

2014 Drives Pricelist

ABB standard drive

0.75 kW to 355 kW, ACS550

Supply voltage 380-480 V

Motor control method - scalar, vector (open and closed loop)

What is an ABB standard drive?

The ABB standard drive is simple to buy, install, configure and use, saving considerable time. It is widely available through ABB's distributors. The drive has a common user and process interface, common software tools for sizing, commissioning, maintenance and common spare parts. A wide range of fieldbus options gives excellent connectivity and new energy monitoring allows energy management.

Where can it be used?

The ABB standard drive can be used in a wide range of industries. Typical applications include pump and fan, amongst many others. The vector motor control means the drive can be used to fulfil the needs of reasonably demanding applications of all kinds. For highly demanding torque applications, the ABB industrial drive with DTC should be chosen. The ABB standard drive is ideal in those situations where there is a need for simplicity to install, commission and use and where reasonable amounts of flexibility and functionality are required.

Highlights

- Quick installation
- Rapid start-up
- Trouble-free use
- Easy interfacing



For more details, please refer to Technical Catalogue 3AFE64792857

- Wide power range in wall-mounted IP21 and IP54 variants
- Assistant control panel for intuitive use
- Patent pending swinging choke for superior harmonic reduction
- Sensorless vector and scalar control
- Integral EMC filter for 1st and 2nd environment as standard
- Flexible fieldbus system with built-in Modbus and numerous internally mountable fieldbus adapters
- New energy monitoring features record energy, CO2 and money saved

Main features

Feature	Advantage	Benefit
FlashDrop* * For details of FlashDrop, contact your local ABB office	Faster and easier drive set-up and commissioning for volume manufacturing - programming in the box	Fast, safe and trouble-free method to set up and commission without powering up the drive - patented
Application macros	Ready-made macros for common applications	Fast single parameter set-up
Chokes	Swinging DC chokes - matches the right inductance to the right load, thereby suppressing and reducing harmonics	Reduces Total Harmonic Distortion (THD) emissions up to 25 percent
EMC	1st and 2nd environment RFI filters as standard	No need for additional external filtering
Fieldbus	Built-in Modbus using RS 485 Optional plug-in fieldbus modules	Reduced cost, full access to industrial networks
Sensorless vector control	Improved motor control performance	Enables wider range of applications to be tackled
Low peak volts and du/dt	Motor peak voltage and rate of rise meets IEC60034-17	Kind to motor windings
Brake chopper	Built-in up to 11 kW	Reduced cost
Programmable customer load curve	8-point load curve set during commissioning, with under and overload regions, as well as alarm conditions	Allows precise monitoring of changes in plant conditions and early warning of potential problems
Clone drives	Copy parameters from drives of differing rating or software versions	Easy to copy parameters to other drives, reducing Rapid fault diagnosis - Diagnostic assistant
Assistant control panel	Two softkeys, Built-in "Help" button, giving hints. Real-time clock and Changed parameters menu included.	User friendly (Easy commissioning - Start-up assistant) and early warning of potential problems
RoHS compliance	Compliance achieved during 2007	Environmentally friendly drives

2014 Drives Pricelist

ABB standard drive

ACS550 – Variants, ratings

ABB standard drive variants

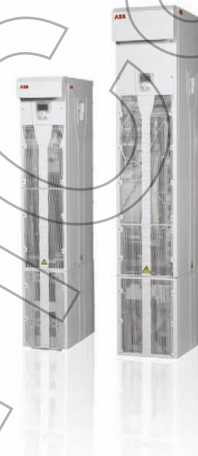
Wall-mounted - 0.75 to 160 kW, 380 - 480 V

- Wall-mounted, frame sizes R1-R6
- IP21 as standard, IP54 as option
- 55 percent size reduction at 160 kW
- Built-in EMC filter
- Standard software, easy to configure
- Built-in Modbus interface
- Cable connection box
- Brake chopper in frame sizes R1-R2
- Assistant control panel
- Built-in patented swinging choke
- Sensorless vector control, scalar control
- FlashDrop compatible
- RoHS compliant
- Real-time clock



