

# TECHNICAL SPECIFICATIONS

RV  
93P22799

TOP LOAD / STAINLESS STEEL DRUM AND CARBORAN TUB  
DOOR POSITIONNING

## GENERAL FEATURES

Supply voltage ..... 230 V  
Dimensions (height, width, depth) ..... 85/40/60 cm  
Dryclothes loading capacity ..... 4,5 kg  
Drum rotation speed (washing/spinning) .. 55/1200 r.p.m

### **WATER LOAD CAPACITY (without clothes) :**

Heating Level I ..... 5 l  
Heating Level II ..... 6 l  
Anti-overflow level ..... 47 l

### **WATER PRESSURE :**

Max./Min. .... 80/5 N/cm<sup>2</sup>

### **CONSUMPTIONS (COTTON 60°) :**

Energy ..... 0,83 kWh  
Water ..... 45 l  
Time ..... 120 min

## TECHNICAL PARTICULARS

### **DRAIN PUMP :**

Maxi head ..... 100 cm  
Mini head ..... 70 cm  
Delivery rate ..... 25 l/min  
Power absorbed ..... 30 W  
Winding resistance ..... 150/200 Ω

### **HEATING ELEMENT :**

Power absorbed ..... 1950 W  
Resistance ..... 27 Ω

### **WATER VALVE :**

Delivery rate ..... 8 l/min  
Coil resistance ..... 4300 Ω

### **CYCLING PUMP :**

Delivery rate ..... 12 l/min  
Power absorbed ..... 18 W  
Winding resistance ..... 200 Ω

### **DOOR INTERLOCK :**

Type ..... voltmetric  
Internal door locking ..... 6 s  
Internal door release ..... 40-120 s

**TEMPERATURE PROBE (NTC) ..... 5 kΩ at 25°C**

### **PRESSURE SWITCH :**

Heating Level I ..... 60/30 mm  
Heating Level II ..... 65/35 mm  
Anti-overflow level ..... 390/240 mm

### **PRESSURE SWITCH ANALOGIC :**

Analogic Level ..... 000 mm - 25 Khz  
Analogic Level ..... 350 mm - 21.5 Khz

### **PROGRAMME SELECTOR :**

Identification mark ..... 129680400 - VF96D

### **WATER DISTRIBUTOR :**

Identification mark ..... 129631103

### **MODULE REGULATION SPEED :**

Type ..... 129745230  
Type (case) ..... 129679730  
Supply voltage ..... 230 V

### **USER INTERFACE :**

Identification mark ..... 129745100

### **DOOR POSITIONNING :**

Identification mark ..... 1294514702

### **COLLECTOR MOTOR :**

Pulley ratio ..... 12  
Insulation class ..... B/F  
Power absorbed : washing ..... 350 W  
Power absorbed : spinning ..... 850 W  
Washing speed ..... 660 r.p.m  
Spinning speed ..... 14400 r.p.m  
Rotor : coil resistance (8-9) ..... 1,6 Ω  
Stator : coil resistance (5-10) ..... 1,2 Ω

### **TACHOGENERATOR :**

Coil resistance (3-4) ..... 171 Ω

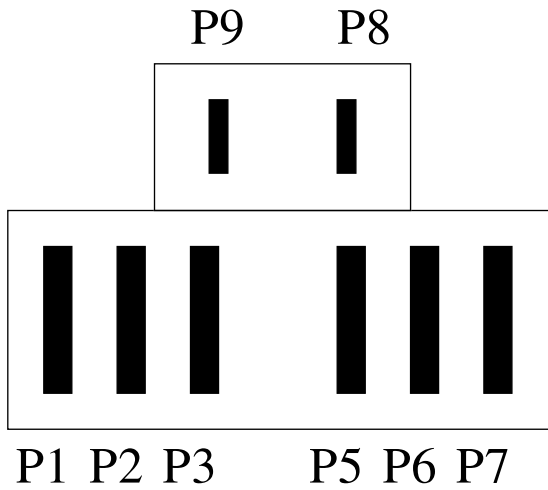
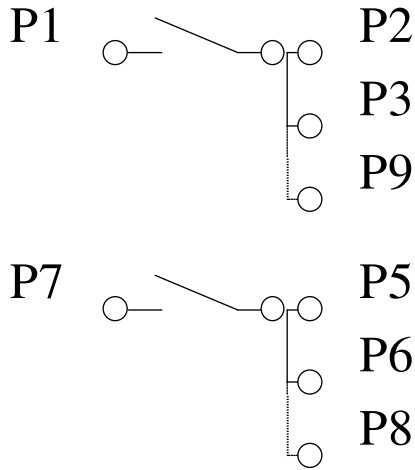
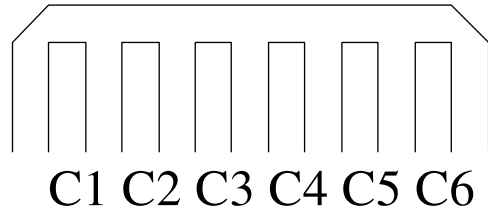
### **CONNECTION :**

