Dimensional Drawings
ACS800-07 Drives (45 to 560 kW)
ACS800-U7 Drives (50 to 600 HP)
ACS800 Single Drive Manuals

HARDWARE MANUALS (appropriate manual is included in the delivery)

ACS800-01/U1 Hardware Manual 0.55 to 110 kW (0.75 to 150 HP)
3AFE 64382101 (English)
ACS800-01/U1 Marine Supplement 3AFE 64291275 (English)
ACS800-02/U2 Hardware Manual 90 to 500 kW (125 to 600 HP)
3AFE 64567373 (English)
ACS800-04/04M/U4 Hardware Manual 90 to 500 kW (125 to 600 HP) 3AFE 64671006 (English)
ACS800-07/U7 Hardware Manual 45 to 560 kW (50 to 600 HP)
3AFE 64702165 (English)
ACS800-07/U7 Dimensional Drawings 45 to 560 kW (50 to 600 HP) 3AFE 64775421
ACS800-07 Hardware Manual 500 to 2800 kW
3AFE 64731165 (English)
ACS800-17 Hardware Manual 75 to 1120 kW
3AFE 64681338 (English)

- Safety instructions
- Electrical installation planning
- Mechanical and electrical installation
- Motor control and I/O board (RMIO)
- Maintenance
- Technical data
- Dimensional drawings
- Resistor braking

FIRMWARE MANUALS, SUPPLEMENTS AND GUIDES
(appropriate documents are included in the delivery)

Standard Application Program Firmware Manual
3AFE 64527592 (English)
System Application Program Firmware Manual
3AFE 63700177 (English)
Application Program Template Firmware Manual
3AFE 64616340 (English)
Master/Follower 3AFE 64590430 (English)
PFC Application Program Firmware Manual
3AFE 64649337 (English)
Extruder Control Program Supplement 3AFE 64648543 (English)
Centrifuge Control Program Supplement
3AFE 64667246 (English)
Traverse Control Program Supplement 3AFE 64618334 (English)
Crane Control Program Firmware Manual 3BSE 11179 (English)
Adaptive Programming Application Guide
3AFE 64527274 (English)

OPTION MANUALS (delivered with optional equipment)

Fieldbus Adapters, I/O Extension Modules etc.
## Table of contents

ACS800 Single Drive Manuals

**Table of contents**

**Dimensional drawings**

**Frame size R6**
- Types ACS800-07-0070/0100/0120/130-3, -0100/0120/0140/150-5, -0070/0100/0120-7 ... 6
- Units with brake resistors (+D151) ......................................................... 7
- Cable connection terminals (R6) ................................................................. 8

**Frame sizes R7 and R8**
- IP21, IP22 and IP42 units with bottom entry/exit and IP21 units with top entry/exit .... 10
- IP22 and IP42 units with top entry and bottom exit, bottom entry and top exit or top entry and exit ................................................................. 11
- IP54 and IP54R units ................................................................................. 12

**Frame size R7**
- Units with EMC filter (+E202, IP21, IP22, IP42) ........................................... 14
- Units with EMC filter (+E202, IP54) ............................................................ 15
- Units with brake resistors (+D151) ............................................................... 16
- Cable connection terminals (R7) ................................................................. 17
- Cable connection terminals of R7 units with du/dt filter (+E205) ................. 18
- Cable connection terminals of R7 units with brake resistors (+D151) .......... 19
- Cable connection terminals of R7 units with brake resistors (+D151) and du/dt filter (+E205) ................................................................. 20

**Frame size R8**
- Units with EMC filter (+E202, IP21, IP22, IP42) ........................................... 22
- Units with EMC filter (+E202, IP54) ............................................................ 23
- Types ACS800-07-0260/0320-3, -0320/0400/0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151) ................................................................. 24
- Types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151) .... 25
- Cable connection terminals (R8) ................................................................. 26
- Cable connection terminals of R8 units with du/dt filter (+E205) ................. 27
- Cable connection terminals of types ACS800-07-0320/0400/0440-7 with brake resistors (+D151) ................................................................. 28
Cable connection terminals of types ACS800-07-0320/0400/0440-7 with brake resistors (+D151) and du/dt filter (+E205) ......................................................... 29
Cable connection terminals of types ACS800-07-0260/0320-3, -0320/0400/0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151) ........................................... 30
Cable connection terminals of types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151) ......................................................... 31
Cable connection terminals of types ACS800-07-0260/-0320-3, -0320/-0400/0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151) and du/dt filter (+E205) .................. 32
Cable connection terminals of types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151) and du/dt filter (+E205) ........................................... 33

