EU Type Examination Certificate Number: **0120/SGS0400**

Caravan Park Electrical Services Ltd

Vale Industrial Estate
Spilsby
Lincolnshire
PE23 5HE
United Kingdom

Instrument Identification:
033006-RFID

Single Phase, Active, Import/ Export (kWh), Pre-payment, Electricity Meter

Instrument Traceable Number
0120/SGS0400

has been assessed and certified as meeting the requirements of

EU Directive 2014/32/EU

on Measuring Instruments Annex II, Module B

It is certified that the manufacturer's technical design and specimen for the above instrument has been examined and, based on the evidence submitted, it is considered that the instrument conforms to the requirements of Annex V of EU Directive 2014/32/EU

This certificate must be used in conjunction with a certificate covering the product verification as required in Annex II, Module D or Annex II, Module F

This certificate is valid until 19th November 2028
Issue 1

Certification is based on report number(s) EMA255473/1 dated 20th November 2018
EMA255473/1/TR50579 dated 14th August 2018
EMA262256

Authorised Signature

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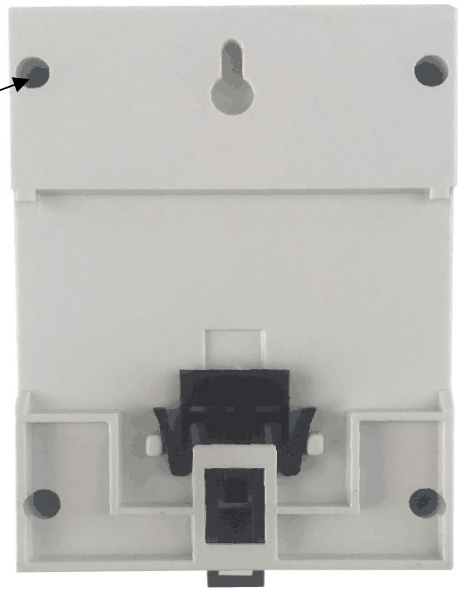
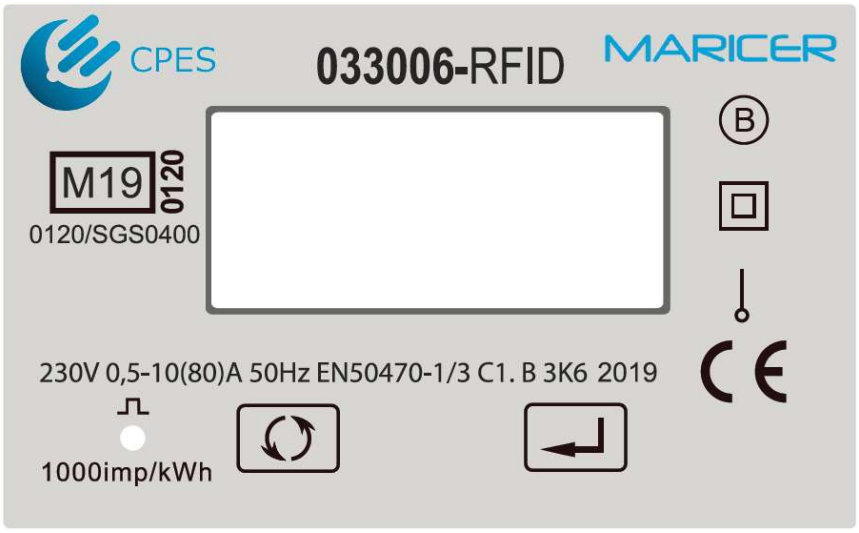
1. Technical Data

