

PF/PFQ

High Amperage



Main Advantages

- Durable in harsh environments
- Safety features provide maximum protection
- Easy plug insertion and removal

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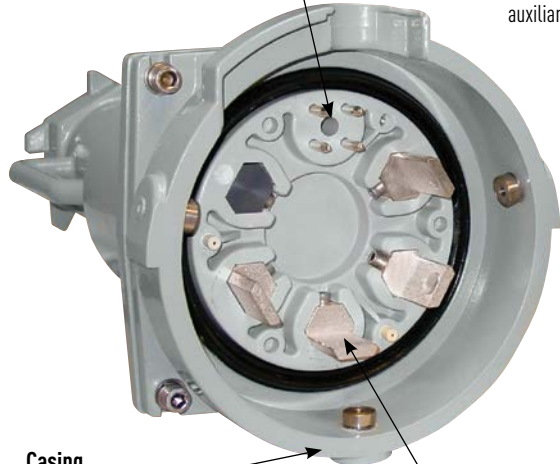
PRODUCT FEATURES

Auxiliary Pilot Contacts

Provided for use with control circuits. They close after and open before the phase contacts.

Mechanical Locking System

Ensures safety and watertightness. Mechanical lock secures the inlet to the receptacle and engages the auxiliary/pilot contacts.



Casing

Epoxy/powder coated aluminum material offers great resistance to harsh environments.

Silver Pressure Contacts

Silver material and self-cleaning action provides maximum conductivity and performance in dirty and corrosive conditions.



Safety Shutter

Protects recessed female contacts and inhibits user access to live parts.

General Ratings

Amperage	300 to 600 A
Voltage	600 VAC, 250 VDC Max
Frequency	50-60 Hz (not UL at 50 Hz)
Environmental	IP66/IP67
Temperature	Min -40°F/Max 140°F

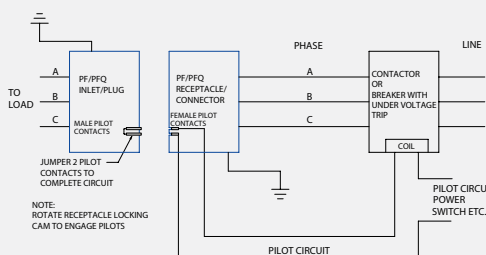
Listings

Category	UL	CSA	NOM
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	NOM-003-SCFI-2014

Listings only apply to 300 A and 400 A devices at 600V or less.

Highlighted Feature

Pilot Contacts



Line diagram of typical PF pilot control circuit

For multiple devices in a parallel circuit, contact factory for example control circuit diagrams.

Category	PF	PFQ
# Contacts	4	8
Pilot Amperage	10 A standard duty	5 A @ 240 VAC
# Contacts	Mechanical	Mechanical
# Contacts	Screw	Pre-wired

Listings only apply to 300 A and 400 A devices at 600V or less.

- Notes:**
- The mechanical locking of the plug to the receptacle via the rotation of a cam, closes the pilot contacts.
 - Failure to use a pilot/relay system can create an electrical shock/arc flash hazard.

Operating Instructions



PF devices are preferred for the ease of operation relative to pin and sleeve devices.



Insert the plug into the receptacle – this is done with little resistance relative to competitive devices.



Twist plug approximately 30° clockwise to engage the phase contacts and to make the unit watertight.



Turning the mechanical lock secures the inlet to the receptacle and closes the pilot circuit which energizes the shunt coil.

5 To disconnect, turn mechanical lock to disengage pilot contacts and de-energize the shunt coil. Twist plug 30° counterclockwise to disengage the phase contacts, withdraw plug.

PF/PFQ High Ampacity - 300-600 A

UL/CSA Ratings

- **Max Amperage & Voltage**
PFQ300 = 300 A, 600 VAC, 250 VDC
PF300 = 300 A, 600 VAC, 250 VDC
PF400 = 400 A, 600 VAC, 250 VDC
PF600 = 600 A, 600 VAC, 250 VDC
- **Current Interruption Capability**
Not for current interrupting
- **Environmental Ratings**
IP66/IP67
- **Temperature Range**
Min -40°F/Max 140°F
See pg 254 for temperatures outside of this range.
- **Wiring Capacity**
PFQ = 2 AWG to 600 MCM
PF = 2 AWG to 600 MCM
- **Certifications**
UL 1682, CSA C22.2 NO. 182.1, NOM
Listings do not apply to PF600.

! PF/PFQ devices are not intended for connection or disconnection under load. To prevent live making or breaking electrical interlocking is required.

