



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX KEM 07.0050U**

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Certificate history:

Status: **Current**

Issue No: 8

Issue 7 (2020-07-30)

Issue 6 (2020-02-04)

Issue 5 (2017-04-14)

Issue 4 (2015-09-07)

Issue 3 (2014-04-24)

Issue 2 (2009-06-08)

Issue 1 (2009-05-11)

Issue 0 (2007-11-09)

Date of Issue: 2023-10-17

Applicant: **R. STAHL Schaltgerate GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Ex Component: Flameproof enclosure Type 8264/- and Type 8264/6

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Ex db and Ex tb**

Marking: Ex db IIB Gb
Ex db IIB + H₂ Gb
Ex tb IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

L.G. van Schie

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2023-10-17

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Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **R. Stahl Schaltgerate GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Manufacturing locations: **Electromach B.V., Member of the R. Stahl Technology Group**
Jan Tinbergenstraat 193
7559 SP Hengelo
Netherlands

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

NL/KEM/ExTR07.0045/00
NL/KEM/ExTR07.0045/03
NL/KEM/ExTR07.0045/06

NL/KEM/ExTR07.0045/01
NL/KEM/ExTR07.0045/04

NL/KEM/ExTR07.0045/02
NL/KEM/ExTR07.0045/05

Quality Assessment Report:

DE/BVS/QAR10.0002/19



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Ex Component(s) covered by this certificate is described below:

Enclosure Type 8264/- and 8264/6 in type of protection Ex "d" and Ex "t", made of painted or unpainted aluminium or unpainted stainless steel with a flanged joint, is intended for the mounting of electrical apparatus such as switching-, control-, regulating-, measuring- and indicating devices.

The enclosures can be used with and without terminal boxes in type of protection increased safety "e". Several enclosures may be combined with each other.

The cover and side walls of the enclosure may be provided with flameproof operating axes - e.g. for coupling-, locking-, actuating or feed through purposes -, lamp caps and windows. Optionally, the enclosures may be provided with hinges.

The cover and bottom wall of stainless steel enclosure type 8264/-933-2 may be provided with an aluminium cold plate.

The cover- and bottom wall of stainless steel enclosure type 8264/-997-2 may be provided with 1 or 2 single- or 1 double aluminium cold plates.

The electrical connection is made by using flameproof cable or conduit entries or bushings.

Type 8264/- and Type 8264/6 differ only in the type of material used for cemented windows.

For the maximum power dissipation and thermal data see Annex 1 to report NL/KEM/ExTR07.0045/06.

SCHEDULE OF LIMITATIONS:

- The flameproof joints are not intended to be repaired.
- The property classes of the screws are A70 for M10 and A80 for M12 and M14.
- For the service temperature ranges see Annex 1 to NL/KEM/ExTR07.0045/06.
- The enclosures may be mounted with the flanged joint free from solid obstacles for at least 10 mm.
- Painted enclosures shall not be subjected to strong electrostatic charging mechanisms.
- The condition of the paint of the painted enclosures shall be checked periodically. Damaged paint shall be repaired.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Introduction of optional cold plates in enclosure types 8264/-997-2 and 8264/-933-2.
2. Minor constructional change
3. Corrections in manufacturers documents.

Annex:

225751500 Annex 1 to NL.KEM.ExTR07.0045.06.pdf

Maximum power dissipation

Aluminium enclosure painted outside – free standing

Max. ambient temperature		+40 °C			+50 °C			+60 °C		
Temperature class		T6	T5	T4	T6	T5	T4	T6	T5	T4
Maximum surface temperature *1		T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C
Type	Use *2	Maximum power dissipation [W]								
8264/*114-3	H/V	133	194	407	96	152	327	62	114	267
8264/*214-3	H	155	218	360	114	175	327	75	135	283
8264/*214-3	V	161	226	373	118	182	339	78	140	294
8264/*215-3	H	183	257	424	134	207	386	89	159	335
8264/*215-3	V	190	267	441	140	215	401	92	165	348
8264/*224-3	H/V	207	291	481	152	235	437	101	180	379
8264/*225-3	H/V	242	340	560	178	274	510	117	210	443
8264/*324-3	H	252	355	583	185	285	532	122	219	461
8264/*324-3	V	258	362	595	189	292	543	125	224	471
8264/*325-3	H	300	420	680	221	339	623	146	261	544
8264/*325-3	V	303	425	691	223	343	632	148	264	550
8264/*334-3	H/V	296	418	652	216	335	613	142	256	546
8264/*335-3	H/V	340	480	749	248	385	705	163	294	627
8264/*934-3	H	402	568	886	294	455	833	193	348	742
8264/*934-3	V	412	583	910	301	467	856	198	357	761
8264/*935-3	H	511	733	1369	374	582	1164	243	441	980
8264/*935-3	V	489	699	1283	358	557	1098	234	423	929
8264/*994-3	H/V	525	767	1223	377	600	1140	242	447	1001
8264/*995-3	H/V	597	860	1378	433	679	1278	280	511	1123
8264/*996-3	H/V	721	1038	1666	522	821	1544	337	617	1356
8264/*997-3	H/V	735	1058	1698	532	837	1573	344	629	1381
8264/*998-3	H/V	818	1177	1889	592	931	1750	382	700	1537
8264/*999-3	H/V	902	1336	2413	650	1038	2394	418	773	1884