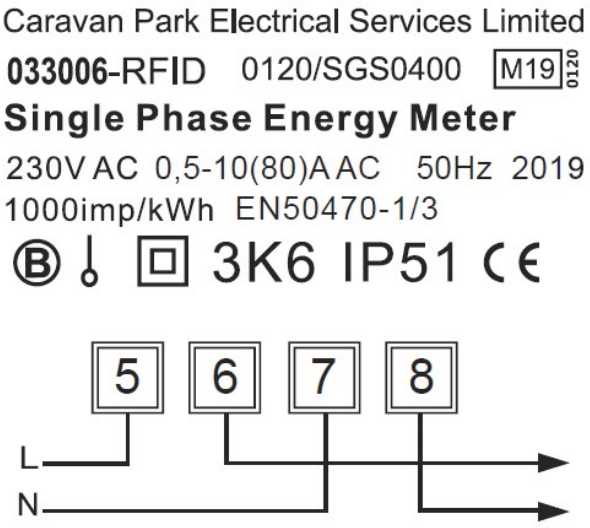
Manufacturer	Caravan Park Electrical Services Ltd
Meter Type	033006-RFID
Voltage Rating *(Un)*	230V
Current Rating *(Imin – Iref (Imax))*	0,5-10(80)A
Frequency *(Fn)*	50Hz
Active Accuracy Class *(kWh)*	A or B (kWh)
Type of circuit	1p2w
Temperature Range	-25°C to +55°C
Software/ Firmware Version No's **CRC Checksum No's** **Identification Location**	V1.1 0x0000C70D LCD & Nameplate
Bill Of Materials No's	DH-JS-180004-1.0
IP Rating	IP51 Must be installed in a suitable IP rated enclosure
Insulation Protective Class	Class II
LED Pulse Constant	1000imp/kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	4 x screws. 1 sealed with plastic plug
Integrity of meter	Inaccessible without breaking seals
Intended Location of the Meter	Indoor
Type of Register	LCD
Terminal Arrangement(s)	DIN
Location of Manufacturers Address	Associated documents

2. Photograph of Meter and Sealing Plan



3. Example of Nameplate





4. Calculation of the composite error/ MPE

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below represents the sum of the square values per load, determined via the following formula:-

$$\delta e\ (T, U, f) = \sqrt{(\delta e^2\ (T, I, \cos\varphi)\ ,\ \delta e^2\ (U, I, \cos\varphi)\ ,\ \delta e^2\ (f, I, \cos\varphi))}$$

where

$\delta e(T, I, \cos\varphi)$ = Additional error due to variation of the temperature at the same load
$\delta e(U, I, \cos\varphi)$ = Additional error due to variation of the voltage at the same load
$\delta e(f, I, \cos\varphi)$ = Additional error due to variation of the frequency at the same load

Current	PF Cos	-25°C	-10°C	5°C	30°C	40°C	55°C
Imin	1.0	0.74	0.49	0.32	0.19	0.22	0.32
Itr	1.0	0.74	0.49	0.29	0.09	0.15	0.25
10Itr	1.0	0.76	0.51	0.32	0.03	0.07	0.19
Imax	1.0	0.48	0.33	0.23	0.09	0.10	0.15
Itr	0.5ind	0.82	0.59	0.38	0.18	0.21	0.28
10Itr	0.5ind	0.79	0.53	0.33	0.04	0.11	0.22
Imax	0.5ind	0.59	0.44	0.31	0.10	0.07	0.10
Itr	0.8cap	0.71	0.48	0.30	0.11	0.14	0.22
10Itr	0.8cap	0.68	0.44	0.28	0.06	0.12	0.22
Imax	0.8cap	0.46	0.32	0.23	0.07	0.06	0.10

5. Annex of Variants

Product Variant Identification Details:

Type Designation	Description of meter
033006-RFID	230V, 0.5A-10(80)A, RS485 Modbus communication

Modifications to the meter(s) described according to approval No.**0120/SGS0400** must be notified to the issuing body to confirm the meter(s) continuing compliance to the relevant pattern approval standard(s).

6. Document Revision History

Issue	Date	Comments
1	03/01/2019	Initial Issue

END OF CERTIFICATE