Receptacle/Cap (female)



PFQ shown

Inlet/Cap (male)



PFQ shown

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

North American Configurations

VOLTAGE	POLARITY	PART #		PART #	
		PFQ 300**	PF300	PFQ 300**	PF300
277 V	1P+N+G	47-34045	49-34045	47-38045	49-38045
347 V	1P+N+G	47-34145	49-34145	47-38145	49-38145
480 V	2P+G	47-34042	49-34042	47-38042	49-38042
277 480 V	2P+N+G	47-34046	49-34046	47-38046	49-38046
480 V	3P+G	47-34043	49-34043	47-38043	49-38043
277 480 V	3P+N+G	47-34047	49-34047	47-38047	49-38047
600 V	2P+G	47-34142	49-34142	47-38142	49-38142
347 600 V	2P+N+G	47-34146	49-34146	47-38146	49-38146
600 V	3P+G	47-34143	49-34143	47-38143	49-38143
347 600 V	3P+N+G	47-34147	49-34147	47-38147	49-38147

** PFQ300 devices are differentiated from similarly rated PF300 devices in their smaller size, lighter weight and different pilot contacts.

Main Options Part

Receptacle with no cap	Recept # - 48
Receptacle with lockout hole	Recept # - 843
Inlet with no cap	Inlet # - 48
Inlet with lockout hole	Inlet # - 843

Notes:

- Metal caps are provided as standard with inlets and receptacles.
- Heat shrink wrap is provided with each inlet and receptacle to provide insulation between terminals.
- **Lugs are not included.** The PF and PFQ contacts utilize bolt-on lug type wire terminals, which require a compression lug with a 9/16" or 5/8" hole. The angled handle requires straight lugs; the straight handle requires 90° lugs. See pgs 127-128

! See pages 231-240 for detailed information on these options

Receptacle/Cap (female)



PF shown

Inlet/Cap (male)



PF shown

North American Configurations

VOLTAGE	POLARITY	PART #		PART #	
		PF400	PF600	PF400	PF600
277 V	1P+N+G	49-44045	49-64045	49-48045	49-68045
347 V	1P+N+G	49-44145	49-64145	49-48145	49-68145
480 V	2P+G	49-44042	49-64042	49-48042	49-68042
277 480 V	2P+N+G	49-44046	49-64046	49-48046	49-68046
480 V	3P+G	49-44043	49-64043	49-48043	49-68043
277 480 V	3P+N+G	49-44047	49-64047	49-48047	49-68047
600 V	2P+G	49-44142	49-64142	49-48142	49-68142
347 600 V	2P+N+G	49-44146	49-64146	49-48146	49-68146
600 V	3P+G	49-44143	49-64143	49-48143	49-68143
347 600 V	3P+N+G	49-44147	49-64147	49-48147	49-68147



INSTALLATION ACCESSORIES – SIZE C & F

When properly installed, all accessories meet or exceed the environmental ratings of the devices they are mounted to; unless otherwise noted.

HANDLES

METAL STRAIGHT HANDLE	ANGLE	PART #
PF shown PFQ300	0°	47-3A013-XXX
PF300	0°	49-3A013-XXX
PF400	0°	49-4A013-XXX
PF600	0°	49-6A013-XXX

METAL ANGLE HANDLE	ANGLE	PART #
PFQ300	90°	47-3A913-XXX

THREADED CLAMP WITH CABLE RANGE	SUFFIX #
2.000-2.125"	-200
2.125-2.250"	-225
2.250-2.375"	-237
2.375-2.500"	-250
2.500-2.750"	-275
2.750-3.000"	-300
3.000-3.125"	-312
3.125-3.350"	-335
3.350-3.577"	-350

NPT ADAPTER	NPT	SUFFIX #
	2"	-N20
	2 1/2"	-N25
	3"	-N30

Threaded Adapter

For available cord grips, see pg 159

90° ANGLED METAL HANDLE WITH BOLT-ON CLAMP	ANGLE	PART #
PF300/400/600	90°	49-6A913-XX



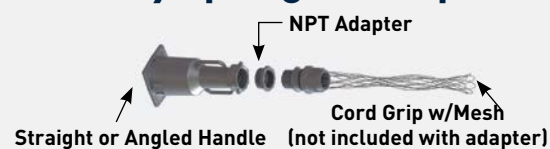
BOLT-ON CLAMP WITH CABLE RANGE	SUFFIX #
1.575"-1.968"	-50
1.968"-2.362"	-60
2.362"-2.756"	-70
2.756"-3.150"	-80
3.150"-3.543"	-90

NPT ADAPTER	NPT	SUFFIX #
	2"	-N20
	2 1/2"	-N25
	3"	-N30

Bolt-on Adapter

For available cord grips, see pg 159

Accessory Spotlight - Adapter



The adapter accessory allows the user to connect a third-party cord grip to the PF/PFQ handle.

BOXES

METAL BOX	PART #
PFQ300	MB40PFQ-XX
PF300	MB40-XX
PF400	MB40-XX
PF600	MB40-XX

This box is a heavy-duty powder coated aluminum back box with removable cover. Conduit entry hub up to 4" can be ordered on one or both ends or even on the back of the enclosure. Multiple hubs and sizes can be ordered for installs with parallel entry's on one end of the box.

