



Relè differenziale 72x72mm

Residual current device 72x72mm

Delta 72-S

Versione salvavita, con blocco elettrico
($t = 0$) a $I_{\Delta n}$ 30mA

Punto di intervento selezionabile
30mA...30A (19 portate)

Visualizzazione istantanea percentuale di $I_{\Delta n}$

Sicurezza positiva o negativa
selezionabile in campo

Test automatico permanente

Relè di allarme + preallarme oppure relè
allarme con doppio scambio

Instantaneous

($t = 0$) at $I_{\Delta n}$ 30mA

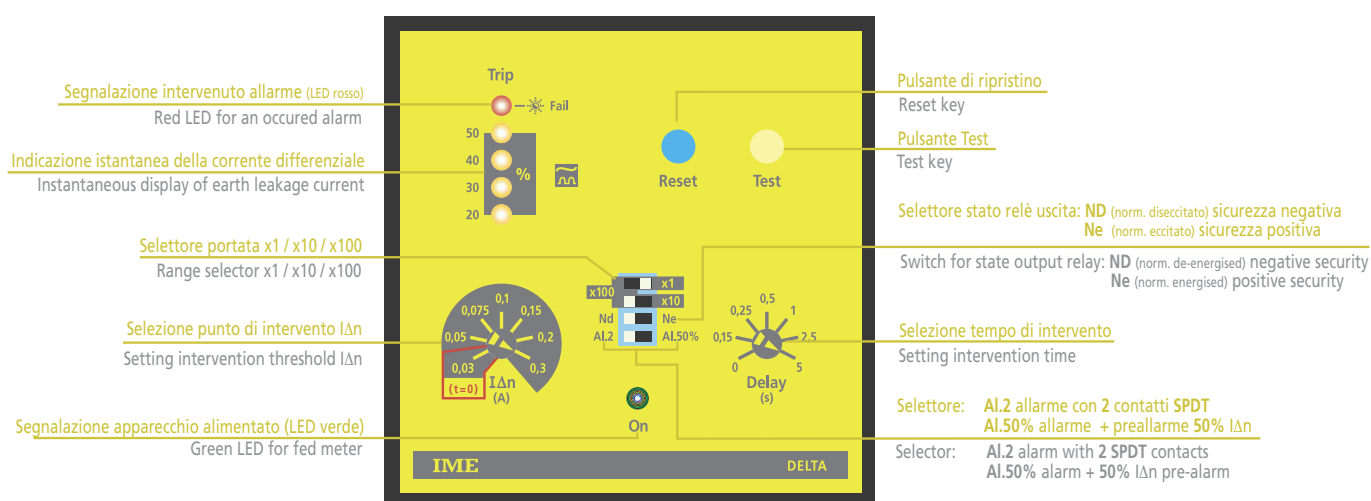
Selectable set point

30mA...30A (19 ranges)

Instantaneous display as percentage of $I_{\Delta n}$
Field-selectable negative or positive security
(fail safe)

Automatic permanent test

Alarm relay + pre-alarm or alarm relay with
double exchange



MODELLO MODEL		72-S
CODICE CODE		RD1E2...
NOTA TECNICA TECHNICAL NOTE		NT692
PORTATE RANGES	19: 0,03...30A	X
	18: 0,5...30A	
BLOCCO ELETTRICO INSTANTANEOUS	t=0s a/at IΔn 30mA	X
FORMA D'ONDA WAVEFORM	Sinusoidale (tipo AC) Sinusoidal (AC type)	X
	Pulsante parzializzata con componente continua (tipo A) Chopped pulsating with superimposed dc (A type)	X
FILTRO COMPONENTI ARMONICHE FILTER FOR HARMONICS	Selezionabile Selectable	
	Fisso Fixed	
NORMA DI RIFERIMENTO ACCORDING TO	EN60947-2 IEC60947-2	X
ALLARME ALARM	1 Uscita Relè 1 Relay Output	
	2 Uscite Relè 2 Relays Output	❖
	1 Uscita + Preallarme 1 Output + Pre-alarm	❖
VISUALIZZAZIONE IΔn DISPLAY	Barra LED LED Bargraph	X
	Display	
USCITA RELE' RELAY OUTPUT	SPDT	
	SPDT + SPST	
	2 SPDT	X
SICUREZZA positiva / negativa SECURITY positive / negative	Selezionabile Selectable	X
TEST	Locale Local	X
	Remoto Remote	■
	Automatico Automatic	X
RIPRISTINO RESET	Locale Local	X
	Remoto Remote	X
	Automatico Automatic	
ALIMENTAZIONE AUSILIARIA AUXILIARY SUPPLY	230Vca/ac	X
	24-48-115-240-400Vca/ac	X
	20...150Vcc/dc	X
	10...36Vcc/dc	
DIMENSIONI DIMENSIONS	2 Moduli 2 Module	
	4 Moduli 4 Module	
	48 x 48 mm	
	72 x 72 mm	X
	96 x 96 mm	