Water supply connection ..... 1,5 m long  
Water discharge connection height ..... mini 70 / maxi 100 cm  
Total power ..... 2300 W

# PROGRAMM SELECTOR

C6 commun					
1	●	●		●	●
2		●			
3			●		
4	●		●		
5		●	●		
6	●	●	●		
7				●	
8	●			●	
9		●		●	
10	●	●		●	
11			●	●	
12	●		●	●	
13		●	●	●	
14	●	●	●	●	
15					●
16	●				●
17		●			●
18	●	●			●
19			●		●
20	●		●		●
21		●	●		●
22	●	●	●		●
23				●	●
24	●				
	C5	C4	C3	C2	C1

Reset







# CYCLE

VF96D 02/11/98

DELICATS	PREWASH SOAKING		WASH		RINSES			WOOL WASH			RINSES		
	P	T	P	T	I	II	PLUS	I	II	III	I	II	III
Boxes													
Max. time	P 4	T 1H	V 1		P 3	T 14	V 1	P 3	V 3	P 3	V 3	P 3	V 5
Normal		1H	18H	1		1H	10'	1	1			2	2
Option pushbutton													
PRE-WASH SOAKING													
SHORT STAIN						4'							
RINSE HOLD							10'						18H
EXTRA RINSE													
Heating				37°									
Circulation pump							40'						
Motor trumbling													
Analogue pressure switch													
Empty													

