

OPTIMA-EX[GD] Series



CORPELIMA
Importadores y Líderes en Soluciones Eléctricas.

PLUGS



VERSIONS



Plugs

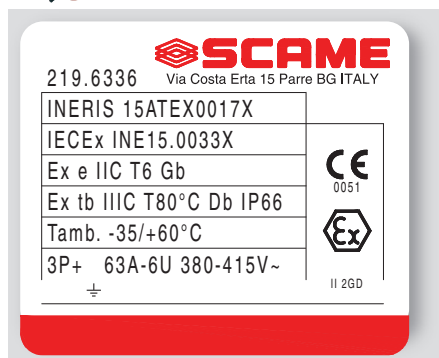
16A-32A
63A-125A

PRODUCTS FOR USE IN A POTENTIALLY EXPLOSIVE ENVIRONMENT

Scame offers products suitable for installation into environments under potential risk of explosion identified as Zone 1/2 and 21/22 and that enter into the field of application for the ATEX Directive (European Directive 94/9/CE and IECEx).



PLUG LABEL
OPTIMA-EX[GD] SERIES



REFERENCE STANDARDS

ATEX
IECEx

IEC/EN 60079-0
Electrical apparatus for use
in the presence of combustible dust.
Part 0: General requirements.

ATEX
IECEx

IEC/EN 60079-1
Explosive Atmospheres.
*Part 1: equipment protection
by flameproof enclosures "d"*

ATEX
IECEx

IEC/EN 60079-31
Electrical apparatus for use
in the presence of combustible dust.
Part 31: Protection by enclosures 'tD'.

ATEX
IECEx

IEC/EN 60079-7
Explosive Atmospheres.
*Part 7: equipment protection
by increased safety "e"*

IEC/EN 60309-1

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

IEC/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-125A
Rated voltage:	50÷690V~
Frequency:	50÷60Hz
Insulating voltage:	690V~
ATEX Code:	Ex II 2 GD
Ex Protection type:	Ex e IIC T4, T5, T6 Gb Ex tb IIIC T80°C Db IP66
Ambient temperature range:	-50°C + 60°C for plug 16/32A -35°C + 60°C for plug 63/125A
Maximum permissible surface temperature (DUST):	T80°C
Temperature class (GAS):	T4/T5/T6
Protection degree:	IP66
Impact Resistance:	7J
Plugs material:	PA6 - Dissipative
Plugs colour:	Black RAL9011

■ ELECTRICAL FEATURES OPTIMA-EX[GD] SERIES

Rated Current	Maximun Current			Max. Cable Entry Temperature when Ta +60°C
	Ta 40°C	Ta 50°C	Ta 60°C	
16A	16A	16A	16A	80°C (*)
32A	32A	32A	32A	85°C (*)
63A	63A	63A	63A	90°C (*)
125A	100A	112A	125A	-

(*) WARNING: the cable entry can be reach high temperature; suitable cable can be used.

■ ATEX IECEX CERTIFICATE

ATEX 16A-32A-63A-125A: **INERIS 15ATEX0017X**

IECEX 16A-32A-63A-125A: **IECEX INE 15.0033X**

OPTIMA-EX[GD] Series



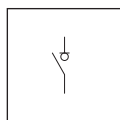
TECHNICAL FEATURES

1
2
3
ATEX [Ex] II 2 GD

OPTIMA-EX[GD] SERIES	Unit		Value			
Rated Current			16A	32A	63A	125A
Code			219.16...	219.32...	219.63...	219.125...
Suitable Size cables Ground-Terminals	(mm ²)		2,5	6	10	25
Power Supply Terminals - Tightening-Torque	(Nm)		1	1.5	2	4
Cable size accepted by Cable-Clamp (eg.H07RN-F) Do not use armoured cable	(mm)	2P+E	14	16	21	30
		3P+E				
		3P+N+E				
Cable Gland/Cable-Clamp Tightening-Torque	(Nm)	2P+E	5,6	10	10	25
		3P+E				
		3P+N+E				
Cable-Gland/Cable-Clamp (Screw) - Tightening-Torque	(Nm)		0.8	0.8	0.8	0.8
Handle Screws – Tightening-Torque	(Nm)		1	1	1,2	1,2

Ambient	Gas			Dust		
Zone	0 - Ga	1 - Gb	2 - Gc	20 - Da	21 - Db	22 - Dc

■ PLUGS IP66



Poles	Hz	Volt	Colour		h.	16A	32A	63A	125A
			16A-32A 63A	125A		cable gland □ 10/40	cable gland □ 10/40	cable gland □ 6/24	cable gland □ 1/8
2P+E	50/60	100-130		-	4	219.1630	219.3230	-	-
	50/60	200-250		-	6	219.1633	219.3233	-	-
	50/60	380-415		-	9	219.1638	219.3238	-	-
	50/60	480-500		-	7	219.16336	219.32336	-	-
	300÷500	50÷500		-	2	219.16332	219.32332	-	-
	d.c.	50÷250		-	3	219.16334	219.32334	-	-
	d.c.	>250÷500		-	8	219.16338	219.32338	-	-
3P+E	50/60	100-130			4	219.1631	219.3231	219.6331	219.12531
	50/60	200-250			9	219.1634	219.3234	219.6334	219.12534
	50/60	380-415			6	219.1636	219.3236	219.6336	219.12536
	60	440-460			11	219.16365	219.32365	219.63365	219.125365
	50/60	480-500			7	219.16366	219.32366	219.63366	219.125366
	50/60	600-690			5	219.16367	219.32367	219.63367	219.125367
	50/60	380/440			3	219.16364	219.32364	219.63364	219.125364
	100÷300	50÷690			10	219.16361	219.32361	219.63361	219.125361
	>300÷500	50÷690			2	219.16362	219.32362	219.63362	219.125362
3P+N+E	50/60	100-130			4	219.1632	219.3232	219.6332	219.12532
	50/60	208-250			9	219.1635	219.3235	219.6335	219.12535
	50/60	346-415			6	219.1637	219.3237	219.6337	219.12537
	50/60	480-500			7	219.16376	219.32376	219.63376	219.125376
	50/60	600-690			5	219.16377	219.32377	219.63377	219.125377
	60	440-460			11	219.16375	219.32375	219.63375	219.125375
	50/60	380/440			3	219.16374	219.32374	219.63374	219.125374
	>300÷500	50÷690			2	219.16372	219.32372	219.63372	219.125372

■ PLUGS COVER

	Description		□	Description		□
	2P+E	10/100	570.90163	32A-30A 3P+N+E	10/100	570.90325
	16A-20A 3P+E	10/100	570.90164	63A-60A 2P+E, 3P+E and 3P+N+E	10/100	570.9063
	3P+N+E	10/100	570.90165	125A-100A 2P+E, 3P+E and 3P+N+E	10/100	570.9125
	32A-30A 2P+E and 3P+E	10/100	570.90324			