Free-standing - 200 to 355 kW, 380 - 480 V

- Free-standing, frame size R8
- IP21 as standard, very compact design
- Built-in EMC filter
- Standard software, easy to configure
- Built-in Modbus interface
- Pedestal unit on wheels, easy handling
- Assistant control panel
- Sensorless vector control, scalar control
- Free-standing units are not FlashDrop compatible
- Real-time clock

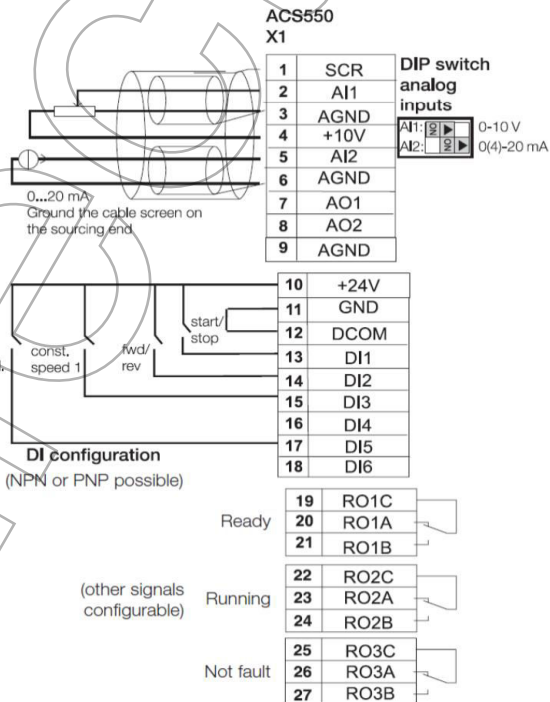


Typical control connections

These connections are shown as examples only. Please refer to the ACS550 User's Manual – Installations, for more detailed information and for different I/O configurations.

Available options

- IP54 protection class (frames R1-R6a)
- Assistant control panel as standard; see "User interfaces"
- Door mount kits available for keypad
- Relay output extension, giving three extra relays;
- Encoder feedback option available
- An extensive range of fieldbus modules is available;



Brake units and choppers technical data

Frequency converter input voltage	Resistor ohm	Continuous output W	Max. output 20 s W	Brake unit type code	Width (W) mm	Height (H) mm	Depth (D) mm	Weight kg
380 - 480 V AC	32	2000	12000	ACS-BRK-C	150	500	347	7.5
380 - 480 V AC	10.5	7000	42000	ACS-BRK-D	270	600	450	20.5

2014 Drives Pricelist

ABB standard drive

ACS550 – Ratings, types, voltages and prices

3-phase supply voltage 380-480 V (IP21)

† Ratings Normal use		Frame	Fuse A Type gG	Heat dissipation W	Cooling requirements m³/h	Type	Material Code (Order Code)	IP21 price with control panel
P _N kW	I _{2N} A							
1.1	3.3	R 1	10	40	44	ACS550-01-03A3-4	3AUA0000003385	R 10 040.00
1.5	4.1	R 1	10	52	44	ACS550-01-04A1-4	3AUA0000003386	R 11 485.00
2.2	5.4	R 1	10	73	44	ACS550-01-05A4-4	3AUA0000003387	R 12 015.00
3	6.9	R 1	10	97	44	ACS550-01-06A9-4	3AUA0000002415	R 12 905.00
4	8.8	R 1	10	127	44	ACS550-01-08A8-4	3AUA0000002419	R 14 410.00
5.5	11.9	R 1	16	172	44	ACS550-01-012A-4	3AUA0000002420	R 16 535.00
7.5	15.4	R 2	16	232	88	ACS550-01-015A-4	3AUA0000002412	R 19 185.00
11	23	R 2	25	337	88	ACS550-01-023A-4	3AUA0000002417	R 22 630.00
15	31	R 3	35	457	134	ACS550-01-031A-4	3AUA0000002418	R 29 285.00
18.5	38	R 3	50	562	134	ACS550-01-038A-4	3AUA0000002431	R 33 465.00
22	45	R 3	50	667	134	ACS550-01-045A-4	3AUA0000012789	R 38 980.00
30	59	R 4	63	907	280	ACS550-01-059A-4	3AUA0000002546	R 46 000.00
37	72	R 4	80	1120	280	ACS550-01-072A-4	3AUA0000002547	R 54 990.00
45	87	R 4	125	1440	280	ACS550-01-087A-4	3AUA0000013108	R 65 730.00
55	125	R 5	160	1940	350	ACS550-01-125A-4	68589657	R 79 285.00
75	157	R 6	200	2310	405	ACS550-01-157A-4	64726820	R 88 275.00
90	180	R 6	250	2810	405	ACS550-01-180A-4	64726838	R 122 380.00
110	195	R 6	250	3050	405	ACS550-01-195A-4	68294479	R 137 835.00
132	245	R6a	250	3050	405	ACS550-01-246A-4	3AUA0000014490	R 168 080.00
160	290	R6a	350	3050	405	ACS550-01-290A-4	3AUA0000026919	R 198 220.00