3 PWL3 3 on/12 off

2 PWL2 3 on/28 off

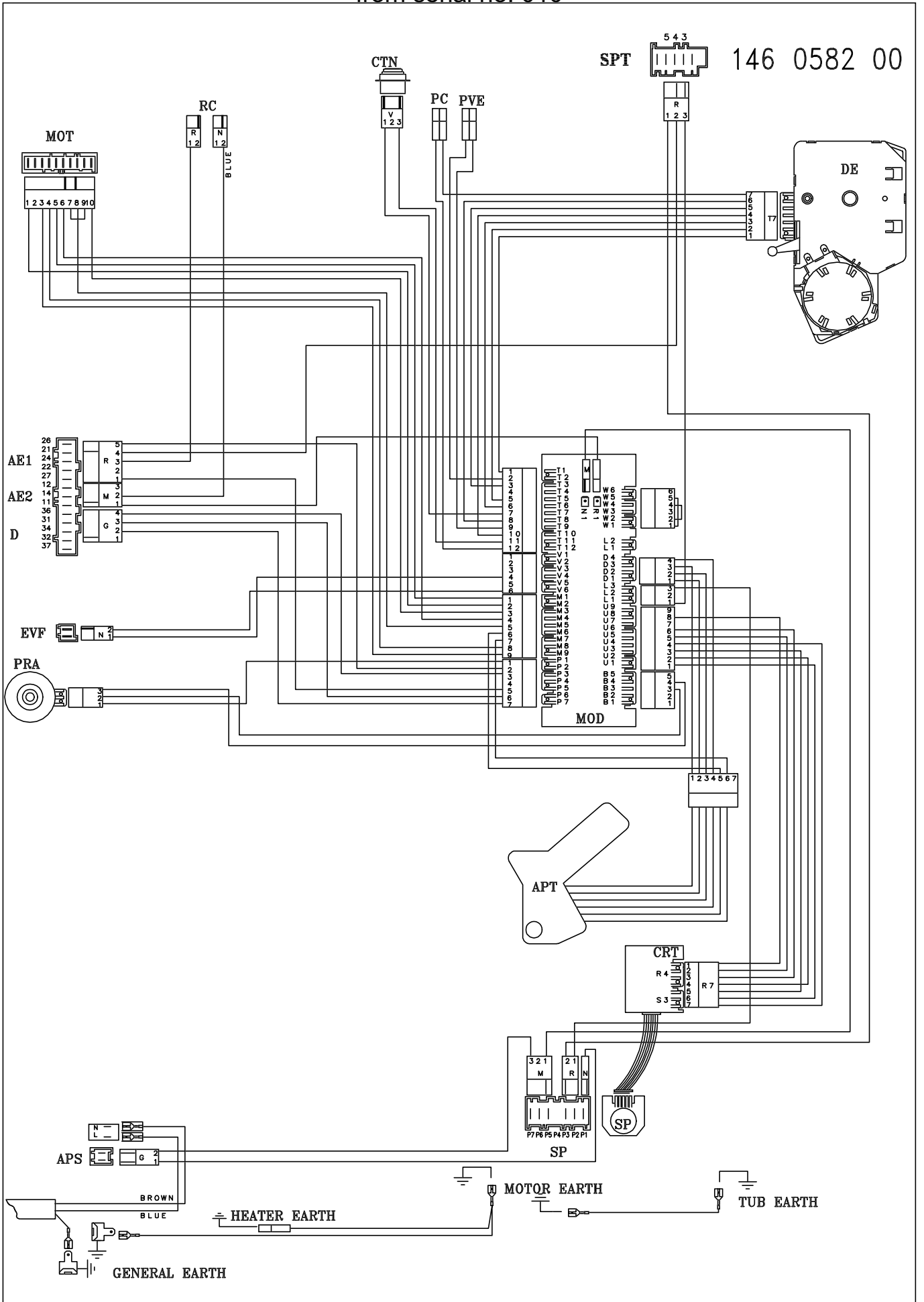
1 PWL1 3 on/35 off

4 on/12 off

6 on/114 off

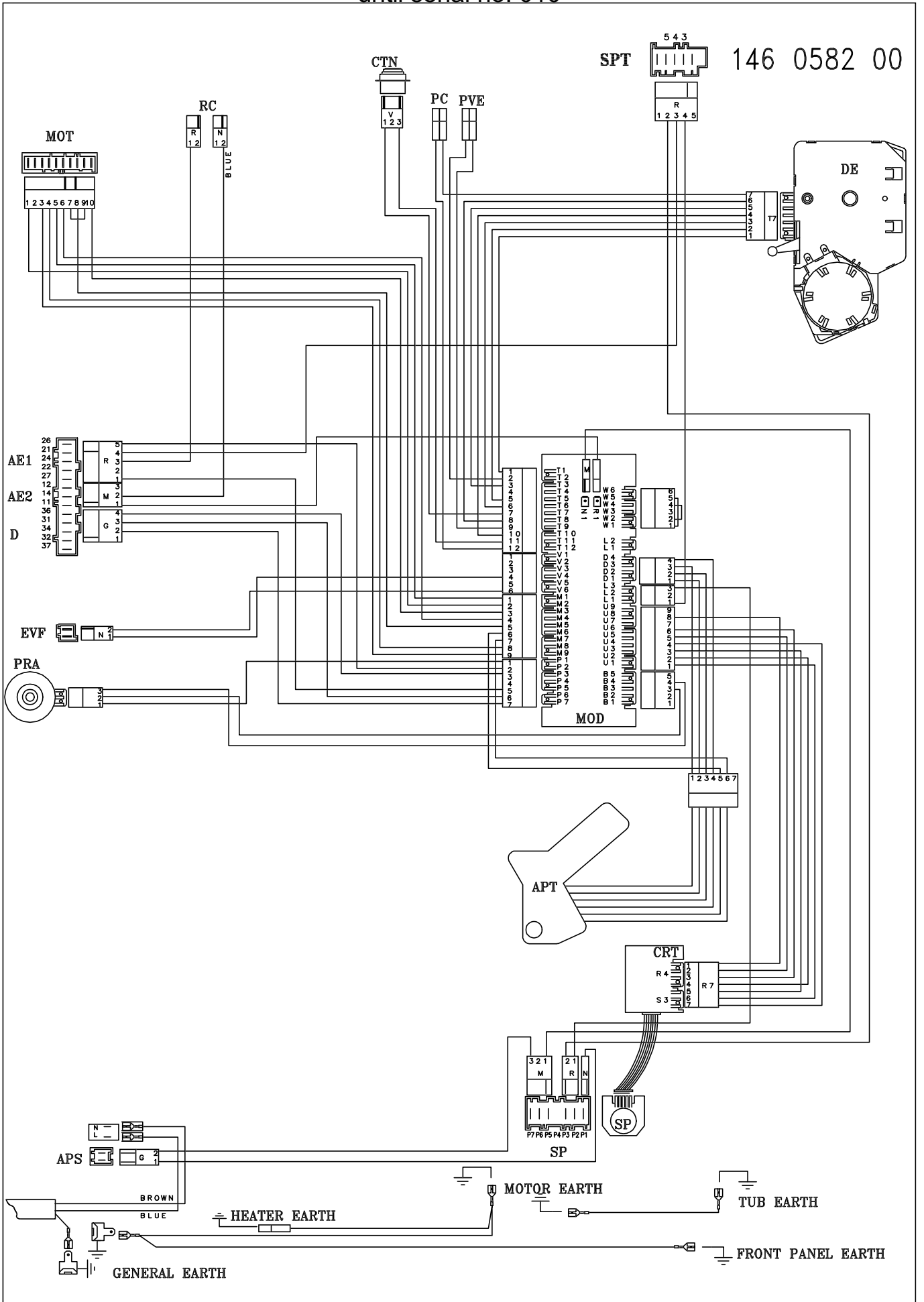


# WIRING DIAGRAM from serial no. 010



# WIRING DIAGRAM until serial no. 010

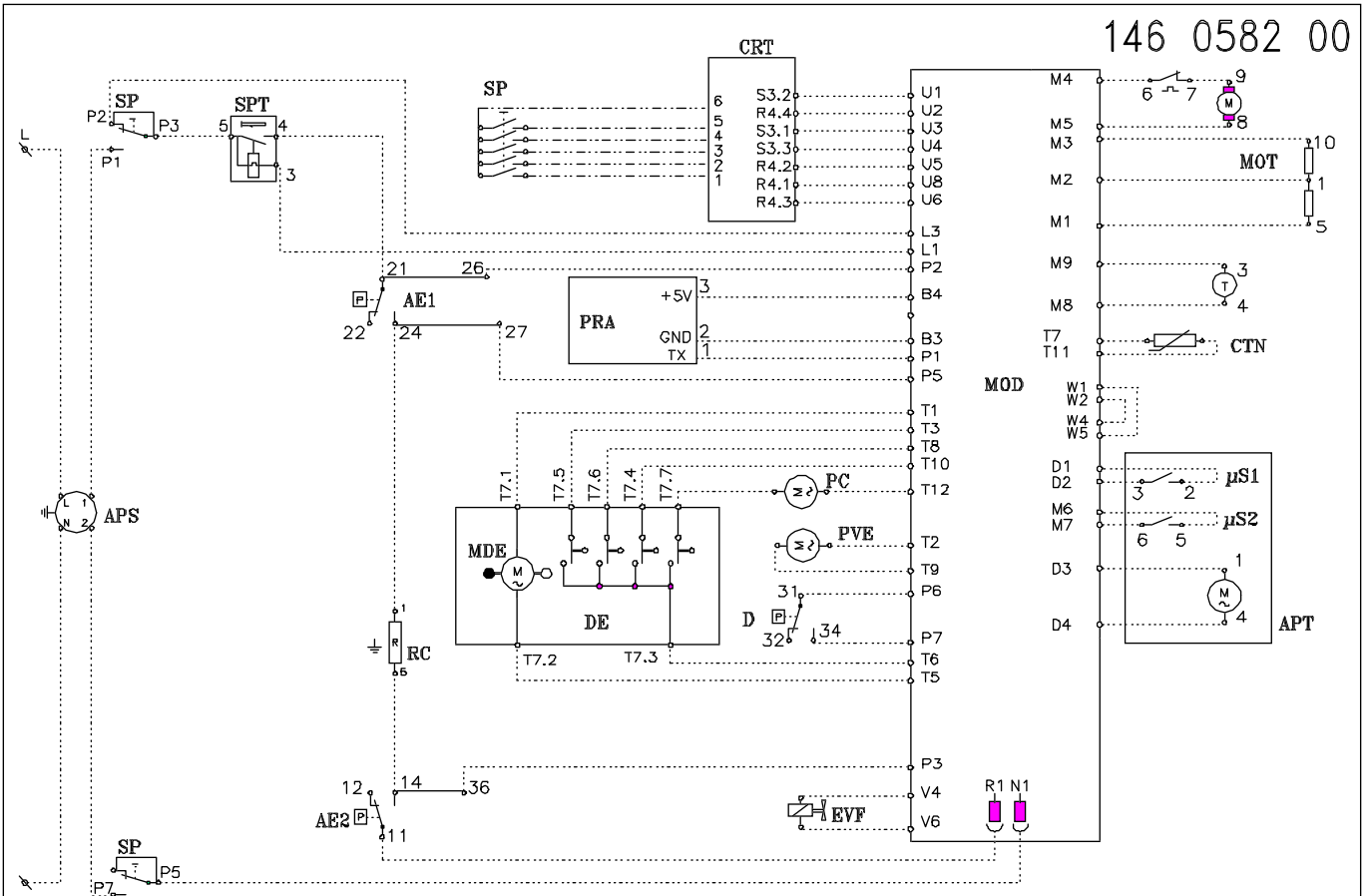
146 0582 00





# ELEMENTARY DIAGRAM

146 0582 00



Composants	Componenti	Components	Komponente
<b>FRA</b> Pressostats Analogique	Pressostati Analogico	Pressure switches Analogic	Niveauschalter Analog Niveauschalter
<b>D</b> Niveau de débordement	Livello di straripamento	Overflow safety level	Überlauf Sicherung
<b>AE1</b> Niveau de sécurité 1	Pressostato(riscaldamento) 1	Level switch-heating 1	Niveauschalter(Heizung) 1
<b>AE2</b> Niveau de sécurité 2	Pressostato(riscaldamento) 2	Level switch-heating 2	Niveauschalter(Heizung) 2
<b>APS</b> Elément antiparasite	Gruppo antidisturbo	Anti-interference filter	Funkstörfilter
<b>APT</b> Arrêt de porte	Blocco cesto	Stop door	Trommelposition
<b>CTN</b> Sonde température	Sonda di temperatura	Temperature probe	Temperaturfühler
<b>CRT</b> Carte interface	Scheda interfaccia	Interface board	Interface Schaltkarte
<b>DE</b> Distributeur d'eau	Distributore acqua	Water distributor	Wasserverteiler
<b>EVF</b> Electrovanne eau froide	Elettrovalvola acqua fredda	Cold water inlet valve	Kaltwasser-Magnetventil
