

RELAY IDENTIFICATION

All **GE (formerly ALSTOM/ENGLISH ELECTRIC)** make relays bear an identification or model number and a serial number which must be quoted with all relative after-sales correspondence.

The model number of standard conventional relays (mostly) is contrived as follows :

Example CDG31FF002SACH

C	D	G	3	1	FF	0	0	2	S	A	C	H
a	b	c	d	e	f	g	h	i	j	k	l	m

a. Operating quantity

A	Phase angle comparison	O	Oil pressure
B	Balanced current	P	Polyphase volt-amperes
C	Current	R	Reactive volt-amperes
D	Differential	S	Slip frequency
E	Direction	T	Temperature
F	Frequency	V	Voltage
G	Gauss	W	Power
I	Directional current	X	Reactance
K	Rate of rise of current	Y	Admittance
M	Manual	Z	Impedance

b. Basic movement

A	Attracted armature	M	Sensitive balanced armature
B	Buchholz	P	Plug
C	Induction cap	R	Rectifier
D	Induction disc	S	Synchronous motor

G	Galvanometer	T	Static circuit
I	Transactor	W	Weight or gravity

c. Indication of application

A	Auxiliary	M	Motor or semaphore
B	Testing	N	Negative phase sequence
C	Carrier or counting	O	Out-of-step
CB	Capacitor Bank	P	Potential or fuse failure
D	Directional	Q	Alarm
E	Earth	R	Reclosing
EF	Earth fault	S	Synchronising
F	Flag or indicator	T	Transformer or timer
G	General or generator	U	Definite time
GF	Generator field	V	Voltage Control
H	Harmonic restraint	W	Pilot wire
I	Interlocked or Industrial	WA	Interposing auxiliary
IG	General or generator	WJ	Intertripping
J	Tripping	X	Supervisory
JE or JX	Tripping (Elect-reset)	Y	Flashback or back fire
JH or JY	Tripping (Eand-reset)	Z	Special application
JA, JS or JZ	Tripping (Self-reset)	ZS	Zero phase sequence
JB	Control (Tripping)		
K	Check alarm		
L	Load Limiting		

d. Number of poles/elements

For eg :- CDG³ for three pole relay & CDG¹ for single pole relay.

e. Variant in the particular model of the relay

For example :-

- ◆ CDG1¹ for IDMT characteristic, CDG1² for Inverse time, CDG1³ for very inverse time and CDG1⁴ for extremely inverse time.
- ◆ VDG1¹ for Over voltage and VDG1³ for Under voltage.
- ◆ DTH3¹ for 2 winding transformer and DTH3² for 3 winding transformer.

f. Case size

Yf :	¼ N	ZG :	½ N
ZG:	½ N	AF :	1 D (Single)
BF :	1 D (Double)	PF :	1 ½ D
EG:	3D Horz.	FF :	3D Vert.
DF :	2D (Vert.)		

The **approximate dimensions** of the above case sizes are as mentioned below. For precise dimensions & cut out size for each relay, please refer the catalogue, since these may vary slightly with different terminal screws, etc.

¼ N	:	118(H) x 105(W) x 115(D) mm (Vertical)
½ N (Vert.)	:	153(H) x 124(W) x 130(D) mm (Vertical)
½ N (Horz.)	:	124(H) x 153(W) x 130(D) mm (Horizontal)
1 D (Single)	:	233(H) x 170(W) x 203(D) mm (Vertical)
1 ½ D	:	362(H) x 170(W) x 203(D) mm (Vertical)
3D Horz.	:	233(H) x 454(W) x 203(D) mm (Horizontal)
3D Vert.	:	524(H) x 170(W) x 203(D) mm (Horizontal)
2D (Vert.)	:	425(H) x 174(W) x 218(D) mm (Vertical)

g. --- m. : *Depends upon the CT rating/contact combination/aux. Supply/flag/slug/etc.*

GENERAL : Relays with the prefix '**M**' are in Midos case.