MELTRIC

DR/DR7c
USER INFORMATION

MELTRIC CORPORATION
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©9/30/26 INSDR/DR7 C

	AWG	in	in	in-lbs	tool size
DR30	14 - 8 14	5/8" 5/8"	7/8" 15/16"	15 13	3/16"
DR50	14 - 4 14	3/4" 5/8"	7/8" 5/8"	15 7	3/16" 1/8"
DR100	10 - 2 14*	1-3/16" *	1-5/16" *	48 *	4mm
DR150	4 - 2/0 14*	1-3/8" *	1-1/4" *	90 *	4mm
DR250	4 - 4/0 14*	1-9/16" *	1-9/16" *	110-133 *	5 mm
DR400	2-350 MCM 14*	3" *	3" *	70-90 *	4 mm
DR7c	14-8 14	3/4" 9/16"	1-1/4" 7/16"	16 16	1/8"

*pre-wired/ pré-câblé/precableado.

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MODE D' EMPLOI

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PÁGINAS DEL CATÁLOGO

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- CÓMO CONECTAR Y DESCONECTAR 150-200 A
- CÓMO HACER EL CAMBIO de MOTOR
- CÓMO ALAMBRAR EL DISPOSITIVO
- KIT DE COMPATIBILIDAD DE ENTRADA DR400

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ENGLISH OPERATING INSTRUCTIONS

DR/DIR7C

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Disclaimer: MELTRIC reserves the right to make current product designs and specifications within any product purchased prior to the date noted on this document, without prior notification, if the changes improve the operation of the product or make it more cost effective.

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A manufacturer of products using MARS-MATRIX TECHNOLOGY

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MELTRIC
A CUSTOMER OF A MARSHALL BUSINESS

INSTRUCTIONS

MODE D'EMPLOI

1 Short Circuit Withstand Rating

Device	Fuse Rating	Type*
DR10 50 A	10 kA @ 500 VAC	RK1 50 A
		RK5 50 A
DR50 50 A	100 kA @ 500 VAC	RK1 50 A
		RK5 50 A
DR100 100 A	100 kA @ 500 VAC	RK1 100 A
		RK5 100 A
DR250 250 A	100 kA @ 500 VAC	RK1 250 A
DR250 250 A	10 kA @ 500 VAC	RK1 250 A
DR250 250 A	100 kA @ 500 VAC	RK1 250 A
DR75 50 A	10 kA @ 500 VAC	RK1 60 A
DR75 50 A	100 kA @ 500 VAC	RK1 60 A

* Fuses must be time delay type. Short circuit testing has been performed with Bussmann time delay current limiting fuses.

2 Terminal Capacity

All DR devices are rated to withstand short circuit currents with appropriate fuses as indicated in Table 1.

3 Installation

DR devices are intended to be installed by qualified electricians in accordance with all applicable local and national electrical codes.

Wire size, insulation, and torque for the DR terminals are indicated in the appropriate sections of this document. Wire size and insulation requirements are also specified and within the capacities of the terminals listed in Table 2.

Table 3 - Wiring Terminal Capacity* (In AWG)

Device	Wire Size Range	Jaw Opening Dimension
	Min/ Max	Max
DR10	14 / 4	14
DR50	14 / 4	14
DR100	14 / 4	14
DR250	4 / 4/0	14*
DR250	4 / 4/0	14*
DR75	14 / 4	14

* Unless otherwise noted, devices are expected to fit single stranded conductors.
Stranded contacts are optional and may not be all products.
* Auxiliary contacts are standard on DR75.
* Use with 75 °C wire.
* Stranding Class B and C only.

General Notes & Precautions

1. Self-tapping screws are provided for use with some pyrotechnic accessories. High torque may be required to drive them in. Once they are seated, care should be taken not to strip the threads. Replacement of the screws may be required if damaged.
2. Various handles and cord grip options may be used. These instructions are intended to be generic in nature. Refer to specific handle instructions.
3. Maximum wire strip lengths are indicated in Table 4. Strip lengths for cable shielding should be kept to a minimum. Care should be taken to ensure that cable shielding should extend into the handle to ensure secure strain relief.