CODICI DI ORDINAZIONE ORDERING CODE	AL. AUSILIARIA AUX. SUPPLY
RD1E211B	24V ca/ac
RD1E212B	115V ca/ac
RD1E213B	230V ca/ac
RD1E214B	240V ca/ac
RD1E215B	400V ca/ac
RD1E21HB	20...150Vcc/dc + 48V ca/ac

INGRESSO

Inserzione: linea bassa tensione, con trasformatore serie TD

Forma d'onda IΔn: sinusoidale (tipo AC) o pulsante parzializzata con componente continua (tipo A) in accordo con IEC/EN60947-2 Annesso M

Frequenza nominale fn: 50Hz

Frequenza di funzionamento: 47...63Hz

INPUT

Connection: low voltage lines, with series TD transformer

Waveform IΔn: sinusoidal (type AC) or chopped pulsating with superimposed d.c. (type A) according to IEC/EN60947-2 Annex M

Rated frequency fn: 50Hz

Working frequency: 47...63Hz

PREDISPOSIZIONE

Punto di intervento IΔn: selezionabile con potenziometro a 7 posizioni, 3 gamme x1 - x10 - x100

Portate IΔn: vedi tabella

SET UP

Current set point IΔn: selectable by 7-position potentiometer, 3 ranges x1 - x10 - x100

Ranges IΔn: see table

		0,03	0,05	0,075	0,1	0,15	0,2	0,3
IΔn	X1	30mA	50mA	75mA	100mA	150mA	200mA	300mA
	X10	300mA	500mA	750mA	1A	1,5A	2A	3A
	X100	3A	5A	7,5A	10A	15A	20A	30A

Corrente differenziale di non intervento: 0,5 IΔn

Tempo di intervento t: selezionabile con potenziometro a 7 posizioni

Campo regolazione t: 0 - 0,15 - 0,25 - 0,5 - 1 - 2,5 - 5 secondi

Non-operating residual current : 0,5 IΔn

Intervention time t: selectable by 7 position potentiometer

Adjustable range t: 0 - 0,15 - 0,25 - 0,5 - 1 - 2,5 - 5 seconds

Soglia intervento (IΔn) Set point (IΔn)	0,03A	0,05...30A					
Ritardo impostato t(s) Selected delay t(s)	0s	0,15s	0,25s	0,5s	1s	2,5s	5s
Tempo non intervento @ 2IΔn Non-operating time at @ 2IΔn		0,15s	0,25s	0,5s	1s	2,5s	5s
Max. ritardo @ 5IΔn Max. delay @ 5IΔn	0,03s	0,24s	0,35s	0,63s	1,20s	2,80s	5,50s

Selezionando la soglia di intervento nella posizione 0,03 viene automaticamente escluso il ritardo intervento, indipendentemente dalla posizione del moltiplicatore di portata (x1/10/100).

Selettore AI.2 - AI.50%

AI.2: relè di allarme con doppio scambio

AI.50%: relè di allarme + preallarme 50% IΔn

Il relè contrassegnato 60 - 61 - 62 è un preallarme con soglia intervento fissa, pari a 50% del valore di IΔn selezionato

Selecting the intervention threshold on position 0,03 the intervention delay is automatically excluded, independently of position of range selector (x1/10/100).