3-phase supply voltage 380-480 V (IP54)

† Ratings Normal use		Frame	Fuse A Type gG	Heat dissipation W	Cooling requirements m³/h	Type	Material Code (Order Code)	IP54 price with control panel
P _N kW	I _{2N} A							
1.1	3.3	R 1	10	40	44	ACS550-01-03A3-4+B055	3AUA0000004217	R 11 310.00
1.5	4.1	R 1	10	52	44	ACS550-01-04A1-4+B055	3AUA0000004220	R 12 760.00
2.2	5.4	R 1	10	73	44	ACS550-01-05A4-4+B055	3AUA0000004223	R 13 290.00
3	6.9	R 1	10	97	44	ACS550-01-06A9-4+B055	3AUA0000004224	R 14 180.00
4	8.8	R 1	10	127	44	ACS550-01-08A8-4+B055	3AUA0000004227	R 15 680.00
5.5	11.9	R 1	16	172	44	ACS550-01-012A-4+B055	3AUA0000004230	R 17 805.00
7.5	15.4	R 2	16	232	88	ACS550-01-015A-4+B055	3AUA0000004233	R 20 850.00
11	23	R 2	25	337	88	ACS550-01-023A-4+B055	3AUA0000004236	R 24 290.00
15	31	R 3	35	457	134	ACS550-01-031A-4+B055	3AUA0000004239	R 31 710.00
18.5	38	R 3	50	562	134	ACS550-01-038A-4+B055	3AUA0000004242	R 35 910.00
22	45	R 3	50	667	134	ACS550-01-045A-4+B055	3AUA0000012787	R 42 520.00
30	59	R 4	63	907	280	ACS550-01-059A-4+B055	3AUA0000004248	R 49 290.00
37	72	R 4	80	1120	280	ACS550-01-072A-4+B055	3AUA0000004251	R 58 430.00
45	87	R 4	125	1440	280	ACS550-01-087A-4+B055	3AUA0000013240	R 70 235.00
55	125	R 5	160	1940	350	ACS550-01-125A-4+B055	68632994	R 85 785.00
75	157	R 6	200	2310	405	ACS550-01-157A-4+B055	68265312	R 95 755.00
90	180	R 6	250	2810	405	ACS550-01-180A-4+B055	68265339	R 132 125.00
110	195	R 6	250	3050	405	ACS550-01-195A-4+B055	68294487	R 149 000.00
132	245	R6a	250	3050	405	ACS550-01-246A-4+B055	3AUA0000015782	R 179 240.00
160	290	R6a	350	3050	405	ACS550-01-290A-4+B055	3AUA0000026922	R 209 390.00

† Heavy duty ratings available, when higher overload requirements are needed; contact ABB

2014 Drives Pricelist

ABB standard drive

ACS550 – Ratings, types, voltages and prices

3-phase supply voltage 380-480 V (IP21 - Free Standing)

† Ratings Normal use		Frame	Fuse A Type gG	Heat dissipation W	Cooling requirements m³/h	Type	Material Code (Order Code)	IP21 price with control panel
P _N kW	I _{2N} A							
200	368	R8	400	6850	1220	ACS550-02-368A-4	64727044	R 334 725.00
250	486	R8	500	7850	1220	ACS550-02-486A-4	64727061	R 396 310.00
280	526	R8	630	7600	1220	ACS550-02-526A-4	64727079	R 434 285.00
315	602	R8	630	8100	1220	ACS550-02-602A-4	64727087	R 472 255.00
355	645	R8	800	9100	1220	ACS550-02-645A-4	64727095	R 527 925.00

