



SLOVENSKI STANDARD
oSIST prEN 50416:2026
01-junij-2026

Gospodinjski in podobni električni aparati - Varnost - Posebne zahteve za komercialne električne prenosne pomivalne stroje

Household and similar electrical appliances - Safety - Particular requirements for commercial electric conveyor dishwashing machines

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Besondere Anforderungen für Transportspülmaschinen für den gewerblichen Gebrauch

Appareils électrodomestiques et analogues - Sécurité - Exigences particulières pour les lave vaisselle à convoyeur à usage collectif

Ta slovenski standard je istoveten z: **prEN 50416:2026**

ICS:

97.040.40 Pomivalni stroji Dishwashers

oSIST prEN 50416:2026 en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 50416

April 2026

ICS 97.040.40

Will supersede EN 50416:2005; EN 50416:2005/A1:2015

English Version

Household and similar electrical appliances - Safety - Particular requirements for commercial electric conveyor dishwashing machines

Appareils électrodomestiques et analogues - Sécurité - Règles particulières pour les lave-vaisselle à convoyeur à usage collectif

Sicherheit elektrischer Geräte für den Hausgebrauch und ähnliche Zwecke - Besondere Anforderungen für Transportpülmaschinen für den gewerblichen Gebrauch

This draft European Standard is submitted to CENELEC members for enquiry.
Deadline for CENELEC: 2026-07-10.

It has been drawn up by CLC/TC 61.

If this draft becomes a European Standard, CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CENELEC in three official versions (English, French, German).
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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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prEN 50416:2026 (E)**56 European foreword**

57 This document (prEN 50416:2026) has been prepared by CLC/TC 61 “Safety of household and similar
58 electrical appliances”.

59 This document is currently submitted to the Enquiry.

60 The following dates are proposed:

- latest date by which the existence of this (doa) dav + 6 months
document has to be announced at national level
- latest date by which this document has to be (dop) dav + 12 months
implemented at national level by publication of
an identical national standard or by
endorsement
- latest date by which the national standards (dow) dav + 36 months
conflicting with this document have to be (to be confirmed or
withdrawn modified when voting)

61 This document will supersede EN 50416:2005 and all of its amendments and corrigenda (if any).

62 prEN 50416:2026 includes the following significant technical changes:

- 63 — addition of significant mechanical hazards;
64 — addition of hygienic aspects.

65 This document has been prepared under a standardization request addressed to CENELEC by the
66 European Commission. The Standing Committee of the EFTA States subsequently approves these
67 requests for its Member States.

68 For the relationship with EU Legislation, see informative Annex ZZB, which is an integral part of this
69 document.

70 **Secretary’s note:** The text contained in the Secretary’s notes will be removed from the standard before
71 publication, as it is provided solely to inform stakeholders about the reasons for introducing the
72 European common modifications.

73 Introduction

74 This document has been prepared to provide a means of conforming to essential safety requirements
75 of the Machinery Regulation (EU) 2023/1230. Other requirements and other EU Directives may be
76 applicable to the appliances falling within the scope of this European Standard.

77 This document is a product family standard dealing with the safety of commercial electric conveyor
78 dishwashing machines and takes precedence over horizontal and generic standards covering the same
79 subject. This document also covers relevant hygiene aspects.

80 This document recognizes the level of protection against hazards such as electrical, mechanical,
81 thermal, fire and radiation of commercial electric **conveyor dishwashing machines** when operated as
82 in normal use taking into account the instructions. It also covers any reasonably foreseeable misuse of
83 the machinery and takes into account the way in which electromagnetic phenomena can affect the safe
84 operation of commercial electric **conveyor dishwashing machines**.

85 A commercial electric **conveyor dishwashing machine** that complies with the text of this document
86 will not necessarily be considered to comply with the safety principles of the document if, when examined
87 and tested, it is found to have other features that impair the level of safety covered by these
88 requirements.

89 This document takes into account the requirements of HD 60364-1 as far as possible so that there is
90 compatibility with the wiring rules when the machinery is connected to the supply mains. However,
91 national wiring rules may differ.

92 Pressurized components incorporated in machines within the scope of this document are pressure
93 equipment which is classified no higher than category I of the Pressure Equipment Directive
94 (2014/68/EU). According to Article 1, item 2.f of the Pressure Equipment Directive, this equipment is
95 excluded from its scope.

96 The official compliance dates for the standard(s) are given in the Official Journal of the European State
97 (OJEU) otherwise the DOW as indicated in European Foreword is applicable.