Switch AI.2 - AI.50%

AI.2: alarm relay with double exchange

AI.50%: alarm relay + pre-alarm 50% IΔn

Relay marked 60 - 61 - 62 is a pre-alarm state with fixed intervention threshold, equal 50% of selected IΔn value

SEGNALAZIONE

Strumento alimentato: LED verde "ON"

Valore istantaneo IΔn: 4 LED gialli, 20 - 30 - 40 - 50% del valore IΔn impostato

Intervento allarme: LED rosso "TRIP" + commutazione relè "TRIP"

Interruzione collegamenti relè - toroide: lampeggio LED rosso "TRIP" + commutazione relè "TRIP"

Preallarme: commutazione relè 50% IΔn

SIGNALING

Power ON: green LED "ON"

Instantaneous value IΔn: 4 yellow LED's, 20 - 30 - 40 - 50% of set IΔn value

Alarm intervention: red LED "TRIP" + "TRIP" relay switching

Ring current transformer-relay connection failure: red LED "TRIP" blinking + "TRIP" relay switching

Pre-alarm: 50% IΔn relay switching

CONTROLLO

Test manuale: verifica l'efficienza del relè differenziale

Locale: pulsante frontale

Remoto: chiusura contatto esterno (Non realizzabile con aux cc e con Uaux 48Vca)

Test automatico permanente: verifica la continuità del collegamento relè differenziale - toroide

CONTROL

Manual test: it verifies the residual current relay perfect working

Local: front key

Remote: by external contact closing (Not available with dc supply and Uaux 48Vac)

Automatic continuous test: it verifies the integrity of the connection between relay and ring core

ALLARME

Memorizzazione intervento : LED rosso "TRIP" + autoritenuta relè
Ripristino (reset): manuale
Manuale locale: pulsante frontale
Manuale remoto: chiusura contatto esterno
Ripristino inibito con corrente differenziale persistente: > 50% IΔn

USCITA

Allarme con doppio scambio (AI.2)
Relè "TRIP": 2 contatti di scambio SPDT
Allarme + preallarme (AI.50%)
Relè "TRIP": 1 contatto di scambio SPDT
Relè 50% IΔn: 1 contatto di scambio SPDT (sicurezza negativa)
Sicurezza negativa/condizionata (relè normalmente diseccitato) oppure positiva/incondizionata (relè normalmente eccitato): selezionabile tramite dip switch

ALIMENTAZIONE AUSILIARIA

Valore nominale Uaux: 48 - 115V - 230V - 240V - 400V
Variazione ammessa: 0,85...1,1Uaux - 40...60V (Uaux 48V)
Frequenza nominale: 50Hz
Variazione ammessa: 47...63Hz
Autoconsumo: ≤ 2,5VA
Valore nominale Uaux: 20...150Vcc
Protezione contro l'inversione di polarità
Autoconsumo: ≤ 2,5W
Insensibilità ai buchi di tensione con durata fino a 150ms (Uaux nominale)

ISOLAMENTO (IEC/EN 60947-1)

Categoria di installazione: III
Grado di inquinamento: 2
Tensione di riferimento per l'isolamento: 450V
Prova di tensione a impulso 5kV 1,2/50Ms 0,5J
Circuiti considerati: ingresso, uscita relè, alimentazione ausiliaria
Prova a tensione alternata 2,5kV valore efficace 50Hz/1min
Circuiti considerati: ingresso, uscita relè, alimentazione ausiliaria
Prova a tensione alternata 4kV valore efficace 50Hz/1min
Circuiti considerati: tutti i circuiti e massa

PROVE DI COMPATIBILITA' ELETTROMAGNETICA

Prove di emissione in accordo con IEC/EN 60947-2
Prove di immunità in accordo con IEC/EN 60947-2

CONDIZIONI AMBIENTALI

Temperatura di impiego: -5...50°C
Temperatura limite di funzionamento: -10...55°C
Temperatura di magazzinaggio: -40...70°C
Umidità relativa (IEC60755): 50% (valore massimo a 40°C)
Adatto all'utilizzo in clima tropicale
Massima potenza dissipata ¹ : ≤ 2W
¹ Per il dimensionamento termico dei quadri