† Heavy duty ratings available, when higher overload requirements are needed; contact ABB

ABB Standard HVAC drive

ACH550

Series ACH550-01 wall-mounted Series ACH550-02 floor-standing

- Dedicated HVAC software with real-time clock
- Dedicated HVAC control panel, Hand / Off / Auto
- 15 dedicated HVAC user macros
- User-friendly control panel with HVAC assistants to aid commissioning - PID assist, comms assist etc
- Swinging choke gives superior harmonic performance when slowing motors down, compared to conventional chokes
- IEC EN 61000-3-12 harmonic spectrum compliant
- BACnet, N2, FLN and Modbus embedded
- Fireman's override facility (Run to destruction)
- Now fitted with mains switch up to 22 kW (Optional)



Price on Application

2014 Drives Pricelist

ABB standard drive

ACS550 – Types and user interface prices

Options

Type +	Description	Material Code	Price
OREL-01	ACS 550 Relay Output Extension (sold separately)	3AUA00000002040	R 1 840.00
OTAC-01	Encoder Feedback Option ACS550	3AUA0000002051	R 2 855.00
MFDI-01	Flash Drop Option (sold only from Helsinki)	68566380	R 22 855.00
ACS/H-CP-EXT-IP66	ACS/H-CP Panel Extension Cable Kit IP66 3m	68829593	R 1 170.00
ACS/H-CP-EXT	ACS/H-CP Panel Extension Cable Kit 3m	68294673	R 935.00
OPMP-01	ACS310/350/355/550 Panel Mounting Platform	3AUA0000013086	R 2 925.00
DriveWindow Light 2	DriveWindow Light 2 with cable	64532871	R 3 190.00

Fieldbus Options

Type +	Description	Material Code	Price
RDNA-01	DeviceNet Adapter (sold separately)	64606891	R 6 040.00
RPBA-01	Profibus DP Adapter (sold separately)	64606859	R 6 040.00
RLON-01	LONWorks Adapter (sold separately)	64606883	R 6 040.00
RCNA-01	Control Net Adapter (sold separately)	64751701	R 12 150.00
RCAN-01	CANOpen Adapter (sold separately)	64606905	R 6 040.00
RETA-01	Ethernet Adapter for control purposes (sold separately)	64751727	R 7 285.00
RETA-02	Ethernet (EtherNet/IP, Modbus/TPC, Profinet) adapter for control purposes (sold se	68840830	R 7 285.00
RMBA-01	Modbus Adapter (sold separately)	64606778	R 6 040.00
RTAC-01	Pulse Encoder Interface (sold separately)	64610805	R 6 155.00
RTAC-03	Pulse Encoder Interface (sold separately)	68654947	R 6 155.00
RRIA-01	Resolver Interface (sold separately)	68486408	R 6 155.00
RECA-01	EtherCat Adapter for control purposes (sold separately)	3AUA0000045102	R 8 250.00
SREA-01	Intelligent Ethernet adapter with Modbus interface	3AUA0000039179	R 14 785.00

