

OPTIMA-EX Series

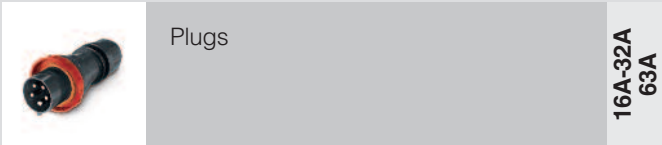


PLUGS

1
2
ATEX [Ex II 2 D]
3



VERSIONS



PRODUCTS FOR USE IN A POTENTIALLY EXPLOSIVE ENVIRONMENT

Scame offers products suitable for installation into environments under potential risk of explosion identified as Zone 21/22 Db-Dc and that enter into the field of application for the ATEX Directive (European Directive 94/9/CE).



PLUG LABEL
OPTIMA-EX SERIES

SCAME 2014	
Via Costa Ertà 15 Parre BG ITALY	
3P+N+± - 32A - 6h / 346-415V~	
218.EX3237	
IMQ 11 ATEX 011	
Ex tb IIIC Db IP66	
T90°C Ta -25 + +60°C	
DO NOT OPEN WHEN ENERGIZED IN PRESENCE OF EXPLOSIVE ATMOSPHERE	

REFERENCE STANDARDS

ATEX

EN 60079-0

Electrical apparatus for use in the presence of combustible dust.
Part 0: General requirements.

ATEX

EN 60079-31

Electrical apparatus for use in the presence of combustible dust.
Part 31: Protection by enclosures 'tD'.

EN 60309-1

Plugs, socket outlets and couplers for industrial purposes.
Part 1: general requirements.

EN 60309-2

Plugs, socket outlets and couplers for industrial purposes.
Part 2: dimensional interchangeability requirements for pin and contact-tube accessories of harmonised configurations.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Limited Resistance	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant

For specific substances please contact our technical service.

■ TECHNICAL CHARACTERISTICS

Rated current:	16A-32A-63A
Rated voltage:	100÷690V~
Frequency:	50÷60Hz
Insulating voltage:	500/690V~
Self-extinguishing GW test:	960°C
Self-extinguishing UL94:	V0
ATEX Code:	Ex II 2 D
Ex Protection type:	Ex tb IIIC T90°C Db IP66 Ta -25°C +60°C
Maximum permissible surface temperature:	T90°C
Protection degree:	IP66
Impact Resistance:	7J
Plugs material:	Thermoplastic
Plugs colour:	Black RAL9011

■ ATEX CERTIFICATE

Plugs 16A-32A-63A: **IMQ 11 ATEX 011**

■ WIRING OPERATIONS

Wiring capacity of the terminals (mm²)

Rated current (A)	Plugs	
	Min	Max
16A	2,5	2,5
32A	6	6
63A	16	16

(*) In case of flexible cable max 70 mm².

OPTIMA-EX Series



TECHNICAL FEATURES

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OPTIMA-EX Series	Unit	Value			
Rated Current		16A	32A	63A	
Code		218.16...-EX	218.32...-EX	218.63...-EX	
Suitable Size cables Ground-Terminals	(mm ²)	2.5	6	16	
Power Supply Terminals - Tightening-Torque	(Nm)	0.8	0.8	2.2	
Cable size accepted by Cable-Clamp (eg.H07RN-F)	(mm)	2P+E	10.9-14	14.1-18	22-34
		3P+E	12.1-15.5	15.7-20	22-34
		3P+N+E	13.3-17	17.5-22.5	22-34
Cable Gland/Cable-Clamp Tightening-Torque	(Nm)	2P+E	5.6	5.6	13
		3P+E	5.6	5.6	13
		3P+N+E	5.6	9	13
Cable-Gland/Cable-Clamp (Screw) - Tightening-Torque	(Nm)	-	-	0.8	
Handle Screws - Tightening-Torque	(Nm)	-	-	0.9	

Rated Current	Max rated current			Cable size ADVANCE-GRP[EX]	ΔT cable entry	ΔT cable
	T. amb 40°C	T. amb 50°C	T. amb 60°C			
16A	-	-	16A	4 mm ² Stranded-cable	20,3 K	-
32A	-	-	25A	10 mm ² Stranded-cable	21,1 K	-
63A	55A	50A	45A	25 mm ² Stranded-cable	20,4 K	85°C