CUSTODIA

Custodia: incasso (foratura pannello 68x68mm)
Frontale: 72x72mm (75x75 mm con opzione IP54)
Profondità: 75 mm
Connessioni: faston 6,3x0,8mm
Materiale custodia: policarbonato autoestinguente
Grado di protezione (EN/IEC 60529): IP40 (frontale), IP20 (morsetti)
Peso: 250 grammi

ALARM

TRIP state memorization: red LED "TRIP" + relay self-retaining
Reset: manual
Local manual: front key
Remote manual: external contact closing
Inhibited reset with persistent residual current: > 50% IΔn

OUTPUT

Alarm relay with double exchange (AI.2)
"TRIP" relay: 2 SPDT contacts
Alarm + pre-alarm (AI.50%)
"TRIP" relay: 1 SPDT contact
50% IΔn relay: 1 SPDT contact (negative security)
Negative security (normally de-energised relay) or positive security fail safe (normally energised relay): selectable by dip switch

AUXILIARY SUPPLY

Rated value Uaux: 48 - 115V - 230V - 240V - 400V
Tolerance: 0,85...1,1Uaux - 40...60V (Uaux 48V)
Rated frequency: 50Hz
Tolerance: 47...63Hz
Rated burden: ≤ 2,5VA
Rated value Uaux: 20...150Vdc
Protected against incorrect polarity
Rated burden: ≤ 2,5W
Immunity to short interruption of supply voltage up to 150ms (Rated Uaux)

INSULATION (IEC/EN 60947-1)

Installation category: III
Pollution degree: 2
Insulation reference voltage: 450V
Impulse voltage test 5kV 1,2/50μs 0,5J
Considered circuits: input, relay output, auxiliary supply
A.C. voltage test 2,5kV r.m.s. 50Hz/1 min
Considered circuits: input, relay output, auxiliary supply
A.C. voltage test 4kV r.m.s. 50Hz/1 min
Considered circuits: all circuits and earth

TESTS FOR ELECTROMAGNETIC COMPATIBILITY

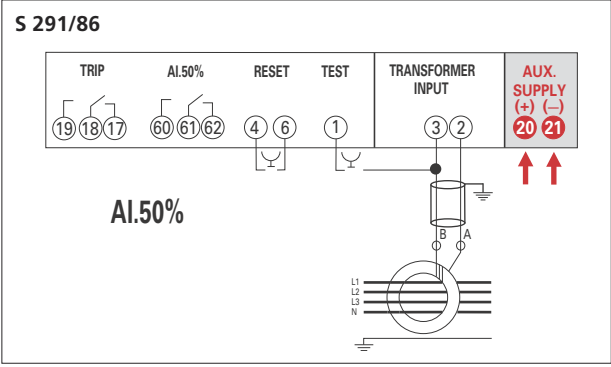
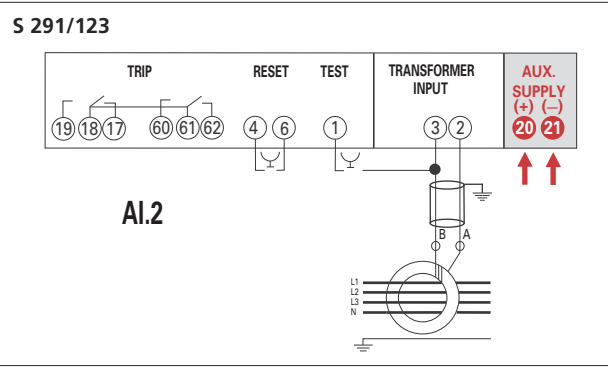
Emission tests according to IEC/EN 60947-2
Immunity tests according to IEC/EN 60947-2

ENVIRONMENTAL CONDITIONS

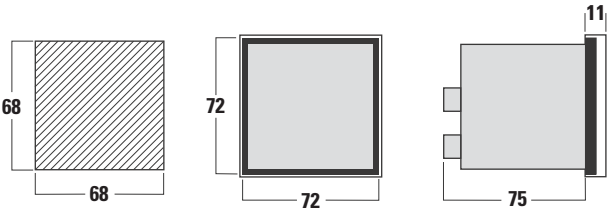
Nominal temperature range: -5...50°C
Limit temperature range: -10...55°C
Limit temperature range for storage: -40...70°C
Relative humidity (IEC60755): 50% (highest value at 40°C)
Suitable for tropical climates
Max. power dissipation ¹ : ≤ 2W
¹ For switchboard thermal calculation

