FSQC, FP Series Sockets and plugs from 10 A to 63 A

FSQC series sockets are manufactured in two phase + earth (PE) and three phase + earth (PE) versions. They are therefore suitable for single phase or three phase loads. They have an automatic circuit breaker with both thermal (overload) protection and magnetic (short circuit) protection with a typical "C" curve for electrical loads and a fixed factory default trip current threshold.
The range includes two pole sockets + earth (PE), three pole sockets + earth (PE), with a current capacities from 10A up to a maximum of 63A, maximum voltage of 690VAC and frequency of 50/60Hz.
Cortem has chosen to adopt industrial type switches for these sockets, as well, and they can be equipped with 63A FP series plugs.
These sockets can be used in any environment with a potentially explosive atmosphere, and are manufactured so they cannot be used with industrial type plugs.

Manufacturer applies a tamper-evident holographic security label to its products, complete with a unique authentication numeric code, to combat the illegal sale of imitations and counterfeits, as well as guarantee the authenticity of its products. Failure to observe international standards creates serious risks for the environment and, above all, for the personnel working with the systems on a daily basis.

Sectors of application:

Petroleum refineries | Chemical and petrochemical plants | Onshore facilities | Offshore facilities | Petroleum loading/unloading pontoons | Low temperatures | Fuel storage facilities

EMPTY ENCLOSURE CERTIFICATION DATA

Classification:	Group II	Category 2GD			
Installation: EN 60079.14	zone 1 - zone 2 (Gas)	zone 21 - zone 22 (Dust)			
Marking:	CE 0722 Ex II 2 GD; Ex d IIC T6 Gb; Ex tb IIIC T85°C Db IP65				
Certificate:	ATEX CESI 04 ATEX 043				
	IEC Ex CES 11.0012X	For all IEC Ex, TR CU, and INMETRO certification data, contact comm@antideflagrantigce.com			
	TR CU AVAILABLE				
	INMETRO AVAILABLE				
Standards:	CENELEC EN 60079-0: 2012, EN 60079-1: 2007, EN60079-31: 2009 and European Directive 2014/34/EU. IEC 60079-0: 2010, IEC 60079-1: 2007, IEC 60079-31: 2008 RoHS Directive 2002/95/EC.				
Temperature class:	85°C (T6)				
Ambient temp.:	-20°C +40°C	With internal 100A rated current switch			
	-20°C +55°C	With internal 125A rated current switch			
Degree of protection:	IP65				

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FSQC

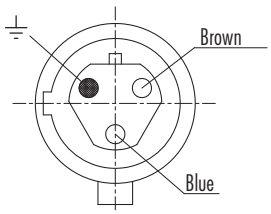
FP

MECHANICAL FEATURES

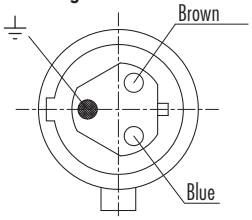
Socket body:	Low copper content aluminium alloy, complete with wall fastening lugs and threaded socket closure cap attached to body with a safety chain
Lid:	Screw fastened, aluminium alloy with low copper content. Used to access socket and make electrical connection
Plug:	Low copper content aluminium alloy, complete with plastic lock rings
Pins:	Nickel-plated brass
Gaskets:	Acid, hydrocarbon and high temperature resistant silicon positioned between the body and the lid
Certificate label:	Adhesive affixed to external surface
Screws:	Stainless steel
Earth screw:	M6 external, M5 internal
Coating:	Polyester RAL 7035 (Light grey)
Threaded entry points:	One upper and one lower Ø 1" (FSQC-2...) One upper and one lower Ø 1 1/2" (FSQC-3...)
Resistenza alla corrosione:	The STANDARD of the aluminium alloy used by manufacturer has passed the tests required by standards EN60068-2-30 (hot-humid cycles) and EN60068-2-11 (salt fog test)
Safety system:	The sockets have an interlocked disconnect switch with plug. The rotary movement together with the closing/opening operations which occur inside a special explosion-proof chamber ensure any explosion in the presence of gas is contained. The electrical circuit is connected only after the SPY series plug has been correctly inserted into its seat, and ensures it can only be removed once the electrical circuit has been disconnected.