HUB SIZES	NPT	XX (SUFFIX #)
	2"	-20
	2 1/2"	-25
	3"	-30
	3 1/2"	-35
	4"	-40

MISC. ACCESSORIES

INLET METAL CAP	PART #
PFQ300	47-3A126
PF300	49-3A126
PF400	49-4A126
PF600	49-6A126

RECEPTACLE METAL CAP	PART #
PFQ300	47-3A925
PF300	49-3A925
PF400	49-4A925
PF600	49-6A925

WEIGHTS

PART	PF	PFQ
Inlet	15 lbs	9 lbs
Receptacle	25 lbs	12 lbs
Angled Handle	15 lbs	12 lbs
Straight Handle	10 lbs	10 lbs
Junction Box	45 lbs	45 lbs
Cap	12 lbs	3 lbs

PF/PFQ High Ampacity

Straight Barrel Lugs

! MELTRIC recommends using lugs with tangs that do not exceed 1 3/4".



! Lugs are not included with PF/PFQ devices - order separately

PART #	WIRE SIZE CLASS B, C	WIRE SIZE (FLEX) CLASS G, H, I, K, M, DLO
PFLUG1	1 AWG	2 AWG
PFLUG10	1/0 AWG	1 AWG
PFLUG20	2/0 AWG	1/0 AWG
PFLUG30	3/0 AWG	2/0 AWG
PFLUG40	4/0 AWG	3/0 AWG
PFLUG250	250 kcmil	4/0 AWG
PFLUG300	300 kcmil	250 kcmil (G, H)
PFLUG350	350 kcmil	250/262 kcmil (I, K, M, DLO)
PFLUG400	400 kcmil	300/313 kcmil
PFLUG500	500 kcmil	350/373 kcmil
PFLUG600	600 kcmil	400/444 kcmil
PFLUG650	650 kcmil	500/535 kcmil

Application Note

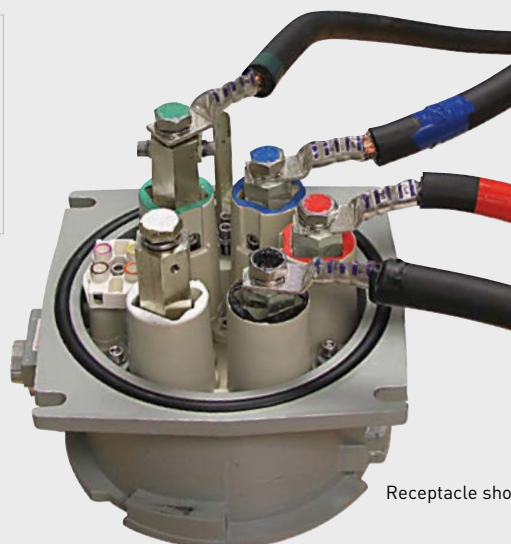
Installation Accessory: Angled Handle



Straight Barrel Lugs are used on PF/PFQ devices with angled handles.



Apply heat shrink over lugs at terminals (supplied but not shown).



Receptacle shown

90° Bent/Angle Lugs

! Lugs are not included with PF/PFQ devices - order separately



! MELTRIC recommends using lugs with tangs that do not exceed 1 3/4".

PART #	WIRE SIZE CLASS B, C	WIRE SIZE (FLEX) CLASS G, H, I, K, M, DLO
PFLUG1-90	1 AWG	2 AWG
PFLUG10-90	1/0 AWG	1 AWG
PFLUG20-90	2/0 AWG	1/0 AWG
PFLUG30-90	3/0 AWG	2/0 AWG
PFLUG40-90	4/0 AWG	3/0 AWG
PFLUG250-90	250 kcmil	4/0 AWG
PFLUG300-90	300 kcmil	250 kcmil (G, H)
PFLUG350-90	350 kcmil	250/262 kcmil (I, K, M, DLO)
PFLUG400-90	400 kcmil	300/313 kcmil
PFLUG500-90	500 kcmil	350/373 kcmil
PFLUG600-90	600 kcmil	400/444 kcmil
PFLUG700-90	700 kcmil	500/535 kcmil

Application Note

Installation Accessory: Straight Handle



90° Bent Lugs are used on PF/PFQ devices with straight handles.



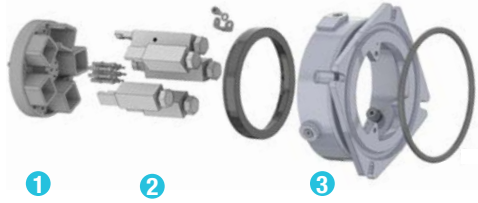
! Apply heat shrink over lugs at terminals (supplied but not shown).



