



TECHNICAL MANUAL & REFERENCE

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ELECTRICAL PERFORMANCE – Switch-Rated, Current Interrupting Rated and Non-Current Interrupting Rated Devices

Switch-Rated Plugs & Receptacles

MELTRIC DSN & DS Series products are UL & CSA listed as Switch-Rated plugs and receptacles. These ratings allow them to be used as a motor circuit disconnect switch, as well as a branch circuit disconnect switch. Switch-Rated plugs and receptacles have passed electrical overload, short circuit, and endurance tests that are far more rigorous than those applied to other plugs and receptacles. These tests include the functional requirements for safety disconnect switches in addition to manual motor controllers. For more information about the tested electrical performance of Switch-Rated devices consult pages 244 - 246.

Current Interrupting Rated Plugs & Receptacles

Other MELTRIC devices such as the DXN plugs and receptacles are UL and/or CSA rated for "current interrupting". A current interrupting rated plug and receptacle is not subjected to the same level of endurance testing as a Switch-Rated device and does not need to be subjected to any overload-locked rotor or short circuit testing (see pages 244-245 for performance test comparisons). Plug and receptacles rated for "current interrupting" are not intended to be used as switches, but can withstand making and breaking of normal resistive loads. Devices that are not hp and short circuit rated are not intended to make and break motor loads or other inductive loads.

Non-Current Interrupting Rated Plugs & Receptacles

Many competitive plugs and receptacles, as well as some MELTRIC devices are "non-current interrupting" rated. They are not approved by UL or CSA for connecting or disconnecting under load. They have passed the minimum test requirements for plugs and receptacles but they have not passed current interrupting performance tests or the more demanding electrical endurance, overload and short circuit tests required of Switch-Rated devices. For more information about the tested electrical performance of non-current interrupting rated devices consult pages 244-245.

Ratings	Product
Switch-Rated	DSN
	DS
	DXN
	DXA1
	Multipin
Current-Interrupting Rated	DR (select models only)
	PN
	DX
	Competitors Pin and Sleeve
	Multipin
Non-Current Interrupting Rated	PF/PFQ
	DSDC
	Single Pole
	Zone 2
	Competitors Pin and Sleeve

ELECTRICAL PERFORMANCE Overload Conditions

UL & CSA standards for plugs and receptacles require that the devices be able to withstand overload conditions. General use conditions are simulated by testing a device to a specified number of operations (50) at 150% of rated current and a power factor (p.f.) between 0.75 and 0.80. Switch-Rated plugs and receptacles that are horsepower rated must perform overload testing at 600% of full load motor current with a more severe power factor (between 0.40 and 0.50) to simulate locked rotor conditions.

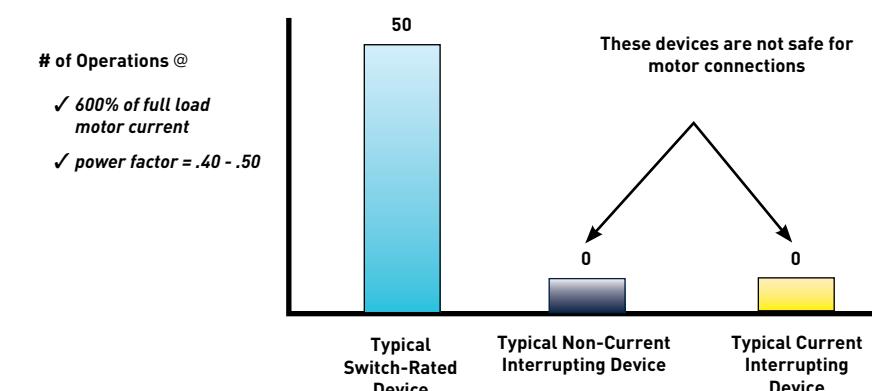
UL & CSA Standards – Overload Test Requirements and Ratings Comparisons

Test	UL Subject 2682 (used for both UL & CSA listings)	UL 1682 & CSA 22.2 No. 182.1	
	Switch-Rated Plugs & Receptacles Motor/Branch Circuit Switch-Rated (Typical)	Plugs, Receptacles & Cable Connectors of the Pin & Sleeve Type Current Interrupting	Non-Current Interrupting (Typical)
Overload (General Use Devices)	50 Operations @ 150% of rated Current (p.f. = .75 - .80)	50 Operations @ 150% of rated Current (p.f. = .75 - .80)	3 Operations @ 150% of rated Current (p.f. = .75 - .80)
Overload - Locked Rotor (Horsepower Rated Devices) and Electrical Endurance	50 Operations @ 600% of Full Load Amperage (p.f. = .40 - .50) + 6000 Operations @ rated horsepower FLA (p.f. = .75-.80)	50 Operations* @ 600% Full Load Amperage (p.f. = .40 - .50)	-

The overload requirement for testing DC devices is 1 operation.

*Testing is optional.

Test Results: Completed Operations at Overload/Locked Rotor Condition



MELTRIC is Reliable
MELTRIC devices can withstand temporary overloads due to frequent restarting of motors.

Brass pin and sleeve devices cannot withstand temporary overloads that heavily oxidize contacts, causing them to weld.



Motors and other equipment can be quickly and safely connected or disconnected with MELTRIC's Switch-Rated plugs and receptacles.

ELECTRICAL PERFORMANCE

Mechanical and Electrical Endurance

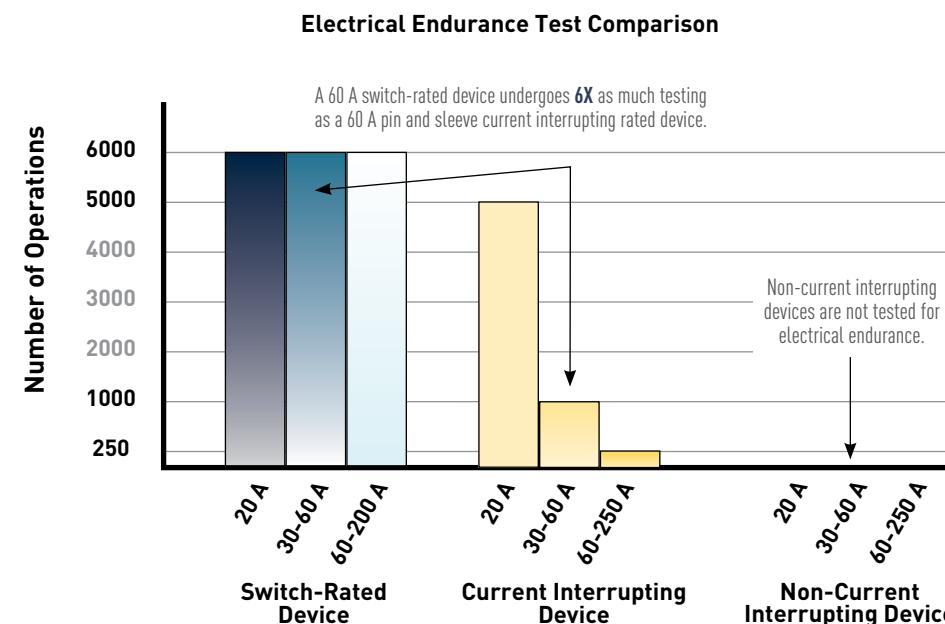
UL and CSA standards require endurance testing to ensure that rated performance is maintained over the expected life of the device. The severity of this testing depends on the rating of the device.

As shown in the chart below, non-current interrupting devices are tested only for mechanical endurance. Current interrupting devices are additionally subjected to moderate electrical endurance testing while Switch-Rated devices are subjected to a much more severe level of electrical endurance testing, which is similar to that required of disconnect switches. In this regard, Switch-Rated devices may be required to make and break under full load more than 20 times as many operations (depending upon device amperage) as a current interrupting rated pin and sleeve device.

UL & CSA Standards – Endurance Test Requirements and Ratings Comparisons

Test	UL Subject 2682 (used for both UL & CSA listings)	UL 1682 & CSA 22.2 No. 182.1	
		Switch-Rated Plugs & Receptacles	Plugs, Receptacles & Cable Connectors of the Pin & Sleeve Type
		Current Interrupting (Typical)	Non-Current Interrupting (Typical)
Mechanical Endurance (including Electrical Operations)	6000 Operations	15-20 A = 5000 Operations 21-63 A = 2000 Operations 64-250 A = 500 Operations	15-20 A = 5000 Operations 21-63 A = 2000 Operations 64-250 A = 250 Operations
Electrical Endurance (with load)	6000 Operations @ Rated Current & Voltage (p.f. = .75-.80)	15-20 A = 5000 Operations 21-63 A = 1000 Operations ¹ 64-250 A = 250 Operations ¹ @ Rated Current & Voltage (p.f. = .75 - .80)	-

Notes: ¹ Testing alternates between mechanical & electrical operations. This reduces the severity of the electrical test by allowing additional cooling time during electrical testing.



ELECTRICAL PERFORMANCE

Short Circuit Protection

MELTRIC's DS and DSN products have successfully completed high fault current short circuit testing. All of these devices have short circuit make (close) and withstand ratings of either 10 kA, 65 kA, or 100 kA. UL witnessed and approved this testing.