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98 **1 Scope**

99 This clause of Part 1 is replaced with the following.

100 This document deals with the safety of electrically operated commercial **conveyor dishwashing**
 101 **machines** for washing dishes, glassware, cutlery and similar reusable articles, with or without means
 102 for water heating or drying, not intended for household and similar purposes, their **rated voltage** being
 103 not more than 250 V for single-phase appliances connected between one phase and neutral and 480 V
 104 for other appliances.

105 These **conveyor dishwashing machines** are designed to be connected to hot and/or cold water
 106 supply. Dishwashing machines making use of steam or hot water for heating purposes are also within
 107 the scope of this document.

108 These appliances are used by experts or instructed persons for commercial dishwashing in **areas not**
 109 **open to the public**, for example in kitchens of restaurants, canteens, hospitals, and in commercial
 110 enterprises such as bakeries and butcheries.

111 NOTE 101 Examples of such appliances are:

112 — flight conveyor dishwashing machine;

113 — rack conveyor dishwashing machine.

114 Requirements to avoid backsiphonage of non-potable water into the water mains are specified in
 115 Annex BB.

116 This document deals with specific requirements on noise emitted from these appliances because the
 117 generated noise can be $L_{pA} > 70$ dB(A) and is considered to be a relevant hazard. See Clause 7.12.104,
 118 22.115 and Annex CC.

119 The electrical part of appliances making use of other forms of energy is also within the scope of this
 120 document.

121 This document deals with the reasonably foreseeable hazards presented by appliances that are
 122 encountered by all persons in and around the installation place or workplace.

123 NOTE 102 Attention is drawn to the fact that:

124 — for appliances intended to be used in vehicles or on board ships or aircraft, additional requirements can be
 125 necessary;

126 — in many countries, additional requirements are specified by the national health authorities, the national
 127 authorities responsible for the protection of labour, the national water supply authorities and similar authorities;

128 — in many countries, additional requirements are specified for appliances incorporating pressurized parts;

129 — for scrapping of appliances, additional requirements can be necessary.

130 This document does not apply to:

131 — commercial electric dishwashing machines under EN IEC 60335-2-58;

132 — appliances designed exclusively for industrial purposes, for example machines used in the food
 133 industry for cleaning receptacles that serve as packaging for final products (e.g. bottle-cleaning
 134 machines) and machines used in manufacturing processes;

135 — gas heated appliances which are part of the **conveyor dishwashing machines**;

136 — movable appliances;

- 137 — dishwashing machines that do not form one functional unit, for example where a transportation
138 device transfers the load from one separate unit to another;
- 139 — separately driven transport devices not confined in the appliance;
- 140 — appliances intended to be used in locations where special conditions prevail, such as the presence
141 of a corrosive or explosive atmosphere (dust, vapour or gas);
- 142 — sterilizers and washer-disinfectors used to treat medical materials (EN IEC 61010-2-040).

143 With this European revision 2.0 of the document, the EN 50416:2005¹ is superseded.

144 This European revision 2.0 of the document, supplements or modifies the corresponding clauses of the
145 standards below:

- 146 — EN IEC 60335-1:2023+A11:2023+prA12:2026.

147 **Secretary's note:** The above addition has been moved from the Introduction (informative text) to the
148 Scope (normative text) of the standard following discussions with the HAS consultants. According to an
149 EC decision (document GROW.H.3/SM/MH/DT 12/1/2024), Part 1 must be referenced by date in Part
150 2. Consequently, the standard has been included in Clause 2, "Normative references".

151 This document contains requirements for appliances with **radio function**, **remote communication**, and
152 **remote operation**.

153 For the scope of this document, the term **radio appliance** is used with the same meaning of radio
154 equipment.

155 For the scope of this document, the term appliance is used with the same meaning of equipment.

156 **Secretary's note:** the above sentence has been modified in base of the RED HAS comment. The same
157 sentence are included also in Clause 3 "Term and Definitions"

158 Compliance with this Part 2 when used together with the Part 1 provides one means of conformity with
159 the safety objectives as listed in Table ZZB.1

160 2 Normative references

161 This clause of Part 1 is applicable except as follows.

162 Addition:

163 EN IEC 60335-1:2023,² *Household and similar electrical appliances - Safety - Part 1: General*
164 *requirements*

165 **Secretary's note:** Part 1 (EN IEC 60335-1:2023 + A11:2023 + prA12:2026) shall not be included in
166 Annex ZA, in accordance with document BT181/DG17869/DV, "Guidance document for the preparation
167 of Annex ZA".