HOUSING

Housing: flush mounting (panel cutout 68x68mm)
Front frame: 72x72mm (75x75 mm with IP54 option)
Depth: 75 mm
Connections: fast-ons 6,3x0,8mm
Housing material: self-extinguishing polycarbonate
Protection degree (EN/IEC 60529): IP40 front frame, IP20 terminals
Weight: 250 grams



DIMENSIONI DIMENSIONS



Relais différentiel 72x72mm

Déclenchement instantané
($t = 0$) à $I_{\Delta n}$ 30mA
Point d'intervention sélectionnable 30mA...
30A (19 Calibres)
Visualisation instantanée du pourcentage de $I_{\Delta n}$
Sécurité positive ou négative sélectionnable
par l'utilisateur
Test automatique permanent
Relais d'alarme + préalarme ou relais alarme
avec double échange

Residual current device 72x72mm

Instantaneous
($t = 0$) at $I_{\Delta n}$ 30mA
Selectable set point
30mA...30A (19 ranges)
Instantaneous display as percentage of $I_{\Delta n}$
Field-selectable negative or positive security
(fail safe)
Automatic permanent test
Alarm relay + pre-alarm or alarm relay with
double exchange

Delta RD1E2



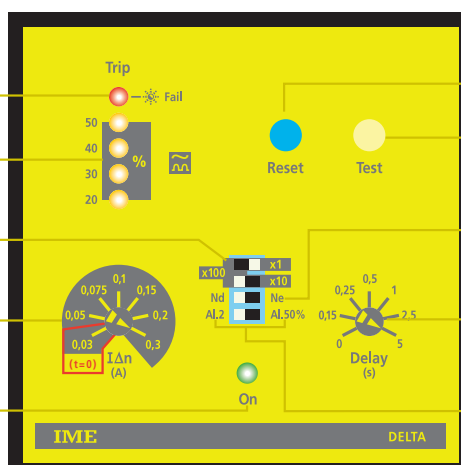
Signalisation de l'intervention de l'alarme (LED rouge)
Red LED for an occurred alarm

Indication instantanée du courant différentiel
Instantaneous display of earth leakage current

Sélecteur de calibre x1 / x10 / x100
Range selector x1 / x10 / x100

Sélection du point d'intervention $I_{\Delta n}$
Setting intervention threshold $I_{\Delta n}$

Signalisation de l'appareil alimenté (LED verte)
Green LED for fed meter



Touche de Reset
Reset key

Touche de Test
Test key

Sélection de l'état du relais de sortie: ND (norm. désexcité) sécurité négative
Ne (norm. excité) sécurité positive

Switch for state output relay: ND (norm. de-energised) negative security
Ne (norm. energised) positive security

Sélection de la temporisation
Setting intervention time

Sélecteur: AI.2 alarme avec 2 contacts SPDT
AI.50% alarme + préalarme 50% $I_{\Delta n}$

Selector: AI.2 alarm with 2 SPDT contacts
AI.50% alarm + 50% $I_{\Delta n}$ pre-alarm

MODEL MODEL		RD1E2
REFERENCE CODE		4021 20..
NOTICE TECHNIQUE		NT691
CALIBRES RANGES	19: 0,03...30A	X
	18: 0,5...30A	
DECLenchement INSTANTANE INSTANTANEOUS	t=0s à/at I _{Δn} 30mA	X
FORME D'ONDE WAVEFORM	Sinusoidale (type AC) Sinusoidal (AC type)	X
	Pulsante hachée avec composante continue (type A) Chopped pulsating with superimposed dc (A type)	X
FILTRE POUR LES HARMONIQUES FILTER FOR HARMONICS	Sélectionnable Selectable	
	Fixe Fixed	
NORME DE REFERENCE ACCORDING TO	EN60947-2 IEC60947-2	X
ALARME	1 sortie relais 1 relay output	
	2 sortie relais 2 relay output	❖
	1 sortie + préalarme 1 relay + Pre-alarm	❖
AFFICHAGE I _{Δn} DISPLAY	Barre LED LED Bargraph	X
	Affichage Display	
SORTIE RELAIS ¹ RELAY OUTPUT	SPDT	
	SPDT + SPST	
	2 SPDT	X
SECURITE positive / negative SECURITY	Sélectionnable Selectable	X
TEST	Local	X
	Déporté Remote	■
	Automatique Automatic	X
RESET	Local Local	X
	Déporté Remote	X
	Automatique Automatic	
ALIMENTATION AUXILIAIRE AUXILIARY SUPPLY	230Vca/ac	X
	24-48-115-240-400Vca/ac	X
	20...150Vcc/dc	X
	10...36Vcc/dc	
DIMENSIONS AUXILIARY SUPPLY	2 Modules	
	4 Modules	
	48 x 48mm	
	72 x 72mm	X
	96 x 96mm	

