3/587/CDV

COMMITTEE DRAFT FOR VOTE (CDV)
PROJET DE COMITÉ POUR VOTE (CDV)

	Project number Numéro de projet **IEC 60617 database**	
IEC/TC or SC: **3** CEI/CE ou SC:	Date of circulation Date de diffusion **2001-10-12**	Closing date for voting (Voting mandatory for P-members) Date de clôture du vote (Vote obligatoire pour les membres (P)) **2002-03-16**
Titre du CE/SC : STRUCTURES D'INFORMATIONS, DOCUMENTATION ET SYMBOLES GRAPHIQUES	TC/SC Title: INFORMATION STRUCTURES, DOCUMENTATION AND GRAPHICAL SYMBOLS	
Secretary: Mr. Per-Åke Svensson (Sweden) Secrétaire:		
Also of interest to the following committees Intéresse également les comités suivants	Supersedes document Remplace le document 3A/467/CD, 3A/478/CC	

Horizontal functions concerned
Fonctions horizontales concernées

☐ Safety / Sécurité ☐ EMC / CEM ☐ Environment / Environnement ☐ Quality assurance / Assurance qualité

Titre :

CEI 60617 Symboles graphiques pour schémas - Change request C00026: Symboles nouveau techniquement S01391, S01392, S01393, S01396, S01397, S01398, S01399 et S01400

Note d'introduction

Les symboles indiqués dans C00026 sont diffusés conformément à **la procédure étendue** définie pour la base de données de la CEI 60617.

Les comités nationaux sont priés de consulter la base de données de la CEI 60617 pour étudier la proposition et fournir ensuite leurs commentaires et votes au BC de la CEI en utilisant le système normal de vote électronique.

Puisque c'est la première fois que cette procédure est utilisée, quelques instructions sont données en annexe A

Title :

IEC 60617 Graphical symbols for diagrams - Change request C00026: Technically new symbols S01391, S01392, S01393, S01396, S01397, S01398, S01399 and S01400

Introductory note

The symbols specified in C00026 are circulated in accordance with **the extended procedure** defined for the IEC 60617 database.

The National Committees are kindly asked to enter the IEC 60617 database to study the proposal and then to submit their comments and votes to the IEC CO using the normal electronic voting system.

Since this is the first time that this procedure is used, some guidance to the National Committees is provided in annex A.

Annex A
Short briefing on the extended database procedure

The IEC 60617 database was released for internal IEC use in July 2001 and for public use in September 2001.

The procedures for the maintenance of the database are described in ISO/IEC Directives: Supplement - Procedures specific to IEC, Annex K. There are two alternatives:

- the **normal (simplified) procedure**, that involves the Validation Team only, and
- the **extended procedure**, that involves the National Committees through circulation of documents, commenting and voting

The extended procedure is intended for use i.a. for the development of symbols in entirely new areas.

The procedure implies that the symbol description proposals are contained in the database, but the National Committees are notified of their existence by making use of the document kinds specified in the directives (CD, CDV, FDIS). They are asked to comment and vote on the proposal in the database by making use of the electronic voting system and obeying the normal response times.

The cover sheets to the CD, CDV or FDIS are sufficient for provision of the required document information, as the detailed information on the symbols is accessible in the database.

The actual proposal

The actual proposal is about a set of symbols for gas-insulated equipment, earlier proposed by the NC of GB and accepted for work at a meeting of SC3A. It has been held for a long time waiting for the database to be ready for the further processing. As the CD document has been earlier discussed in a plenary meeting, and the Validation Team has evaluated the proposal, without further remarks, but concluding that the extended database procedure should be used, it is reasonable in this case to continue the procedure with an FDIS. This was also confirmed by the TC3 meeting in Oslo 2001-10-04.

What the National Committee has to do do

The address to the IEC 60617 database is **http://domino.iec.ch/symbols**.

There are a number of different access rights defined for database: In order to view change requests and proposed symbols it is NOT sufficient with normal reader (subscriber) access, but the "IECtech" level is required. Access to the database on this level is granted to IEC TC/SC Chairmen, Secretaries and WG convenors and also to NC officers **after application**. (Enter the database through the address provided above and follow the links to the application form.) Make sure that at least one person in the National Committee has the required access to the database.