<b>MDE</b> Moteur distributeur d'eau	Motorino del distributore acqua	Water distributor motor	Wasserverteiler Motor
<b>MOD</b> Carte électronique	Scheda elettronico	Electronic control unit	Elektro. Kontrolle
<b>MOT</b> Moteur	Motore	Motor	Motor
<b>PC</b> Pompe de cyclage	Pompa ricircolo	Cycling pump	Wasserkreislaufpumpe
<b>PVE</b> Pompe de vidange	Pompa scarico	Drain pump	Ablaufpumpe
<b>RC</b> Résistance	Resistenza	Heating element	Heizung
<b>SP</b> Sélecteur programmeur	Selettore programmatore	Programmatior selector	Programmwähler
<b>SPT</b> Dispositif de sécurité	Dispositivo di sicurezza porta	Door safety interlock	Türsicherheits-Vorrichtung
<b>B/L/M/G</b> Bleu/Violet/Marron/Gris	Blu/Viola/Marrone/Grigio	Blue/Violet/Brown/Grey	Blau/Violett/Braun/Grau
<b>N/R/V</b> Noir/Rouge/Vert	Nero/Rosso/Verde	Black/Red/Green	Schwarz/Rot/Grün

## Electrical test

Function:

### First step

- adjust program selector to »SYNTHETICS 50 °C«
  - press button »SPINING« and keep it pressed
  - turn program selector to »ENERGY SAVING" and immediately back to »SYNTHETICS 50 °C« (within 2 seconds)
  - display lights up "ELE" and blinks. All LEDs light up as a moving light
  - A servicing program with a duration of ca. 3 minutes proceeds
    - o drum positioning equipment opens
    - o filling through pre-wash chamber
