HF1028 REAR DESCRIPTION

Module terminal blocks
viewed from rear
(with integral case earth link)
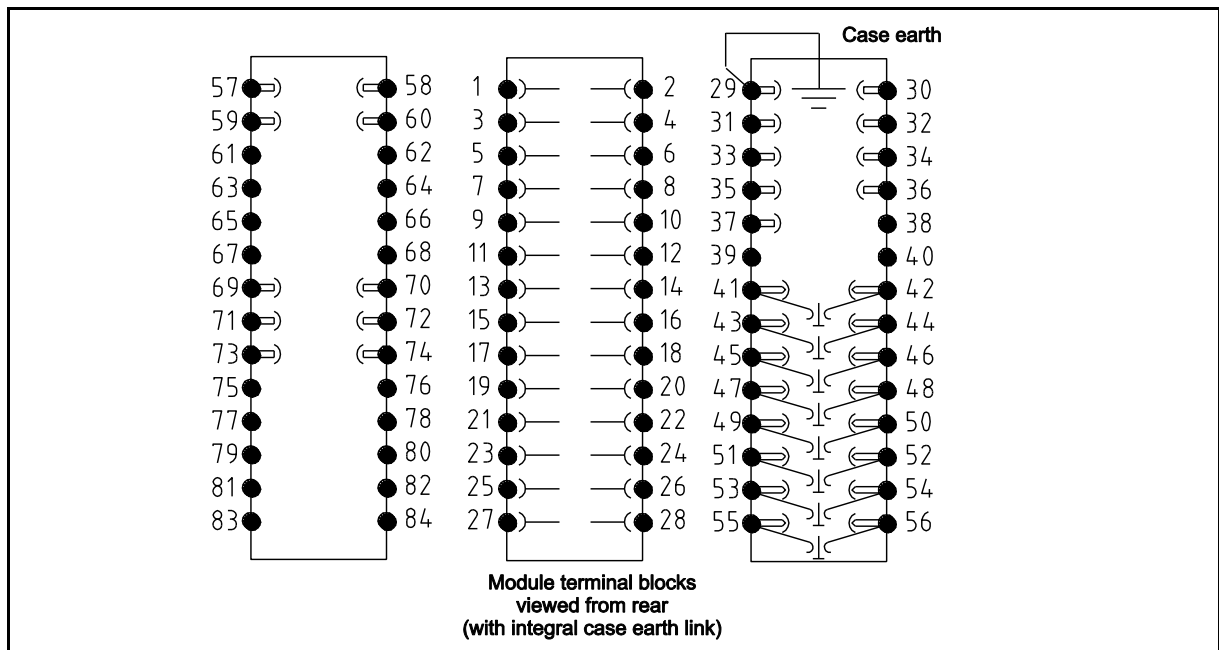
Input 7 +	57	58	Input 6 +	Output 5	1	2	Common output 1	Case earth connection	29	30	Terminal RS485
Input 7 −	59	60	Input 6 −	Common output 5	3	4	Output 1 (NC)	RS485 -	31	32	RS485+
	61	62		Output 6	5	6	Output1 (NO)	Vaux +	33	34	Vaux −
	63	64		Common output 6	7	8	Common output 2	Relay failed	35	36	Common "Watchdog"
	65	66		Common output 7	9	10	Output 2 (NC)	Relay healthy	37	38	
	67	68		Output 7	11	12	Output 2 (NO)		39	40	
Voltage input VA	69	70	Voltage input VA	Common output 8	13	14	Output 3	Current input IA (5A)	41	42	Current input IA (5A)
Voltage input VB	71	72	Voltage input VB	Output 8	15	16	Common output 3	Current input IB (5A)	43	44	Current input IB (5A)
Voltage input VC/Vr	73	74	Voltage input VC/Vr	Input 3 +	17	18	Output 4	Current input IC(5A)	45	46	Current input IC(5A)
	75	76		Input 3 −	19	20	Common output 4	Current input Ie (5A)	47	48	Current input Ie(5A)
	77	78		Input 4 +	21	22	Input 1 +	Current input IA (1A)	49	50	Current input IA (1A)
	79	80		Input 4 −	23	24	Input 1 −	Current input IB (1A)	51	52	Current input IB (1A)
	81	82		Input 5 +	25	26	Input 2 +	Current input IC(1A)	53	54	Current input IC(1A)
	83	84		Input 5 −	27	28	Input 2 −	Current input Ie (1A)	55	56	Current input Ie(1A)

