LIST OF PRINCIPAL SYMBOLS:

$v_{\mathbf{L}}$	System fault voltage, referred to the
·	secondaries of the potential transformers
I _L Ø	System fault current, referred to the
•	secondaries of the current transformers
Z_{L} , Z	Line Impedance
z _R ∠ e	Replica impedance
R, X	Resistance and reactance, respectively
$\mathbf{z_s}$	Source impedance
S ₁ ,S ₂ etc.	Derived Signals for comparison
β ₁ , β ₂ etc.	Angular limits of phase comparison
m ·	Fraction representing the location of
•	fault
z_1	Positive sequence impedance of the
•	system viewed from the point of fault
\mathbf{Z}_{2}	Negative sequence impedance, similar
	to Z ₁
Z _o	Zero sequence impedance, similar to
,	z ₁
$\mathbf{z_1}^{\bullet}$	Positive sequence impedance of the
	line, from relay to the point of fault
$Z_{\mathcal{O}}^{\mathfrak{t}}$	Zero sequence impedance, similar to
	Z; .

$^{\mathrm{R}}\mathbf{f}$	Fault resistance
K ₁ /a, K ₂ /a ₂ etc.	Voltage coefficients
K ₁ , K ₂ etc.	Constants representing potentiometer
`,	settings
δ	Load angle
Sp	Polarising signal derived from
•	healthy phase or phase-pair
Ep	Prefault e.m.f.
YPR	Input admittance of pilot-wires
G _p , B _p	Conductance and susseptance of
	pilot-wires
Y ₁ , Y ₂ etc.	Replica admittances
K .	Relaying current distribution factor
E	Positive sequence voltage
I	Positive sequence current
1	Index defining the quantities on the
*	left of the point of fault, in
	accordance with fig. 9.1
	Index defining quantities on the
	right of the point of fault, in
	accordance with fig. 9.1
$\mathbf{z_r}_1$	Positive sequence impedance seen
-1	by the relay

		Impedance just causing the operation
X = Accuracy	_	of the relay
	-	Impedance setting of the relay
Y = Range =	inte	System source impedance
	-	Impedance setting of the relay