

PF

HEAVY-DUTY PLUGS & SOCKETS 315 A / 400 A / 500 A / 600 A

- ▶ UP TO 600 A / 1000 V
- ▶ AUTOMATIC IP66/IP67 WATER- AND DUST-TIGHT
- ▶ MECHANICAL AND ELECTRICAL INTERLOCKING
- ▶ UP TO 6 AUXILIARY AND 2 PILOT CONTACTS

Big equipment and gensets power supply : in quarries, tunnel boring machines, port cranes, mining equipment...

MECHANICAL FEATURES



1 Off load engagement. 2 Automatically watertight. 3 Locking the plug in the socket closes the pilots and connects the main circuit.

Pilot contacts: Designed to connect after and disconnect before the phase contacts

IK10 metal casing
High resistance to shocks

Electromechanical interlocking mechanism

The locking mechanism guarantees safe and watertight connection and engages the pilot contacts

Lateral spring-loaded silver butt-contacts. Silver is an excellent conductor and the plug engagement cleans contacts automatically.

Safety shutter IP4X/ IPXXD (PFQ) IP2X (PFC)

SPECIFICATION

315 to 600 A, IP66/IP67 socket-outlets with separate connection of phases and pilots (pilots first), safety shutter (IP4X/IPXXD socket-outlet) solid silver butt-contacts.



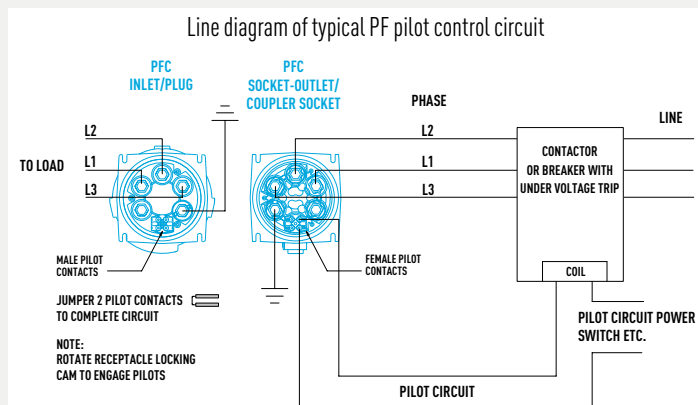
TECHNICAL FEATURES

Socket-outlets that must be linked to switch/contactor via the pilot contacts.

	PFQ3	PFQ4	PFC4	PFC5	PFC6
Rated current (In)	315 A	400 A	400 A	500 A	600 A
Umax	690 V	690 V	1000 V	1000 V	1000 V
Auxiliary contacts available	6	6	2	2	2
Pilot contacts	2	2	2	2	2
Keying positions ⁽¹⁾	10	10	7	7	7
Ambient temperature	-40 °C to +60 °C for all PF				

⁽¹⁾ To distinguish between different power supplies and applications

INFO +



Pilot Contacts

	PFC	PFQ
Pilot contacts	2	2
Pilot Amperage	20 A	10 A
Interlocking Type	Mechanical	Mechanical
Terminal Type	Screw	Solder/crimp

Notes:

- The mechanical locking of the plug to the socket-outlet, via the rotation of a cam, closes the pilot contacts.
- Failure to use a pilot/relay system can create an electrical shock hazard.

STANDARDS ASPECTS

PF plugs and sockets comply with:

- The European Low Voltage Directive 2006/95/CE (2014/35/EU from April 20 2016),
- The French decree dated 20 December 2011 pertaining to the wiring and operating conditions of movable electrical apparatuses, and to NF C15-100 French standard
- The decrees relating to workers' protection in Belgium, Spain and Italy.

Also certified by UL, TR CU (GOST) and CSA (American, Russian and Canadian inspection laboratories).



PFQ3 & Q4

HIGH-CURRENT PLUGS & SOCKETS

315 A and 400 A
IP66/IP67

TYPICAL CONFIGURATION



WALL MOUNTING INLET PFQ3



COUPLER SOCKET PFQ3



Box
474A023 ---



Inlet
4738017



Straight handle
474A013 ---



Socket-outlet
4734017

MAIN FEATURES

Rated current	315 A (PFQ3) / 400 A (PFQ4)
Maximum voltage	690 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Shock resistance	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	95 - 185 mm ²
Stranded wiring (min-max)	95 - 185 mm ²
Wiring for single or multi entry	
Keying positions	10
Auxiliary contacts (10 A / 400 V)	6
Pilot contacts (10 A / 400 V)	2

SOCKET-
OUTLET female
PFQ3 (315 A)



INLET male
PFQ3 (315 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
380 - 440 V	3P+E	4734013	4738013
380 - 440 V	3P+N+E	4734017	4738017
660 - 690 V	3P+E	4734193	4738193
660 - 690 V	3P+N+E	4734197	4738197

► Other voltages, frequencies and contact configurations are available (see page 10).