HF1028 wiring diagram

Scheme represents relay off
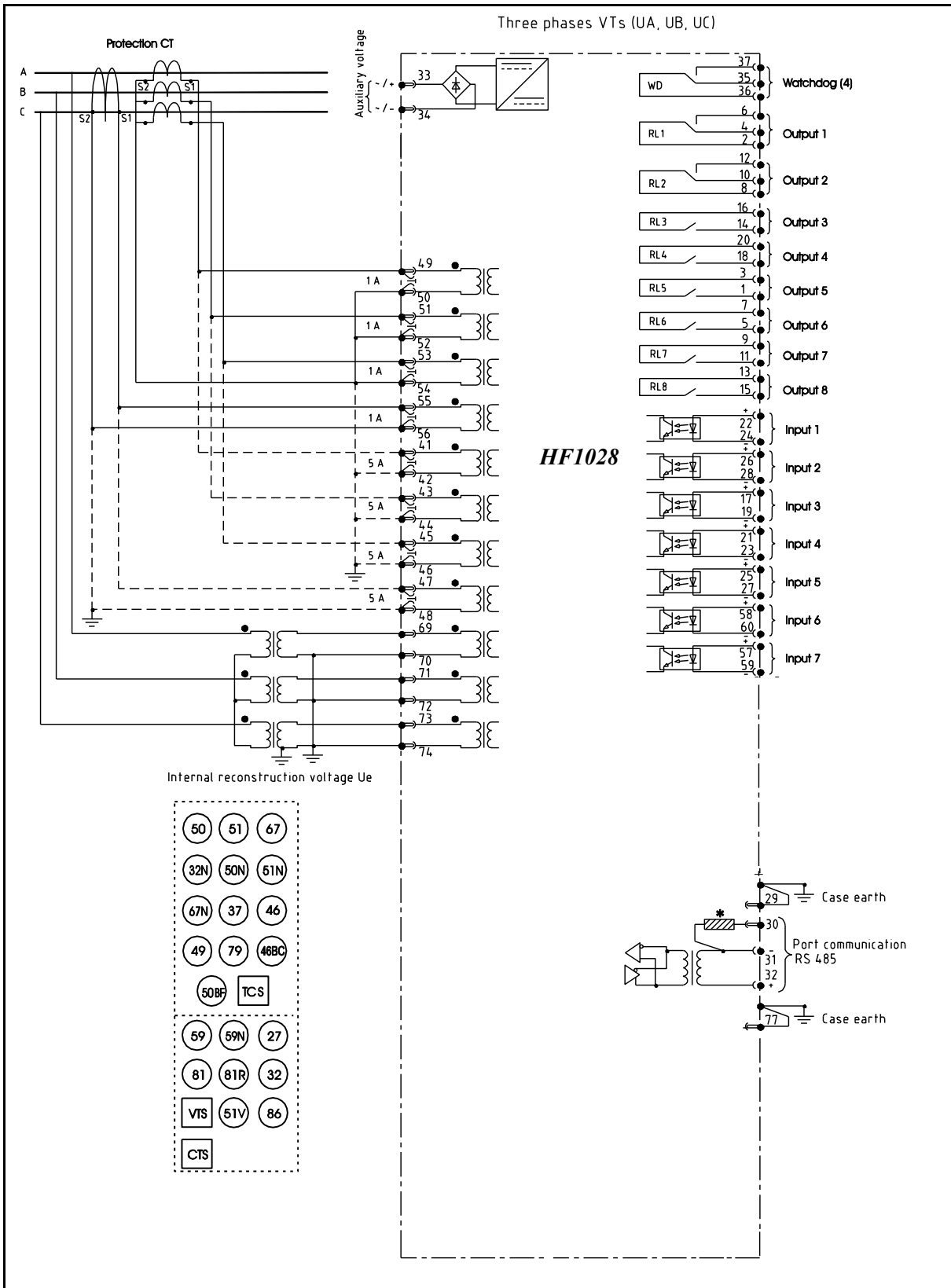
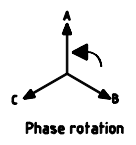## Two phases–neutral plus delta earth connection

