

DN9c and DN20c Horsepower Ratings

product improvement description

Effective immediately Meltric's DN9c and DN20c Series plugs and receptacles are CSA listed as horsepower-rated plugs and receptacles. This new rating allows a DN9c or DN20c to be used in motor branch circuits.

DN9c



120V	1Ø	1/3 hp
240V	1Ø	1 hp
208V	3Ø	2 hp
240V	3Ø	3 hp
480V	3Ø	5 hp

*DN9c's are now rated up to 5 hp.
Hp ratings for AC only.*

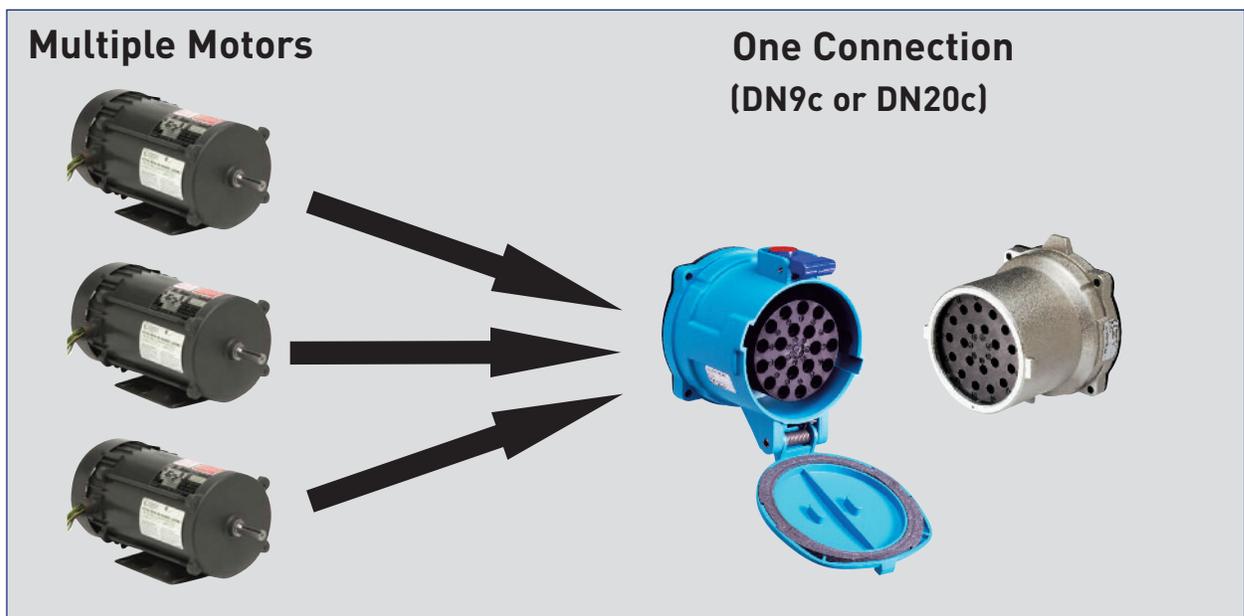
DN20c



120V	1Ø	1/6 hp
240V	1Ø	1/2 hp
208V	3Ø	1 hp
240V	3Ø	1 hp
480V	3Ø	3 hp

*DN20c's are now hp rated up to 3 hp.
Hp ratings for AC only.*

If desired one connection can be used to connect multiple motors as long as none of the motors exceed the maximum hp and voltage rating of the device.



DN9c and DN20c Horsepower Ratings

faq

How many motors could a DN9c or DN20c power?

The DN9c can supply power to two 5-HP motors at 480 V from two separate 3-phase supplies and a two wire control circuit. Or the DN9c could supply power to a 5-HP motor at 480 V from a separate 3-phase supply, a 3-HP motor at 240 V from a separate 3-phase supply, and a two wire control circuit. The DN20c can supply power to six 3-HP motors at 480 V from six separate 3-phase supplies and a two wire control circuit or any other similar combination as described with the DN9c. Or a single 3-phase supply could feed multiple motors with a total HP less than or equal to the maximum HP rating at each voltage level.

Are the DN9c and DN20c switch-rated?

DN9c's and DN20c's are NOT switch rated. DN's are rated for current interrupting but they do not replace the need for a separate switch.

Are hp rated DN's compatible with old style DN's?

Yes, hp rated DN's are compatible with older style DN's but when you connect a new device with an old device the horsepower ratings do not apply.

How do I order a horsepower rated DN9c or DN20c?

The part numbers have changed. The new horsepower rated DN part numbers begin with a " 17-", previously the part number began with a "19-". See catalog pages on the following pages.

Will the catalog be updated to include the new DN9c and DN20c horsepower ratings?

Yes, the 2013-2014 catalog, due to arrive in your office in early April, will include CSA listed + horsepower rated DN's.

How were the horsepower ratings achieved?

Test requirements to achieve horsepower ratings are:

- Overload-Locked Rotor Test for 50 operations @600% of Full Load Motor Current (p.f.= .40 - .50)
- Short Circuit Withstand Test for $\leq 10\text{kA}$ (480V and $< .50$ power factor).

What are the typical applications for a hp rated DN9c or DN20c?

Typical applications would be process machines or skids with multiple motors fed by one device.