¹ As impacted by EN 50416:2005+A1:2015.

² As impacted by EN IEC 60335-1:2023/A11:2023 and EN IEC 60335-1:2023/prAB:2026 (under preparation - Project 78895).

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- 168 EN 60436:2020, *Electric dishwashers for household use - Methods for measuring the performance*
169 *(IEC 60436:2015, modified)*
- 170 EN 60204-1:2018, *Safety of machinery - Electrical equipment of machines - Part 1: General*
171 *requirements (IEC 60204-1:2016, modified)*
- 172 EN ISO 3744:2010, *Acoustics - Determination of sound power levels and sound energy levels of noise*
173 *sources using sound pressure - Engineering methods for an essentially free field over a reflecting plane*
174 *(ISO 3744:2010)*
- 175 EN ISO 3746:2010, *Acoustics - Determination of sound power levels and sound energy levels of noise*
176 *sources using sound pressure - Survey method using an enveloping measurement surface over a*
177 *reflecting plane (ISO 3746:2010)*
- 178 EN ISO 4871:2009, *Acoustics - Declaration and verification of noise emission values of machinery and*
179 *equipment (ISO 4871:1996)*
- 180 EN ISO 9614-2:1996, *Acoustics - Determination of sound power levels of noise sources using sound*
181 *intensity - Part 2: Measurement by scanning (ISO 9614-2:1996)*
- 182 EN ISO 11201:2010, *Acoustics - Noise emitted by machinery and equipment - Determination of*
183 *emission sound pressure levels at a work station and at other specified positions in an essentially free*
184 *field over a reflecting plane with negligible environmental corrections (ISO 11201:2010)*
- 185 EN ISO 11202:2010,³ *Acoustics – Noise emitted by machinery and equipment – Determination of*
186 *emission sound pressure levels at a work station and at other specified positions applying approximate*
187 *environmental corrections (ISO 11202:2010)*
- 188 EN ISO 11203:2009,⁴ *Acoustics – Noise emitted by machinery and equipment – Determination of*
189 *emission sound pressure levels at a work station and at other specified positions from the sound power*
190 *level (ISO 11203:1995)*
- 191 EN ISO 11688-1:2009, *Acoustics - Recommended practice for the design of low-noise machinery and*
192 *equipment - Part 1: Planning (ISO/TR 11688-1:1995)*
- 193 EN ISO 13849-1:2023, *Safety of machinery - Safety-related parts of control systems - Part 1: General*
194 *principles for design (ISO 13849-1:2023)*
- 195 ISO 1817:2024, *Rubber, vulcanized or thermoplastic – Determination of the effect of liquids*

196 3 Terms and Definitions

197 This clause of Part 1 is applicable except as follows.

198 *Addition:*

199 *This standard contains requirements for appliances with **radio function**, **remote communication**, and*
200 ***remote operation**.*

201 *For the scope of this document, the term **radio appliance** is used with the same meaning of radio*
202 *equipment.*

203 *For the scope of this document, the term **appliance** is used with the same meaning of equipment.*

204 **Secretary's note:** the above sentence has been modified in base of the RED HAS comment. The same
205 sentence are included also in Clause 1 "Scope"

³ As impacted by EN ISO 11202:2010/A1:2021.

⁴ As impacted by EN ISO 11203:2009/A1:2020.

206 **3.1 Definitions relating to physical characteristics**

207 *Replace:*

208 For the purpose of this document, the term “appliance” as used in Part 1 is to be read as “commercial
209 electric **conveyor dishwashing machine**”

210 **3.1.4** *Replace the Note 1 to entry:*

211 The **rated power input** is the sum of the power inputs of all the individual elements in the appliance that
212 can be on at one time; where there are several such combinations possible, that giving the highest
213 power input is used in determining the **rated power input**.