Table 4 - Wire Strip Lengths - Dimensions A

Device/Contact	Receptacle		Plug/Inlet	
	mm	Inches	mm	Inches
DR10 Power	5/6	1/4	7/8	22
	Aux#	Aux#	Aux#	Aux#
DR50 Power	3/4	1/8	7/8	22
	5/6	1/4	7/8	22
DR100 Power	5/6	1/4	7/8	22
DR100 Power	1-1/8	3/4	1-1/4	33
DR250 Power	1-1/8	3/4	1-1/4	33
DR400 Power	2	78	3	76
DR75 Power	5/6	1/4	7/8	22
DR75 Aux*	3/4	1/8	7/8	22

* Aux are single leaders with a 1 mm diameter tolerance (single leads based on conductor size). Stranded conductors are optional and may not be all products. Stranded conductors are expected to fit within the specified strip length.

4. Wiring terminals are spring assisted to prevent loosening due to wire strand settlement, vibration and thermal cycling. Wire Strip Length is the length of wire to be inserted. Appropriate tools and tightening torques are indicated in Table 5.
5. Terminals are intended for use with one conductor per terminal. **MELTRIC** recommends one conductor per wire. Contact **MELTRIC** for more information.
6. Wire insertion force is approximately 10 Newtons for 1 mm diameter wire. Wire insertion force will increase with wire size. The use of Wiring Jaw Tool is recommended to maintain wiring/insertion of all AWG wires up to 14 AWG.

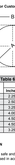
Table 5 - Terminal Screw Tightening Torques

Device/Contact	Lb in	N-m
DR10 Power	5	0.6
DR50 Power	5	0.6
DR100 Power	5	0.6
DR250 Power	10-15	1.2-1.6
DR400 Power	10-15	1.2-1.6
DR75 Power	5	0.6
DR75 Aux	5	0.6

Assembly for In-Line Connections

Use the appropriate tools and safeguards when tightening screws. Tighten screws to the proper torque to ensure a secure connection.

Use the appropriate tools and safeguards when inserting. Finger dexterity (or a chamfered mechanical tool) is required to insert the wire into the receptacle. Use a jig or tool for the user to more easily provide the leverage required to connect the device.



For poly handles with strain relief, adjust the bushing diameter to fit the cable by removing inner sections of the bushing as required. Insert the bushing into the strain relief. Insert the cable through the bushing and the strain relief. Insert the compression washer. Insert the cable through the handle. Insert the color-coded receptacle and finger dexterity if applicable and the color coded jacket. Strip the cable sheath to the appropriate length. Insert the cable into the receptacle. Tighten the bushing to provide a secure cable cord grip. The color coded receptacle is the single inductive **1** tube and feed the sheath of each conductor together.

Use the appropriate tools and safeguards when tightening the strain relief. Tighten the bushing to provide a secure cable cord grip. Tighten the strain relief to the recommended torque specifications and tighten the terminal screws to the recommended torque specifications.

Verify that the cable sheath extends beyond the strain relief and into the handle. Tighten the strain relief to provide a secure cable cord grip. Tighten the terminal screws to the torque specifications listed in Table 5 to ensure a secure connection. Tighten the handle to provide a secure connection. Tighten the handle to provide a secure connection.

Assembly for Panel Connections

Use the appropriate tools and safeguards when mounted to wall boxes, panels or other equipment. Optimal operation is achieved when the device is installed with the latch at the top.

4 Operation

1. To ensure safe and reliable operation **MELTRIC** plugs and receptacles shall be used in accordance with their assigned ratings.
2. **MELTRIC** plugs and receptacles are designed with mating receptacles or plugs manufactured by **MELTRIC** or another licensed producer of products using **MARS-MATRIX TECHNOLOGY**.
3. **MELTRIC** plugs and receptacles are designed for use in various mounting arrangements, so that plug and receptacles with compatible contact arrangements can be used in a wall box or panel with each other.
4. Connect:

Connect a plug and receptacle. Not depress the latch to open the lid on the receptacle and insert the plug into the receptacle. Align the plug with the two outside of the catalog lines up with the red dot just to the left of the latch on the receptacle. Insert the plug into the receptacle. Depress the latch to open the receptacle lid. Align the plug with the two outside of the catalog lines up with a line another step after about 30° of rotation.

