



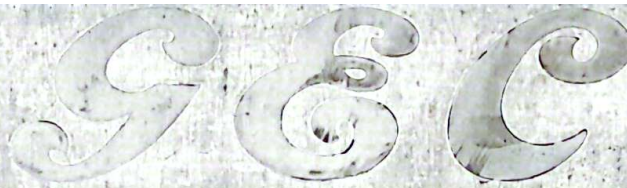
Type designation	GL 312 F1	Rated line-charging breaking current	50 A
Serial number	7396-10-2031006/1	Rated SF ₆ -gas pressure for interruption P _e	0.64 MPa
Rated voltage	145 kV	Rated supply voltage of closing and opening device	110 VDC
Rated lightning imp. withstand voltage	650 kV		
Rated switching imp. withstand voltage	- kV	Rated supply voltage of auxiliary circuits	110 VDC
Rated frequency	50 Hz	Rated supply voltage of motor	110 VDC
Rated normal current	3150 A	Contains fluorinated greenhouse gases covered by the Kyoto Protocol ¹⁾	
Rated duration of short-circuit	3 s		
Rated short circuit breaking current	40 kA	Mass of SF ₆ -gas ¹⁾	12.2 kg
First-pole-to-clear factor	1.5	Mass	1182.2 kg
Rated out-of-phase breaking current	10 kA	Rated operating sequence	O-0.3s-CO-3min-CO
Creepage distance	25mm/ kV	Year of manufacture	2008
		Temperature class	-30 ...+ 40°C
CONTRACT NO.: TNB 706/2007		SUBSTATION: PUCHONG PERDANA S/S	

EN S 2 004 802 D

Made in Germany

closed pressure system¹⁾





GEC POWER DISTRIBUTION (PTY) LTD SINGLE PHASE TRANSFORMER TO BRITISH STANDARD 171-1970

MANUFACTURER'S SERIAL No

CUSTOMER'S CONTRACT/ORDER No

YEAR OF MANUFACTURE

FREQUENCY

TYPE OF COOLING

VOLTM STRENGTH OF UNIT PRESS DIFF

SUITABLE FOR USE AT 1800 METRES ASL

06679

ORL 07620

1990

50 Hz

ONAN

100 kPa

CORE & WINDINGS

OIL MASS/VOLUME

TOTAL MASS

MAXIMUM TRANSPORT MASS

MASS EXCLUDING OIL

VECTOR SYMBOLS

ESCOM ASSET No

06679

1000/500

2000

1000

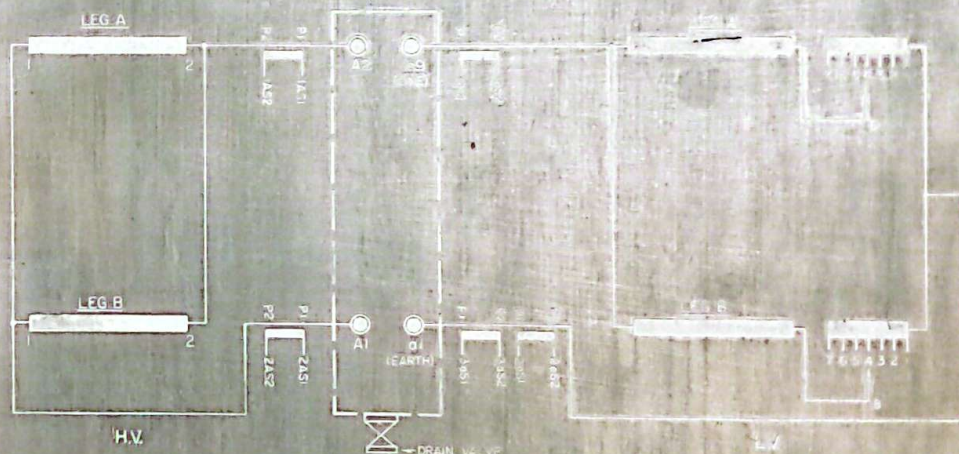
3275

SINGLE PHASE

THIS TRANSFORMER TO BE OIL FILLED UNDER FULL VACUUM

	HV	LV
TERMINALS	A1-A2	a1-a9
VOLTS	88000	25000
NOMINAL RATED POWER (MVA)		
ONAN	20	20

IMPEDANCE %	TAP POSITION	BASE MVA
HV-LV	11.1	11.0 20



TERMINALS	KV	TAPPING SWITCH		KV	MAX. RATED AMPS
		CONNECTIONS	POS		
a1-a9	250	8-1	1	25.00	800
		8-2	2	25.62	781
		8-3	3	26.25	762
		8-4	4	26.88	744
		8-5	5	27.51	727
		8-6	6	28.14	711
A1-A2	88.00	8-7	7	28.77	695

a1 MUST BE GAPPED TO THE FRAME

CURRENT TRANSFORMERS TO BS 3988-073									
C.T. TERMINALS	APPLICATION	OUTPUT	V _{sec} (V)	IS (A)	IS (A)	IS (A)	IS (A)	IS (A)	IS (A)
1aS1-1aS2	PROTECTION		3.0						
2aS1-2aS2	PROTECTION		4.0						
2aS1-2aS2	W.T.I.	15							

ABB Sécheron Ltd

Circuit Breaker Outdoor Single Phase

Type  **Control Box 1VSR724012E1359**

Rated voltage kV **27.5**

Rated frequency Hz **50**

Rated current A **1250**

Rated short-circuit current kA **25**

Rated making current kA **63**

Short-time withstand current kA **25 (3s)**

Lightn. imp. volt. 1.2/50 μ s kV **250**

Operating sequence **0-0.3-CO-60s-CO**

Control voltage **110 VDC**

Weight kg **25**

Serial Nr **108734 - 09/2011**

Wiring diagram 1VSR720059S0001

Geneva, Switzerland

ABB Sécheron Ltd

Circuit Breaker Outdoor Single Phase

Type **Control Box 1VSR724012E1359**

Rated voltage kV **25**

Rated frequency Hz **50**

Rated current A **1250**

Rated short-circuit current kA **25**

Rated making current kA **63**

Short-time withstand current kA **25 (3s)**

Lightn. imp. volt. 1.2/50 μ s kV **250**

Operating sequence **0-0.3s-C0-60s-C0**

Control voltage **110 VDC**

Weight kg **25**

Serial Nr **109089 / 4.2012**

Wiring diagram 1VSR720059S0002

Geneva, Switzerland

ABB Sécheron Ltd

Circuit Breaker Outdoor Single Phase

Type **Control Box 1VSR724012E1359**

Rated voltage kV **25**

Rated frequency Hz **50**

Rated current A **1250**

Rated short-circuit current kA **25**

Rated making current kA **63**

Short-time withstand current kA **25 (3s)**

Lightn. imp. volt. 1.2/50 μ s kV **250**

Operating sequence **0-0.3s-CO-60s-CO**

Control voltage **110 VDC**

Weight kg **25**

Serial Nr **109088 / 4.2012**

Wiring diagram 1VSR720059S0002

Geneva, Switzerland