214 **3.1.9** *Replace:*

215 **normal operation**

216 conditions under which the appliance is operated in normal use when it is connected to the supply mains

217 Note 1 to entry: The appliances are operated continuously. Appliances are operated in accordance with the
218 instructions for use, but with the controls intended to be set by the user set at maximum or that setting giving the
219 most unfavourable temperature results

220 Note 2 to entry: Appliances intended to be connected to a water supply are connected to a water supply having
221 the pressure and temperature specified in the instructions

222 Note 3 to entry: If a range of temperatures and pressures is specified in the instructions, then the water supply
223 is at the conditions within the range that will give the most unfavourable temperature results. Water inlets intended
224 for cold water only are connected to a source supplying water at a temperature of $15\text{ °C} \pm 5\text{ °C}$

225 Note 4 to entry: The appliance is filled with the maximum quantity of water for which it is designed, without
226 detergents or rinsing agents. The appliance is tested without dishes

227 **3.5 Definitions relating to types of appliances**

228 *Add:*

229 **3.5.101**

230 **conveyor dishwashing machine**

231 appliance in which the **wash ware carriers** loaded with **wash ware** are automatically conveyed with a
232 **conveyor system** through the machine during the cleaning process

233 Note 101 to entry: A distinction is made between the following machine designs:

234 — Flight conveyor dishwashing machine in which the wash ware is conveyed through the machine automatically
235 on an endless conveyor. See Figure 104.

236 — Rack conveyor dishwashing machine in which racks loaded with wash ware are conveyed through the machine
237 automatically by a rack transporting system. See Figure 105.

238 Note 102 to entry: Conveyor dishwashing machines can include different zones. See Figure 103.

239 [SOURCE: EN 17735:2022, 3.4.2 modified]

240 **3.6 Definitions relating to parts of an appliance**

241 **3.6.101**

242 **conveyor system**

243 mechanism for transporting the **wash ware** loaded on the **wash ware carriers** along a predetermined
244 path from the loading zone to the unloading zone through the **conveyor dishwashing machine**

245 **3.6.102**

246 **wash ware carrier**

247 device for holding and/or supporting **wash ware** in the optimum orientation for cleaning

248 Note 101 to entry: The wash ware carrier can be e.g., racks, conveyor belts, cutlery trays

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249 [SOURCE: EN 17735:2022, 3.3]

250 **3.6.103**

251 **cleaning opening**

252 opening that permits access to the **functional zone** beyond the **normal operation**

253 **3.6.104**

254 **strainer opening**

255 opening that permits access to the **functional zone** for cleaning the strainer during **normal operation**

256 **3.6.105**

257 **interior**

258 all parts of the dishwashing machine which come into contact with detergent solution, rinse aid solution
259 or the **wash ware** during the cleaning process as intended

260 [SOURCE: EN 17735:2022, 3.19]

261 **3.6.106**

262 **exterior**

263 all parts of the dishwashing machine which do not come into contact during the cleaning process with
264 detergent solution and rinse aid solution (e.g. pedestals, adjustable feet, handles, casing) but which are
265 accessible from outside

266 [SOURCE: EN 17735:2022, 3.20]

267 **3.6.107**

268 **functional surface**

269 surface that is intentionally heated by an internal heat source and has to be hot to carry out the function
270 for which the appliance is intended

271 Note 101 to entry: An example is the heating element in a drying zone

272 **3.6.108**

273 **adjacent surface**

274 surface that is adjacent to a **functional surface** and which can become hot through conduction

275 Note 101 to entry: An example is the surface of a blower unit in the drying zone

276 **3.7 Definitions relating to safety components**

277 **3.7.101**

278 **guard**

279 part of the appliance specially designed to provide protection by means of a physical barrier

280 [SOURCE: EN IEC 60335-1:2023/A11:2023, 3.ZE1]

- 281 **3.7.102**
282 **conveyor limit switch**
283 shut-off device for **wash ware** or **wash ware carrier** detection at the end of unloading zone to shut
284 down the conveyor system
- 285 **3.7.103**
286 **blocking device**
287 device ensuring that the vertical lift door does not close completely after the **locking device** is released
- 288 **3.7.104**
289 **locking device**
290 device ensuring that the vertical lift door remains open
- 291 **3.8 Definitions relating to miscellaneous matters**
- 292 **3.8.101**
293 **workstation**
294 place, as defined in the technical documentation of the relevant appliance, where the **operator** has to
295 be in attendance to operate, or to adjust, or to control the appliance
- 296 Note 101 to entry: An example is the location where the operator loads the appliance.
- 297 [SOURCE: EN IEC 60335-1:2023/A11:2023, 3.ZE3; Note modified]
- 298 **3.8.102**
299 **operator**
300 person operating, adjusting or cleaning the appliance
- 301 [SOURCE: EN IEC 60335-1:2023/A11:2023, 3.ZE2]
- 302 **3.8.103**
303 **functional zone**
304 enclosed zone to which only instructed personnel is authorized to have access to carry out checks on
305 correct operation and cleaning operations
- 306 **3.8.104**
307 **wash ware**
308 articles and utensils that come into contact with food and re-usable crates/containers that are cleaned
309 in a dishwashing machine
- 310 Note 101 to entry: Examples of wash ware are plates, crockery, cutlery, glasses, kitchen utensils, pots,
311 containers, crates and trays made of materials such as porcelain, plastic, glass, stainless steel and silver as well
312 as coated materials.
- 313 [SOURCE: EN 17735:2022, 3.1]

