



(1)

EU-Type Examination Certificate

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 2014/34/EU

(3) Certificate number: **SEV 21 ATEX 0559 X**

(4) Product: Energy distribution, Switching and control assembly Model: AGP17 series

(5) Manufacturer: Eaton Electric (Singapore) PTE. Ltd.

(6) Address: 100G Pasir Panjang Road, #07-08, #02-09 Interlocal Centre, 118523, Singapore

(7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 21CH-00884.X01

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
EN 60079-11:2012
EN 60079-18:2015
EN 60079-31:2014

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 II 2G Ex db eb ia/ib mb[ia/ib] IIC T6...T4 Gb
 II 2D Ex tb IIIC T80 °C Db

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
 Product Certification




(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 21 ATEX 0559 X

(15) Description of product

Rating:

Maximum voltage: 690V

Maximum current: 315A

Maximum dissipation wattage: refer to the table at product information

Classification of installation and use: stationary

Ingress protection: N/A

Rated ambient temperature range (°C): -40 °C to +55 °C

The distribution boards is suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21 and Zone22. The distribution boards include GRP or SS304/SS316 enclosure assembly, window assembly, certified components, main brackets, DIN rails, earth plates etc.

The GRP or SS304/SS316 enclosure assembly consists of body, cover and O-ring. The body and cover are made of GRP or SS304/SS316 and the material of O-ring is silicone rubber.

The window assembly consists of body, cover, gaskets and hinges. The frame is made of PA66 and cover is made of PC. The material for gaskets is silicone rubber and hinges are made of stainless steel.

Due to existing multiple configurations, the exact Ex marking and ambient temperature are listed in the label of the distribution boards.

The following components with Ex i type are shown in the table below:

No.	Name	Marking
1	GHG 41 Signal Lamp	Ex db ia IIC Gb
2	Switch base type GHG238	Ex d ia(ib) IIC Gb
3	Switch base type GHG2	Ex de ib [ia(ib)] IIC Gb
4	Switch base type GHG264	Ex de ib [ia(ib)] IIC Gb

Maximum input voltage $U_i = 30$ V DC

Maximum input current $I_i = 120$ mA

Maximum input power $P_i = 750$ mW

Maximum internal capacitance C_i negligible

Maximum internal inductance L_i negligible

Catalogue of the product:

AGP17	-	U	-	a	-	b	-	S	-	*
Product Type	Unit	Height Unit No.		width Unit No.		-S. For SST enclosure		Not relevant for Explosion protection		
		(a=0.5,1,1.5,2...6)	(b=0.5,1,1.5,2...20)	-.		Blank for GRP enclosure				

GRP Enclosure Size(Unit number): 1unit=271x271

SST Enclosure Size(Unit number): 1 unit=315x315



The relationship between the permitted dissipation power for per block, T code and maximum ambient temperature is listed as following,

Per Block Dissipation Power(W)			
Without Heatsink			
	T4	T5	T6
40 °C	21.3 W	12.9 W	8.4 W
55 °C	14.2 W	8.4 W	
With Heatsink			
40 °C	25.7 W	16.1 W	12.6 W
55 °C	17.8 W	12.6 W	

Special conditions for safe use:

1. The external earth connection facility shall be connected reliably.
2. The cable entries have to be connected by means of suitable cable entry devices or plugs separately certified with type of protection of Ex eb IIC Gb, Ex tb IIIC Db, IP66.
3. Potential electrostatic charging hazard refer to the instruction.
4. If the components involved are connected with an intrinsic safety circuit, then light blue cables will be necessary for the installation.
5. The minimum temperature of the cable applied with Busbar component is 89 °C.

(17) Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(18) Drawings and Documents

See test report "Manufacturer's Documents"