Rotate the plug in the receptacle. Continue rotating plug straight into the receptacle until it stops or hits the other end of the receptacle. **Connections with dropouts.** Separate the dropouts on both sides of the device together until the plug latches in place.

On the DR100, DR250 & DR400 devices, an integral mechanism provides easy connection of the plug to the receptacle. With the DR100, DR250 & DR400 devices, the mechanism is used to pull the plug into the receptacle and disconnect it. Hook the clamps around the sections as shown in figure 2B.

To pull the plug into the receptacle, simply push the handles back along the side of the receptacle and then push the plug into the receptacle until the plug is seated in the receptacle. Pull back on the handles to disconnect the plug. Pull the mechanism back to release the plug and disconnect the plug.

KEY FEATURE

Disconnection

To break the connection, simply depress the panel as shown in figure 3B. This will break the circuit and apply the plug latch to the top of the receptacle. The plug contacts are de-energized at this point. To remove the plug, simply continue pushing the plug out of the receptacle. Depress the separator as shown in figure 3B. Close and latch the lid on the receptacle.

Lockout Provisions

MELTRIC receptacles are provided with lockout provisions. To lockout the plug, insert a lockout pin into the lockout provisions on the receptacle. This will prevent the plug from being inserted into a receptacle.

Some receptacles may be purchased with optional lockout provisions and used with 5/16-inch shackle locks. To lockout the receptacle, close and latch the lid and insert the shackle of the lock into the provisions on the lid and the body. This will prevent the lid from being opened and the receptacle from being used of plug.

NOTICE: Attaching the receptacle locking device with the receptacle lid open will prevent the lid from being closed. Ensure that the receptacle lid is closed and latched when the lid is locked closed.

5 Microswitch Option

MELTRIC Corporation's Microswitch Assembly is rated 5.25V VAC maximum and 100 mA maximum. The Microswitch Assembly is designed for Low Signal (LS) contacts and not normally closed (NC) contacts. It can be used as an indicating circuit to show the receptacle or line side of the circuit only. Contact **MELTRIC** for more information.

Verify that the mounting screw is tightened to the recommended torque listed mechanism and not by the terminal screws.

- Check the 2 ground pins are fully engaged before power is required.
- Verify the electrical continuity of the ground circuit.
- Verify the correct surface finish is applied.

Depends of load or similar heavy mechanical loads can be rubbed off the contacts. Check the finish of the contacts and the finish of the mating contacts. Check the contacts for signs of rubbing. Check the contacts for signs of rubbing. Check the contacts for signs of rubbing. Check the finish of the contacts. Check the finish of the contacts. Check the finish of the contacts

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Ce manuel d'instructions présente les caractéristiques et spécifications techniques du produit MELTRIC, ainsi que les informations nécessaires à son installation et à son utilisation. Veuillez conserver MELTRIC pour utiliser ce document ultérieurement.
Ce manuel d'instructions présente les caractéristiques et spécifications techniques du produit MELTRIC, ainsi que les informations nécessaires à son installation et à son utilisation. Veuillez conserver MELTRIC pour utiliser ce document ultérieurement.

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INSTRUCTIONS
INSTRUCTIONS
INSTRUCCIONES

■ RENSEIGNEMENTS GÉNÉRAUX

La ligne de prises industrielles DR et DR7C **MELTRIC** est conçue pour assurer la sécurité des utilisateurs et la flexibilité des connexions. Veuillez suivre les instructions ci-dessous pour garantir une installation et une utilisation sûres et efficaces.

AVERTISSEMENT Les produits décrivés présentent des dangers internes. Ne pas ouvrir ni modifier les produits. Ne pas exposer à des liquides ou à des brouillards salins. Ne pas utiliser des instructions décrites dans ce manuel pour des applications pour lesquelles **MELTRIC** n'a pas été consultée. Ne pas dépasser les valeurs nominales. Ne pas dépasser les valeurs d'alimentation ou circuit d'entraînement du circuit d'entraînement ou toutes d'électrocution.

■ CLASSIFICATIONS

Tous les appareils DR sont conçus pour résister à des courants de court circuit élevés. Avec fusion auxiliaire, voir tableau 1 ci-dessous.

