

Capacity Control; Current Release Control - Toshiba RAS-13SKV-E Service Manual

Indoor/outdoor unit, split type air conditioner

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68

69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118

119

120



•

[Table of Contents](#)

-

Troubleshooting

•

Bookmarks



Item

4. Capacity

The cooling or heating capacity depending on the load is

control

adjusted.

According to difference between the setup value of temperature and the room temperature, the capacity is adjusted by the compressor revolution.

Remote controller

Set temp. (Ts)

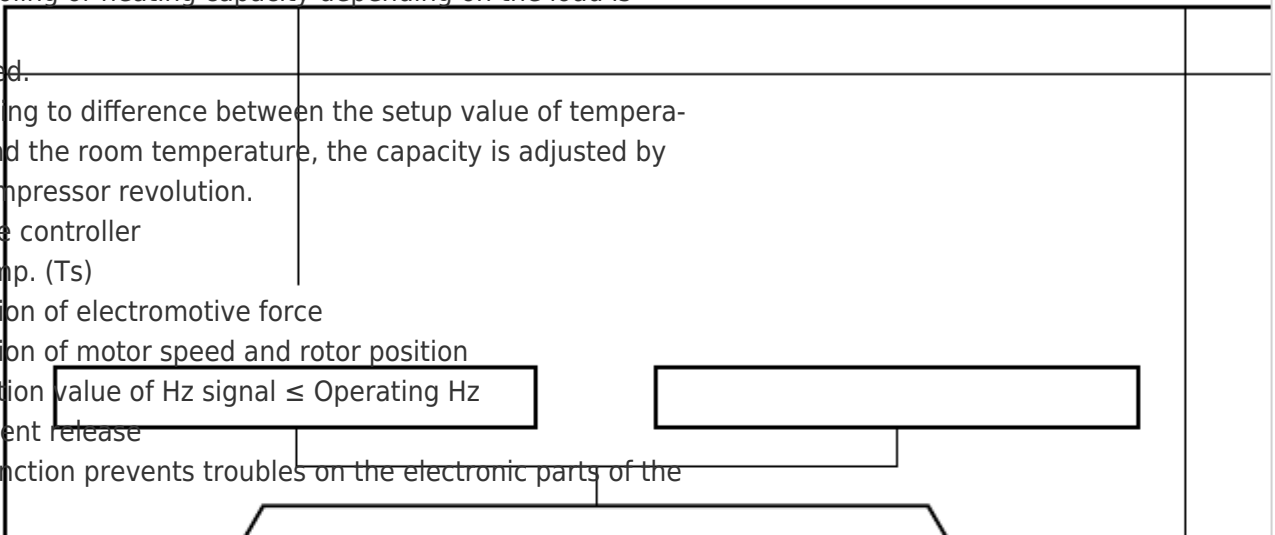
Detection of electromotive force

Detection of motor speed and rotor position

Correction value of Hz signal \leq Operating Hz

5. Current release

This function prevents troubles on the electronic parts of the control



compressor driving inverter.
 This function also controls drive circuit of the compressor speed so that electric power of the compressor drive circuit does not exceed the specified value.

Outdoor unit inverter main circuit control current
 Operating current \leq
 Setup value
 Low
 Capacity control continues.

Outdoor temp.

45°C

40°C

44°C

16°C

39°C

11°C

15.5°C

10.5°C

Operation flow and applicable data, etc.

Ts -Ta

Correction of Hz signal of compressor motor winding

Inverter output change

Commutation timing change

Change of compressor speed

Setup of current release point

High

Reduce compressor speed

Cooling current release value

10SAVR-E 13SAV-E 13SAVR-E 16SAV-E 10SAVR-E 13SAV-E 13SAVR-E 16SAV-E

3.97A

4.27A

4.35A

4.88A

6.30A

6.30A

Indoor unit

Room temp. (Ta)