A
B
C

Internal reconstruction voltage UC

69
70
71
72
73
74
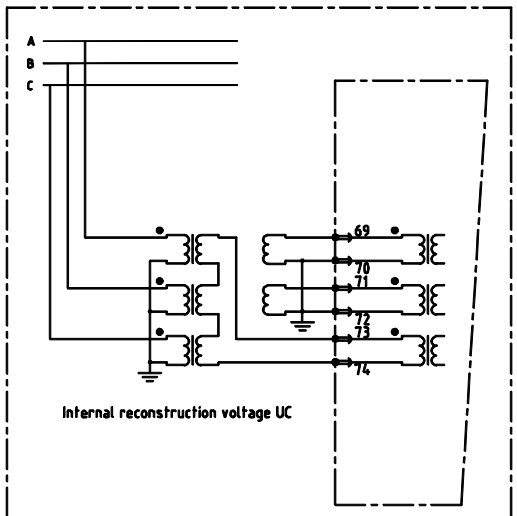
Two phase to phase plus delta earth connection

A
B
C

69
70
71
72
73
74

Internal reconstruction voltage UCA

57	58	1	2	29	30	Case earth
59	60	3	4	31	32	
61	62	5	6	33	34	
63	64	7	8	35	36	
65	66	9	10	37	38	
67	68	11	12	39	40	
69	70	13	14	41	42	
71	72	15	16	43	44	
73	74	17	18	45	46	
75	76	19	20	47	48	
77	78	21	22	49	50	
79	80	23	24	51	52	
81	82	25	26	53	54	
83	84	27	28	55	56	

**Module terminal blocks
viewed from rear
(with integral case earth link)**

A

C   B

Phase rotation
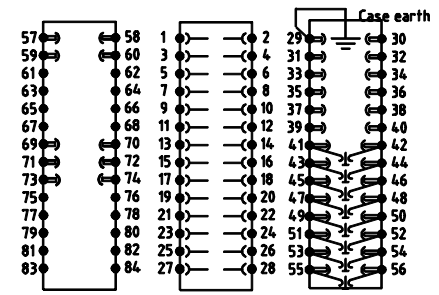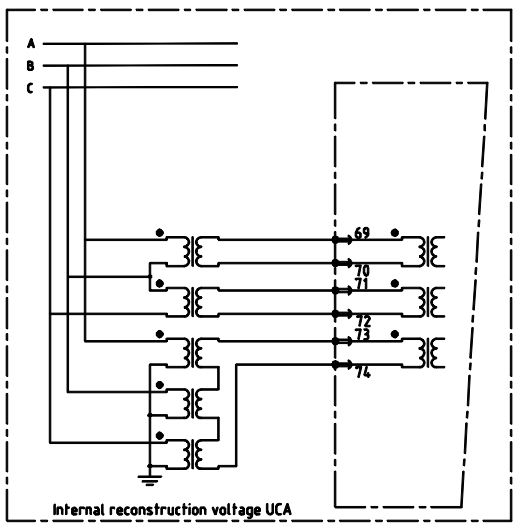
Nota :
(1) (a) ⊷⊶ CT shorting links make before (b) and (c) disconnect.

(b) ⊷ ˙Short terminals break before (c).

(c) ⊶ Long terminals

(d) ●⟩— Pins terminals (pcb type).

(2) CT connection are typical only.

(3) Earth terminals are typical only.

(4) The relayis shown with supply orr.

ADVICE FOR CONNECTION:
A tightening torque of 1.3 Newton.metres is
recommended for all screws fitted to
the MIDOS terminal blocs.
Functionning temperature limited to 55°C
For any connection use the provided kit or
use cable terminals UL LISTED.
Wiring : use copper conductors only
           size AWG22 to AWG10·

HF1028 CURRENT INSERTION SCHEMES

HF1028 Holmgreen CT's insertion

Three phases CTs (IA, IB, IC) + residual current
by Holmgreen insertion