New Product Announcement

DSN100

Issue date: 19 April 2022

New Product Description

Effective April 19, 2022, MELTRIC's brand new DSN100 plug and receptacle will be available for purchase. This new model is a Switch-Rated, 100 A, 600 VAC plug and receptacle fitted with DECONTACTOR™ technology for peak performance and user safety.

The DSN100 has the same great features and benefits as other DSN Series Switch-Rated models. The DSN Series ratings range from 20-150 A and .75-75 hp. All models are 100 kA short circuit rated for maximum protection and have ingress protection ratings of 4X/IP69/IP69K protecting the internal electrical components from dust, liquids, high water pressure, and high temperature. Auxiliary contacts can be added on each DSN model to control auxiliary equipment, monitor process parameters, and/or communicate alarms without the need for secondary connectors. All of these benefits are wrapped up in a compact light-weight design with a fiberglass reinforced thermoplastic polyester casing that is resistant to impact, corrosion, and harsh environmental conditions (metal casings are also available for the DSN100 and DSN150 models).

Catalog pages 33-34 are available on the MELTRIC website at **meltric.com**.

FAQs

Is it IP69K?

Yes, the DSN100 meets the IP69k environmental rating as well as 4X, IP69, IP66, and IP67 ratings.

What is the horsepower rating?

The DSN100 is rated:

5 hp @ 120 V 1Ø	20 hp @ 240 V 3Ø
10 hp @ 240 V 1Ø	50 hp @ 480 V 3Ø
20 hp @ 208 V 3Ø	50 hp @ 600 V 3Ø

100 kA short circuit make and withstand?

Testing was performed on the DSN100 with RK1 current limiting fuses sized at 400% or more of the highest full load motor ampacity associated with the device's horsepower ratings.

Does the DSN100 mirror all of the advantages of other DSN models?

Yes, the DSN100 is no exception to DSN Series benefits. The DSN Series advantages are Switch & hp rated, 100 kA short circuit rated, Type 4X/IP69/IP69K and IP66/IP67 environmental ratings, compact, lightweight design, and up to 4 auxiliary contacts.

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FAQs (cont.)

Is the DSN100 available in both a poly and metal casing?

Yes, you can choose either poly or metal casings for this model.

Does the DSN100 inter-connect with the DS100C?

No, the DSN100 does not inter-connect with the DS100C.

Is the DSN100 smaller or larger than the DS100C?

The DSN100 and DS100C are the same size.

I have other questions. Is there someone I can call for product information?

Yes, live-by-phone Customer Service and Engineering support are available Monday through Friday from 7:00AM-5:00PM Central Time.

Call 414-433-2700 for assistance. The MELTRIC website is another great resource for product information, application solutions, brochures, and catalogs. It is available 24/7/365 at **meltric.com**.

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DSN100 Switch-Rated Plugs & Receptacles – 100 A

NEW!

Receptacle (female)

Inlet (male)

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

UL/CSA Ratings

- **Max Amperage & Voltage**
  100 A, 600 VAC

- **Switch-Rating (AC Only)**
  Branch Circuit & Motor Circuit Disconnect Switching

- **Horsepower Ratings**

120 V	1Ø	5 hp
240 V	1Ø	10 hp
208 V	3Ø	20 hp
240 V	3Ø	20 hp
480 V	3Ø	50 hp
600 V	3Ø	50 hp

- **Short Circuit Rating**
  100 kA Close & Withstand
  Tested with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity.

- **Environmental Ratings**
  Type 4X/IP69/IP69K*
  *Also meets IP66/IP67 requirements.

- **Temperature Range**
  Min -40°F/Max 140°F
  See pg 266 for temps below -15°F.

- **Wiring Capacity**
  Min 10 AWG Max 2 AWG
  Aux Contacts - Max 14 AWG

- **Certifications**
  UL 2682, UL 1682, CSA 182.1

North American UL/CSA Configurations

Voltage	Polarity	Part # Poly	Part # Metal	Part # Poly	Part # Metal
120 V	1P+N+G	63-84165	69-84165	63-88165	69-88165
120 208 V	3P+N+G	63-84167	69-84167	63-88167	69-88167
125 V	1P+N+G	63-84075	69-84075	63-88075	69-88075
125 250 V	2P+N+G	63-84076	69-84076	63-88076	69-88076
208 V	2P+G	63-84162	69-84162	63-88162	69-88162
208 V	3P+G	63-84163	69-84163	63-88163	69-88163
250 V	2P+G	63-84072	69-84072	63-88072	69-88072
250 V	3P+G	63-84073	69-84073	63-88073	69-88073
277 V	1P+N+G	63-84045	69-84045	63-88045	69-88045
277 480 V	3P+N+G	63-84047	69-84047	63-88047	69-88047
347 600 V	3P+N+G	63-84147	69-84147	63-88147	69-88147
480 V	2P+G	63-84042	69-84042	63-88042	69-88042
480 V	3P+G	63-84043	69-84043	63-88043	69-88043
600 V	2P+G	63-84142	69-84142	63-88142	69-88142
600 V	3P+G	63-84143	69-84143	63-88143	69-88143

For international configurations and ratings (IEC,CE) visit meltric.com/international-catalog or contact Customer Service at 800-433-7642.