UL Recognized Short Circuit Capabilities

Plug & Receptacle Type	UL Recognized Short Circuit Capabilities		Product Standard
	Short Circuit Ratings		
Withstand	Make		
General Use Pin & Sleeve Devices	None	None	UL 1682
Horsepower Rated Twist-Type Devices	1 kA	None	UL 498
Motor Rated Pin & Sleeve Devices	10 kA	None	UL 1682
MELTRIC Switch-Rated Devices	≥ 65 kA	≥ 65 kA	UL Subject 2682

Short Circuit Test Information

Fusing – The amperage and time delay characteristics of the fusing used in testing affect the electrical load seen by the device. UL Subject 2682 requires horsepower rated devices to withstand short circuit tests performed with fuses rated no larger than 400% of full load ampacity for motor circuits, or at least 100% of the amperage rating of devices for general branch circuit use.

MELTRIC used Mersen RK1 non-time delay type fusing for the horsepower rated devices because it is a common type of fuse used in motor applications. MELTRIC used RK5 time delayed fusing for non-horsepower ratings because it represents the most severe case of the various fusing scenarios that are typically used for general use applications.

Power Factor – The lower the power factor (p.f.) the more rigorous the test. UL Subject 2682 requires horsepower rated devices to withstand a short circuit test of 10,000 amps with a p.f. of 0.40 to 0.50. By comparison, UL 1682 requires devices with the same horsepower rating to withstand a 10,000 amp short circuit test with a much less rigorous p.f. of 0.70 to 0.80.

Short Circuit Test Summary Table

Model	Device Information	Short Circuit Make & Withstand Rating ¹			
		General Use Rating	kA	VAC	Fusing used in Testing
DSN20	20 A	10	600	RK1	80 A
		100	600	RK1	35 A
DSN30	30 A	100	600	RK1	125 A
DSN60	60 A	100	600	RK1	125 A
DSN100	100 A	100	600	RK1	250 A
DSN150	150 A	10	600	RK1	400 A
	*	100	600	RK1	225 A
DS20	20 A	100	600	RK1	80 A
DS30	30 A	100	600	RK1	125 A
DS60	60 A	100	600	RK1	250 A
DS100	100 A	65	600	RK1	175 A
	100 A	65	600	RK5 TD	100 A
DS200	200 A	10	600	RK1	500 A
		65	600	RK5 TD	200 A

¹ Testing performed with RK1 NTD current limiting fuses of a rating at 400% of the motor FLA. Testing with a 400% NTD fuse is representative of a 225% TD fuse. Testing performed with RK5 to current limiting fuse was based on fuses sized at 100% of the device rating for branch circuits. Due to the variances in breaker performance, no testing was performed with circuit breakers. Per UL2682 Testing with inverse-time circuit breakers shall not be required if it is shown that the clearing time of the inverse-time circuit breakers will be less than that of the fuse with which the product has been tested.

* The fusing used limits the 100 kA rating to 60 hp @ 600V, 40 hp @ 480 V, 20 hp @ 240 V & 208 V.

CONTACT TECHNOLOGY

Silver-Nickel Contact Material

MELTRIC products feature solid silver-nickel (85%/15%), spring-loaded butt-style contacts similar to those used in motor starters and contactors. The silver-nickel material has significant advantages over the brass contacts commonly used on competitive devices.

Silver has very low initial contact resistance and is not negatively affected by oxidation. This helps to give it excellent electrical properties that are maintained even at high temperatures and after tarnishing. Nickel is a much harder material and contributes excellent mechanical properties. The combination of silver and nickel results in a contact material that has both superior electrical capabilities and excellent resistance to wear. Silver-nickel only welds at extremely high pressure and temperature, and thus, also withstands arcs very well. These features make silver-nickel a commonly used contact material by switchgear manufacturers.

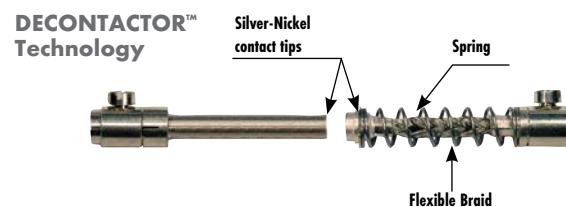
By contrast, the brass material used in most competitive plugs and receptacles has much higher initial contact resistance and is negatively affected by oxidation. In an oxidized state, the contact resistance of brass is more than 20 times higher than that of silver-nickel. In addition, brass is a soft material that wears rapidly. In use, brass pin and sleeve and arcuate contacts suffer from the combined effects of the limitations of the material and the design. As oxidation and wear induced reductions in contact force occur, contact resistance increases. This increases operating temperature, which causes further oxidation and wear, perpetuating a vicious cycle of degradation. Brass is not arc resistant and is not suitable for making and breaking under load.

Spring-Loaded Contacts

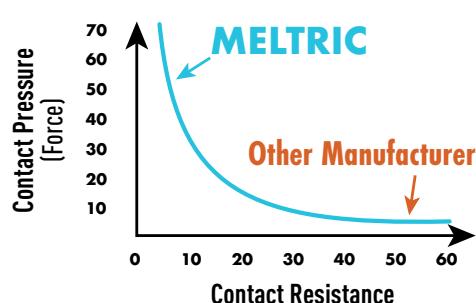
Spring-loading of the contacts ensures that optimal pressure between the contacts is maintained – even after thousands of operations. This point is important because contact force is a key determinant of the quality of the connection. As the accompanying graph demonstrates, contact resistance increases as contact force decreases. Higher contact resistance generates more heat and oxidation, both of which contribute to the deterioration of the contact and loss of energy. This is a problem with pin and sleeve and arcuate type contacts because their contact force varies with manufacturing tolerances and is reduced due to wear that occurs with normal use.

Butt-Style Connection

MELTRIC's butt-style contact configuration provides a positive and secure connection and also makes connection and disconnection easy. With butt-style contacts, the force applied to the contacts is in-line with the insertion motion, so inserting a plug into its socket requires only a known and limited amount of effort. Contact wear and sensitivity to manufacturing tolerances is negligible, because the spring-loading is sufficient to compensate for minor differences in contact length.



Comparison of pin and sleeve to MELTRIC solid silver-nickel contacts



With MELTRIC's butt-style contacts the force applied to the contacts is in-line with the insertion motion.

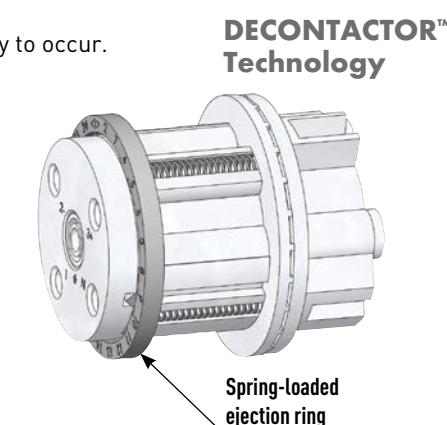
With the pin and sleeve design used by our competitors, the contact force is at a right angle to the insertion/withdrawal force. There are numerous drawbacks to such a design:

- The contact pressure must be sufficient to prevent excessive temperature rise but is limited by the need to keep the insertion force reasonable.
- The necessary friction wears out the contacts, and diminishes contact pressure over time.
- Normal manufacturing tolerances result in wide variations in performance, even with new devices.
- The sliding contact design does not make & break cleanly, so arcing is more likely to occur.

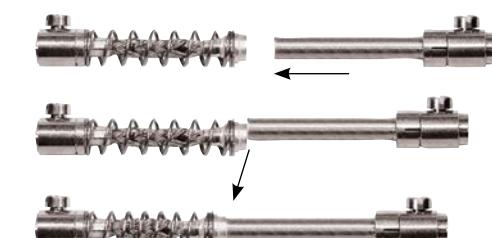
Quick Break Mechanism

On most MELTRIC devices the circuit is broken simply by depressing the pawl. Doing so releases the energy in a spring-loaded operating mechanism, which instantaneously breaks the circuit and ejects the plug to the 'OFF' position. Contact breaking time is about 15 milliseconds. The quick break mechanism is automatically reloaded when the plug is re-inserted.

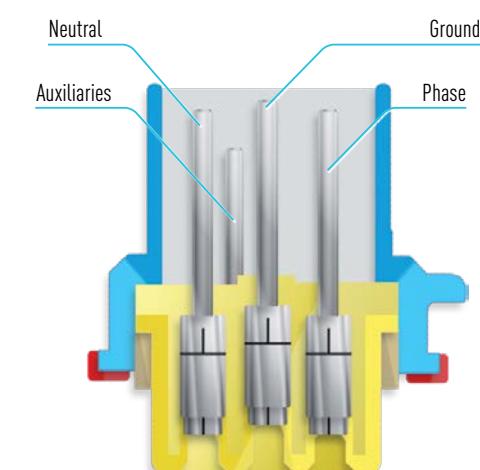
In contrast, the disconnection speed of pin and sleeve and twist type devices is dependent on the user's motion when removing the plug.



