

ISOLATORS-EX[GD] Series



ATEX [Ex] II 2 GD

SWITCHES DISCONNECTORS



VERSIONS

	Switch disconnecter Thermosetting - General use
	Switch disconnecter Thermosetting - Emergency control
	Switch disconnecter Stainless steel - General use
	Switch disconnecter Stainless steel - Emergency control
	Switch disconnecter Aluminium - General use
	Switch disconnecter Aluminium - Emergency control

REFERENCE STANDARDS

ATEX IECEx	IEC/EN 60079-0 Electrical apparatus for potentially explosive atmospheres. <i>Part 0: general requirements.</i>
ATEX IECEx	IEC/EN 60079-7 Electrical apparatus for potentially explosive atmospheres. <i>Part 7: equipment protection by increased safety "e".</i>
ATEX IECEx	IEC/EN 60079-31 Electrical apparatus for potentially explosive atmospheres. <i>Part 31: equipment dust ignition protection by enclosures "t".</i>
ATEX IECEx	IEC/EN 60079-1 Electrical apparatus for potentially explosive atmospheres. <i>Part 1: flameproof enclosures "d".</i>
	EN 60947-1 Low-voltage switchgear and controlgear. <i>Part 1: general requirements.</i>
	EN 60947-3 Low-voltage switchgear and controlgear. <i>Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.</i>
TECHNICAL CHARACTERISTICS	
ATEX Code:	Ex II 2GD
Certificate:	INERIS 14 ATEX 0030X IECEx INE 14.0040X
Ex Protection type:	EX d e IIC T4/T5 Gb Ex tb IIIC T80°C Db IP66
Protection degree:	IP66
Ambient temperature:	-20°C/-50°C +40°C/+60°C (see table ambient temperature)
Maximum permissible surface temperature:	T80°C (dust)
Ambient temperature:	T4/T5 (gas)
Material:	Thermosetting (GRP) Stainless steel AISI 316L Aluminium
Colour:	RAL 9006 (aluminium) Satin (stainless steel) RAL 9005 (thermosetting)
Polarity:	2P - 3/4P
Rated current:	20A-25A-32A-40A-63A
Use Category:	AC22A - AC23A AC3 (up to 32A)

■ AMBIENT TEMPERATURE

	ISOLATORS-EX[GD] Series					
	591.xxx20xx-xxx 591.xxx25xx-xxx 591.xxx32xx-xxx	591.xxx40xx-xxx 591.Axx63xx-xxx	591.Pxx63xx-xxx		591.Sxx63xx-xxx	
Ambient temperature range	Temperature Class for Gas	Maximum Surface Temperature for Dust	Temperature Class for Gas	Maximum Surface Temperature for Dust	Temperature Class for Gas	Maximum Surface Temperature for Dust
From -20°C to +40°C	T5	T80°C	T5	T80°C	T5	T80°C
From -20°C to +50°C	T5	T80°C	T5	T80°C	T5	T80°C
From -20°C to +55°C	T5	T80°C	T5	T80°C	N/A	T80°C
From -20°C to +60°C	T4	T80°C	N/A	T80°C	N/A	T80°C
From -50°C to +40°C	T5	T80°C	T5	T80°C	T5	T80°C
From -50°C to +50°C	T5	T80°C	T5	T80°C	T5	T80°C
From -50°C to +55°C	T5	T80°C	T5	T80°C	N/A	T80°C
From -50°C to +60°C	T4	T80°C	N/A	T80°C	N/A	T80°C

591.P.../591.S.../591.A... (see table configuration optional accessories pg. 33).

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - THERMOSETTING

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.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - STAINLESS STEEL

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

For specific substances please contact our technical service.

■ BEHAVIOUR WITH CHEMICAL AND ATMOSPHERIC AGENTS - ALUMINIUM

Saline solution	Acids		Bases		Solvents				Mineral oil	UV rays
	Concentrated	Diluted	Concentrated	Diluted	Hexane	Benzol	Acetone	Alcohol		
Resistant	Limited Resistance	Resistant	Resistant	Resistant	Not Resistant	Not Resistant	Not Resistant	Limited Resistance	Resistant	Resistant

For specific substances please contact our technical service.