du/dt Filter Kits

Type	Description	Material Code	Price
NOCH0016-62	du/dt filter (IP22) Suitable for use with: ACS550-01 (PN: 1.1 kW - 7.5 kW)	61445412	R 8 765.00
NOCH0030-62	du/dt filter (IP22) Suitable for use with: ACS550-01 (PN: 11 kW - 18.5 kW)	61445439	R 11 130.00
NOCH0070-62	du/dt filter (IP22) Suitable for use with: ACS550-01 (PN: 22 kW - 45 kW)	61445455	R 14 050.00
NOCH0120-62	du/dt filter (IP22) Suitable for use with: ACS550-01 (PN: 55 kW)	64782126	R 40 440.00
NOCH0016-65	du/dt filter (IP54) Suitable for use with: ACS550-01 (PN: 1.1kW - 7.5 kW)	61445421	R 9 295.00
NOCH0030-65	du/dt filter (IP54) Suitable for use with: ACS550-01 (PN: 11 kW - 18.5 kW)	61445447	R 11 660.00
NOCH0070-65	du/dt filter (IP54) Suitable for use with: ACS550-01 (PN: 22 kW - 45 kW)	61445463	R 14 855.00
NOCH0120-65	du/dt filter (IP54) Suitable for use with: ACS550-01 (PN: 55 kW)	64789503	R 41 925.00
FOCH0260-70	du/dt filter (IP00) Suitable for use with: ACS550-01 (PN: 75 kW - 132 kW)	68490308	R 35 795.00
FOCH0320-50	du/dt filter (IP00) Suitable for use with: ACS550-01 (PN: 160 kW - 200 kW)	68612209	R 52 670.00
FOCH0610-70	du/dt filter (IP00) Suitable for use with: ACS550-01 (PN: 250 kW - 355 kW)	68550505	R 63 010.00

+ Please see next page for detailed description of the above options

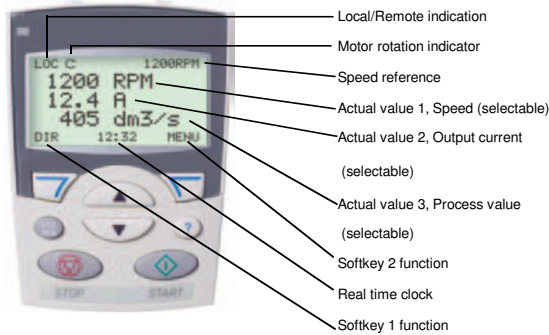
2014 Drives Pricelist

ABB standard drive

ACS550 – User interfaces

Assistant control panel

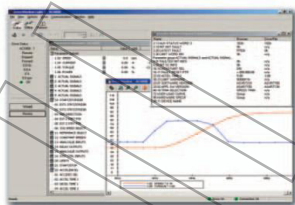
For easy drive programming, a detachable, multilingual alphanumeric Assistant control panel is offered as standard. The control panel has various assistants and a built-in help function to guide the user. It includes a real time clock, which can be used during fault logging and in controlling the drive, such as start/stop at certain times of the day. The control panel can be used for copying parameters for back-up or for downloading to another drive. A large graphical display and soft-keys make it extremely easy to navigate.



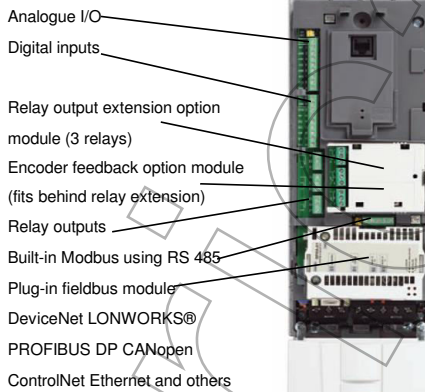
Name	Function
	Start Initiates operation of drive
	Stop Ceases operation of drive
	Up Changes parameters and their value/ increases reference
	Down Changes parameters and their value/ decreases reference
	Loc/Rem Changes drive state from local control (control panel) to remote control (I/O or other external source)
	HELP Built-in "Help" button
	Softkey 1 Function changes according to state of panel
	Softkey 2 Function changes according to state of panel

DriveWindow Light PC tool

DriveWindow Light is a parameterisation and commissioning tool used to set-up and commission the drive. Monitoring and diagnostic facilities are included, as well as a local control panel. Wizards are included to guide the user through the most commonly performed tasks.

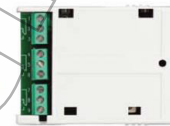


Overview of ACS550 interfaces



Relay extension

An extra 3, volts free change-over relays can be added to the ACS550 by requesting an OREL module.



Panel mounting kit, IP54 and IP66

The panel mounting kit enables mounting of control panels on cabinet doors. These kits include a 3 m extension cable, a gasket, mounting screws and a mounting template - two versions are now available, IP54 and IP66. The IP66 has an additional keypad membrane cover.