Outdoor temp. To

Current decrease

16SAVR-E

4.27A

6.45A

6.30A

4.88A

6.75A

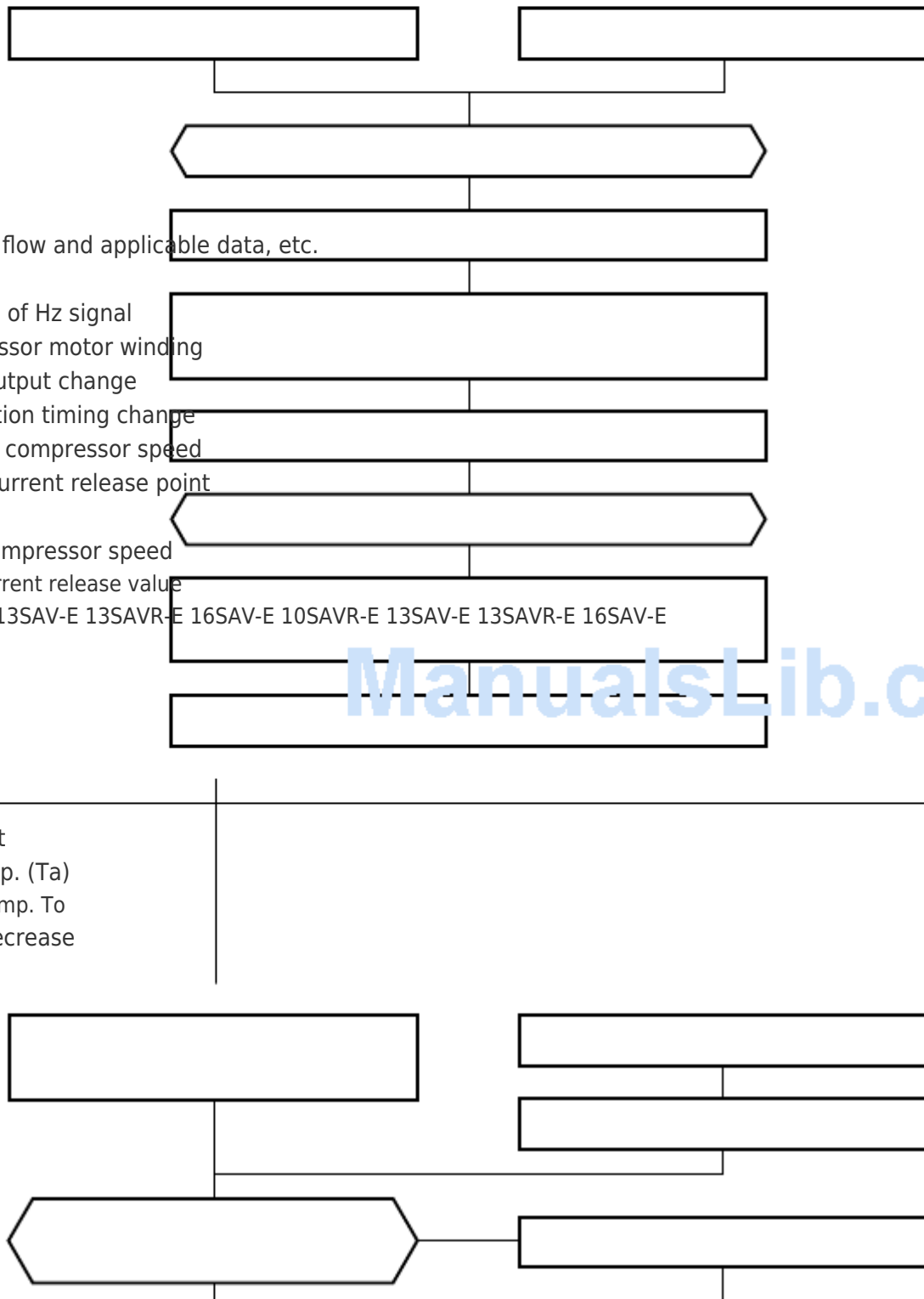
8.47A

8.47A

6.30A

6.30A

- 37 -



9.22A

6.30A

10.80A

7.72A

9.22A

10.80A

[Table of Contents](#)

[Previous Page](#)

[Next Page](#)

1
...
34
35
36
37
38
39
40
41

Quick Links:

[Service Manual](#)

[Specifications](#)

[How to Diagnose the Trouble](#)

Chapters

[Service Manual 2](#)

[Auto Restart Function/Remote Controller and Its Functions 31](#)

Related Manuals for Toshiba RAS-13SKV-E

[Air Conditioner Toshiba RAS-13SKV-E Service Manual](#)

Split type indoor/outdoor unit (121 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Service Manual](#)

Split type air conditioner (119 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Owner's Manual](#)

Split type air conditioner (91 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Installation Manual](#)

(19 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Installation Manual](#)

(148 pages)

[Air Conditioner Toshiba RAS-B10SKVP-E Service Manual](#)

(120 pages)

[Air Conditioner Toshiba RAS-16SKVP-ND Owner's Manual](#)

(230 pages)

[Air Conditioner Toshiba RAS-10 SKV Series Owner's Manual](#)

(8 pages)

[Air Conditioner Toshiba RAS-10 SKV Series Owner's Manual](#)

Air conditioner (split type) (4 pages)

[Air Conditioner Toshiba RAS-13SKHP-E Service Manual](#)

Split wall type air conditioner (70 pages)

[Air Conditioner Toshiba RAS-10SKH-ES Service Manual](#)

Split wall type (68 pages)

[Air Conditioner Toshiba RAS-B10 Series Installation Manual](#)

(68 pages)

[Air Conditioner Toshiba RAS-10S3KV-E Owner's Manual](#)

(7 pages)

[Air Conditioner Toshiba RAS-13S3KV-E Service Manual](#)

(108 pages)

[Air Conditioner Toshiba RAS-24S3KHS-EE Owner's Manual](#)

(8 pages)

[Air Conditioner Toshiba RAS-10SKP Series Owner's Manual](#)

(8 pages)

Related Content for Toshiba RAS-13SKV-E

[RAS-25S4KVDG-ND Capacity Control](#)

Toshiba RAS-25S4KVDG-ND

[RAS-B22PKVSG-TR Capacity Control](#)

Toshiba RAS-B22PKVSG-TR

[RAS-25S4KVPG-ND Capacity Control](#)

Toshiba RAS-25S4KVPG-ND

[RAS-10S3AV-E Capacity Control](#)

Toshiba RAS-10S3AV-E

[RAS-M05G3KVSG-E Capacity Control](#)

Toshiba RAS-M05G3KVSG-E

[RAS-18S3KV-E Capacity Control](#)

Toshiba RAS-18S3KV-E

[RAS-M07G3DV-E Capacity Control](#)

Toshiba RAS-M07G3DV-E

[RAS-M07N4KVRG-E Capacity Control](#)

Toshiba RAS-M07N4KVRG-E

This manual is also suitable for:

[Ras-13sav-eRas-16skv-eRas-10savr-eRas-13skvr-eRas-13savr-eRas-16sav-e](#) ... [Show all](#)