Spring-loaded ejection system ensures a quick break of the contacts.



MELTRIC contacts are self-cleaning.



The contacts are set in the plug at different levels to achieve the desired mating sequence.

Self-Cleaning System

Most MELTRIC contacts close with a self-cleaning, wiping action. When the contacts initially mate, they are slightly offset. In completing the connection, the plug contacts are rotated partially across the receptacle contacts, helping to remove deposits from the contact surface.

Contact Mating Sequence

MELTRIC contacts mate in a specific sequence to ensure a proper and safe connection.

1. The earth (ground) closes first.
2. Then the neutral.
3. Then the phases.
4. Then the auxiliary contacts, if any. These auxiliary contacts can, therefore, be used as "pilot" contacts.

On opening, the sequence is reversed.

DEAD-FRONT AND ENCLOSED ARC CHAMBERS

For Maximum Protection from Live Parts

Most MELTRIC receptacles feature a dead-front safety shutter which encloses and isolates the live contacts when the plug is removed. Only electrically compatible plugs can unlock the safety shutter and gain access to the live parts. In addition to preventing accidental exposure to live parts, the safety shutter also keeps the contacts clean and out of reach even if the lid is left open.



The receptacle's dead-front protects workers from accidental tool and wire insertion.

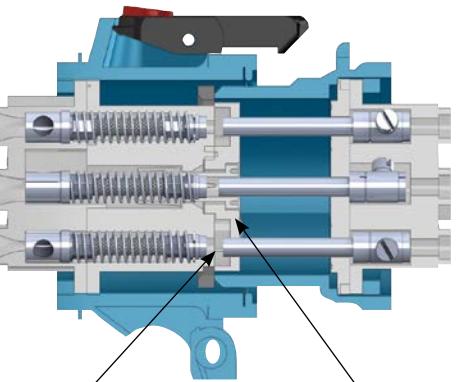
Protection During the Making and Breaking Process

When disconnecting or connecting a MELTRIC plug from/to a receptacle, the user is completely protected from exposure to arc flash or live parts. This is because the contacts can only make or break while they are enclosed in internal arc chambers within the receptacle.

During disconnection, the pressing of the pawl on the receptacle breaks the connection (inside the arc chambers) and ejects the plug to its rest or "OFF" position. While in the rest position, the plug and receptacle casings maintain a dead-front and thus protect the user from live parts. The plug cannot be fully withdrawn until it is rotated 30° counterclockwise. This closes and locks the safety shutter preventing access to live parts during and after the removal of the plug.

During connection, the plug contacts can only access the receptacle contacts after the plug has been partially inserted into the receptacle and has then been rotated 30° to open the safety shutter. Because the interaction of the skirted plug casing with the receptacle forms a protective enclosure that prevents access to the contacts as soon as insertion begins, a dead-front is maintained even after the safety shutter is opened. Once the safety shutter has been opened, the plug contacts can be safely inserted into the arc chambers where the connection is made as the plug is latched to the receptacle.

DECONTACTOR™ Technology



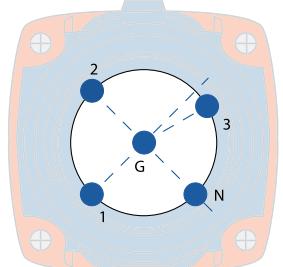
Arc chamber prevents outside exposure to arc flash.
Safety shutter prevents finger or tool access to live parts.

Protection from Insertion of Inappropriate Plugs

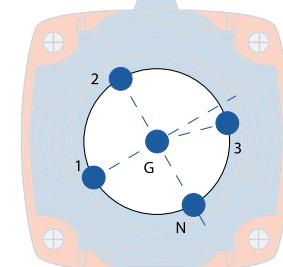
Most MELTRIC products utilize multiple keying positions to prevent mating of mismatched voltage/frequency combinations. Only plugs and receptacles that are keyed/notched in the same positions will mate with each other. Non-compatible plugs will be unable to open the safety shutter. This system prevents potentially dangerous situations. For example, a 250 VAC plug (notch 07) cannot be inserted into a 480 VAC receptacle (notch 04). Alternatively, on the PF and DX series, pegs and holes perform the same function as the notches.

Note: Some of the keying positions have been assigned to a designated global voltage. A few others are unassigned and are available if a user prefers to limit mating of plugs and receptacles that are only to be used on particular applications.

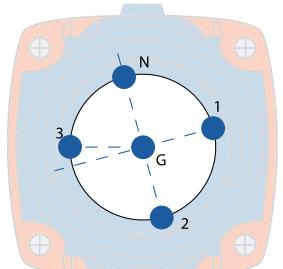
Commonly Used Keying Positions



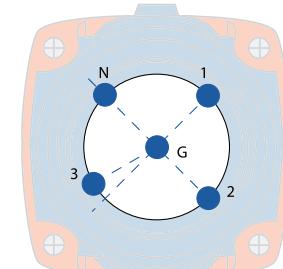
Position 04
255-277 VAC/440-480 VAC 60 Hz



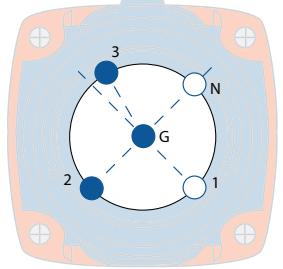
Position 07
110-125/220-250 VAC 60 Hz



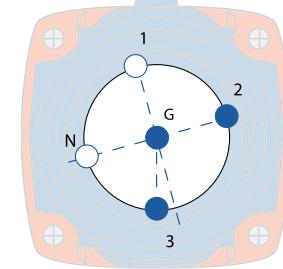
Position 14
347/600 VAC 60 Hz



Position 16
120-127 VAC/208-220 VAC 60 Hz



Position 10
110-130 VDC



Position 20
220-250 VDC

Note: See chart on page 15 for a complete list of voltage polarization positions and associated voltages.

Dual Voltage Devices Maximize User Flexibility

Some MELTRIC receptacles are designed to safely allow dual voltage capabilities.

For example, a 120/208 V rated 3P+N+G receptacle will safely provide power to several configurations of 208 V plugs and a single phase 120 V plug. Having two voltages delivered by a single receptacle allows some facilities to significantly reduce the number of receptacles that need to be installed.

Dual voltage receptacles are supplied with dual color coded voltage stickers.

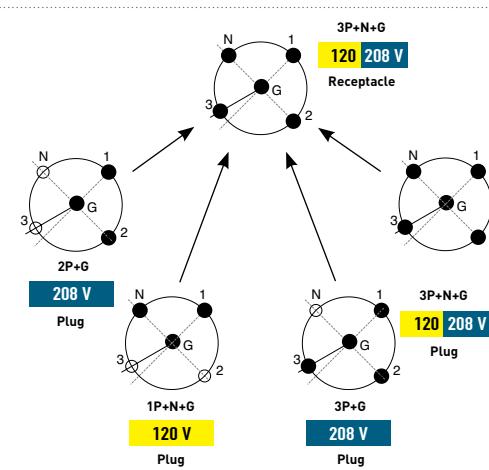
Dual Voltages Typically Available from MELTRIC

125 250 V

120 208 V

277 480 V

347 600 V



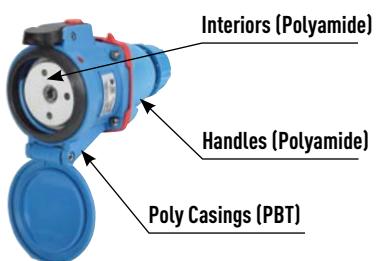
DEVICE MATERIALS AND THEIR RESISTANCE TO ENVIRONMENTS AND CHEMICALS

Polymeric Materials

Casings – The common technical name for the “Poly” material used by MELTRIC is polyamide (nylon). It’s a glass fibers reinforced, heat stabilized material which provides outstanding resistance to most chemical agents and environmental conditions, including UV radiation. This material also offers high impact resistance across a broad range of temperatures (shock resistance ratings to IK09) and creep resistance.

Interiors – The arc chambers for most MELTRIC devices are made of polyamide. Other materials are used such as Bakelite and melamine.

Accessories – Handles, angles and wall boxes are made of Polyamide (they are supplied with self tapping screws).