    - o drum reversing and heating (max.50°)
    - o The appliance is ready, after 5 functions electrical test
- You can interrupt the electrical test, if you turn the progr.selector to off

## Service program

Function:

### First step

- adjust program selector to »SYNTHETICS 50 °C«
- press button »SHORT« and keep it pressed
- turn program selector to »ENERGY SAVING" and immediately back to »SYNTHETICS 50 °C« (within 2 seconds)
- display lights up completely and blinks. All LEDs light up as a moving light
- A servicing program with a duration of ca. 3 minutes proceeds
  - o drum positioning equipment opens
  - o 1 x reversing to the right
  - o drain pump on
  - o filling through pre-wash chamber
  - o drum turn right to 55 1/min, left to 100 1/min
  - o stays at the end in »PAUSE-POSITION«
  - o Display off, all LEDs light up as a moving light
  
- turn program selector to »SYNTHETICS 40 °C« and back again to »SYNTHETICS 50 °C«
  - o 4 seconds filling by pre-wash chamber
  - o 4 seconds filling by main-wash chamber
  - o 4 seconds filling by bleach chamber (not with devices without a bleach chamber)
  - o 4 seconds filling by soft rinser chamber
  - o pumping out with heating
  - o spinning up to maximum speed
  - o drum positioning (if existing)

At the end all indications are erased.