FlashDrop

A powerful palm-sized tool for fast and easy parameter setting, ideal for programming many drives. Programmable in the box - unpowered. Ideal for OEMs programming can be left until the moment before commissioning, or at the end of production line, making it a safe option.



Fieldbus modules and fieldbus

An extensive range of fieldbus modules are available to allow connection to all the major industrial protocols. The drive has an RS485 Modbus interface built-in.



2014 Drives Pricelist

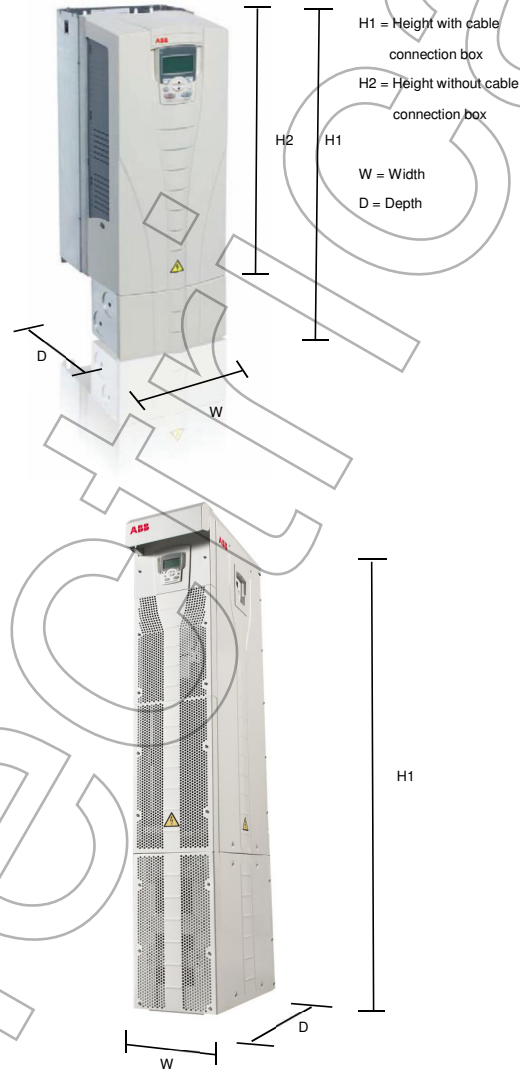
ABB standard drive

ACS550 – Dimensions

Drive dimensions and weights Wall-mounted drives

Frame size	IP21 / UL open					IP54 / UL type 12				
	H1	H2	W	D	Weight	H	W	D	Weight	
	mm	mm	mm	mm	Kg	mm	mm	mm	Kg	
R 1	369	330	125	212	6.5	449	213	234	8.2	
R 2	469	430	125	222	9	549	213	245	11.2	
R 3	583	490	203	231	16	611	257	253	18.5	
R 4	689	596	203	262	24	742	257	284	26.5	
R 5	739	602	265	286	34	776	369	309	38.5	
R 6	880	700	300	400	69	924	410	423	80	
R6a	986	700	302	400	73	1119	410	423	84	

a) The dimensions and weights apply to ACS550-01-246A-4 and ACS550-01-290A-4



Free-standing drives

Frame size	IP21 / UL open				
	H1	H2	W	D	Weight
	mm	mm	mm	mm	Kg
8 †	2024	n/a	347	617	230

† The dimensions apply to bookshelf mounting.

In flat type mounting the width and depth change places.



du/dt filters

Filter †	H mm	W mm	D mm	Weight Kg
NOCH0016-60	195	140	115	2.4
NOCH0016-62/65	323	199	154	6
NOCH0030-60	215	165	130	4.7
NOCH0030-62/65	348	249	172	9
NOCH0070-60	261	180	150	9.5
NOCH0070-62/65	433	279	202	15.5
NOCH0120-60**	200	154	106	7
NOCH0120-62/65	765	308	256	45
NOCH0260-60**	383	185	111	12
FOCH0260-70	382	340	254	47
FOCH0320-50	662	319	293	65
FOCH0610-70	662	319	293	65

** 3 Filters included, dimensions apply for one filter

† Please refer to the relevant technical catalogue for matching the correct filter to the correct inverter.