

# DR50 Standard Duty Plugs & Receptacles – 50 A

## UL/CSA Ratings

- Max Amperage & Voltage**  
 50 A, 600 VAC
- Current Interruption Capability**  
 For current interrupting up to 250 VAC  
 For Switch-Rated devices, see DS & DSN sections.
- Short Circuit Rating**  
 100kA  
 Testing was performed with RK1 current limiting fuses sized at least 100% of the devices ampacity rating.
- Environmental Ratings**  
 Type 3R (Standard)  
 Type 4X (Optional)
- Temperature Range**  
 Min -40°F / Max 140°F  
 See pg 258 for temps below -15°F.
- Wiring Capacity**  
 Min 12 AWG Max 4 AWG  
 Aux Contacts - Max 14 AWG  
 Based on THHN wire sizes
- Certifications**  
 UL 1682, CSA 182.1

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	31-34235-K16	31-38235-K16
120 208V	3P+N+G	31-34237-K16	31-38237-K16
125V	1P+N+G	31-34175-K07	31-38175-K07
125 250V	2P+N+G	31-34176-K07	31-38176-K07
208V	2P+G	31-34232-K16	31-38232-K16
208V	3P+G	31-34233-K16	31-38233-K16
250V	2P+G	31-34172-K07	31-38172-K07
250V	3P+G	31-34173-K07	31-38173-K07
277V	1P+N+G	31-34245-K04	31-38245-K04
277 480V	3P+N+G	31-34247-K04	31-38247-K04
347 600V	3P+N+G	31-34187-K14	31-38187-K14
480V	2P+G	31-34242-K04	31-38242-K04
480V	3P+G	31-34243-K04	31-38243-K04
600V	2P+G	31-34182-K14	31-38182-K14
600V	3P+G	31-34183-K14	31-38183-K14

## Main Options



**Auxiliary/Pilot Contacts**



**Mushroom Pawl**



**Padlock Pawl**



**Closed Lid Configuration**

Recommended for cord applications to keep lid tucked in to avoid damage.

## Receptacle Options

## Suffix #

## Inlet Options

## Suffix #

With 2 Auxiliary/Pilot Contacts	<b>Recept # - 972</b>	With 2 Auxiliary/Pilot Contacts	<b>Inlet # - 972</b>
With 3 Auxiliary/Pilot Contacts	<b>Recept # - 973</b>	With 3 Auxiliary/Pilot Contacts	<b>Inlet # - 973</b>
With 4 Auxiliary/Pilot Contacts	<b>Recept # - 974</b>	With 4 Auxiliary/Pilot Contacts	<b>Inlet # - 974</b>
Type 4X & Closed Lid Configuration	<b>Recept # - 4X</b>	Type 4X Watertightness	<b>Inlet # - 4X</b>
Mushroom Pawl	<b>Recept # - 375</b>	With No Lockout Hole	<b>Inlet # - A155</b>
Padlock Pawl	<b>Recept # - 843</b>	For Auxiliary Switch	<b>Inlet # - NNF*</b>
Padlockable Mushroom Pawl	<b>Recept # - 375-843</b>		
Screw-Type Locking Pawl	<b>Recept # - 845</b>		
Metal Pawl (on poly receptacle)	<b>Recept # - 824</b>		
Closed Lid Configuration	<b>Recept # - NC</b>		
With Auxiliary Switch	<b>Recept # - 270+</b>		

**Notes:** \* Order inlet with P+N+G configuration and receptacle with P+G configuration.

**Notes:** + Not UL/CSA listed.





**!** See pages 235-244 for detailed information on these options

**Order Example: 480V DR50 + 2 auxiliary contacts**  
 DR50 Poly inlet 3P+G = 31-38243-K04-972


# INSTALLATION ACCESSORIES – SIZE 3


Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.


**HANDLES**


HANDLE w/NPT	Part # Poly	Part # Metal
 Poly 1/2"	<b>513P0N05</b>	<b>593P0N05</b>
 Poly 3/4"	<b>513P0N07</b>	<b>593P0N07</b>
 Poly 1"	<b>513P0N10</b>	<b>593P0N10</b>
 Metal 1 1/4"	<b>513P0N12</b>	<b>593P0N12</b>

For available cord grips, see page 167.


POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.520 - .680"	<b>713P0CP5</b>
	.680 - .980"	<b>713P0DP4</b>
	.980 - 1.260"	<b>713P0EP4</b>

METAL HANDLE w/CORD GRIP	Cable Range	Part #
	.625 - .750"	<b>793P0CS4</b>
	.750 - .875"	<b>793P0DS1</b>
	.875 - 1.000"	<b>793P0DS3</b>
	1.000 - 1.125"	<b>793P0ES2</b>

POLY HANDLE	Cable Range	Part #
	.39 - 1.18"	<b>513P0D30</b>



POLY HANDLE w/BUILT IN DRAW GRIPS	Cable Range	Part #
	.39 - 1.18"	<b>513P0D30473</b>


Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING	Cable Range	Part #
	.750 - .875"	<b>713P0S14</b>
	.875 - 1.000"	<b>713P0S16</b>
	1.000 - 1.125"	<b>713P0S18</b>
	1.125 - 1.250"	<b>713P0S20</b>
	1.250 - 1.375"	<b>713P0S22</b>


**ANGLES**

POLY ANGLE	Angle	Part #
	30°	<b>513M3</b>
	70°	<b>513M7</b> Panel mounting only.


METAL ANGLE	Angle	Part #
	0°	<b>593M0</b>
	30°	<b>593M3</b>

METAL ANGLE	Angle	Part #
	FS/FD Box 30°	<b>793M3FS</b>

\* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.


METAL ANGLE	Angle	Part #
	70°	<b>593M7</b>

**BOXES**

POLY CONDUIT ENTRY w/NPT	Angle	Size	Part #
	30°	3/4"	<b>513B3N07</b>
	30°	1"	<b>513B3N10</b>


\* 13.5 in<sup>3</sup>


For poly devices only  
\* Interior volume with receptacle installed.

POLY WALL BOX w/ANGLE	Angle	Part #
	70°	<b>513C7000</b>

\* 179.41 in<sup>3</sup>

70° poly boxes are not drilled. Contact Customer Service if factory drilling is required.  
\* Interior volume with receptacle installed.


GROUND BAR	Part #
	<b>51AA089</b>

POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #
	70°	1/2"	<b>713C7N05</b>
	70°	3/4"	<b>713C7N07</b>
	70°	1"	<b>713C7N10</b>
	70°	1 1/4"	<b>713C7N12</b>
	70°	1 1/2"	<b>713C7N15</b>

\* 177.7 in<sup>3</sup>

\* Interior volume with receptacle installed.

METAL BOX w/NPT	Angle	Size	Part #
	0°	1/2"	<b>7T1F0N05</b>
	0°	3/4"	<b>7T1F0N07</b>
	0°	1"	<b>7T1F0N10</b>
	0°	1 1/4"	<b>7T1F0N12</b>


POLY ANGLE WITH METAL BOX w/NPT	Angle	Size	Part #
	30°	1/2"	<b>713C3N05</b>
	30°	3/4"	<b>713C3N07</b>
	30°	1"	<b>713C3N10</b>
	30°	1 1/4"	<b>713C3N12</b>


\* 29.6 in<sup>3</sup>

For metal angle, replace "71" prefix with "79".  
\* Interior volume with receptacle installed.

NPT on top or bottom (if rotated). For other NPT configurations, contact Customer Service.

**MISCELLANEOUS ACCESSORIES**


FINGER DRAWPLATES	Part #	Description
	<b>61-6A346</b>	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP	Part #	Description
	<b>31-3A426</b>	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	Part #	Description
	<b>DS3PC</b>	Poly - For Inlets/Plugs Only.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	Part #	Description
	<b>31-3A226</b>	For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

EASY RETROFIT ADAPTER PLATES	Part #	Description
	see pg 164	Mount to existing boxes.

RECEPTACLE LOCKING PIN	Part #	Description
	<b>LP-843</b>	Requires Padlockable Pawl option (-843) on receptacle.