Internal layout of power and switching modules, in main markings (front view of FSQC socket)

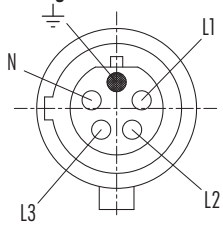
Marking 2P+T 220V-250V



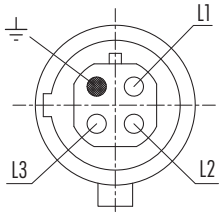
Marking 2P+T 115V-125V



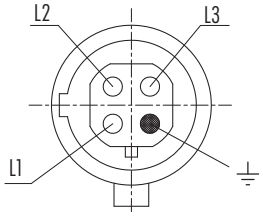
Marking 3P+N+T 115V-125V



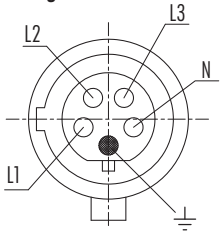
Marking 3P+T 380V-415V



Marking 3P+T 220V-250V



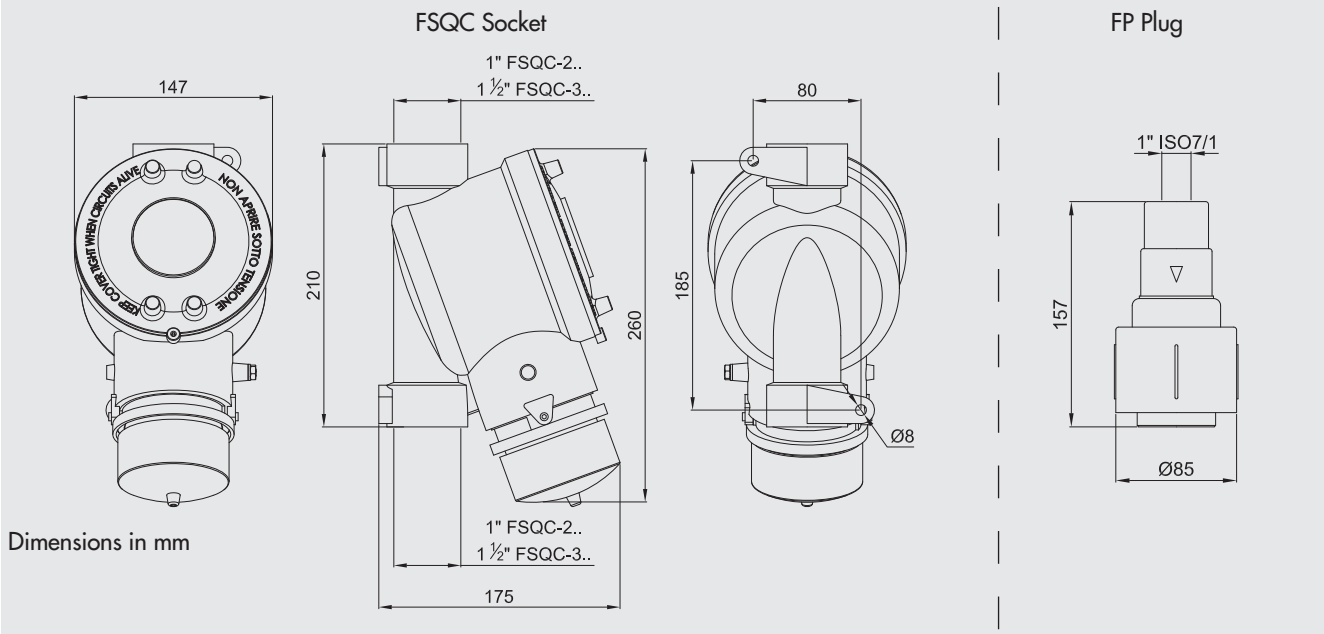
Marking 3P+N+T 220V-250V



ELECTRICAL FEATURES

Rated voltage: Max. 440 V
Rated frequency: Max. 50/60 Hz
Rated current: From 10 A to 63 A
Cable entry: no. 2 on the socket and no. 1 on the plug
Max. cable cross-section: Max. 10 mm²