■ Non réalisable avec alim. aux. 20...150Vcc-48Vca / Not available with aux.supply 20...150Vcc-48Vca

❖ Selon demande / on choice

REFERENCE ORDERING CODE	AL. AUXILIAIRE AUX. SUPPLY
	24V ca/ac
	115V ca/ac
4021 2040	230V ca/ac
	240V ca/ac
4021 2045	400V ca/ac
4021 2046	20...150Vcc/dc + 48V ca/ac

ENTREE

Raccordement: réseau basse tension, avec transformateur série DEL.N.

Forme d'onde IΔn: sinusoïdale (type AC) ou pulsée découpée avec composantes continues (type A) selon IEC/EN 60947-2 Annexe M

Fréquence nominale fn: 50Hz

Fréquence de fonctionnement: 47...63Hz

REGLAGES

Déclenchement IΔn: sélectionnable par dip-switch 7 positions, 3 gammes x1 - x10 - x100

Calibre IΔn: voir tableau

		0,03	0,05	0,075	0,1	0,15	0,2	0,3
IΔn	X1	30mA	50mA	75mA	100mA	150mA	200mA	300mA
	X10	300mA	500mA	750mA	1A	1,5A	2A	3A
	X100	3A	5A	7,5A	10A	15A	20A	30A

Courant différentiel de non fonctionnement: 0,5 IΔn

Temporisation t: sélectionnable par dip-switch 7 positions

Choix des temporisations t 0 - 0,15 - 0,25 - 0,5 - 1 - 2,5 - 5 secondes

Seuil d'intervention (IΔn) Set point (IΔn)	0,03A	0,05...30A					
Choix des temporisations t(s) Selected delay t(s)	0s	0,15s	0,25s	0,5s	1s	2,5s	5s
Durée de déclenchement @ 2IΔn Non-operating time at @ 2IΔn		0,15s	0,25s	0,5s	1s	2,5s	5s
Durée de dédcenchement max. @ 5IΔn Max. delay @ 5IΔn	0,03s	0,24s	0,35s	0,63s	1,20s	2,80s	5,50s

En sélectionnant le seuil d'intervention sur la position 0,03, le délai d'intervention est automatiquement exclu, indépendemment de la position du sélecteur de calibre (x1/10/100).

Sélecteur AI.2 - AI.50%

AI.2:relais d'alarme avec double échange

AI.50%: relais d'alarme + préalarme 50% 50% IΔn

Le relais indiquant 60 - 61 - 62 est un préalarme avec un seuil d'intervention fixe, égal à 50% de la valeur IΔn sélectionnée

SIGNALISATION

Instrument alimenté: LED verte "ON"

Valeur instantanée IΔn: 4 LED jaune, 20 - 30 - 40 - 50% de la valeur IΔn sélectionnée

Déclenchement de l'alarme: LED rosso "TRIP" + commutation relais "TRIP"

Interruption raccordement relais-tore: LED rouge "TRIP" + commutation relais "TRIP"

Préalarme: commutation relais 50% IΔn

CONTROLE

Test manuel: permet de vérifier le bon fonctionnement du dispositif différentiel

Local: touches en face avant

Déporté: par contact fermé extérieur (non disponible avec alim. cc et Uaux. 48Vca)

Test automatique: permet de vérifier l'efficacité du dispositif (relais différentiel-tore)