Main Options

Auxiliary/Pilot Contacts

Mushroom Pawl

5/16" hole

Padlock Pawl

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

! See pages 243-252 for detailed information on these options

Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # -972	With 2 Auxiliary/Pilot Contacts	Inlet # -972
With 3 Auxiliary/Pilot Contacts	Recept # -263	With 3 Auxiliary/Pilot Contacts	Inlet # -263
With 4 Auxiliary/Pilot Contacts	Recept # -264	With 4 Auxiliary/Pilot Contacts	Inlet # -264
Straight Insertion	Recept # -352~	Self-Ejecting Plug Release**	Inlet # -338
Self-Ejecting Connector Release**	Recept # -354~	With No Lockout Hole	Inlet # -A155
Mushroom Pawl	Recept # -375	For Auxiliary Switch	Inlet # -270+
Padlock Pawl	Recept # -843		
Padlockable Mushroom Pawl	Recept # -375-843		
Screw-Type Locking Pawl	Recept # -845		
Metal Pawl (on Poly Receptacle)	Recept # -824		
Closed Lid Configuration	Recept # -NC		
With Auxiliary Switch	Recept # -270+		

Notes:
** For self-ejecting connectors and plugs, a -443 suffix must be added to the handle part number. See pages 251-252 for more information.
~ Standard closed lid configuration.

Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.

Order Example: 480 V DSN100 + 2 auxiliary contacts
DSN100 Poly inlet 3P+G = 63-88043**-972**

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INSTALLATION ACCESSORIES – SIZE 4

Accessories can be used with either poly or metal plugs and receptacles.

HANDLES

HANDLE w/NPT		Part # Poly	Part # Metal
Poly / Metal	1/2"	**514P0N05**	**594P0N05**
	3/4"	**514P0N07**	**594P0N07**
	1"	**514P0N10**	**594P0N10**
	1 1/4"	**514P0N12**	**594P0N12**
	1 1/2"	**514P0N15**	**594P0N15**

For available cord grips, see page 169. Add-443 for self-ejecting.

POLY HANDLE w/CORD GRIP	Cable Range	Part #
	.680 - .980"	**714P0DP4**
	.980 - 1.260"	**714P0EP4**
	1.260 - 1.560"	**714P0FP1**

METAL HANDLE w/CORD GRIP		
	.750 - .875"	**794P0DS1**
	.875 - 1.000"	**794P0DS3**
	1.000 - 1.125"	**794P0ES2**
	1.250 - 1.375"	**794P0FS1**
	1.438 - 1.562"	**794P0FS2***
	1.562 - 1.688"	**794P0FS3***

*May require stripping of cable jacket.

POLY HANDLE		
	.51 - 1.38"	**514P0D35**

POLY HANDLE w/BUILT IN DRAW GRIPS		
	.51 - 1.38"	**514P0D35473**

Makes connector closures easier.

POLY HANDLE w/CLAMP & BUSHING		
	1.250 - 1.375"	**714P0S22**
	1.438 - 1.562"	**714P0S25**
	1.562 - 1.688"	**714P0S27**
	1.688 - 1.812"	**714P0S29**

ANGLES

POLY ANGLE				
	30°	**514M3**	70°	**514M7** Panel mounting only.

METAL ANGLE		
	0°	**594M0**
	30°	**594M3**
	30°	**794M3L**
	Oversized 30°	**794M3** Mounts on oversize box only. Order with 7T5F0Nxx. See pg 52.
	70°	**594M7**

BOXES

POLY CONDUIT ENTRY w/NPT			Part #	
* 27.7 in^3	30°	1/2"	**514B3N05**	For poly devices only
	30°	3/4"	**514B3N07**	
	30°	1"	**514B3N10**	* Interior volume with receptacle installed.
	30°	1 1/4"	**514B3N12**	

POLY WALL BOX w/ANGLE			
* 181.24 in^3	70°	**514C7000**	70° poly boxes are not drilled. Contact Customer Service if factory drilling is required.
	Ground Bar	**51AA089**	* Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX w/NPT			
* 177.7 in^3	70°	1/2"	**714C7N05**
	70°	3/4"	**714C7N07**
	70°	1"	**714C7N10**
	70°	1 1/4"	**714C7N12**
	70°	1 1/2"	**714C7N15**

* Interior volume with receptacle installed.

METAL BOX w/NPT			
	0°	1"	**7T4F0N10**
	0°	1 1/4"	**7T4F0N12**
	0°	1 1/2"	**7T4F0N15**
	0°	2"	**7T4F0N20**

POLY ANGLE WITH METAL BOX w/NPT			
	30°	1"	**714C3N10**	For metal angle, replace "71" prefix with "79".
	30°	1 1/4"	**714C3N12**	
	30°	1 1/2"	**714C3N15**	
* 61.0 in^3 Poly Angle / * 59.4 in^3 Metal Angle	30°	2"	**714C3N20**	* Interior volume with receptacle installed.

MISCELLANEOUS ACCESSORIES

FINGER DRAWPLATES		
	31-6A346	Set of Two (2) Recommended for cord to cord assembly applications, for easier connector closure.

PROTECTIVE INLET/PLUG CAP		
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP		
	DS6PC	Poly – For Inlets/Plugs Only.
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP		
	31-6A226	For Poly Inlets/Plugs Only.	-A155 suffix required to maintain water ingress protection.
	39-6A226	For Metal Inlets/Plugs Only.	

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.