Products with Poly (PBT) Casings

DSN20, DSN30, DSN60, DSN100, DSN150
DS20, DS30, DS60, DS100
DR30, DR50, DR100, DR150
DXN20, DXN30, DXN60
DSN12c, DSN24c, DSN37c, DS7c, DR7c

Resistance of Polymeric Casings to Various Chemical Agents

i see note on following page

Agent	Polyester reinforced glass fiber			Polyamide		
	23°C	60°C	80°C	23°C	60°C	80°C
Butyl acetate	★★	★★		★★		
Ethyl acetate	★			★★		
Acetone	★			★★		
Acetic acid	5% 10%	★★ ★★	★★ ★★	★ ★ -		
Hydrochloric acid	10%	★★	★★	★★	-	-
Chromic acid	40%	★★	★★	★★	-	-
Citric acid	10%	★★	★★	★★	-	-
Formic acid	5%	★★	★ ★	★★	★	
Nitric acid	10%	★★	★ ★	★ ★	-	
Oleic acid	100%	★★	★★	★★	-	
Phosphoric acid	3%	★★	★★	★★	★	
	30%	★★	★★	★★	-	-
Sulphuric acid	3% 85% (conc)	★★	★★	★★	-	-
	30%	★★	★★	★★	-	-
Ethyl alcohol		★★		★★		
Methyl alcohol		★★		★★		
Aniline		★★		-		
Benzene		★ ★		★★		
Soda Bicarbonate	10%	★★	★ ★	-	★★	★★
Potassium bichromate	10%		★★		★★	
Sodium bisulphite	10%	★★	★ ★	-	★★	
Butane		★★		★★		
Butanol		★ ★		★		
Soda carbonate	10% 20%	★★	-	★★	★ ★	★
Disulphuric carbonate		★★		★★		
Calcium chloride	10%	★★	★ ★		★★	
Potassium chloride	10%	★★	★ ★	-	★★	
Sodium chloride	10%	★★	★ ★	-	★★	
Detergents	1% 25%	★★	★ ★	-	★★	★
Dibutylphthalate		★★	★★		★★	
Dichlorethane	-			★★		
Dioxane	★★	-		★★		
Water	★★	★	-	★★	★★	★
Bleach	★★	★		★★		
Gas	★★			★★		
Turpentine	★★			★★		

Legend: ★★ = Excellent ★ = Good - = Poor

Metal Materials

Casings – Metal casings providing even greater impact resistance are standard on some MELTRIC products and are optional on others. Depending upon the product line, these casings may be made of zamak, aluminum or stainless steel. Aluminum, is the most commonly used. Aluminum receptacles are blue epoxy coated and aluminum plugs are specially treated to further improve corrosion resistance.

Contacts – All MELTRIC contact surfaces are made of solid silver-nickel with the exception of the PF and PFQ contacts which are solid pure silver. Silver-nickel and silver both provide excellent resistance to climatic conditions and to all known chemical agents found in industry with the exception of sulphuric acid. Products installed in sulphuric acid environments should have an environmental rating of at least Type 4X or IP66.

Accessories – Wall boxes, angles, and handles are in zamak or aluminum alloy. All zamak accessories are standardly protected by an epoxy paint.



Products with Metal Zamak Casings

PN20, PN7c, PN12c, DN20c, DN9c
Inlet only: DSN150, DS100, DR150, DR250

Products with Aluminum Casings

PN (HT)
DS60, DS100, DS200
DSN100
DR100, DR150, DR250, DR400
DS7c, DR7c
DX1, DX3, DX6, DX9
PFQ300, PF300, PF400, PF600
DXA1

Products with Stainless Steel Casings

PN7c, PN12c
DS24c, DS37c

Contact customer service for availability of Stainless Steel on other products.

Resistance of Metal Casings to Corrosive Agents

Agent	Protected zamak or aluminum	
Dry lighting gas	★★	
Water steam	★	
Hot water	★	
Artificial sea water	★	
Soluble oil 3%	★	
Soluble oil 5%	★★	
Cleansing soap	★★	
Potash solution 1%	★	
Potash solution 5%	★	
Ammonia 1%	★	
Ammonia 5%	★	
Sodium chloride 1%	★	
Sodium chloride 5%	★	
Acetic acid 1%	★	
Acetic acid 5%	-	
Gas	★★	
Engine oil	★★	
Printing ink	★	
Ethyl or methyl alcohol	★★	
Trichloethylene	★	
Dry insecticides	★	

Legend: ★★ = Excellent ★ = Good - = Poor

i These resistance charts are intended to give a general overview of the performance of our casings and mounting accessories. It is not intended to provide a guarantee of performance of our product as that will depend on the concentration of the chemical, the application temperature, the duration of the exposure, and other application specific factors. In cases where chemical compatibility may be in question the established practice is to place a representative sample device in the application environment to see how it holds up.

ENVIRONMENTAL/INGRESS PROTECTION (ENCLOSURE TYPE AND IP RATINGS)



Product	Type	IP
DSN	4X	66/67/69/69K
DS+	4X	66/67/69/69K
DR+	4X	66/67/69/69K
PN7c	-	66/67
PN12c	4X	66/67
DSN12c	-	66/67/69/69K
DSN24c/DSN37c	-	66/67/69/69K
DN9c/DN20c	-	54
DN7c/DR7c	-	66/67
PN20	4X	66/67
PNHT	-	44
DSDC+	4X	66/67/69/69K
PF/PFQ	-	66/67
SP/CS1000	-	66/67

+ DS20, DS30, DR30, DR50, DSDC1, DSDC3 come standard as 3R with 4X upgrade available as an option. These devices will not have an associated IP rating.

Note: The ratings in the table above do not apply to stainless steel devices.

Environmental Ratings Explained

NEMA/UL/CSA Enclosure Types (UL50)

Enclosure Type	Intended Use and Description
1	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.
2	Indoor use primarily to provide a degree of protection against limited amounts of waste and falling dirt.
3, 3R, 3S	Outdoor use primarily to provide a degree of protection against rain, sleet, and damage from external ice formation
4, 4X	Indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water, and damage from external ice formation.
12	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt and dripping non-corrosive liquids.

IP Ratings (IEC/EN 60529)

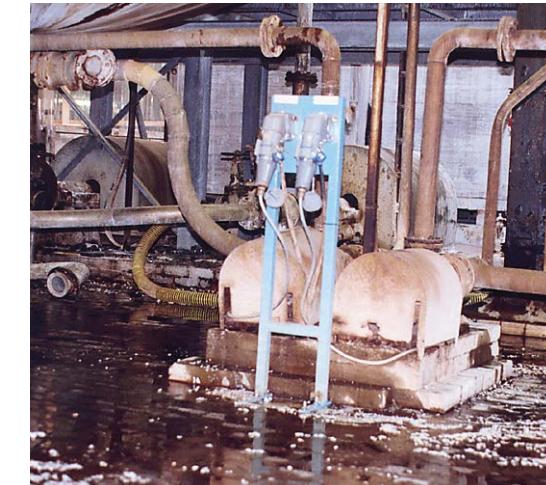
First Digit Protection against the ingress of solid foreign objects and access to hazardous parts		Second Digit Protection against the ingress of water with harmful effects	
0	No protection	-	0 No protection
1	50 mm	Back of hand	1 Vertically dripping water (condensation)
2	12.5 mm	Finger	2 Dripping water at 15°
3	2.5 mm	Tool	3 Spraying water at 60° [rain]
4	1 mm	Wire	4 Splashing water from any direction
5	Against Dust	-	5 Jetting water from any direction
6	Dust-tight	-	6 Powerful jetting water from any direction
-	-	-	7 Temporary submersion
-	-	-	9 High pressure, high temperature jet sprays

IMPACT RESISTANCE

MELTRIC product resistance to mechanical shocks is specified in accordance with their IK ratings.

MELTRIC Products IK Ratings (per IEC/EN 50102)

Product	Material	IK Ratings (in Joules)
DSN	Poly	09 (10)
	Metal (size 4-6)	10 (20)
DS	Poly	09 (10)
	Metal (size 4-6)	10 (20)
DR	Poly	09 (10)
	Metal (size 4-6)	10 (20)
DN	Metal	09 (10)
PN	Poly	09 (10)
PN/PXN12c	Metal	09 (10)
PF	Metal	10 (20)
DX	Metal	10 (20)
DXN	Poly	09 (10)
DXN25c/37c	Metal	09 (10)
SP/SPeX	Poly	09 (10)
DXA1	Metal	10 (20)
CS1000	Poly	08 (5)



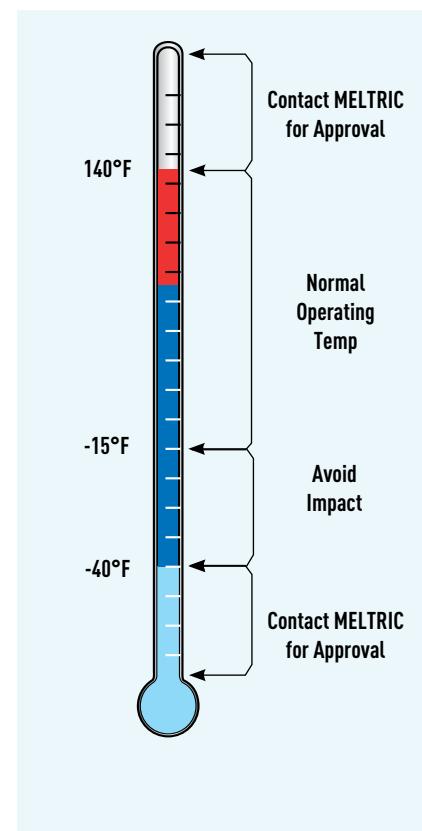
OPERATING TEMPERATURES

Hot Temperatures

Some devices that do not contain any polyamide can operate up to 175°F/80°C but precise conditions and duty cycles must be submitted to the MELTRIC engineering department for approval. A limited range of products are available for ambient temperatures up to 465°F/240°C. Contact MELTRIC engineering for more information.

