cosign

[13] Anne$

[14] EU-type Examination Certificate number: IM -). ATEX (' * X

B) 6C &escription o! pro uct@

The cable glands series C 1 U2223 C 1 RC 4 223 C 1 FCS2223 C 1 EMC2223 C 1 5TCS2223 C 1 5TC*62223 C 1 5TC7(2223 C 1 RCS 4 22 are suitable for inserting circular cables into Ex db enclosures having threaded entries and Ex eb or Ex tb enclosures having either threaded or plane entries.

The cable glands series C 1 U2228"$/93 C 1 RC 4 228"$/93 C 1 FCS22 28"$/93 C 1 EMC22 28"$/93 C 1 5TCS228"$/93 C 1 5TC*6 4 8"$/93 C 1 5TC7(22 28"$/93 C 1 RCS 4 228"$/9 are suitable for inserting flat cables into Ex eb or Ex tb enclosures having either threaded or plane entries.
Cable glands are suitable for not-armoured cables, and are made of metal body (aluminium; stainless steel; brass; galvanized steel; nickel-plated brass). Sealing rings are made of silicon or neoprene (chloroprene) for all types, as detailed in Table 2.

The degree of the IP protection is IP66/68

Cable glands are suitable for electrical equipment either with type of protection Ex db, Ex eb or type of protection Ex tb, suitability for each model is shown in following tables. Cable glands with type of protection "db" and "eb" can be also used for wiring of intrinsically safe circuits. These cable glands have a light blue painted part.

Cable glands for circular cables can be supplied with tap, commercial called "dome plug", polyamide made, as accessory (PDPX.-.-., available in black, green, blue color), suitable to guarantee IP degree when installed according to manufacturer's instructions. Details in Table 5.
Cable glands are intended for use with any cable type where sealing and retention as well as the type of protection is ensured by gripping the outer sheath of cable according to EN 60079-14.
Proper details to the use on installation and use of cable glands are listed in Safety, Maintenance and Mounting Instructions (RM01 rev.0 dated 2017.11.14).

T"/#e '¡M"teri"ls)					
Series	Body materials	Sealing rings material	Flat washer materials	O-ring	Accessories
CGU...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGRC... ..	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGFCS...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGEMC. ..	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGLTCS. ..	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGLTC45...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGLTC90...	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGRCS	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	chloroprene (neoprene) silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer dome plug
CGU...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGRC... (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGFCS... (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGEMC. .. (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGLTCS. .. (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGLTC45... (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGLTC90... (axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer
CGRCS ...(axb)	stainless steel; brass ; aluminium; nickel plated brass; galvanized steel	silicone	chloroprene (neoprene), silicone, EPDM rubber, fiber KLINGERSIL® C-4400, PA washer	neoprene silicone EPDM, Viton	serrated washer

[1] Service temperature is related to material of sealing rings which cable glands body is made of, but can be additionally limited by material of flat washer/OR/accessories material temperature limitations: chloroprene (-40÷100 °C); silicone (-60÷180 °C); EPDM rubber (-40÷110 °C); KLINGERSIL® C-4400 fiber (-50÷130 °C); NBR (-40÷100 °C), PA (-60÷65 °C); Viton (-17÷210 °C). The use of these materials has to be taken into account in determination of lower and upper limit of service temperature of cable glands.

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B)62)C Mo e#s+Series I enti!ic"tion@

The characteristics of the cable glands are codified according to following key code:

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Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex db	Ex eb Ex tb
CGU 0XS..	2-4	-	-	4	no	yes
CGU 0S..	4-8	20	18	-	no	yes
CGU 0..	3-8	-	25	18	yes	yes
CGU01S..	3-9	-	25	18	yes	yes
CGU 01..	4-12	20	18	16	yes	yes
CGU 1S..	3-9	-	25	18	yes	yes
CGU 1..	4-12	20	18	16	yes	yes
CGU 12..	10-16	25	22	18	yes	yes
CGU 2S..	4-12	20	18	16	yes	yes
CGU 2..	10-18	25	22	18	yes	yes
CGU 23..	14-20	28	23	-	yes	yes
CGU 3S..	10-18	25	22	18	yes	yes
CGU 3..	14-24	28	23	20	yes	yes
CGU 34..	22-28	56	50	35	yes	yes
EBU 4S..	14-24	28	23	20	yes	yes
CGU 4..	22-32	56	50	45	yes	yes
CGU 45..	26-34	57	55	52	yes	yes
CGU 5S..	22-32	56	50	45	yes	yes
CGU 5..	26-35	57	55	52	yes	yes
CGU 56..	35-44	190	155	140	yes	yes
CGU 6S..	26-35	57	55	52	yes	yes
CGU 6..	35-45	190	155	140	yes	yes
CGU 67..	46-56	160	145	135	yes	yes
CGU 7S..	35-45	190	155	140	yes	yes
CGU 7..	46-62	185	175	150	yes	yes
CGU 78..	60-69	123	118	-	yes	yes
CGU 8S..	46-62	185	175	150	yes	yes
CGU 8..	60-75	123	118	110	yes	yes
CGU 810..	75-82	135	130	125	yes	yes
CGU 10S..	60-75	123	118	110	yes	yes
CGU 10..	75-85	135	130	125	yes	yes
CGU 11..	85-95	180	175	170	yes	yes
CGU 115XS..	75-85	135	130	125	yes	yes
CGU 115S..	85-95	180	175	170	yes	yes
CGU 115..	95-105	450	450	450	yes	yes
CGU 13..	105-115	526	500	535	yes	yes

Model	Min-max cable Ø mm	Torque value [Nm]	[redacted]

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Model	Min-max cable Ø mm	Torque value [Nm]			Suitable for	
		S1+S2+S3 triple sealing ring	S1+S2 double sealing ring	S1 single sealing ring	Ex db	Ex eb Ex tb
CGFCS 0S..	4-8	20	18	-	no	yes
CGFCS 01S..	3-9	-	25	18	yes	yes
CGFCS 01..	4-12	20	18	16	yes	yes
CGFCS 1S..	3-9	-	25	18	yes	yes
CGFCS 1..	4-12	20	18	16	yes	yes
CGFCS 12..	10-16	25	22	18	yes	yes
CGFCS 2..	10-18	25	22	18	yes	yes
CGFCS 23..	14-20	28	23	-	yes	yes
CGFCS 3..	14-24	28	23	20	yes	yes
CGFCS 34..	22-28	56	50	35	yes	yes
CGFCS 4..	22-32	56	50	45	yes	yes
CGFCS 45..	26-34	57	55	52	yes	yes
CGFCS 5..	26-35	57	55	52	yes	yes

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B) 626C &e0ree o! protection 8IP co e9@

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B) 62?C < "rnin0s@

None

B) ?C Report@ AT17-0018648-01

B) ??)C Routine 8!"ctory9 tests@

The manufacturer shall carry out the routine test prescribed at clauses 27 of the EN 60079-0.

B) ??'C Con!ormity Fit% t%e ocument"tion@
The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

B) ??,C Inst"#"tion con itions@
Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.
These should be specified to the manufacturer by the user;
It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.

The coupling of the cable glands to the enclosure and torque values of cap clamping shall be made as indicated by the manufacturer in the documents anne

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checked, in order to guarantee the correct tightness. If necessary, sealing rings have to be replaced with new ones (original spare parts only). Precautions shall be taken in order to guarantee protection against risk of mechanical damage is provided, when insert taps are suitable for low mechanical risk (4J) only.

- Cable glands for non circular cables shall be fitted with proper cables, suitable for sealing ring, according to manufacturer's instruction.

B).C Essenti"#Ge"#t% "n s"!ety Requirements@
This Certificate oes not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].
This Certificate oes not cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:
None

B)7C &escriptive ocuments@ DL-AT17-0018648-01 dated 2018.08.28

B'(C Certi!ic"tion H"#i ity Con itions@
The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.
The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.
One copy of the mentioned documentation is kept in IMQ file.

B')C In accordance with Article 41 of Directive 2014/34/EU, Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. New issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

B''C H"ri"tions

First issue