Fastening of marine cabinets (+C121)
Frame size R6 ................................................................. 35
Frame size R6: various cabinet widths and combinations ......................... 36
Frame sizes R7 and R8 ........................................................ 37
Frame sizes R7 and R8: various cabinet widths and combinations ................ 38

Dimensional drawings (USA)
Frame size R6 (USA) ................................................................ 39
Types ACS800-U7-0100/0120/0140-5 and -0070/0100/0120-7 .................... 40
Frame sizes R7 and R8 (USA) ..................................................... 41
Frame size R7 with EMC filter (+E202, UL type 1) ................................. 42
Frame size R7 with EMC filter (+E202, UL type 12) ................................. 43
Frame size R8 with EMC filter (+E202, UL type 1) ................................. 44
Frame size R8 with EMC filter (+E202, UL type 12) ................................. 45

---

Table of contents
Dimensional drawings

The dimensions are given in millimetres and [inches] in the drawings below.

Frame size R6

Dimensional drawings of frame size R6 are shown below.
Types ACS800-07-0070/0100/0120/130-3, -0100/0120/0140/150-5, -0070/0100/0120-7

Dimensional drawings
Frame sizes R7 and R8

The outer dimensions of the drive cabinet in frame sizes R7 and R8 are identical when no brake resistors or du/dt filter are included. The common dimensional drawings are shown below.
IP21, IP22 and IP42 units with bottom entry/exit and IP21 units with top entry/exit

Dimensional drawings
IP22 and IP42 units with top entry and bottom exit, bottom entry and top exit or top entry and exit
IP54 and IP54R units
Frame size R7

Dimensional drawings of cable connection terminals and units with optional EMC filter, du/dt filter and brake resistors are shown below.
Units with EMC filter (+E202, IP21, IP22, IP42)
Units with EMC filter (+E202, IP54)

68407044_2/4 A

Dimensional drawings

For location of motor and brake resistor / DC cable terminals, see drawing 64909446.

FRAME SIZE R7 WITH EMC FILTER (+E202)

400V: AC380-07-0140-3 .. 0230-3
500V: AC3800-07-0170-5 .. 0260-5
Cable connection terminals (R7)
Cable connection terminals of R7 units with du/dt filter (+E205)
Cable connection terminals of R7 units with brake resistors (+D151)

FRAME SIZE R7 WITH BRAKE RESISTOR
1xSAFURxxx (+D151)
400V: ACS800-07-0210/0215/0210-3
500V: ACS800-07-0210/0215/0260-5
690V: ACS800-07-0210/0215/0260-7
Cable connection terminals of R7 units with brake resistors (+D151) and du/dt filter (+E205)
Frame size R8

Dimensional drawings of cable connection terminals and units with optional EMC filter, du/dt filter and brake resistors are shown below.
Units with EMC filter (+E202, IP21, IP22, IP42)
Units with EMC filter (+E202, IP54)
Types ACS800-07-0260/0320-3, -0320/0400/0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151)

Dimensional drawings
Types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151)
Cable connection terminals (R8)
Cable connection terminals of types ACS800-07-0320/0400/0440-7 with brake resistors (+D151)
Cable connection terminals of types ACS800-07-0320/0400/0440-7 with brake resistors (+D151) and du/dt filter (+E205)
Cable connection terminals of types ACS800-07-0260/0320-3, -0320/0400/-0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151)
Cable connection terminals of types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151)
Cable connection terminals of types ACS800-07-0260/-0320-3, -0320/-0400/0440/0490-5, -0490/0550/0610-7 with brake resistors (+D151) and du/dt filter (+E205)
Cable connection terminals of types ACS800-07-0400/0440/0490-3, -0550/0610-5 with brake resistors (+D151) and du/dt filter (+E205)
Fastening of marine cabinets (+C121)

Dimensional drawings for the fastening of marine cabinets are shown below.
Frame sizes R7 and R8

Dimensional drawings
Frame sizes R7 and R8: various cabinet widths and combinations
Dimensional drawings (USA)

Dimensional drawings of ACS800-U7 units are shown below.

Frame size R6 (USA)

Dimensional drawings of frame size R6 units are shown below.
Frame sizes R7 and R8 (USA)
Frame size R7 with EMC filter (+E202, UL type 1)
Frame size R7 with EMC filter (+E202, UL type 12)
Frame size R8 with EMC filter (+E202, UL type 1)

For location information, see sheet 222 on page 222.
Frame size R8 with EMC filter (+E202, UL type 12)

For location of the full terminal terminals, see sheet on page 23.

Dimensional drawings
Dimensional drawings