ISOLATORS-EX[GD] Series



ATEX [Ex II 2 GD]

ELECTRICAL FEATURES

ISOLATORS-EX[GD] Series		Rated Current				
		591.xGE200X 591.xEM200X	591.xGE250X 591.xEM250X	591.xGE320X 591.xEM320X	591.xGE400X 591.xEM400X	591.xGE630X 591.xEM630X
Rated Current (In)		20A	25A	32A	40A	63A
Max. Voltage (Ui)		690V	690V	690V	690V	690V
Category	Rated Voltage					
AC22A	690V	20A	25A	32A	40A	63A
AC23A	690V	-	-	-	40A	63A
	500V	20A	25A	32A	40A	63A
AC3	500V	20A	25A	25A	-	-
Frequency		50/60Hz	50/60Hz	50/60Hz	50/60Hz	-

TERMINALS CONTACTS - TORQUE

Terminals Contacts - Torque		
Type COMMAND-EX In	Cross Sectional Areas Conductors mm ²	Tightening Torque - (Nm)
32A	10 finely-stranded	0.8
	16 single-wire	0.8
63A	25 finely-stranded	2.5
	35 single-wire	2.5
Earth-stud - 32A WPE 10	10 finely-stranded	2.4
	16 single-wire	2.4
Earth-stud - 63A WPE 35	35 finely-stranded	5
	35 single-wire	5

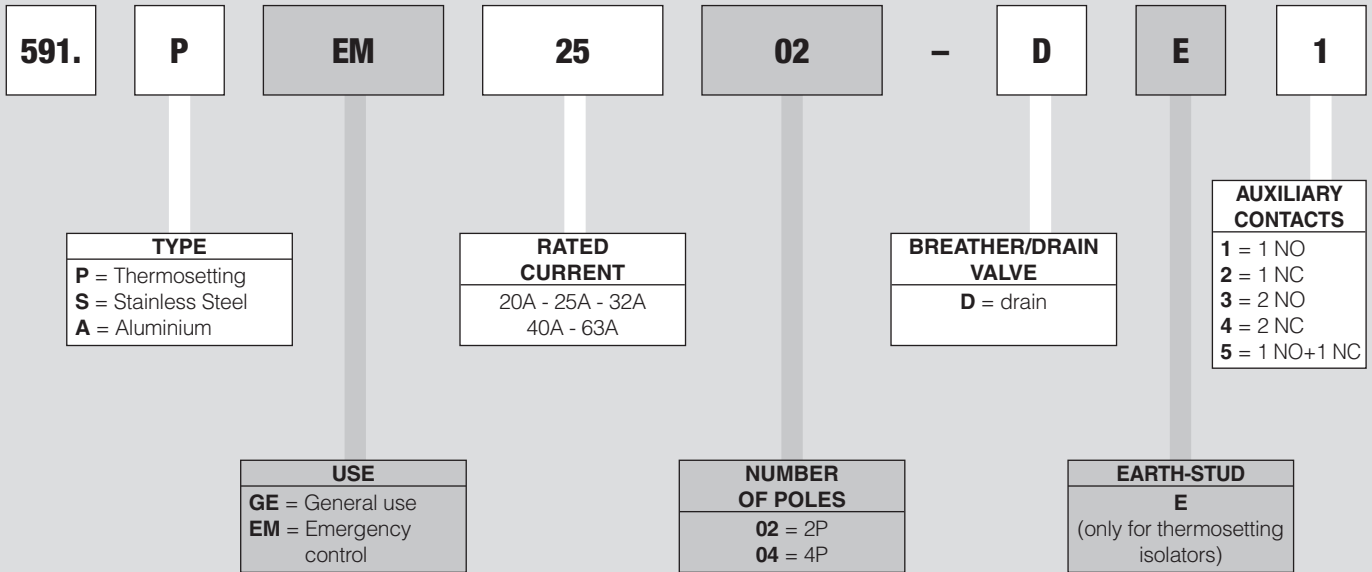
CABLE ENTRIES

Rated Current	Poles	Cable Entries (mm)	Auxiliary Entries (mm)	Breather/Drain Valve (mm)
20 A	2	2xM25x1,5	M20x1,5	M20x1,5
	3/4			
25 A	2	2xM25x1,5	M20x1,5	M20x1,5
	3/4			
32 A	2	2xM25x1,5	M20x1,5	M20x1,5
	3/4	2xM32x1,5		
40 A	2	2xM32x1,5	M20x1,5	M20x1,5
	3/4	2xM40x1,5		
63 A	2	2xM40x1,5	M20x1,5	M20x1,5
	3/4	2xM50x1,5		

BREATHER/DRAIN VALVE, EARTH-STUD AND AUXILIARY CONTACTS

Optional accessories available on request (see pg. 35)

■ CONFIGURATION OPTIONAL ACCESSORIES



■ APPLICATION EXAMPLES



[Ex II 2 GD]



[Ex II 2 D]



[Ex II 3 GD]