Cold Temperatures

Below -15°F materials become more brittle and impact should be avoided, especially on polyamide materials. However, MELTRIC's metal and polyester casings can be used as low as -40°F/-40°C and some MELTRIC devices are in service at -75°F/-60°C. Contact engineering for more information.



COLOR CODED GASKETS & LABELS

FOR VOLTAGE IDENTIFICATION

PIN CONFIGURATION	VOLTAGE RANGE	FREQUENCY	5th, 6th and 7th PART NUMBER DIGITS	RECEPTACLE/CONNECTOR		PLUG/INLET	
				COLOR GASKET	VOLTAGE STICKER	COLOR GASKET	VOLTAGE STICKER
1P+N+G	110 - 125 V	60 Hz	075	ORANGE	ORANGE	ORANGE	ORANGE
	120 - 127 V	60 Hz	165	YELLOW	YELLOW	YELLOW	YELLOW
	255 - 277 V	60 Hz	045	GREY	GREY	GREY	GREY
	347 V	60 Hz	145	RED	RED	RED	RED
	110 - 130 V	50 Hz	035	YELLOW	YELLOW	YELLOW	YELLOW
	220 - 250 V	50 Hz	015	BLUE	BLUE	BLUE	BLUE
	380 - 440 V	50 Hz	195	RED	RED	RED	RED
	577 V	50 Hz	225	BLACK	BLACK	BLACK	BLACK
	115 - 127 V	200 Hz	125	GREEN	YELLOW	GREEN	YELLOW
	115 - 127 V	400 Hz	115	GREEN	YELLOW	GREEN	YELLOW
2P	20 - 24 V	60 Hz	02A	VIOLET	VIOLET	VIOLET	VIOLET
	20 - 24 V	50 Hz	08A	VIOLET	VIOLET	VIOLET	VIOLET
	25 - 28 V	50 Hz	06A	VIOLET	VIOLET	VIOLET	VIOLET
	40 - 48 V	50 Hz	13A	WHITE	WHITE	WHITE	WHITE
2P+G	208 - 220 V	60 Hz	162	BLUE	BLUE	BLUE	BLUE
	220 - 250 V	60 Hz	072	ORANGE	ORANGE	ORANGE	ORANGE
	440 - 480 V	60 Hz	042	RED	RED	RED	RED
	600 V	60 Hz	142	BLACK	BLACK	BLACK	BLACK
	190 - 230 V	50 Hz	032	BLUE	BLUE	BLUE	BLUE
	380 - 440 V	50 Hz	012	RED	RED	RED	RED
	480 - 500 V	50 Hz	092	BLACK	BLACK	BLACK	BLACK
	660 - 690 V	50 Hz	192	BLACK	BLACK	BLACK	BLACK
	1000 V	50 Hz	222	BLACK	BLACK	BLACK	BLACK
	200 - 220 V	200 Hz	122	GREEN	BLUE	GREEN	BLUE
	200 - 220 V	400 Hz	112	GREEN	BLUE	GREEN	BLUE
	110 - 130 V	DC	109	YELLOW	YELLOW	YELLOW	YELLOW
	220 - 250 V	DC	209	BLUE	BLUE	BLUE	BLUE

PIN CONFIGURATION	VOLTAGE RANGE	FREQUENCY	5th, 6th and 7th PART NUMBER DIGITS	RECEPTACLE/CONNECTOR		PLUG/INLET	
				COLOR GASKET	VOLTAGE STICKER	COLOR GASKET	VOLTAGE STICKER
2P+N+G	110 - 125 V 220 - 250 V	60 Hz	076	ORANGE	ORANGE	ORANGE	ORANGE
	120 - 127 V 208 - 220 V	60 Hz	166	BLUE	YELLOW BLUE	BLUE	YELLOW BLUE
	255 - 277 V 440 - 480 V	60 Hz	046	RED	GREY RED	RED	GREY RED
	347 - 600 V	60 Hz	146	BLACK	BLACK	BLACK	BLACK
	110 - 130 V 190 - 230 V	50 Hz	036	BLUE	YELLOW BLUE	BLUE	BLUE
	220 - 250 V 380 - 440 V	50 Hz	016	RED	BLUE RED	RED	RED
	380 - 400 V 660 - 690 V	50 Hz	196	BLACK	RED BLACK	BLACK	BLACK
	480 - 500 V	50 Hz	096	BLACK	BLACK	BLACK	BLACK
	115 - 127 V 200 - 220 V	200 Hz	126	GREEN	YELLOW BLUE	GREEN	BLUE
	115 - 127 V 200 - 220 V	400 Hz	116	GREEN	YELLOW BLUE	GREEN	BLUE
3P+G	208 - 220 V	60 Hz	163	BLUE	BLUE	BLUE	BLUE
	220 - 250 V	60 Hz	073	ORANGE	ORANGE	ORANGE	ORANGE
	440 - 480 V	60 Hz	043	RED	RED	RED	RED
	600 V	60 Hz	143	BLACK	BLACK	BLACK	BLACK
	190 - 230 V	50 Hz	033	BLUE	BLUE	BLUE	BLUE
	380 - 440 V	50 Hz	013	RED	RED	RED	RED
	480 - 500 V	50 Hz	093	BLACK	BLACK	BLACK	BLACK
	660 - 690 V	50 Hz	193	BLACK	BLACK	BLACK	BLACK
	1000 V	50 Hz	223	BLACK	BLACK	BLACK	BLACK
	200 - 220 V	200 Hz	123	GREEN	BLUE	GREEN	BLUE
	200 - 220 V	400 Hz	113	GREEN	BLUE	GREEN	BLUE
3P+N+G	110 - 125 V 220 - 250 V	60 Hz	077	ORANGE	ORANGE	ORANGE	ORANGE
	120 - 127 V 208 - 220 V	60 Hz	167	BLUE	YELLOW BLUE	BLUE	YELLOW BLUE
	255 - 277 V 440 - 480 V	60 Hz	047	RED	GREY RED	RED	GREY RED
	347 - 600 V	60 Hz	147	BLACK	RED BLACK	BLACK	RED BLACK
	110 - 130 V 190 - 230 V	50 Hz	037	BLUE	YELLOW BLUE	BLUE	BLUE
	220 - 250 V 380 - 440 V	50 Hz	017	RED	BLUE RED	RED	RED
	380 - 400 V 660 - 690 V	50 Hz	197	BLACK	RED BLACK	BLACK	BLACK
	480 - 500 V	50 Hz	097	BLACK	BLACK	BLACK	BLACK
	115 - 127 V 200 - 220 V	200 Hz	127	GREEN	YELLOW BLUE	GREEN	BLUE
	115 - 127 V 200 - 220 V	400 Hz	117	GREEN	YELLOW BLUE	GREEN	BLUE
MULTIPIN	NOT	SPECIFIED		SKY BLUE	SKY BLUE	SKY BLUE	SKY BLUE