PF/PFQ Spare Parts

Male Configuration

PFQ pictured



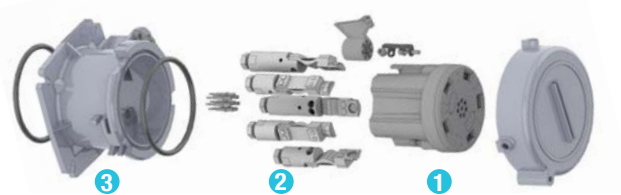
PF pictured



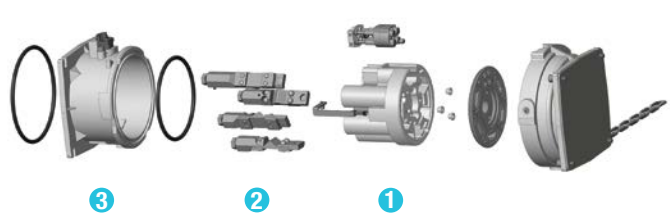
	PFQ300 METAL	PF300 METAL	PF400 METAL	PF600 METAL
1 Plug Insulator with Pilots	47-3A010	49-3A010	49-4A010	49-6A010
2 Phase Contact	47-3A011	49-3A011	49-4A011	49-6A011
2 Neutral Contact	47-3A011N	49-3A011N	49-4A011N	49-6A011N
2 Plug Ground Contact	47-3A019	49-3A019	49-4A019	49-6A019
3 Plug Metal Casing	47-3A014	49-3A014	49-4A014	49-6A014

Female Configuration

PFQ pictured



PF pictured



	PFQ300 METAL	PF300 METAL	PF400 METAL	PF600 METAL
1 Receptacle Insulator with Pilots	47-3A020	49-3A020	49-4A020	49-6A020
2 Phase Contact	47-3A021	49-3A021	49-4A021	49-6A021
2 Neutral Contact	47-3A021N	49-3A021N	49-4A021N	49-6A021N
2 Ground Contact	47-3A029	49-3A029	49-4A029	49-6A029
3 Receptacle Metal Casing	47-3A024	49-3A024	49-4A024	49-6A024
4 Cap	47-3A925	49-3A925	49-4A925	49-6A925

Part numbers in catalog are for current revisions, others may be available upon request.

Please provide full part number for accurate part alignment

For replacement parts contact Customer Service at 800-433-7642.

DIMENSIONS – Provided in Inches

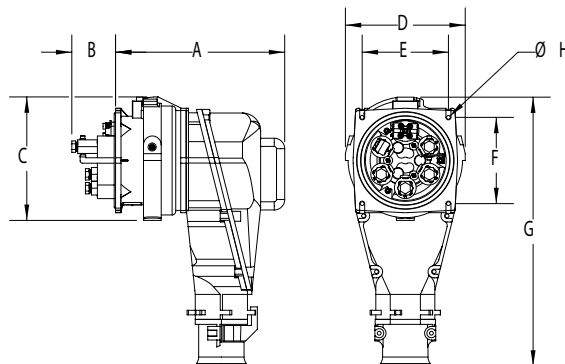
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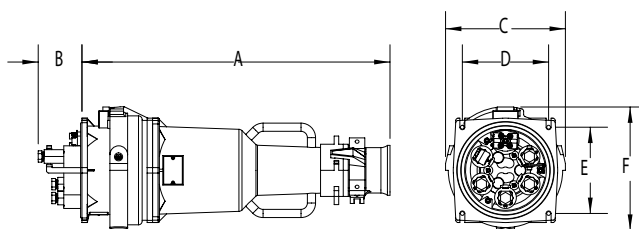
Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

Angled Plug



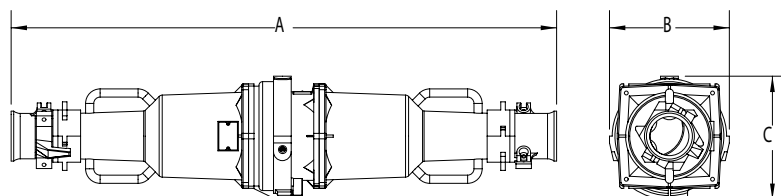
PRODUCT	A	B	C	D	E	F	G	H
PFQ	13.94	2.72	9.61	7.95	5.71	5.71	18.54	0.43
PF	14.67	3.79	10.71	10.39	7.48	7.48	23.33	0.43

Straight Plug



PRODUCT	A	B	C	D	E	F
PFQ	25.40	2.72	7.95	5.71	5.71	9.61
PF	26.72	3.79	10.39	7.48	7.48	10.69

Connector/Plug



PRODUCT	A	B	C
PFQ	46.50	9.61	7.95
PF	47.31	10.39	10.69

HIGH IMPACT