Tableau 1 – Short Circuit Resistant Rate

Appareil	Courant	Tension
DR/DR7C 32 A	100 kA @ 480 VAC	32 A, 480 VAC
DR/DR7C 100 A	100 kA @ 480 VAC	100 A, 480 VAC
DR/DR7C 175 A	100 kA @ 480 VAC	175 A, 480 VAC
DR/DR7C 150 A	65 kA @ 800 VAC	150 A, 800 VAC
DR/DR7C 175 A	65 kA @ 800 VAC	175 A, 800 VAC
DR/DR7C 400 A	14 kA @ 800 VAC/DC	400 A, 800 VAC
DR/DR7C 175 A	14 kA @ 1500 VAC/DC	175 A, 1500 VAC

* Valeurs Rating Fuss jusqu'à un ampérage fusion. Les courants seuil basées sur les valeurs de fusibles. Les valeurs de fusibles sont basées sur les valeurs de fusibles Bussmann.

Les produits de DR sont fabriqués en conformité et classé UL et CSA avec certification en attente. Les produits DR7C sont conformes à la norme IEC 60309-2 et sont conformes à la norme UL 1686 et CSA C22.2 n° 182.3. Des spécifications optionnelles peuvent exister pour certains contacts de prises. Les notes ci-dessous sont applicables à toutes les prises DR et DR7C.

Tableau 2 - Cotes de contacts auxiliaires

Appareil	Cotes de contacts auxiliaires
DR/DR7C 32 A	2 A, 2 A
DR/DR7C 100 A	2 A, 2 A
DR/DR7C 175 A	2 A, 2 A
DR/DR7C 150 A	2 A, 2 A
DR/DR7C 175 A	2 A, 2 A
DR/DR7C 400 A	1.5 A, 1.5 A
DR/DR7C 175 A	1.5 A, 1.5 A

* Cotes non homologué UL ou CSA.

■ INSTALLATION

Ces produits doivent être installés par un électricien qualifié, dans le respect de la loi en vigueur et des normes locales en vigueur.

Avant de commencer l'installation, assurez-vous que l'alimentation électrique est coupée, que le cadenas (non inclus) est appliqué et que les bornes et les contacteurs latéraux sont neufs ou cotés et qu'ils ne dépassent pas la valeur nominale du contacteur.

Tableau 3 - Capacité de bornes de raccordement

Device	Contactor Cable Size		Wire Size
	Min	Max	Max
DR32	6	10	10
DR100	10	2	1/0
DR175	10	2	1/0
DR150	2	4/0	1/0
DR175	2	4/0	1/0
DR400	4/0	4/0	1/0
DR175	2	4/0	1/0

* Le tableau ci-dessus indique les dimensions maximales et minimales de la borne de raccordement du contacteur. Le câble de terre doit être dimensionné en fonction d'un ou jusqu'à la taille du câble de phase.

Tableau 4 – Longueurs de fil à dénuder - Dimensions A

DispositifCircuit	Prise		Fiche	
	pouces	mm	pouces	mm
DR32	Phase	5/8	15	5/8	15
	Terre	5/8	15	5/8	15
DR100	Phase	1	25	1	25
	Aux	5/8	15	5/8	15
DR150	Phase	1 1/4	32	1 1/4	32
DR150	Phase	1.25	32	1.125	32
DR175	Phase	1.25	32	1.125	32
DR175	Phase	1.25	32	1.125	32
DR175	Phase	3/4	19	1-1/4	31
DR400	Phase	1 1/4	32	1 1/4	32

* Les bornes de contacteurs latéraux ne doivent pas dépasser la longueur de la formation d'un jeu lorsque par le déplacement des bornes des câbles, les bornes de contacteurs latérales ne doivent pas dépasser la longueur de la formation d'un jeu lorsque par le déplacement des bornes des câbles, les bornes de serrage appropriées.

* Les bornes auxiliaires ne doivent pas excéder plus les conducteurs en cuivre (Cu), sur une conducteur par borne.

■ MISE EN SERVICE ET MAINTENANCE

Retirez le capuchon. L'utilisation du rotor d'interrupteur pour maintenir l'interrupteur en place. Ne pas utiliser **MELTRIC** pour mettre en marche.