DIMENSIONAL DRAWING



CODE SELECTION TABLE

SOCKETS				
NUMBER OF POLES	MAX. CAPACITY (A)	ENTRY POINTS	WEIGHT (Kg)	SOCKET CODE
2P + ⏚	10 A	2 x 1"	3.15	**FSQC-23310**
2P + ⏚	15 A	2 x 1"	3.15	**FSQC-23315**
2P + ⏚	20 A	2 x 1"	3.15	**FSQC-23320**
2P + ⏚	30 A	2 x 1"	3.15	**FSQC-23330**
2P + ⏚	40 A	2 x 1"	3.15	**FSQC-23340**
2P + ⏚	50 A	2 x 1"	3.15	**FSQC-23350**
2P + ⏚	63 A	2 x 1"	3.15	**FSQC-23363**
3P + ⏚	10 A	2 x 1"	3.37	**FSQC-23410**
3P + ⏚	15 A	2 x 1"	3.37	**FSQC-23415**
3P + ⏚	20 A	2 x 1"	3.37	**FSQC-23420**
3P + ⏚	30 A	2 x 1"	3.37	**FSQC-23430**
3P + ⏚	40 A	2 x 1"	3.37	**FSQC-23440**
3P + ⏚	50 A	2 x 1"	3.37	**FSQC-23450**
3P + ⏚	63 A	2 x 1"	3.37	**FSQC-23463**

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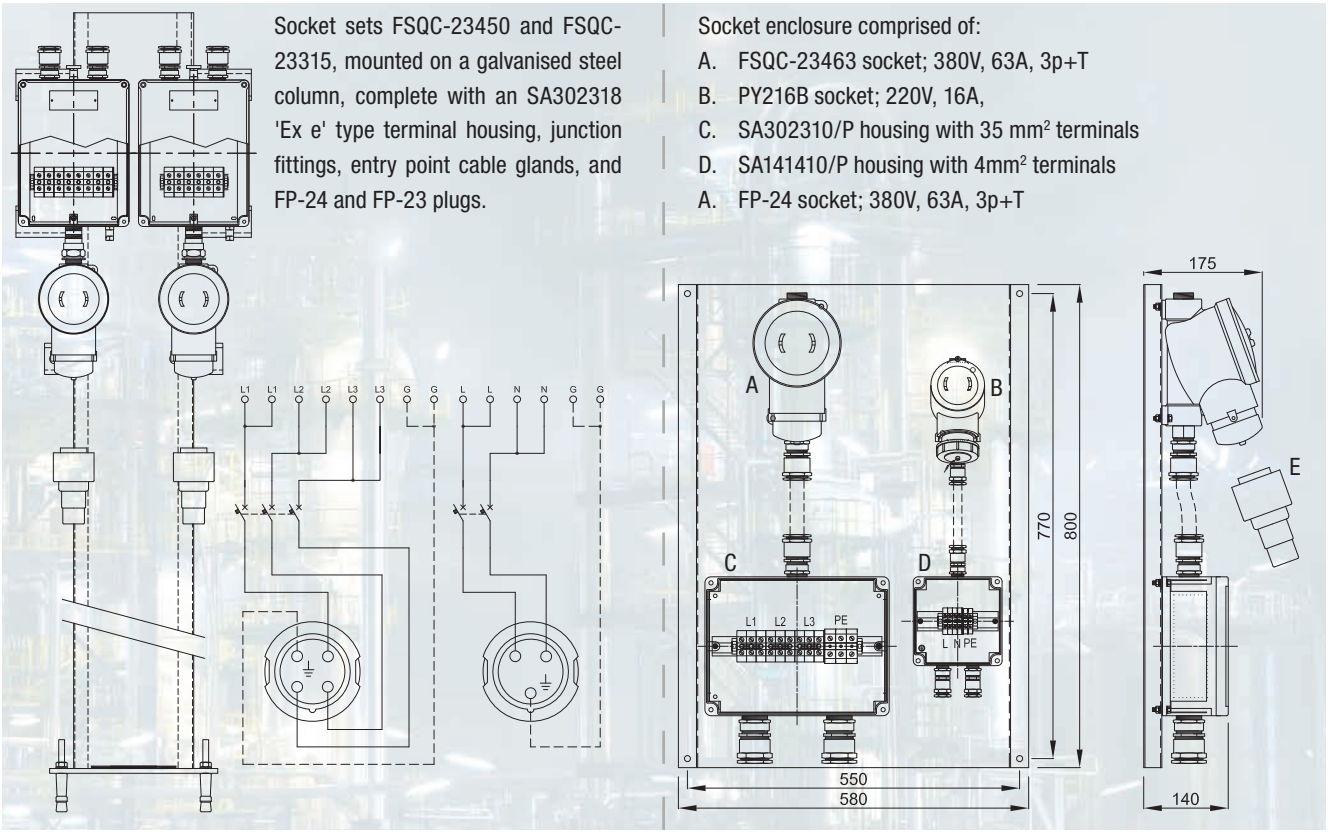
CODE SELECTION TABLE