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314 **3.8.105**
 315 **cleanable**
 316 designed and constructed so that soils can be removed

317 **3.8.106**
 318 **easily cleanable**
 319 designed and constructed to be cleanable by a simple cleaning method, where necessary after removing
 320 easily dismantlable parts

321 **3.8.107**
 322 **area open to the public**
 323 area in which the general public, including children, can have access

324 Note 101 to entry: Examples are canteens and self-service restaurants.

325 4 General requirement

326 This clause of Part 1 is applicable except as follows:

327 *Replace the first paragraph with the following:*

328 Appliances shall be constructed so that they function safely so as to cause no danger to persons or
 329 surroundings during normal use, even in the event of carelessness. The appliance shall not pose any
 330 danger during installation, adjusting, maintenance, cleaning, repairing, while being at a standstill,
 331 transportation or at disposal at the end of life.

332 5 General conditions for the tests

333 This clause of Part 1 is applicable except as follows.

334 **5.3 Add:**

335 *The tests of 22.6 are carried out before the tests of Clause 19.*

336 **5.101 Appliances are tested as *motor-operated appliances*, even if they incorporate a heating**
 337 **element.**

338 *Appliances incorporating means for heating water, but that may also be operated without the heating*
 339 *elements being energized, are tested without the heating elements energized should this be more*
 340 *unfavourable.*

341 **5.102 Appliances, when assembled in combination with or incorporating other appliances, are tested in**
 342 **accordance with the requirements of this standard. The other appliances are operated simultaneously**
 343 **in accordance with the requirements of the relevant standards.**

344 6 Classification

345 This clause of Part 1 is applicable except as follows.

346 **6.1 Replace:**

347 Appliances shall be **class I** with respect to protection against electric shock.

348 Compliance is checked by inspection and by the relevant tests.

349 **6.2 Replace:**

350 Appliances shall be at least IPX4 with respect to protection against harmful ingress of water.

351 Compliance is checked by inspection and by the relevant tests.

352 7 Marking and instructions

353 This clause of Part 1 is applicable except as follows.

354 7.1 Replace of the fourth and fifth dashed items with:

355 — business name, full address and website, e-mail address or other digital contact of the manufacturer
356 and, where applicable, of its authorized representative;

357 — model or type reference, serial number and production year;

358 NOTE 101 Production year is the year when the production process is completed. The production year can
359 be a part of the serial number.

360 *Add:*

361 — the maximum permissible steam pressure, in kilopascals (kPa);

362 — the maximum permissible hot water pressure, in kilopascals (kPa);

363 — the maximum permissible water, steam and hot water temperatures in degrees Celsius;

364 — the water pressure or range of pressure, in kilopascals (kPa), for the appliances intended to be
365 connected to a water supply;

366 — designation of the appliance. The designation can be a combination of letters and/or numbers and
367 shall enable to identify the machine as specified in the instructions.

368 7.12 *Delete the original text starting with* “This appliance is not intended for use by persons (including
369 children)...” up to “...do not play with the appliance” *and the corresponding European modification.*

370 *Delete:* “WARNING: The power supply shall be disconnected from the appliance during user
371 maintenance.”

372 *Add:*

373 The front cover of the instructions shall include the substance of the following warning:

374 CAUTION: Read the instructions before using the appliance.

375 This wording may be replaced with symbols specified by ISO 7000-0434A:2004-01 and
376 ISO 7000-0790:2004-01.

377 The instructions shall include the substance of the following information:

378 — the business name and full address of the manufacturer and where applicable of its authorized
379 representative;

380 — model or type reference of the appliance as marked on the appliance itself, except for the serial
381 number.;

382 — the general description of the appliance, when needed due to the complexity of the appliance;

383 — the designation of the appliance together with its explanation if it is given by a combination of letters
384 and/or numbers;

385 — the intended use of the appliance as covered by the scope of this document;

386 — the meaning of the symbols used on the appliance and in the instructions;

387 — drawings, diagrams, descriptions and explanations necessary for the safe use, maintenance and
388 repair of the appliance and for checking its correct functioning;