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PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG
01-2A142	62	03-AA113	79	09-NA010	109	09-28043-185	115	15-13016	86	17-6A911	79	17-68200	73	221C7DPE	172	22-3A013-34	174	22-6A426	176
01-EA125	216	03-AA910	79	09-NA010-B	109	09-28045-185	115	15-13026	86	17-6A919	79	19-1A126	72	221C7DPF	172	22-3A023-34-B	174	251A457-E	216
01-EA126	216	03-NA014	79	09-NA010-T	109	09-28047-185	115	15-13046	86	17-6A920	80	19-6A126	74	221C7N05	172	22-3A023-34-T	174	251P0BPA	172
01-NA010	109	03-NAB26	79	09-NA011	109	09-28072-185	115	15-13056	86	17-6A921	80	22-14042	171	221C7N07	172	22-3A027	174	251P0BPB	172
01-NA010-B	109	03-PA910	79	07-NA014	80	09-28073-185	115	15-16016	86	17-6A925	80	22-14043	171	221C7N10	172	22-3A426	174	251P0CPC	172
01-NA010-T	109	03-PA911	79	09-NA019	109	09-28075-185	115	15-16026	86	17-6A929	80	22-14045	171	221C7N12	172	223C7CPC	176	251P0CPD	172
01-NA011	109	03-PA919	79	09-NA020	110	09-28076-185	115	15-16046	86	17-6A926	79	22-14047	171	221C7N15	172	223C7CPD	176	252P0CPC	174
01-NA014	79	03-PA920	80	09-NA020-B	110	09-28077-185	115	15-16056	86	17-6A930	73	22-14048	171	221C7BPA	174	223C7DPE	176	252P0CPD	174
01-NA019	109	03-PA921	80	09-NA020-T	110	09-N4042	107	15-1A125	86	17-6A931	73	22-14073	171	222C7BPB	174	223C7DPF	176	252P0DPPE	174
01-NA020	110	03-PA929	80	09-NA024	110	09-N4043	107	15-1ALED-24J	86	17-6A932	73	22-14075	171	222C7BPJ	174	223C7M40PG	176	252P0DPF	174
01-NA020-B	110	03-P4041	61	09-NA029	110	09-N4045	107	15-33036	86	17-6A933	73	22-14076	171	222C7CPC	174	223C7M40PH	176	253P0DPPE	176
01-NA020-T	110	03-P4041-001	61	09-NAB26	80	09-N4047	107	15-36036	86	17-6A934	73	22-14122-K16	171	222C7CPD	174	223C7N05	176	253P0DPF	176
01-NA021	110	03-P4051	61	09-NAC26	109	09-N4072	107	15-C3016	86	17-6A935	73	22-14123-K16	171	222C7DPF	174	223C7N07	176	2620042	209
01-NA029	110	03-P4051-001	61	09-NAJ26	109	09-N4073	107	15-C3026	86	17-6A936	73	22-14125-K16	171	222C7DPF	174	223C7N10	176	2620043	209
01-NA583	109	03-P4061	61	09-NAR26	109	09-N4075	107	15-C3036	86	17-6A937	73	22-14127-K16	171	222C7N05	174	223C7N12	176	2620045	209
01-NAB26	109	03-P4061-001	61	07-PA910	80	09-N4076	107	15-C3046	86	17-6A938	73	22-14142	171	222C7N07	174	223C7N15	176	2620047	209
01-NAC26	109	03-P8041	61	07-PA911	80	09-N4142	107	15-C3056	86	17-6A939	73	22-14143	171	222C7N10	174	22-64042	175	2620072	209
01-NAJ26	109	03-P8041-001	61	07-PA919	80	09-N4143	107	17-1A014	79	17-6A940	73	22-14147	171	222C7N12	174	22-64043	175	2620073	209
01-NAR26	109	03-P8051	61	07-PA920	80	09-N4147	107	17-1A024	80	17-6A941	73	22-18042	171	222C7N15	174	22-64045	175	2620075	209
01-N4042	107	03-P8051-001	61	07-PA921	80	09-N4162	107	17-1A711	79	17-6A942	73	22-18043	171	22-34042	173	22-64047	175	2620076	209
01-N4043	107	03-P8061	61	07-PA929	80	09-N4163	107	17-1A721	80	17-6A943	73	22-18045	171	22-34043	173	22-64072	175	2620143	209
01-N4045	107	03-P8061-001	61	07-04041-SS	61	09-N4165	107	17-1A910	79	17-6A944	73	22-18047	171	22-34045	173	22-64073	175	2620162	209
01-N4047	107	03-PA910	79	07-04051-SS	61	09-N4167	107	17-1A911	79	17-6A945	73	22-18072	171	22-34047	173	22-64075	175	2620163	209
01-N4072	107	03-A4001	63	07-04061-SS	61	09-N8042	107	17-1A919	79	17-6A946	73	22-18073	171	22-34072	173	22-64076	175	2620165	209
01-N4073	107	03-A8001	63	07-08041-SS	61	09-N8043	107	17-1A920	80	17-6A947	73	22-18075	171	22-34073	173	22-64142	175	2620167	209
01-N4075	107	06A000125M	220	07-08051-SS	61	09-N8045	107	17-1A921	80	17-6A948	73	22-18076	171	22-34075	173	22-64143	175	2621042	209
01-N4076	107	06A0001	220	07-08061-SS	61	09-N8047	107	17-1A925	80	17-6A949	73	22-18122-K16	171	22-34076	173	22-64147	175	2621043	209
01-N4142	107	06A100125M	220	09-2A010-185	109	09-N8072	107	17-1A929	80	17-6A950	73	22-18123-K16	171	22-34142	173	22-64162	175	2621045	209
01-N4143	107	06A1001	220	09-2A010-185-B	109	09-N8073	107	17-1AB26	79	17-6A951	73	22-18125-K16	171	22-34143	173	22-64163	175	2621047	209
01-N4147	107	06A300125M	220	09-2A010-185-T	109	09-N8075	107	17-14051	71	17-6A952	73	22-18127-K16	171	22-34147	173	22-64165	175	2621072	209
01-N4162	107	06A3001	220	09-2A011-185	109	09-N8076	107	17-14060	71	17-6A953	73	22-18142	171	22-34162	173	22-64167	175	2621073	209
01-N4163	107	06A6001	220	09-2A014-185	109	09-N8142	107	17-14061	71	17-6A954	73	22-18143	171	22-34163	173	22-68042	175	2621075	209
01-N4165	107	06A600125M	220	09-2A019-185	109	09-N8143	107	17-14070	71	17-6A955	73	22-18147	171	22-34165	173	22-68043	175	2621076	209
01-N4167	107	06A7001	220	09-2A020-185	110	09-N8147	107	17-14071	71	17-6A956	73	22-18161	171	22-34167	173	22-68045	175	2621143	209
01-N8042	107	06A9001	220	09-2A020-18															

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PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG												
2623167	209	2631162	210	2660163	211	266A926	211	2696073	212	28-13076	181	28-17163	182	31-1A125	102	31-3A020-T	102	31-38235-K16	93		
2624043	209	2631163	210	2660165	211	2690042	212	2696075	212	28-13142	181	28-17165	182	31-1A226	44	31-3A021	102	31-38237-K16	93		
2624045	209	2631165	210	2660167	211	2690043	212	2696076	212	28-13143	181	28-17167	182	31-1A426	44	31-3A021-972	102	31-38242-K04	93		
2624047	209	2631167	210	2661042	211	2690045	212	2696143	212	28-13147	181	28-18042	181	31-1A583	101	31-3A024	102	31-38243-K04	93		
2624072	209	2633042	210	2661043	211	2690047	212	2696162	212	28-13162	181	28-18043	181	31-1A824	102	31-3A029	102	31-38245-K04	93		
2624075	209	2633043	210	2661045	211	2690072	212	2696163	212	28-13163	181	28-18045	181	31-1A924	102	31-3A056	101	31-38247-K04	93		
2624076	209	2633045	210	2661047	211	2690073	212	2696165	212	28-13165	181	28-18047	181	31-1AB26	101	31-3A125	102	31-38931	77		
2624143	209	2633047	210	2661072	211	2690075	212	2696167	212	28-13167	181	28-18072	181	31-1AC26	101	31-3A226	46	31-38940	77		
2624162	209	2633072	210	2661073	211	2690076	212	269A0231	212	28-14042	181	28-18073	181	31-1AJ26	101	31-3A320	102	31-38941	77		
2624163	209	2633073	210	2661075	211	2690143	212	269A023112	212	28-14043	181	28-18075	181	31-1AN26	101	31-3A426	46	31-38950	77		
2624167	209	2633075	210	2661076	211	2690162	212	269A023114	212	28-14045	181	28-18076	181	31-1AR26	101	31-3A824	102	31-38951	77		
2626042	209	2633076	210	2661143	211	2690163	212	269A0232	212	28-14047	181	28-18142	181	31-14172-K07	91	31-3A924	102	31-38960	77		
2626043	209	2633143	210	2661162	211	2690165	212	269A926	212	28-14072	181	28-18143	181	31-14173-K07	91	31-3AB26	101	31-38961	77		
2626045	209	2633162	210	2661163	211	2690167	212	28-10042	182	28-14073	181	28-18147	181	31-14175-K07	91	31-3AC26	101	31-38970	77		
2626047	209	2633163	210	2661165	211	2691042	212	28-10043	182	28-14075	181	28-18162	181	31-14176-K07	91	31-3AJ26	101	31-3A226	46		
2626072	209	2633165	210	2661167	211	2691043	212	28-10045	182	28-14076	181	28-18163	181	31-14182-K14	91	31-3AN26	101	31-3A426	46		
2626073	209	2633167	210	2663042	211	2691045	212	28-10047	182	28-14142	181	28-18165	181	31-14183-K14	91	31-3AR26	101	31-3A824	102		
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2626143	209	2634075	210	2663047	211	2691073	212	28-10075	182	28-14162	181	28-19043	182	31-14233-K16	91	31-34173-K07	93	31-6A010-T	101		
2626162	209	2634143	210	2663072	211	2691075	212	28-10076	182	28-14163	181	28-19045	182	31-14235-K16	91	31-34175-K07	93	31-6A011	101		
2626163	209	2634163	210	2663073	211	2691076	212	28-10142	182	28-14165	181	28-19047	182	31-14237-K16	91	31-34176-K07	93	31-6A011-972	101		
2626165	209	2634167	210	2663075	211	2691143	212	28-10143	182	28-14167	181	28-19072	182	31-14242-K04	91	31-34182-K14	93	31-6A014	101		
2626167	209	2636042	210	2663076	211	2691162	212	28-10147	182	28-16042	182	28-19073	182	31-14243-K04	91	31-34183-K14	93	31-6A019	101		
262A0231	209	2636043	210	2663143	211	2691163	212	28-10162	182	28-16043	182	28-19075	182	31-14245-K04	91	31-34187-K14	93	31-6A020	102		
262A02312	209	2636045	210	2663162	211	2691165	212	28-10163	182	28-16045	182	28-19076	182	31-14247-K04	91	31-34232-K16	93	31-6A020-B	102		
262A02334	209	2636047	210	2663163	211	2691167	212	28-10165	182	28-16047	182	28-19142	182	31-18162	43	31-34233-K16	93	31-6A020-T	102		
262A926	209	2636072	210	2663165	211	2693042	212	28-10167	182	28-16072	182	28-19143	182	31-18172-K07	91	31-34235-K16	93	31-6A021	102		
2630042	210	2636073	210	2663167	211	2693043	212	28-11042	181	28-16073	182	28-19147	182	31-18173-K07	91	31-34237-K16	93	31-6A021-972	102		
2630043	210	2636075	210	2664043	211	2693045	212	28-11043	181	28-16075	182	28-19162	182	31-18175-K07	91	31-34242-K04	93	31-6A024	102		
2630045	210	2636076	210	2664047	211	2693047	212	28-11045	181	28-16076	182	28-19163	182	31-18176-K07	91	31-34243-K04	93	31-6A029	102		
2630047	210	2636143	210	2664075	211	2693072	212	28-11047	181	28-16142	182	28-19165	182	31-18182-K14	91	31-34245-K04	93	31-6A125	102		
2630072	210	2636162	210	2664143	211	2693073	212	28-11072	181	28-16143	182	28-19167	182	31-18183-K14	91	31-34247-K04	93	31-6A226	48		
2630073	210	2636163	210	2666042	211	2693075	212	28-11073	181	28-16147	182	28-1A346	182	31-18187-K14	91	31-34931	7				

