SLOVENSKI STANDARD
SIST IEC 60072-3:2001

01-marec-2001

Dimensions and output series for rotating electrical machines - Part 3: Small built-in motors; flange numbers BF10 to BF50

Dimensions and output series for rotating electrical machines - Part 3: Small built-in motors - Flange numbers BF10 to BF50

Dimensions et séries de puissances des machines électriques tournantes - Partie 3: Petits moteurs incorporés - Désignation des brides BF10 à BF50

Ta slovenski standard je istoveten z: **IEC 60072-3**

ICS:

29.160.30 Motorji Motors

SIST IEC 60072-3:2001 **en**

NORME INTERNATIONALE
INTERNATIONAL STANDARD

CEI
IEC
72-3

Première édition
First edition
1994-03

Dimensions et séries de puissances des machines électriques tournantes –

Partie 3:
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Part 3:
Small built-in motors –
Flange numbers BF10 to BF50

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE D

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

DIMENSIONS AND OUTPUT SERIES FOR ROTATING ELECTRICAL MACHINES

Part 3: Small built-in motors – Flange numbers BF10 to BF50

FOREWORD

1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.

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5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

International Standard IEC 72-3 has been prepared by sub-committee 2B: Mounting dimensions and output series, of IEC technical committee 2: Rotating machinery.

The text of this standard is based on the following documents:

Six Months' Rule	Report on voting
2B(CO)47	2B(CO)49

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

IEC 72, *Dimensions and output series for rotating electrical machines*, consists of three parts:

Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1 080

Part 2: Frame numbers 355 to 1 000 and flange numbers 1 180 to 2 360

Part 3: Small built-in motors – Flange numbers BF10 to BF50

DIMENSIONS AND OUTPUT SERIES FOR ROTATING ELECTRICAL MACHINES

Part 3: Small built-in motors – Flange numbers BF10 to BF50

1 Scope

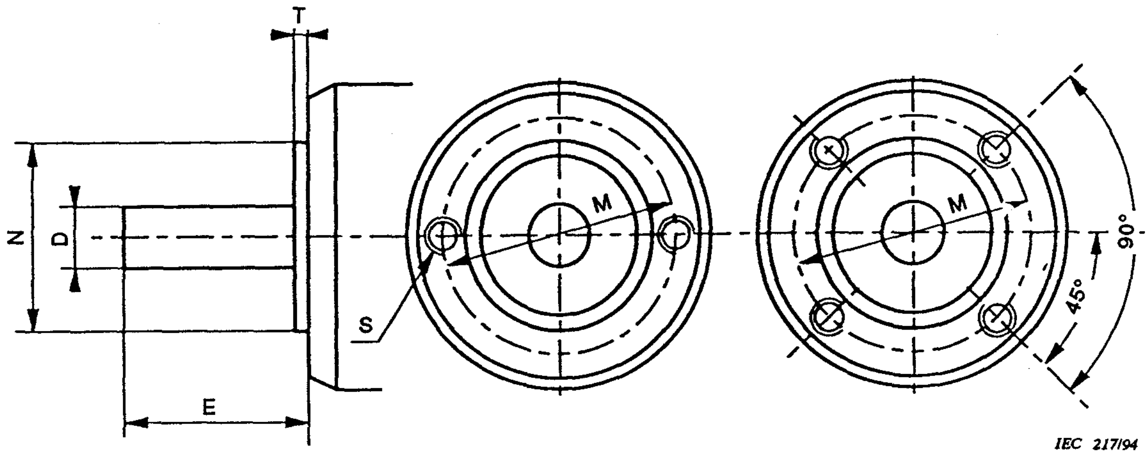
This part of IEC 72 applies to small built-in motors such as those usually intended for use in control devices.

2 Dimensions

The dimensions labelled in figure 1, and the number of fixing holes S shall be in accordance with the values specified in Table 1.

Dimensions which are not labelled shall be in accordance with the requirements of the application.

NOTE – Since the shafts of these motors have no abutment shoulder, when a part is mounted on the shaft, care should be taken either to leave a space between it and the flange, or to introduce a distance-piece between the inner race of the bearing and the driven part.



Dimensions in millimetres

Figure 1

Table 1 – Dimensions

Dimensions in millimetres

Flange number BF	M	N		T	Number of holes[1)]	S	D			E
		Nominal	Tolerance[3)]			Thread[2)]	Preferred series	Secondary series	Tolerance[3)]	
10	10	5	h6	1,5	2	M 1,6	1,2	1,5	js6	10
14	14	8	h6	1,5	2	1,6	1,5	2	js6	10
16	16	10	h6	1,5	2	2	2	2,5	js6	14
22	22	14	h6	1,5	2	3	3	–	js6	18
28	28	18	h6	2,5	2 (4)	3	4	–	js6	20
32	32	22	h6	2,5	4 (2)	3	5	4	js6	20
36	36	25	h6	2,5	4 (2)	4	6	5	js6	20
40	40	28	h6	2,5	4	5	8	6	js6	25
45	45	32	h6	2,5	4	5	9	7	js6	25
50	50	36	h6	2,5	4	5	9	7	js6	25

1) The values in brackets should be avoided wherever possible.

The arrangement of the tapped holes is independent of the position of the axis of the poles and brush axes.

2) For short machines, M 1,6 may also be used with flange BF16.

3) In accordance with ISO 286-2.