SOCKETS				
NUMBER OF POLES	MAX. CAPACITY (A)	ENTRY POINTS	WEIGHT (Kg)	SOCKET CODE
2P + ⏚	10 A	2 x 1 1/2"	3.05	**FSQC-33310**
2P + ⏚	15 A	2 x 1 1/2"	3.05	**FSQC-33315**
2P + ⏚	20 A	2 x 1 1/2"	3.05	**FSQC-33320**
2P + ⏚	30 A	2 x 1 1/2"	3.05	**FSQC-33330**
2P + ⏚	40 A	2 x 1 1/2"	3.05	**FSQC-33340**
2P + ⏚	50 A	2 x 1 1/2"	3.05	**FSQC-33350**
2P + ⏚	63 A	2 x 1 1/2"	3.05	**FSQC-33363**
3P + ⏚	10 A	2 x 1 1/2"	3.27	**FSQC-33410**
3P + ⏚	15 A	2 x 1 1/2"	3.27	**FSQC-33415**
3P + ⏚	20 A	2 x 1 1/2"	3.27	**FSQC-33420**
3P + ⏚	30 A	2 x 1 1/2"	3.27	**FSQC-33430**
3P + ⏚	40 A	2 x 1 1/2"	3.27	**FSQC-33440**
3P + ⏚	50 A	2 x 1 1/2"	3.27	**FSQC-33450**
3P + ⏚	63 A	2 x 1 1/2"	3.27	**FSQC-33463**

PLUGS					
NUMBER OF POLES	MAX. CAPACITY (A)	ENTRY POINT	FOR SOCKET TYPE	WEIGHT (Kg)	PLUG CODE
2P + ⏚	63 A	1 x 1"	FSQC (2P+T)	0.82	**FP-23**
3P + ⏚	63 A	1 x 1"	FSQC (3P+T)	0.83	**FP-24**

Example installations



Socket sets FSQC-23450 and FSQC-23315, mounted on a galvanised steel column, complete with an SA302318 'Ex e' type terminal housing, junction fittings, entry point cable glands, and FP-24 and FP-23 plugs.

Socket enclosure comprised of:

A. FSQC-23463 socket; 380V, 63A, 3p+T
B. PY216B socket; 220V, 16A,
C. SA302310/P housing with 35 mm² terminals
D. SA141410/P housing with 4mm² terminals
A. FP-24 socket; 380V, 63A, 3p+T