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PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG	PART NUMBER	PG
316400NP80	145	316800TP80	145	31-9AC26	101	33-1A020-B	54	33-18165	43	33-34076	45	33-6A014	79	33-68109	119	33-94109	119	35-14232-K16-HAZ	197
316400NP88	145	3168001843P80	145	31-9AJ26	101	33-1A020-T	54	33-18167	43	33-34109	119	33-6A019	53	33-68142	47	33-94142	49	35-14233-K16-HAZ	197
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39-6A014	101	39-9A010-T	101	42-41001-50P	225	443800NP80	137	444400M	141	454A753D	142	47-3A913-225	126	49-3A913-N20	126	49-4A913-N20	126	49-6A913-N25	126
39-6A019	101	39-9A011	101	42-41001-63P	225	443800NP88	137	444400P	141	454A753E	142	47-3A913-237	126	49-3A913-N25	126	49-4A913-N25	126	49-6A913-N30	126
39-6A020	102	39-9A014	101	42-41002-32P	225	443800PP80	137	444400TP80	141	454A783A	142	47-3A913-250	126	49-3A913-N30	126	49-4A913-N30	126	49-6A925	62
39-6A020-B	102	39-9A019	101	42-41002-40P	225	443800TP80	137	4447001P80	141	454A783B	142	47-3A913-275	126	49-3A925	125	51151-AA089	38		
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39-6A021	102	39-9A020-B	102	42-41002-63P	225	4438002P88	137	4447002P80	141	454A783D	142	47-3A913-312	126	49-44043	125	49-64043	125	511B0N07	62
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39-6A024	80	39-9A021	102	42-41003-40P	225	443800NP88	137	4447003P80	141	454A95D	142	47-3A913-N20	126	49-44046	125	49-64046	125	511B3N07	62
39-6A029	102	39-9A021-972	102	42-41003-50P	225	453A027	138	4447003P88	141	47-34042	125	47-3A913-N25	126	49-44047	125	49-64047	125	511C7000	28
39-6A583	101	39-9A024	102	42-41003-63P	225	453A126	138	444700NP80	141	47									

