airflow and installation.

2198-PIM070 PIM (front view)

Clearance left and right of the drive is not required.

Drive Cat. No.	Clearance Above mm (in.)	Clearance Below mm (in.)
2198-PIM070	40.0 (1.57)	40.0 (1.57)

See the Kinetix 5700, 5500, 5300, and 5100 Servo Drives Specifications Technical Data, publication [KNX-TD003](#), for Armorkinex PIM module dimensions.

Clearance below drive for airflow and installation.

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

Ground the System

The PIM should be mounted to the conductive surface, the same as the rest of the in-cabinet drives. The DSM or DSD can be mounted to any surface. The safety GND is completed through the 'green' wire in the hybrid cable.

Mount the DSx

DSx module installation must comply with all local regulations and use of equipment and installation practices that promote safety and electromagnetic compatibility:

- All DSx modules include a mounting pilot for aligning the module on a machine.
- Recommended mounting screws are stainless steel, size M5. Tighten the mounting screws to 6.4 N•m (57 lb•in).



ATTENTION: Unmounted motors, disconnected mechanical couplings, loose shaft keys, and disconnected cables are dangerous if power is applied. Identify (tag-out) disassembled equipment and restrict access to (lock-out) the electrical power. Before applying power to the motor, remove the shaft key and other mechanical couplings that could be thrown from the shaft.



ATTENTION: Verify that cables are installed and restrained to prevent uneven tension or flexing at the connector. Provide support at 3 m (10 ft) intervals throughout the cable run. Excessive and uneven lateral force at the cable connector can result in the connector's environmental seal opening and closing as the cable flexes.

Specifications

Attribute	PIM	DSD	DSM			
			Frame 75	Frame 100	Frame 115	Frame 130
Surrounding air temperature Operating (with de-rating) Storage	0...50 °C (32...122 °F) — -40...+70 °C (-40...+158 °F)	-10...+40 °C (14...104 °F) (-20...+55 °C [-4...131 °F]) -40...+85 °C (-40...+185 °F)	-10...+40 °C (14...104 °F) (-20...+55 °C [-4...131 °F]) -40...+85 °C (-40...+185 °F)			
Relative humidity	5...95% noncondensing					
IP rating	IP20	IP66 and IP67	IP50 (without shaft seal), IP66, IP67 (with shaft seal)			
Weight, kg (lb) approx	1.98 kg (4.37 lb)	2.10 kg (4.63 lb)	2.50...5.00 kg (5.51...11.02 lb)	4.00...7.00 kg (8.81...15.43 lb)	5.50...8.50 kg (12.13...18.74 lb)	8.50...15.00 kg (18.74...33.07 lb)
UL Type	—	Type 1	Type 1			
Short-circuit current rating	50 kA DC					
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.					

Certifications

Rating	PIM	DSD	DSM
UL	UL61800-5-1 second edition NMMS:E59272		
CE	LV Directive 2014/35/EU, EMC Directive 2014/30/EU, Machinery Directive 2006/42/EC, RoHS Directive 2011/65/EU		
Functional Safety	—	TÜV Certified for Functional Safety: up to SIL CL3, according to IEC 61800-5-2, IEC 61508, and IEC 62061; up to Performance Level PLc and Category 3, according to ISO 13849-1; when used as described in the Armorkinetix System User Manual, publication 2198-UM006 or the Kinetix 5700 Safe Monitor Functions Safety Reference Manual, publication 2198-RM001	For ST0 and SS1: TÜV Certified for Functional Safety: up to SIL CL3, according to IEC 61800-5-2, IEC 61508, and IEC 62061; up to Performance Level PLc and Category 3, according to ISO 13849-1; when used as described in the Armorkinetix System User Manual, publication 2198-UM006 or the Kinetix 5700 Safe Monitor Functions Safety Reference Manual, publication 2198-RM001 For Monitoring Function: TÜV Certified for Functional Safety: up to SIL CL2, according to IEC 61800-5-2, IEC 61508, and IEC 62061; up to Performance Level PLd and Category 3, according to ISO 13849-1; when used as described in the Armorkinetix System User Manual, publication 2198-UM006 or the Kinetix 5700 Safe Monitor Functions Safety Reference Manual, publication 2198-RM001
KCC	Korean Registration of Broadcasting and Communications Equipment, compliant with: KCC-REM-RAA-2198	KCC-REM-RAA-2198	R-R-RAA-DSM
Regulatory compliance mark (RCM)	Radiocommunications Act:1992 (including Amendments up to 2018) Radiocommunications (Electromagnetic Compatibility) Standard 2017 Radiocommunications Labeling (Electromagnetic Compatibility) Notice 2017		
UKCA	2016 No. 1101 Electrical Equipment (Safety) Regulations (LV) 2016 No. 1091 Electromagnetic Compatibility Regulations (EMC) 2008 No. 1597 Supply of Machinery (Safety) Regulations (MD) 2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS)		
Morocco	Arrêté ministériel n° 6404-15 du 1 er muharram 1437 (15 octobre 2015) Arrêté ministériel n° 6404-15 du 29 ramadan 1436 (16 juillet 2015)		
ODVA	- EtherNet/IP conformance tested - IP Security™ conformance tested		
Ecodesign	Ecodesign Directive 2009/125/EC as implemented by Commission Regulation (EU) 2019/1781		

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
ArmorKinetix 2090 Cables and Terminators, publication 2090-IN053	Provides wiring and installation information for ArmorKinetix 2090 cables, connectors, and terminators.
ArmorKinetix System User Manual, publication 2198-UM006	Provides information to install, configure, start, and troubleshoot your ArmorKinetix system.
Kinetix 5700 Servo Drive User Manual, publication 2198-UM002	Provides information to install, configure, start, and troubleshoot your Kinetix 5700 servo drive.
Kinetix 5700 Safe Monitor Functions Safety Reference Manual, publication 2198-RM001	Provides a description of integrated stopping functions and safe monitoring functions with a Logix 5000® controller and Kinetix 5700 servo drives.
Kinetix 5700, 5500, 5300, 5100 Servo Drives 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 Technical Data, publication KNX-TD004	Product specifications for Kinetix 2090 motor and interface cables.
Kinetix Servo Drive Performance Specifications per Ecodesign Regulation (EU) 2019/1781 technical data, publication KNX-TD006	Provides energy efficiency performance data for Rockwell Automation Kinetix Servo drives. This data supports IE2 compliance of Kinetix Servo drives per EU 2019/1781.
Kinetix 5700 Drive Systems, 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.
Kinetix 5700 DC-bus Link Kits Installation Instructions, publication 2198-IN007	Provides installation instructions for the DC-bus link.
EtherNet/IP Network Devices User Manual, ENET-UM006	Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.
Ethernet Reference Manual, ENET-RM002	Describes basic Ethernet concepts, infrastructure components, and infrastructure features.
American Standards, Configurations, and Ratings: Introduction to Motor Circuit Design, publication IC-AT001	Provides an overview of American motor circuit design based on methods that are outlined in the NEC.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-1.1	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
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.

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

Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

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.

Rockwell Otomasyon Ticaret A.Ş. Kar Plaza İş Merkezi E Blok Kat:6 34752, İçerenköy, İstanbul, Tel: +90 (216) 5698400 EEE Yönetmeliğine Uygundur

Connect with us.    

rockwellautomation.com — expanding human possibility®

AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

UNITED KINGDOM: Rockwell Automation Ltd. Pitfield, Kiln Farm Milton Keynes, MK11 3DR, United Kingdom, Tel: (44)(1908) 838-800, Fax: (44)(1908) 261-917

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