1. Enter the database by making use of the username with the appropriate access right.

   NOTE - Once logged on to the database it will remember who you are until your web browser is stopped. If you have two user names, e.g. one as "subscriber/reader" and another one as "IECtech", the only way to switch between these identities is therefore to stop the web browser completely, start it again and then go to the database and logon as the other user.

2. Go to the list of change requests by clicking on "Maintenance: CR by number" on the left-hand panel. The list of change requests will then be displayed. Click on the relevant CR number (C00026 in the actual case), and this document will be displayed in a separate window.
   Study the CR. Note that active links to the relevant symbols are provided in the beginning of the document. These links will display a "read only" maintenance view of the symbols, with the different language versions.

3. If desired, the CR as well as the symbols can be printed. With the cursor in the actual window, press the right-hand mouse button and a list will be displayed in which "print" is one alternative.

4. After discussion in the National Committee, provide your comments and your vote on the usual voting forms.

NOTE - National Committees with Validation Team member should NOT use the access right of the VT member to submit their votes in the database!

5. After the closing date the IEC CO will compile the comments, count the votes and issue the RVC document. This document will also be stored as an attachment to the change request (or linked) for easy access.
6. After that an FDIS will be circulated. The procedure is similar to the one for the CDV stage, with the difference that an RVD document will be issued at the end.

   NOTE - If there are no negative votes on the CDV, it is now possible to go directly to release of the symbols according to the ISO/IEC Directives clause 2.6.4 b).
7. If the FDIS is approved, the status of the symbols will be immediately changed from "Proposed" to "Released" and the symbols will then be visible also to subscribers of the database.

For further illustration of the procedure printouts of the actual change request C00026, and the symbol pages for the actual symbols are, this time, attached to this annex.

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CHANGE REQUEST

Request ID:	C00026
Applies to:	S01391, S01392, S01393, S01396, S01397, S01398, S01399, S01400
Type of request:	Technically new
Request status:	Accepted
Proposal:	This change request was prepared on the basis of discussions at the SC 3A meeting in New Delhi and the comments from the German National Committee (3A/478/CC) on a proposal from the UK National Committee (3A/467/CD). The document 3A/478/CC, which was formulated to fit the printed publication IEC 60617, required: 1. A change in the title. 2. A re-arrangement of the description texts so that the main index can have the symbols together because of their special nature. 3. Changes to the descriptions of symbols S01398 and S01399. In the database the names have been modified as required. The keywords have been chosen to correspond to the suggested change of the title. At the loading and validation of symbols when entering the printed publication IEC 60617 into the database it has been observed that a number of existing symbols do not distinguish clearly between the defined symbol and its context. It is often desirable to show parts of the anicipated context to improve the understanding and explain the application in a simple way. On the other hand it is also important to show clearly how much that really belongs to the symbol, to support e.g. the creation of symbol libraries. In the actual case the originally proposed symbols consisted very much of context, and a solution to the problem was therefore desirable. The context is now indicated by dotted lines, and an application note (A00262) has been added as explanation. The method can be applied generally at the revision of existing symbols. It is also used in ISO 14617. The original proposal also suggested double line thickness to be used for the conductor in the published symbol. Differences in line thickness is principally a matter of application of a symbol in a diagram, see IEC 61082-1, and the symbols are therefore shown with one line thickness only. As the propsal has been discussed at a plenary meeting, no formal evaluation would have been necessary. However, the number of modifications to the original propsal is now so significant, that formal evaluation is reasonable. Since the proposal contains technically new symbols it is relevant to consider the extended procedure for the approval.
Reason:	In some kinds of diagrams it is desirable to indicate parts that are gas-insulated.
Requested by:	
Comments at evaluation:	Submitted for evaluation 2001-08-26. Closing date 2001-09-21. Because of the acceptance of the work at a plenary meeting, the evaluation is in this case limited to choise of procedure and general comments on the symbols. NO(ES): I do think that the matter of a general method for indicating context related matters in a graphical symbol should be discussed by the NCs in full. The principle may have influence on many other symbols, and also rules to be provided in the revised edition of 61082. This matter is also dealt with in ISO 14617 I believe. I suggest that the extended procedure to be applied. AT(WGAS):I am not sure if the dotted line is appropriate to indicate a conductor. May be it is better to discuss this in the national committees.