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513B3N07	32	554P0D20L	34	595M0	36	5K6P0N10	196	63-1A010	37	63-18073	27	63-34165	29	63-64045	31	63-81043-MTR	161	63-9A024*	38
513B3N10	32	554P0D25L	34	595M3	36	5K6P0N12	196	63-1A010-B	37	63-18075	27	63-34167	29	63-64047	31	63-81043-MVI	162	63-9A029	38
513C7000	32	554P0D35L	34	595M7	36	5K6P0N15	196	63-1A010-T	79	63-18076	27	63-38042	29	63-64072	31	63-81073-MTR	161	63-9A125	38
513M3	32	554P0D45L	34	595P0N07	36	5K6P0N15L	52	63-1A011	37	63-18122-K16	27	63-38043	29	63-64073	31	63-81073-MVI	162	63-9A583	37
513M7	32	554P0D49L	34	595P0N10	36	5K6P0N20	196	63-1A019	37	63-18123-K16	27	63-38045	29	63-64075	31	63-81143-MTR	161	63-9A726	35
513P0D30	32	554P0N05	190	595P0N12	36	5K6P0N20L	52	63-1A020	38	63-18125-K16	27	63-38047	29	63-64076	31	63-81143-MVI	162	63-9A824	38
513P0D30473	32	554P0N07	190	595P0N15	36	5K6P0N25	196	63-1A020-B	38	63-18127-K16	27	63-38072	29	63-64142	31	63-81163-MTR	161	63-9A924	38
513P0N05	32	554P0N10	190	595P0N20	36	5K6P0N25L	52	63-1A020-T	38	63-18142	27	63-38073	29	63-64143	31	63-81163-MVI	162	63-9AB26	37
513P0N07	32	554P0N12	190	596M0	34	5K6P0N30	196	63-1A021	38	63-18143	27	63-38075	29	63-64147	31	63-84042	33	63-9AC26	37
513P0N10	32	554P0N15	190	596M6	52	5K6P0N30L	52	63-1A024	38	63-18147	37	63-38076	29	63-64162	31	63-84043	33	63-9AJ26	37
513P0N12	32	555P0D25	36	596P0N10	52	5T7M0	134	63-1A029	38	63-3A010	37	63-38142	29	63-64163	31	63-84045	33	63-9AN26	37
514B3N05	34	555P0D35	36	596P0N12	52	5T7M6	134	63-1A105	80	63-3A010-B	37	63-38143	29	63-64165	31	63-84047	33	63-9AR26	37
514B3N07	34	555P0D45	36	596P0N15	52	5T7P0JT1	134	63-1A125	38	63-3A010-T	37	63-38147	29	63-64167	31	63-84072	33	63-91043-MTR	161
514B3N10	34	555P0D49	36	596P0N20	52	5T7P0JT2	134	63-1A305	80	63-3A583	37	63-38162	29	63-68042	31	63-84073	33	63-91043-MVI	162
514B3N12	34	556P0D35	52	596P0N25	52	5T7P0JT3	134	63-1A583	37	63-3A011	37	63-38163	29	63-68043	31	63-84075	33	63-91073-MTR	161
514C7000	34	556P0D45	52	596P0N30	52	5T7P0KT1	134	63-1A824	38	63-3A011-972	37	63-38165	29	63-68045	31	63-84076	33	63-91073-MVI	162
514M3	34	556P0D49	52	597M6	52	5T7P0KT2	134	63-1A924	38	63-3A019	37	63-38167	30	63-68047	31	63-84142	33	63-91143-MTR	161
514M7	34	571B0N05185	116	5K2M0	186	5T7P0N20	134	63-1AB26	37	63-3AB26	37	63-6A010	37	63-68072	31	63-84143	33	63-91143-MVI	162
514P0D35	34	571B0N07185	116	5K2M3	186	5T7P0N25	134	63-1AC26	37	63-3AC26	37	63-6A010-B	37	63-68073	31	63-84147	33	63-91163-MTR	161
514P0D35473	34	571M0	116	5K2P0N05	186	5T7P0N30	28	63-1AJ26	37	63-3AJ26	37	63-6A010-T	37	63-68075	31	63-84162	33	63-91163-MVI	162
514P0N05	34	571M4185	116	5K2P0N07	186	61-1A346	28	63-1AN26	37	63-3AN26	37	63-6A011	37	63-68076	31	63-84163	33	63-94042	35
514P0N07	34	571P020M185	116	5K2P0N10	186	61-1A426	28	63-1AR26	37	63-3AR26	37	63-6A011-972	37	63-68142	31	63-84165	33	63-94043	35
514P0N10	34	571P025M185	116	5K3M0	188	61-1A826	66	63-11043-MTR	161	63-3A014	38	63-6A019	37	63-68143	31	63-84167	33	63-94045	35
514P0N12	34	571P032M185	116	5K3M3	188	61-3A226	30	63-11043-MVI	162	63-3A020	38	63-6A026	37	63-68147	31	63-88042	33	63-94047	35
514P0N15	36	571P0N05185	116	5K3P0N05	188	61-3A346	30	63-11073-MTR	161	63-3A020-B	38	63-6AC26	37	63-68162	31	63-88043	33	63-94072	35
515M3	36	571P0N07185	62	5K3P0N07	188	61-3A426	30	63-11073-MVI	162	63-3A020-T	38	63-6AB26	37	63-68163	31	63-88045	33	63-94073	35
515P0N07	36	591B0N05	62	5K3P0N10	188	61-3A826	32	63-11143-MTR	161	63-3A021	38	63-6AR26	37	63-68165	31	63-88047	33	63-94075	35
515P0N10	36	591B0N07	62	5K3P0N12	188	61-6A226	32	63-11143-MVI	162	63-3A021-972	38	63-6AN26	37	63-68167	37	63-88072	33	63-94076	35
515P0N12	36	591M0	62	5K4M0	190	61-6A346	32	63-11123-K14-MTR	161	63-3A024	38	63-6A014	37	63-8A010	37	63-88073	33	63-94142	35
515P0N15	36	591M4	62	5K4M3	190	61-6A426	32	63-11123-K14-MVI	161	63-3A029	38	63-6A020*	38	63-8A010-B	37	63-88075	33	63-94143	35
515P0N20	36	592M0	30	5K4M7	190	61-6A826	32	63-14042	27	63-3A125	38	63-6A020-B	38	63-8A010-T	37	63-88076	37	63-94147	35
516P0N10	52	592M3	30	5K4P0N05	190	61-CA500	66	63-14043	27	63-3A824	38	63-6A020-T*	38	63-8A011	37	63-88142	33	63-94162	35
516P0N12	52	592P0N05	30	5K4P0N07	190	61-CA593	66	63-14045	27	63-3A924	38	63-6A021	38	63-8A011-972	37	63-88143	33	63-94163	35
516P0N15	52	592P0N07	30	5K4P0N10	190	63-A4001	65	63-14047	27	63-31043-MTR	161	63-6A021-972	38	63-8A014	38	63-88147	33	63-94165	35
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63-A8001	65	69-8A925	38	69-9AB26	37	712C3N05	30	715P0EP4	36	792M3FS	30	796P0N15	52	7T5F0N20	36	CG1124AM	159	CG342A	159
63-B4002	67	69-8AB26	37	69-9AC26	37	712C3N07	30	715P0FP1	36	792P0BS3	30	796P0N20	52	7T5F0N25	36	CG1125P	159	CG342AM	159
63-B8002	69	69-8AC26	37	69-9AJ26	37	712C3N10	30	715P0GP2	36	792P0BS4	30	796P0N25	52	7T6F0N15	52	CG1141A	159	CG344A	159
63-C4003	69	69-8AJ26	37	69-9AN26	37	712C3N12	30	716P0GP2	52	792P0CS2	30	796P0N30	52	7T6F0N20	52	CG1141AM	159	CG344AM	159
63-C8003	69	69-8AN26	37	69-9AR26	37	712C7N05	30	716P0GP3	62	792P0CS4	30	7K2C3N05	186	7T6F0N20XL	52	CG1142A	159	CG345A	159
66-94042-HAZ	193	69-8AR26	37	69-9A583	37	712C7N07	30	751P9N05	62	792P0DS1L	30	7K2C3N07	186	7T6F0N25	52	CG1142AM	159	CG345AM	159
66-94043-HAZ	193	69-84042	33	69-9A726	35	712C7N10	30	751P9N07	62	793C3N05	72	7K2C3N10	186	7T6F0N25XL	52	CG1143A	159	DS1PC	44
66-94045-HAZ	193	69-84043	33	69-9A824	38	712C7N12	30	751P9N10	62	793C3N07	72	7K2C3N12	186	7T6F0N30XL	52	CG1143P	159	DS2MC	52
66-94047-HAZ	193	69-84045	33	69-9A925	38	712C7N15	30	752C3N05	186	793C3N10	72	7K3C3N05	188	7T7F0N20	134	CG1145P	159	DS3PC	94
66-94072-HAZ	193	69-84047	33	69-94042	35	712P0BP6	30	752C3N07	186	793C3N12	72	7K3C3N07	188	7T7F0N25	134	CG121A	159	DS6MC	34
66-94073-HAZ	193	69-84047-843	33	69-94043	35	712P0CP5	30	752C3N10	186	793M3FS	32	7K3C3N10	188	7T7F0N30	134	CG121AM	159	DS6PC	34
66-94075-HAZ	193	69-84072	33	69-94045	35	712P0DP4	30	752C3N12	186	793P0CS4	32	7K3C3N12	188	7T7F0N35	134	CG122A	159	DS9MC	36
66-94076-HAZ	193	69-84073	33	69-94047	35	712P0EP4	30	752C7N05	186	793P0DS1	32	7K3C7N05	188	7T7F0N40	134	CG122AM	159	LP-843	32
66-94142-HAZ	193	69-84075	33	69-94072	35	712P0S14	30	752C7N07	186	793P0DS3	32	7K3C7N07	188	7X1C3N07	62	CG123A	159	MB40-20	126
66-94143-HAZ	193	69-84076	33	69-94073	35	712P0S16	30	752C7N10	186	793P0ES2	32	7K3C7N10	188	7X1C3N10	62	CG123AM	159	MB40-25	126
66-94147-HAZ	193	69-84142	33	69-94075	35	712P0S18	30	752C7N12	186	794M3	34	7K3C7N12	190	7X1F0N10	68	CG124A	159	MB40-30	126
66-94162-HAZ	193	69-84143	33	69-94076	35	712P0S20	30	752C7N15	188	794M3L	34	7K4C3N10	190	7X1P0BS3	64	CG124AM	159	MB40-35	126
66-94163-HAZ	193	69-84147	33	69-94142	35	712P0S22	30	753C3N05	188	794P0DS1	34	7K4C3N12	190	7X1P0BS4	64	CG125A	159	MB40-40	126
66-94165-HAZ	193	69-84162	33	69-94143	35	713C3N05	46	753C3N07	188	794P0DS3	34	7K4C3N15	190	7X1P0CS1	64	CG125AM	159	MB40PFQ-20	126
66-94167-HAZ	193	69-84163	33	69-94147	35	713C3N07	46	753C3N10	188	794P0ES2	34	7K4C3N20	190	7X1P0CS4	64	CG127P	159	MB40PFQ-25	126
66-98042-HAZ	193	69-84165	33	69-94162	35	713C3N10	46	753C3N12	188	794P0FS1	34	7K4C7N10	190	7X1P0DS1	64	CG2001A	159	MB40PFQ-30	126
66-98043-HAZ	193	69-84167	33	69-94163	35	713C3N12	46	753C7N05	188	794P0FS2	34	7K4C7N12	190	7X1P0DS2	64	CG2001AM	159	MB40PFQ-35	126
66-98045-HAZ	193	69-88042	33	69-94165	35	713C7N05	32	753C7N07	188	794P0FS3	50	7K4C7N15	190	7X1P0N05	62	CG2001P	159	MB40PFQ-40	127
66-98047-HAZ	193	69-88043	33	69-94167	35	713C7N07	32	753C7N10	188	795C3N12	36	7K4C7N20	194	7X1P0N07	62	CG2002A	159	PFLUG1	127
66-98072-HAZ	193	69-88045	33	69-98042	35	713C7N10	32	753C7N12	188	795C3N15	36	7K5C3N12	194	7X1P0N10	68	CG2002AM	159	PFLUG1-90	128
66-98073-HAZ	193	69-88047	33	69-98043	35	713C7N12	32	753C7N15	190	795C3N20	36	7K5C3N15	194	7X2C3N07	62	CG2002P	159	PFLUG10	127
66-98075-HAZ	193	69-88072	33	69-98045	35	713C7N15	32	754C3N10	190	795C3N25	36	7K5C3N20	194	7X2C3N10	62	CG2003A	159	PFLUG10-90	128
66-98076-HAZ	193	69-88073	33	69-98047	35	713P0CP5	32	754C3N12	190	795M3	36	7K5C3N25	194	7X2M3	68	CG2003AM	159	PFLUG20	127
66-98142-HAZ	193	69-88075	33	69-98072	35	713P0DP4	32	754C3N15	190	795P0FS1	36	7K5C7N12	194	7X2P0N10	68	CG2003P	159	PFLUG20-90	128
66-98143-HAZ	193	69-88076	33	69-98073	35	713P0EP4	32	754C3N20	116	795P0FS2	36	7K5C7N15	194	7X3C3N10	70	CG2004A	159	PFLUG250	127
66-98147-HAZ	193	69-88142	33	69-98075	35	713P0S14	32	771C4N05185	116	795P0FS3	36	7K5C7N20	194	7X3M3	70	CG2004AM-T153	159	PFLUG250-90	128
66-98162-HAZ	193	69-88143	33	69-98076	35	713P0S16	32	771C4N07185	116	795P0GS1	36	7K5C7N25	194	7X3P0N10	70	CG2004AM	159	PFLUG30	127
66-98163-HAZ	193	69-88147	33	69-98142	35	713P0S18	32	771C4N10185	116	795P0N07	36	7K5P0N07	194	4CN30	68	CG2005A	159	PFLUG30-90	128
66-98165-HAZ	193	69-88162	33	69-98143	35	713P0S20	32	771C4N12185	116	795P0N10	36	7K5P0N10	194	61-CA500	70	CG2005AM	159	PFLUG300	127
66-98167-HAZ	193	69-88163	33	69-98147	35	713P0S22</													