

GEC Electrical Projects Limited

GEC Industrial Controls Limited

GEM 80

DESCRIPTION

The 8712 range of transformer units is intended for use with GEM 80 systems which are to be fed from a 380/415/440V a.c. supply.

The units are designed to match the power requirements of 110V a.c. I/O blocks, and are also suitable for the power input to GEM 80 controllers and portable programmers.

FEATURES

- Includes primary and secondary fuses.
- Range of ratings to suit application.

SPECIFICATION

Input : 380/415/440V +6% -10%
45 to 63Hz A.C. 1Ø

Output : 110V +10% -11% no load
to full load with specified
input variation

Note: this ensures 110V +10% -15%
at terminals of driven device allowing
for volt drop in 110V a.c. output block

Mounting : base mounting on horizontal
surface

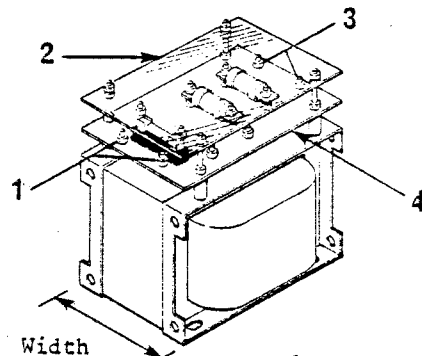
Temperature : 0 to 50°C operating at
full load, derating to
50% at 70°C

Humidity : -20 to 70°C storage
: 10 to 90% non-condensing

Table 1 Rating dependent data

Type	8712 4001	8712 4002	8712 4003	8712 4004
Full load (A)	5	15	30	50
Losses at full load (W)	29	60	93	204
Overall dimensions : High (mm)	175	256	316	366
: Wide	171	171	216	260
: Deep	137	234	286	310
Weight (kg)	10	22	42	65
Fixing centres (mm): Wide	108	95	140	190
: Deep	89	114	165	133
: Hole Ø	6	9	13	10

8712 Plant side power supply (110V A.C. output)



NOTE Illustration is
8712 4002 rated 15A

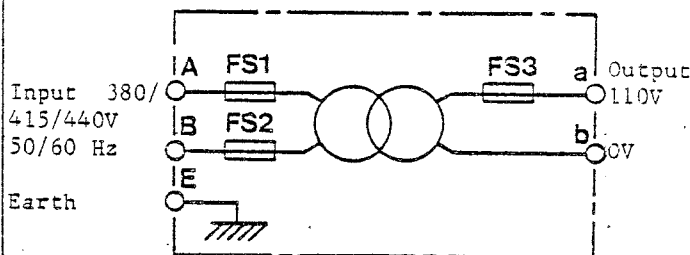
1. Output terminals.
2. Shroud over fuses and terminals.
3. Input terminals.
4. Terminal board.

Table 1 continued.

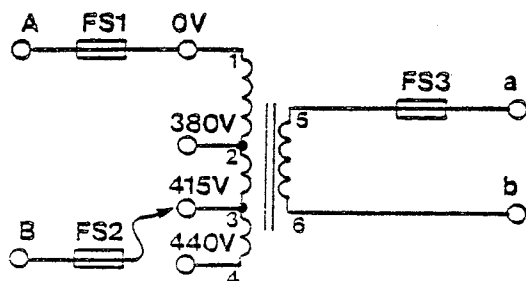
Type	8712 4001	8712 4002	8712 4003	8712 4004
Terminal size : Input	M4	M4	M4	M5
: Output	M4	M4	M5	M5
Fuse rating (A) : Input	6	10	16	25
: Output	15	15	32	50
Open circuit output for nominal input (V)	116	115.5	115	115
% regulation : 1xF.L.C.	2.8	2.0	1.1	1.0
P.F. = 1 : 5xF.L.C.	15.5	10.3	5.9	5.3
% regulation : 1xF.L.C.	4.7	2.4	1.6	1.4
P.F. = 0.7 : 5xF.L.C.	23.4	12.2	8.0	7.9

APPLICATION NOTES

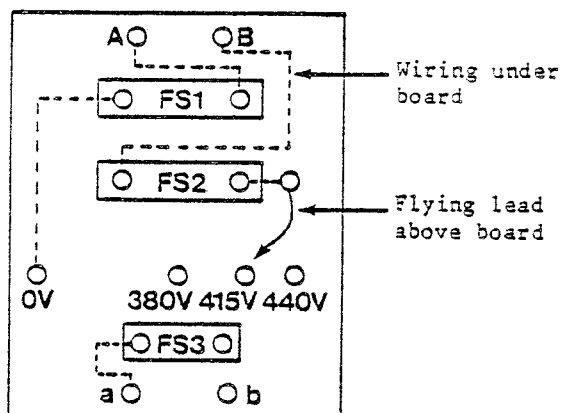
1. REPRESENTATION FOR SYSTEM DIAGRAM



2. INTERNAL CIRCUIT



3. TERMINAL BOARD LAYOUT



ORDERING CODES

1. EQUIPMENT

Output	Order code
110V a.c. 5A	8712 4001
110V a.c. 15A	8712 4002
110V a.c. 30A	8712 4003
110V a.c. 50A	8712 4004

2. SPARES

Unit type	Device Type	Manufacturer
8712 4001	FS1/2 NIT6 FS3 L693 15A	GEC Fusegear Belling Lee
8712 4002	FS1/2 NIT10 FS3 L693 15A	GEC Fusegear Belling Lee
8712 4003	FS1/2 NIT16 FS3 TIA32	GEC Fusegear "
8712 4004	FS1/2 TIA25 FS3 TIS50	" "

Note: The Company's policy is one of continuous development and improvement and therefore the right is reserved to supply products which may differ in detail from those described and illustrated in this publication. All our products and materials are sold subject to Conditions of Sale available from us on request.

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