DN9c and DN20c Horsepower Ratings

New DN9c Catalog Page

DN9c



DN9c Multipin – 20A Plugs & Receptacles

Ratings

- Voltage**
50 VAC or 480 VAC Max/130 VDC*
+ For DC order 480V model. Not CSA listed.
- Amperage Rating**
20A Current Interrupting
- Horsepower Ratings**

120V	1Ø	1/3 hp
240V	1Ø	1 hp
208V	3Ø	2 hp
240V	3Ø	3 hp
480V	3Ø	5 hp

- Environmental Ratings**
IP54/IP55
- Temperature Range**
Min -40°F/Max 140°F
See pg 220 for temps below -15°F.
- Wiring Capacity**
Min 16 AWG Max 10 AWG
- Listings**
CSA, CE*
* Contact Customer Service for CE rated devices.

Receptacle (female)



Don't forget to add installation accessories to your order

Inlet (male)



Voltage	Polarity	Part # Metal
50V	6P	17-14060
50V	7P	17-14070
50V	8P	17-14080
50V	9P	17-14090
480V	5P+G	17-14051
480V	6P+G	17-14061
480V	7P+G	17-14071
480V	8P+G	17-14081

Voltage	Polarity	Part # Metal
50V	6P	17-18060
50V	7P	17-18070
50V	8P	17-18080
50V	9P	17-18090
480V	5P+G	17-18051
480V	6P+G	17-18061
480V	7P+G	17-18071
480V	8P+G	17-18081

Main Options



Mushroom Pawl



Padlock Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

See pgs 197-206 for detailed information on these options

Receptacle Options

Part

Straight Insertion	Recept # - A188
Self-Ejecting Connector Release	Recept # - 348-A188
HP Watertightness (high pressure)	Recept # - HP
Mushroom Pawl	Recept # - 375
Locking Mushroom Pawl	Recept # - 845
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375- 843
Closed Lid Configuration	Recept # - NC

Inlet Options

Part

Self-Ejecting Plug Release	Inlet # - 338-A188
Straight Insertion	Inlet # - A188

DN9c Order Example:

To order Closed Lid Configuration on a receptacle add -NC to the part numbers.

DN9c Receptacle 9P=17-14090-NC

Appropriate accessory part numbers must also be included on the order.

Multipin Plugs & Receptacles

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DN9c and DN20c Horsepower Ratings

New DN20c Catalog Page

DN20c



DN20c Multipin – 20A Plugs & Receptacles

Ratings

- Voltage**
50 VAC or 480 VAC Max/130 VDC
+ For DC order 480V model. Not CSA listed.
- Amperage Rating**
20A/15A Current Interrupting*
* The amperage rating is 15A when more than 12 contacts are used for power circuits (not control).
- Horsepower Ratings**

120V	10	1/6 hp
240V	10	1/2 hp
208V	30	1 hp
240V	30	1 hp
480V	30	3 hp
- Environmental Ratings**
IP54/IP55
- Temperature Range**
Min -40°F / Max 140°F
See pg 220 for temps below -15°F.
- Wiring Capacity**
Min 16 AWG Max 10 AWG
- Listings**
CSA, CE**
** Contact Customer Service for CE rated devices.

Receptacle (female)



Don't forget to add installation accessories to your order

Inlet (male)



* The amperage rating is 15A when more than 12 contacts are used for power circuits (not control).

Voltage	Polarity	Part # Metal
50V	10P	17-64100
50V	11P	17-64110
50V	12P	17-64120
50V	13P	17-64130*
50V	14P	17-64140*
50V	15P	17-64150*
50V	16P	17-64160*
50V	17P	17-64170*
50V	18P	17-64180*
50V	19P	17-64190*
50V	20P	17-64200*
480V	9P+G	17-64091
480V	10P+G	17-64101
480V	11P+G	17-64111
480V	12P+G	17-64121
480V	13P+G	17-64131*
480V	14P+G	17-64141*
480V	15P+G	17-64151*
480V	16P+G	17-64161*
480V	17P+G	17-64171*
480V	18P+G	17-64181*
480V	19P+G	17-64191*

Voltage	Polarity	Part # Metal
50V	10P	17-68100
50V	11P	17-68110
50V	12P	17-68120
50V	13P	17-68130*
50V	14P	17-68140*
50V	15P	17-68150*
50V	16P	17-68160*
50V	17P	17-68170*
50V	18P	17-68180*
50V	19P	17-68190*
50V	20P	17-68200*
480V	9P+G	17-68091
480V	10P+G	17-68101
480V	11P+G	17-68111
480V	12P+G	17-68121
480V	13P+G	17-68131*
480V	14P+G	17-68141*
480V	15P+G	17-68151*
480V	16P+G	17-68161*
480V	17P+G	17-68171*
480V	18P+G	17-68181*
480V	19P+G	17-68191*

Main Options



Mushroom Pawl



Self-Ejecting Devices

* Requires straight insertion receptacle or inlet and self-ejecting plug or connector

See pgs 197-206 for detailed information on these options

Multipin Plugs & Receptacles

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Receptacle Options

Part

Straight Insertion	Recept # - A188
Self-Ejecting Connector Release	Recept # - 348-A188
HP Watertightness (high pressure)	Recept # - HP
Mushroom Pawl	Recept # - 375
Locking Mushroom Pawl	Recept # - 845
Padlock Pawl	Recept # - 843
Padlockable Mushroom Pawl	Recept # - 375-843
180° Opening Lid	Recept # - 180
Closed Lid Configuration	Recept # - NC

Inlet Options

Part

Self-Ejecting Plug Release	Inlet # - 338-A188
Straight Insertion	Inlet # - A188

DN20c Order Example:

To order Closed Lid Configuration on a receptacle add **-NC** to the receptacle part numbers.

DN20c Receptacle 19P=17-64190-**NC**

Appropriate accessory part numbers must also be included on the order.