## Service program

- Turn program selector to »SYNTHETICS 60 °C« and back again to »SYNTHETICS 50 °C«.
- Any push button can be controlled by pressing.
- o LED of push button lights
  - o A number appears in the display for any push button

Buttons	Display
Start/Pause	1
Extra Rinsing	2
Rinse hold	3
Spots	4
Bio-Optimal	5
Short	6
Soaking	7
Pre-wash	8
Start time pre selection	9
Spinning	11 + all LED's

- The function can be controlled by turning the program selector. A number appears in the display for any push button. This number is indicated as a binary code by the program LEDs.

Programs	Display	Programs	Display	Programs	Display			
Hot / Coloured	90 °C	1	Synthetics	60 °C	8	Wool	40 °C	16
Hot / Coloured	Energie	2	Synthetics	50 °C	9	Wool	30 °C	17
Hot / Coloured	60 °C	3	Synthetics	40 °C	10	Wool	0 °C	18
Hot / Coloured	50 °C	4	Synthetics	30 °C	11	Soft rinsing	40 °C	19
Hot / Coloured	40 °C	5	Synthetics	0 °C	12	Starching		20
Hot / Coloured	30 °C	6	Delicate	40 °C	13	Draining		21
Hot / Coloured	0 °C	7	Delicate	30 °C	14	Spinning		22
			Delicate	0 °C	15	Gentle spinning		23

## Fault codes are stored in memory

Function:

### First step

- adjust program selector to »SYNTHETICS 50 °C«
- press button »STAIN« and keep it pressed
- turn program selector to »ENERGY SAVING" and immediately back to »SYNTHETICS 50 °C« (within 2 seconds)
- Multiply indicated number on display by factor 10 = number of total washing cycles  
e.g. "251" washing cycles = display "25"
- By pressing any push-button, the last fault code is alternately indicated with phase and sub-phase  
e.g. display: E00 => fault code  
                  23   => 2 = phase  
                          => 3 = sub-phase
- By repeated pressing of the same push-button, all previous fault codes are indicated successively

## Fault codes

Fault	Codes
No fault	A00
wash / filling	E00
wash / drain	E10
door open	E20
door lock	E21
Niveausensor	E30
Niveausensor calibration	E32
anti boil 1	E33
anti boil 2	E34
motor	E40
tacho generator	E42
drum position system	E45
heater	E55
distributor	E70
commun relay (distributor)	E71

## Phase and sub-phase

Phase Subphase	Phase	Subphase
0	setup / delay	-
1	prewash / soaking	fill
2	wash	reverse
3	rinse 1	heating
4	rinse 2	drain
5	rinse 3	spin
6	rinse 4	dry
7	softener	internal text
8	spin	
9	(dry)	
A	(cooling)	
B	(antcrease)	
C	internal test	
D	end of cycle	

## Fault codes are deleted

Function:

### First step

- adjust program selector to »SYNTHETICS 50 °C«
- press button »BIO« and keep it pressed
- turn program selector to »ENERGY SAVING" and immediately back to »SYNTHETICS 50 °C« (within 2 seconds)
- display lights up "EE" Fault codes are deleted
- display lights up "End" deleted ready

## Fault Display

Display	Fault Report	Possible Fault Locations	How is that tested?
E 01	no water inlet	inlet valve faulty inlet sieve blocked water tap not open power supply inlet valve faulty	the electronic system does not yet recognize a level in the tub after 10 minutes
E 02	device lid not locked	device lid not locked correctly door lock faulty power supply door lock faulty	input P7.2 the electronic system does not receive any voltage after 10 minutes (control P7.2 - N1 = 230V)
E 03	no drain	fluff filter, drain hose, siphon blocked, drain pump faulty power supply, drain pump faulty	the electronic system still recognizes a level in the tub after 10 minutes
E 04	program selector was misplaced after start of program		program will continue regularly