Tableau 5 - Couple de serrage des bornes de connectement

DispositifCircuit	Terminal Screw Size	Torque	Torque
		po-lbs	N-m
DR32	Phase	5/8	15	5/8	15
	Terre	5/8	15	5/8	15
DR100	Phase	1	25	1	25
	Aux	5/8	15	5/8	15
DR150	Phase	1 1/4	32	1 1/4	32
DR150	Phase	1.25	32	1.125	32
DR175	Phase	1.25	32	1.125	32
DR175	Phase	1.25	32	1.125	32
DR175	Phase	3/4	19	1-1/4	31
DR400	Phase	1 1/4	32	1 1/4	32

Assemblage pour montage en série

Ajouter jusqu'au nombre de prises souhaité et les vis supplémentaires. Serrer les vis au couple approprié pour assurer une bonne connexion. Pour l'utilisation de plusieurs prises, ajouter des prises supplémentaires. Pour ajouter des prises, ajouter des prises supplémentaires. Pour ajouter des prises supplémentaires, ajouter des prises supplémentaires. Pour ajouter des prises supplémentaires, ajouter des prises supplémentaires.

Réglez la clavette de l'embout à vis du câble en retirant des rondelles élastiques du boîtier. Insérez le câble dans le boîtier et le boîtier. Insérez l'assemblage dans la pognée, puis ensuite installer l'écrou de compression sur le boîtier. Serrez l'écrou de compression à la main jusqu'à ce que le joint d'étanchéité soit en place. Le joint doit se déployer et ne pas se plier. Serrez suffisamment le gant pour déployer le joint d'étanchéité. Ne pas serrer trop fort

DR/DR7C

DB3620005 MELTRIC Revision date: 2022-01-17 INS20007 C

*Este manual de instrucciones representa los diseños y clasificaciones más recientes en la fecha de publicación. Es posible que haya unidades que no estén indicadas en este documento, por favor contacte a **MELTRIC®** para obtener las instrucciones adicionales de cuando compró su producto.*

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INSTRUCCIONES

MODE D'EMPLOI

1 GENERALIDADES

Este manual de instrucciones describe las características de los Transceptores y Detectores de Tierra de Fuga de rango dinámico para mantener la protección diferencial en sistemas de tierra de fuga.

Para leer, grabar, ajustar y operar estos controles de las maniobras del rango dinámico, por favor consulte la sección de Operación de este manual.

Para ajustar, grabar y operar estos controles de las maniobras del rango dinámico, por favor consulte la sección de Operación de este manual.

2 ADVERTENCIA

Estas instrucciones deben ser instaladas por electricistas calificados, cumpliendo con todos los códigos nacionales y locales de cableado aplicables y/o requeridos.

Antes de trabajar, verifique que el circuito no esté energizado, que el rango del transceptor o detector de tierra de fuga sea el correcto para su aplicación y que su conexión sea la correcta.

Si el transceptor o detector de tierra de fuga no funciona de acuerdo con estas instrucciones, el equipo puede no ofrecer la protección adecuada.

Si el rango del transceptor o detector de tierra de fuga no es el correcto, los terminales se notan en la Tabla 4, este rango dependerá de la aplicación y puede ser de 0.5 A, 1 A, 3 A, 10 A, 30 A, 100 A, 300 A, 1000 A, 3000 A, 10000 A, 30000 A, 100000 A, 300000 A, 1000000 A, 3000000 A, 10000000 A, 30000000 A, 100000000 A, 300000000 A, 1000000000 A, 3000000000 A, 10000000000 A, 30000000000 A, 100000000000 A, 300000000000 A, 1000000000000 A, 3000000000000 A, 10000000000000 A, 30000000000000 A, 100000000000000 A, 300000000000000 A, 1000000000000000 A, 3000000000000000 A, 10000000000000000 A, 30000000000000000 A, 100000000000000000 A, 300000000000000000 A, 1000000000000000000 A, 3000000000000000000 A, 10000000000000000000 A, 30000000000000000000 A, 100000000000000000000 A, 300000000000000000000 A, 1000000000000000000000 A, 3000000000000000000000 A, 10000000000000000000000 A, 30000000000000000000000 A, 100000000000000000000000 A, 300000000000000000000000 A, 1000000000000000000000000 A, 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