DE(RESC): As far as I see, the technical comments on 3A/467/CD are included in CR C00026. So I agree for a FDIS as the next step.

JP(HYAM): I think this proposal should be discussed in the NCs and be applied the extended database procedure.

Conclusion by the Secretary (2001-09-24): The continued procedure of this will be discussed at the meeting of TC3 in Oslo.

Addition by the Secretary (2001-10-09): This CR was discussed at the plenary meeting of TC3 in Oslo 2001-10-04:

- The method of indicating the context by dotted lines was accepted at the meeting.

- The procedure will continue with the circulation of a CDV. (The meeting accepted a direct circulation of an FDIS, but the Central Office later suggested to use a CDV, pointing at the present possibility to publish without the circulation of an FDIS if there are no negative votes.)

Comments at validation: The validation is replaced by the circulation of document 3/587/CDV in accordance with the extended database procedure.

Voting at validation:

Comment file upload:

Date of request: 2000-01-28

Date of evaluation: 2001-10-09

Date resolved:

Date withdrawn:

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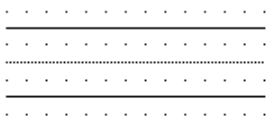
SYMBOL

Symbol ID:	S01391	Status:	Proposed
Last modified:	09.10.2001 13:21:46 (by pasvensson)	Modifiable:	Yes

Graphic:



Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated enclosure with internal conductor
	FR	Enveloppe à isolation gazeuse avec conducteur interne
Usage:	EN	
	FR	
Keywords:	EN	conductors, gas insulated enclosures, gas zones
	FR	conducteurs, enveloppes à isolation gazeuse, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		S01399, S01400
Applying:		S00001, S00063
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Lines
Function class:		W Guiding or transporting
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	The internal conductor is indicated with the dotted line.
	FR	Le conducteur interne est indiqué avec la ligne pointillée.
Change requests:		C00026

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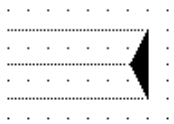
SYMBOL

Symbol ID:	S01392	Status:	Proposed
Last modified:	09.10.2001 13:22:25 (by pasvensson)	Modifiable:	Yes

Graphic:



Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated enclosure - sealing partition
	FR	Enveloppe à isolation gazeuse - cloison étanche
Usage:	EN	
	FR	
Keywords:	EN	gas insulated enclosures, gas zones, sealings
	FR	enveloppes à isolation gazeuse, étanchéités, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		S01393, S01396, S01397
Applying:		
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		
Replacing:		
Replaced by:		
Shape class:		Equilateral triangles
Function class:		U Keeping in defined position
Application class:		
Symbol restrictions:	EN	
	FR	
Remarks:	EN	
	FR	
Change requests:		C00026

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SYMBOL

Symbol ID:	S01393	Status:	Proposed
Last modified:	09.10.2001 13:23:28 (by pasvensson)	Modifiable:	Yes

Graphic:

Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated enclosure - boundary
	FR	Enveloppe à isolation gazeuse - frontière
Usage:	EN	
	FR	
Keywords:	EN	gas insulated enclosures, gas zones
	FR	enveloppes à isolation gazeuse, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		S01398
Applying:		S01392
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Equilateral triangles, Parallelograms
Function class:		U Keeping in defined position
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	
	FR	
Change requests:		C00026

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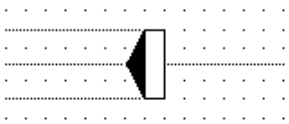
SYMBOL

Symbol ID:	S01396	Status:	Proposed
Last modified:	09.10.2001 13:24:03 (by pasvensson)	Modifiable:	Yes

Graphic:



Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated conductor - boundary with air insulated conductor
	FR	Conducteur à isolation gazeuse - frontière avec conducteur dans l'air
Usage:	EN	
	FR	
Keywords:	EN	conductors, gas insulated conductors, gas insulated enclosures, gas zones
	FR	conducteurs, conducteurs à isolation gazeuse, enveloppes à isolation gazeuse, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		
Applying:		S01392
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Equilateral triangles, Rectangles
Function class:		X Connecting
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	
	FR	
Change requests:		C00026