INPUT

Connection: low voltage lines, with series TD transformer

Waveform IΔn: sinusoidal (type AC) or chopped pulsating with superimposed d.c. (type A) according to IEC/EN60947-2 Annex M

Rated frequency fn: 50Hz

Working frequency: 47...63Hz

SET UP

Current set point IΔn: selectable by 7-position potentiometer, 3 ranges x1 - x10 - x100

Ranges IΔn: see table

Non-operating residual current : 0,5IΔn

Intervention time t: selectable by 7 position potentiometer

Adjustable range t: 0 - 0,15 - 0,25 - 0,5 - 1 - 2,5 - 5 seconds

Selecting the intervention threshold on position 0,03 the intervention delay is automatically excluded, independently of position of range selector (x1/10/100).

Switch AI.2 - AI.50%

AI.2: alarm relay with double exchange

AI.50%: alarm relay + pre-alarm 50% IΔn

Relay marked 60 - 61 - 62 is a pre-alarm state with fixed intervention threshold, equal 50% of selected IΔn value

SIGNALING

Power ON: green LED "ON"

Instantaneous value IΔn: 4 yellow LED's, 20 - 30 - 40 - 50% of set IΔn value

Alarm intervention: red LED "TRIP" + "TRIP" relay switching

Ring current transformer-relay connection failure: red LED "TRIP" blinking + "TRIP" relay switching

Pre-alarm: 50% IΔn relay switching

CONTROL

Manual test: it verifies the residual current relay perfect working

Local: front key

Remote: by external contact closing (Not available with dc supply and Uaux 48Vac)

Automatic continuous test: it verifies the integrity of the connection between relay and ring core

ALARME

Mémorisation du déclenchement¹: LED rouge "TRIP" + et automaintien du relais
¹ sauf avec le réarmement automatique

Réarmement (reset): manuel

Réarmement manuel local : touches en face avant

Réarmement manuel déporté: par contact externe

Inhibition du réarmement en cas de défaut persistant: > 50% IΔn

SORTIE

Relais alarme avec double échange (AI.2)

Relais "TRIP": 2 contact/inverseur SPDT

Alarme + préalarme (AI.50%)

Relais "TRIP": 1 contact/inverseur SPDT

Relais 50% IΔn: 1 contact/inverseur SPDT (sécurité négative)

Sécurité négative (relais normalement désexcité) ou positive (relais normalement excité): sélectionnable par dip-switch

ALIMENTATION AUXILIAIRE

Valeur nominale Uaux ca: 48 - 115V - 230V - 240V - 400V

Variation admissible: 0,85...1,1Uaux - 40...60V (Uaux 48V)

Fréquence nominale: 50Hz

Variation admissible: 47...63Hz

Autoconsommation : ≤ 2,5VA

Valeur nominale Uaux: 20...150Vdc

Protection contre l'inversion de polarité

Autoconsommation : ≤ 2,5W

Insensibilité aux micro-coupures d'alimentation de tension jusqu'à 150ms (Uaux nominal)

ISOLEMENT

(EN / IEC 60947-1)

Catégorie de l'installation: III

Degré de pollution: 2

Tension nominale d'isolement: 450V

Tension d'essai 5kV impulsion normalisée 1,2/50Ms 0,5J

Circuits concernés: entrée, sortie relais, alimentation auxiliaire

Tension d'essai 2,5kV valeur efficace 50Hz/1min

Circuits concernés: entrée, sortie relais, alimentation auxiliaire

Tension d'essai 4kV valeur efficace 50Hz/1min

Circuits concernés: tous les circuits et la masse

COMPATIBILITE ELECTROMAGNETIQUE

Essai d'émission selon la norme IEC/EN 60947-2

Essai d'immunité selon la norme IEC/EN 60947-2

CONDITIONS D'UTILISATION

Température de référence: -5...50°C

Température limite de fonctionnement: -10...55°C

Température limite de stockage: -40...70°C

Humidité relative (IEC60755): 50% (valeur maximum à 40°C)

Adapté pour l'utilisation en climat tropical

Puissance maximum dissipée¹: ≤ 2W

¹Pour le dimensionnement thermique du coffret

BOITIER

Boîtier : encastré (découpe 68x68mm)

Face avant: 72x72mm (75x75 mm avec option IP54)