Aluminium enclosure painted outside – wall-mounted

Max. ambient temperature		+40 °C			+50 °C			+60 °C		
Temperature class		T6	T5	T4	T6	T5	T4	T6	T5	T4
Maximum surface temperature *1		T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C
Type	Use *2	Maximum power dissipation [W]								
8264/*114-3	H/V	112	165	373	81	129	286	52	96	230
8264/*214-3	H	135	194	375	98	154	314	64	116	262
8264/*214-3	V	140	202	388	102	159	326	66	120	272
8264/*215-3	H	159	230	442	116	182	371	75	137	310
8264/*215-3	V	165	238	459	120	189	385	78	142	322
8264/*224-3	H/V	180	260	501	131	206	421	85	155	351
8264/*225-3	H/V	211	304	583	153	240	491	99	181	410
8264/*324-3	H	219	317	607	160	250	511	104	189	427
8264/*324-3	V	224	323	620	163	256	522	106	193	436
8264/*325-3	H	261	375	708	191	298	600	124	225	503
8264/*325-3	V	264	379	720	192	301	608	125	227	510
8264/*334-3	H/V	257	373	679	186	294	590	121	221	505
8264/*335-3	H/V	295	429	781	214	338	678	139	254	581
8264/*934-3	H	349	507	923	253	399	801	164	300	687
8264/*934-3	V	358	521	948	260	410	823	168	308	705
8264/*935-3	H	421	594	1047	310	477	909	203	365	779
8264/*935-3	V	425	623	1336	308	488	1061	199	365	862
8264/*994-3	H/V	482	697	1274	349	551	1096	226	414	927
8264/*995-3	H/V	547	782	1436	401	623	1229	262	473	1040
8264/*996-3	H/V	661	944	1735	484	753	1484	315	572	1255
8264/*997-3	H/V	674	962	1768	493	767	1513	321	583	1279
8264/*998-3	H/V	750	1070	1967	548	854	1683	357	648	1423
8264/*999-3	H/V	831	1213	2513	602	953	2035	389	715	1666

Aluminium enclosure unpainted – free standing

Max. ambient temperature		+40 °C			+50 °C			+60 °C		
Temperature class		T6	T5	T4	T6	T5	T4	T6	T5	T4
Maximum surface temperature *1		T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C
Type	Use *2	Maximum power dissipation [W]								
8264/*114-3	H/V	79	112	196	58	90	174	38	68	149
8264/*214-3	H	91	126	173	68	103	173	46	81	159
8264/*214-3	V	95	131	179	71	107	179	47	84	164
8264/*215-3	H	108	149	204	81	122	204	54	95	187
8264/*215-3	V	112	155	212	84	127	212	56	99	195
8264/*224-3	H/V	122	169	231	91	139	232	61	108	212
8264/*225-3	H/V	143	197	269	107	162	271	72	126	248
8264/*324-3	H	149	206	280	111	168	282	75	132	258
8264/*324-3	V	152	210	286	114	172	288	76	134	264
8264/*325-3	H	187	257	390	139	210	366	92	163	325
8264/*325-3	V	186	256	389	138	209	365	92	163	324
8264/*334-3	H/V	171	242	378	125	194	356	83	149	317
8264/*335-3	H/V	197	279	435	144	223	409	95	171	364
8264/*934-3	H	233	329	514	170	264	483	112	202	430
8264/*934-3	V	239	338	528	175	271	496	115	207	442
8264/*935-3	H	318	453	828	233	362	709	152	275	601
8264/*935-3	V	283	390	590	211	319	552	140	247	492
8264/*994-3	H/V	305	445	709	219	348	661	140	259	581
8264/*995-3	H/V	346	499	800	251	394	741	162	296	651
8264/*996-3	H/V	418	602	966	303	476	895	196	358	786
8264/*997-3	H/V	426	614	985	309	485	912	199	365	801
8264/*998-3	H/V	474	683	1095	344	540	1015	222	406	891
8264/*999-3	H/V	523	775	1399	377	602	1389	242	448	1093