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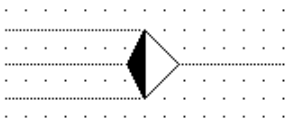
SYMBOL

Symbol ID:	S01397	Status:	Proposed
Last modified:	09.10.2001 13:24:37 (by pasvensson)	Modifiable:	Yes

Graphic:



Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated conductor - boundary with cable sealing end
	FR	Conducteur à isolation gazeuse - frontière avec extrémité étanche de câble
Usage:	EN	
	FR	
Keywords:	EN	cable fittings, conductors, gas insulated conductors, gas insulated enclosures, gas zones, sealings
	FR	accessoires pour câbles, conducteurs, conducteurs à isolation gazeuse, enveloppes à isolation gazeuse, étanchéités, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		
Applying:		S00050, S01392
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Equilateral triangles
Function class:		X Connecting
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	
	FR	
Change requests:		C00026

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SYMBOL

Symbol ID:	S01398	Status:	Proposed
Last modified:	09.10.2001 13:25:14 (by pasvensson)	Modifiable:	Yes

Graphic:

Publication reference:	.	IEC 60617 Database
Name:	EN	Gas insulated conductor - boundary with transformer or reactor bushing
	FR	Conducteur à isolation gazeuse - frontière avec traversée de transformateur ou de réactance
Usage:	EN	
	FR	
Keywords:	EN	bushings, conductors, gas insulated conductors, gas insulated enclosures, gas zones
	FR	conducteurs, conducteurs à isolation gazeuse, enveloppes à isolation gazeuse, traversées, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		
Applying:		S01393
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Equilateral triangles, Half-circles
Function class:		X Connecting
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	
	FR	
Change requests:		C00026

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SYMBOL

Symbol ID:	S01399	Status:	Proposed
Last modified:	09.10.2001 13:25:47 (by pasvensson)	Modifiable:	Yes

Graphic:

Publication reference:	.	IEC 60617 Database
Name:	EN	Conductor support insulator without gas boundary
	FR	Isolateur à support de conducteur sans limite gazeuse
Usage:	EN	
	FR	
Keywords:	EN	conductors, gas insulated conductors, gas insulated enclosures, gas zones
	FR	conducteurs, conducteurs à isolation gazeuse, enveloppes à isolation gazeuse, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		
Applying:		S01391
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Lines
Function class:		U Keeping in defined position
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	This kind of support allows gas flow.
	FR	Ce type de support autorise le courant gazeux.
Change requests:		C00026

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SYMBOL

Symbol ID:	S01400	Status:	Proposed
Last modified:	09.10.2001 13:26:33 (by pasvensson)	Modifiable:	Yes

Graphic:

Publication reference:	.	IEC 60617 Database
Name:	EN	Straight flange
	FR	Bride droite
Usage:	EN	
	FR	
Keywords:	EN	conductors, gas insulated conductors, gas insulated enclosures, gas zones
	FR	conducteurs, conducteurs à isolation gazeuse, enveloppes à isolation gazeuse, zones gazeuses
Form:	EN	
	FR	
Other forms:		
Applied in:		
Applying:		S01391
Application notes:		A00262
Date of entry:		2000-01-28
Date of evaluation:		2001-10-09
Date released:		
Date withdrawn:		
Proposed by:		GB
Replacing:		
Replaced by:		
Shape class:		Lines
Function class:		- Functional elements or attributes
Application class:		Circuit diagrams, Connection diagrams, Function diagrams, Overview diagrams
Symbol restrictions:	EN	
	FR	
Remarks:	EN	Flange without insulator.
	FR	Bride sans isolateur.
Change requests:		C00026

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APPLICATION NOTE

Note ID: A00262

Note type: General

Note (EN): Dotted lines are used to indicate the context of the actually described symbol in order to facilitate the understanding and application of it.

At the application of the symbol such lines are to be replaced by other types of lines in accordance with applicable rules for the preparation of diagrams.

Note (FR): Des lignes pointillées sont employées pour indiquer le contexte du symbole réellement décrit afin de faciliter la compréhension et l'application d'elle.

À l'application du symbole de telles lignes doivent être substituées par d'autres types de lignes selon des règles applicables pour la préparation des diagrammes.

Applies to: S01391, S01392, S01393, S01396, S01397, S01398, S01399, S01400