SOCKET-
OUTLET female
PFQ4 (400 A)



INLET male
PFQ4 (400 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
380 - 440 V	3P+E	4744013	4748013
380 - 440 V	3P+N+E	4744017	4748017
660 - 690 V	3P+E	4744193	4748193
660 - 690 V	3P+N+E	4744197	4748197

► Other voltages, frequencies and contact configurations are available (see page 10).

BOXES

Cable gland included



	Wiring from 95 to 150 mm ²	Wiring from 150 to 185 mm ²
46 - 50 mm	474A023050	474A023550
51 - 55 mm	474A023055	474A023555
56 - 60 mm	474A023060	474A023560
61 - 65 mm	474A023065	474A023565
66 - 70 mm	474A023070	474A023570
71 - 75 mm	474A023075	474A023575
76 - 80 mm	474A023080	474A023580
81 - 85 mm	474A023085	474A023585
86 - 90 mm	474A023090	474A023590

On request: boxes for installation in ducts, boxes equipped with circuit breaker, earth-leakage switch, contactor,...

HANDLES**Straight *****Angled 90°**

	Straight *	Angled 90°
46 - 50 mm	474A013-50	474A913-50
51 - 55 mm	474A013-55	474A913-55
56 - 60 mm	474A013-60	474A913-60
61 - 65 mm	474A013-65	474A913-65
66 - 70 mm	474A013-70	474A913-70
71 - 75 mm	474A013-75	474A913-75
76 - 80 mm	474A013-80	474A913-80
81 - 85 mm	474A013-85	474A913-85
86 - 90 mm	474A013-90	474A913-90

* Trumpet gland
available on requestA right angled cable
lug M14
with insulated sleeveStraight cable
lug M14
with insulated sleeve**INFO +****Electrical interlocking**

PFC/PFQ devices are not intended for connection or disconnection under load. Electrical interlocking with a switch or a pilot controlled contactor is required. Boxes with the following

equipment are available upon request:

- circuit breaker or differential switch,
- contactor,
- fuses,
- loop-out enclosures,
- terminals for single pole cables...

ACCESSORIES & OPTIONS

**Key for locking and
operating pilot contacts**
473A393



Inlet lid
474A126



PFC4, C5 & C6

HIGH-CURRENT PLUGS & SOCKETS

400 A to 600 A
IP66/IP67

TYPICAL CONFIGURATION



WALL MOUNTING SOCKET **PFC4**



PLUG **PFC4**



Box
496A023 ---



Socket-outlet
4944017



Angled Handle
496A913 ---



Inlet
4948017

MAIN FEATURES

Rated current	400 A (PFC4) / 500 A (PFC5) / 600 A (PFC6)
Maximum voltage	1000 V
IP protection lid closed	IP66/IP67
IP protection connected plug	IP66/IP67
Shock resistance	IK10
Ambient temperature	-40 °C to +60 °C

Flexible wiring (min-max)	95 - 240 mm ²
Stranded wiring (min-max)	95 - 240 mm ²
Wiring for multi entry	
Keying positions	7
Auxiliary contacts (20 A / 400 V)	2
Pilot contacts (20 A / 400 V)	2

SOCKET-
OUTLET female
PFC4 (400 A)



INLET male
PFC4 (400 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
380 - 440 V	3P+E	4944013	4948013
380 - 440 V	3P+N+E	4944017	4948017
660 - 690 V	3P+E	4944193	4948193
660 - 690 V	3P+N+E	4944197	4948197
1000 V	3P+E	4944223	4948223

SOCKET-
OUTLET female
PFC5 (500 A)



INLET male
PFC5 (500 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
380 - 440 V	3P+E	4954013	4958013
380 - 440 V	3P+N+E	4954017	4958017
660 - 690 V	3P+E	4954193	4958193
660 - 690 V	3P+N+E	4954197	4958197
1000 V	3P+E	4954223	4958223

SOCKET-
OUTLET female
PFC6 (600 A)



INLET male
PFC6 (600 A)



Voltage 50 Hz	Polarity	Part no.	Part no.
380 - 440 V	3P+E	4964013	4968013
380 - 440 V	3P+N+E	4964017	4968017
660 - 690 V	3P+E	4964193	4968193
660 - 690 V	3P+N+E	4964197	4968197
1000 V	3P+E	4964223	4968223

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Straight *



Angled 90°

	Straight *	Angled 90°
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61 - 65 mm	496A013-65	496A913-65
66 - 70 mm	496A013-70	496A913-70
71 - 75 mm	496A013-75	496A913-75
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ACCESSORIES & OPTIONSInlet lid
494A126

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DERRICK
INTERNATIONAL

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