Aluminium enclosure unpainted – wall-mounted

Max. ambient temperature		+40 °C			+50 °C			+60 °C		
Temperature class		T6	T5	T4	T6	T5	T4	T6	T5	T4
Maximum surface temperature *1		T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C
Type	Use *2	Maximum power dissipation [W]								
8264/*114-3	H/V	67	96	180	49	76	153	32	58	128
8264/*214-3	H	79	113	180	59	91	167	39	70	147
8264/*214-3	V	82	117	186	61	94	173	40	72	152
8264/*215-3	H	94	133	212	70	107	197	46	82	173
8264/*215-3	V	97	138	220	72	111	204	48	85	180
8264/*224-3	H/V	106	151	241	79	122	223	52	93	197
8264/*225-3	H/V	124	176	280	92	142	260	61	109	230
8264/*324-3	H	129	184	292	96	148	271	63	113	239
8264/*324-3	V	132	188	298	98	151	277	65	116	244
8264/*325-3	H	162	229	406	120	184	352	78	141	301
8264/*325-3	V	162	229	405	119	184	351	78	140	300
8264/*334-3	H/V	149	216	394	108	170	342	70	128	293
8264/*335-3	H/V	171	249	453	124	196	393	80	147	337
8264/*934-3	H	203	294	535	147	232	465	95	174	398
8264/*934-3	V	208	302	550	151	238	477	98	179	409
8264/*935-3	H	262	367	634	194	296	554	128	227	478
8264/*935-3	V	246	348	615	181	279	533	119	213	456
8264/*994-3	H/V	279	404	739	203	319	636	131	240	538
8264/*995-3	H/V	317	454	833	233	362	713	152	274	603
8264/*996-3	H/V	384	547	1006	281	437	861	183	332	728
8264/*997-3	H/V	391	558	1026	286	445	877	186	338	742
8264/*998-3	H/V	435	621	1141	318	495	976	207	376	825
8264/*999-3	H/V	482	704	1458	349	553	1180	226	414	966

Stainless steel enclosure unpainted – free standing and wall mounted – without cold plate

Max. ambient temperature		+40 °C			+50 °C			+60 °C		
Temperature class		T6	T5	T4	T6	T5	T4	T6	T5	T4
Maximum surface temperature *1		T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C	T80 °C	T95 °C	T130 °C
Type	Use *2	Maximum power dissipation [W]								
8264/*112-2	H/V	55	80	170	34	54	125	19	35	89
8264/*212-2	H/V	75	120	235	47	81	173	26	52	122
8264/*213-2	H/V	90	140	280	56	95	207	31	61	146
8264/*222-2	H/V	115	160	320	71	108	236	39	69	167
8264/*223-2	H/V	125	190	370	78	129	273	43	82	193
8264/*322-2	H/V	145	215	400	90	146	295	50	93	208
8264/*323-2	H/V	160	240	465	99	163	343	55	104	242
8264/*332-2	H/V	175	260	500	109	176	369	60	113	261
8264/*333-2	H/V	200	300	565	116	190	417	64	122	294
8264/*932-2	H/V	260	385	710	162	261	524	89	167	370
8264/*933-2	H/V	301	447	810	207	355	598	114	227	422
8264/*992-2	H/V	302	448	818	208	356	604	115	228	426
8264/*993-2	H/V	347	520	933	248	405	826	137	259	583
8264/*996-2	H/V	347	520	933	248	405	826	137	259	583
8264/*997-2	H/V	347	520	933	248	405	826	137	259	583
8264/*998-2	H/V	347	520	933	248	405	826	137	259	583
8264/*999-2	H/V	347	520	933	248	405	826	137	259	583

*1: Values have been determined without a dust layer.

*2: H: horizontal use; the longest side wall horizontal, the cover vertical
V: vertical use; the longest side wall vertical, the cover vertical

Stainless steel enclosure unpainted – free standing – with cold plate

Enclosure type 8264/-997-2, with electronics, as UPS systems, mounted on cold plates is suitable for T4. The relation of the maximum power dissipation and the maximum ambient temperature is per table below.

Maximum ambient temperature [°C]	Maximum power dissipation by:	
	electronics on each double cold plate [W]	electronics on each single cold plate [W]
30	610	305
50	596	298
55	562	281
60	473	236

For enclosure type 8264/-933-2 and other applications of enclosure type 8264/-997-2 a temperature rise test shall be conducted on the end application. The service temperature shall not exceed the limits of -20 °C to +100 °C.

Thermal data

Enclosures	Ambient temperature range for equipment using these Ex Components.	Service temperature range for the Gasket, Cemented window and the Cemented cold plate.
All types for IIB and IIIC Including - Type 8264/- with window except: - types 8264/-933-2 and 8264/-997-2 with cemented cold plates and - type 8264/6 with window	-60 °C to +60 °C	-60 °C to +100 °C
Type 8264/6 with window for IIB and IIIC	-40 °C to +60 °C	-40 °C to +100 °C
All types for IIB + H ₂ Type 8264/-933-2 and 8264/-997-2 with cemented cold plates (IIB only)	-20 °C to +60 °C	-20 °C to +100 °C