Profondeur : 75 mm

Raccordement : faston 6,3x0,8mm

Matériaux du boîtier: makrolon autoextinguible

Degré de protection (EN / IEC 60529): IP40 face avant, IP20 bornes

Poids : 250 grammes

ALARM

TRIP state memorization¹: red LED "TRIP" + relay self-retaining
¹excluded with automatic reset

Reset: manual

Local manual: front key

Remote manual: external contact closing

Inhibited reset with persistent residual current: > 50% IΔn

OUTPUT

Alarm relay with double exchange (AI.2)

"TRIP" relay: 2 SPDT contacts

Alarm + pre-alarm (AI.50%)

"TRIP" relay: 1 SPDT contact

50% IΔn relay: 1 SPDT contact (negative security)

Negative security (normally de-energised relay) or positive security fail safe (normally energised relay): selectable by dip switch

AUXILIARY SUPPLY

Rated value Uaux: 48 - 115V - 230V - 240V - 400V

Tolerance: 0,85...1,1Uaux - 40...60V (Uaux 48V)

Rated frequency: 50Hz

Tolerance: 47...63Hz

Rated burden: ≤ 2,5VA

Rated value Uaux: 20...150Vdc

Protected against incorrect polarity

Rated burden: ≤ 2,5W

Immunity to short interruption of supply voltage up to 150ms (Rated Uaux)

INSULATION

(EN / IEC 60947-1)

Installation category: III

Pollution degree: 2

Insulation reference voltage: 450V

Impulse voltage test 5kV 1,2/50μs 0,5J

Considered circuits: input, relay output, auxiliary supply

A.C. voltage test 2,5kV r.m.s. 50Hz/1 min

Considered circuits: input, relay output, auxiliary supply

A.C. voltage test 4kV r.m.s. 50Hz/1 min

Considered circuits: all circuits and earth

ELECTROMAGNETIC COMPATIBILITY

Emission tests according to IEC/EN 60947-2

Immunity tests according to IEC/EN 60947-2

ENVIRONMENTAL CONDITIONS

Nominal temperature range: -5...50°C

Limit temperature range: -10...55°C

Limit temperature range for storage: -40...70°C

Relative humidity (IEC60755): 50% (highest value at 40°C)

Suitable for tropical climates

Max. power dissipation¹: ≤ 2W

¹For switchboard thermal calculation

HOUSING

Housing: flush mounting (panel cutout 68x68mm)

Front frame: 72x72mm (75x75 mm with IP54 option)

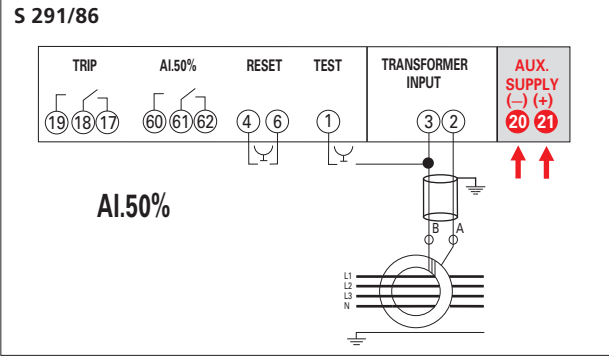
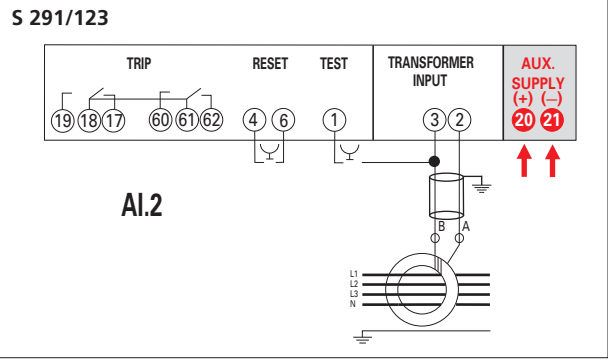
Depth: 75 mm

Connections: fast-ons 6,3x0,8mm

Housing material: self-extinguishing makrolon

Protection degree (EN/ IEC 60529): IP40 front frame, IP20 terminals

Weight: 250 grams



DIMENSIONS *DIMENSIONS*

