ABB component drives ACS55, 0.18 to 2.2 kW / 0.25 to 3 hp

Technical catalogue

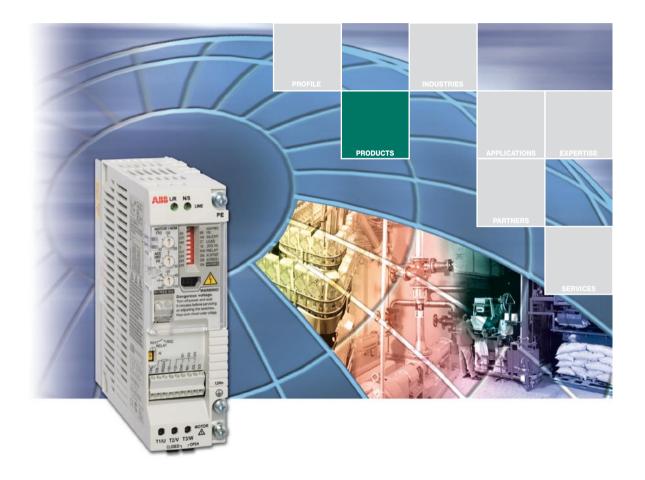






ABB component drives

ABB component drives meet the requirements of OEMs, installation companies and panel builders. These drives are components that are bought together with other components from a logistical distributor. The drives are stocked, and the number of options and, variants is optimized for logistical distribution.

Highlights

- Descriptive interface
- Compact and slim
- Fast and safe drive configuration with DriveConfig kit
- Ideal for DIN-rail mounting
- Suitable for domestic environment as standard
- Silent motor

Applications

- Fans
- Pumps
- Gate control
- Material handling
- Conveyors

Features	Benefits	Notes
Descriptive interface	Faster set-up Easier configuration Easier drive for new users	Basic parameter settings are done with DIP switches and potentiometers
Compact and slim	Less space required for installation	0.18 to 0.37 kW 45 mm width 0.75 kW 67.5 mm width 1.5 to 2.2 kW 70 mm width
DriveConfig kit	Fast and safe configuration of unpowered drives	New drive configuration tool for volume manufacturing
Removable mounting clip	Flexible and easy mounting	Removable clip allows DIN-rail and wall mounting from back and side of the unit
EMC	Low EMC emissions	1 st environment EMC filters as standard
Automatic switching frequency	Provides lowest possible noise without decreased derating of the drive	Increases switching frequency automatically, when drive temperature is decreased

Ratings, types and voltages

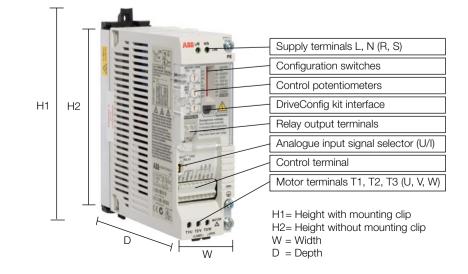


P _N kW	P _№ hp	Output nominal A	current max A	Input current A	Type code	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg
Inbuilt	Inbuilt EMC filter, 1-phase supply voltage 200/240 V, +10/-15%, 3-phase output 200/240 V										
0.18	0.25	1.4	2.1	4.4	ACS55-01E-01A4-2	А	170	146.5	45	128	0.65
0.37	0.5	2.2	3.3	6.9	ACS55-01E-02A2-2	Α	170	146.5	45	128	0.7
0.75	1.0	4.3	6.5	10.8	ACS55-01E-04A3-2	В	170	146.5	67.5	128	0.7
1.5	2	7.6	11.4	18.2	ACS55-01E-07A6-2	D	226	203	70	159	1.1
2.2	3	9.8	14.7	22	ACS55-01E-09A8-2	D	226	203	70	159	1.1

P _N kW	P _N hp	Output nominal A	current max A	Input current A	Type code	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg
No EMC filter, 1-phase supply voltage 200/240 V, +10/-15%, 3-phase output 200/240 V											
0.18	0.25	1.4	2.1	4.4	ACS55-01N-01A4-2	Α	170	146.5	45	128	0.65
0.37	0.5	2.2	3.3	6.9	ACS55-01N-02A2-2	А	170	146.5	45	128	0.7
0.75	1.0	4.3	6.5	10.8	ACS55-01N-04A3-2	В	170	146.5	67.5	128	0.7
1.5	2	7.6	11.4	18.2	ACS55-01N-07A6-2	С	194	171	70	159	1.1
2.2	3	9.8	14.7	22	ACS55-01N-09A8-2	С	194	171	70	159	1.1

		Output	current	Input							
P _N	P _N	nominal	max	current	Type code	Frame	H1	H2	W	D	Weight
kW	hp	A	A	A		size	mm	mm	mm	mm	kg
Inbuil	Inbuilt EMC filter, 1-phase supply voltage 110/120 V, +10/-15%, 3-phase output 200/240 V										
0.18	0.25	1.4	2.1	6.4	ACS55-01E-01A4-1	А	170	146.5	45	128	0.65
0.37	0.5	2.2	3.3	9.5	ACS55-01E-02A2-1	А	170	146.5	45	128	0.7

P _N kW	P _N hp	nominal A	current max A	Input current A	Type code	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg
	IC filter,	1-phase sup	ply voltage 1	10/120 V, 4	10/-15%, 3-phase ou	tput 200/	240 V				
0.18	0.25	1.4	2.1	6.4	ACS55-01N-01A4-1	Α	170	146.5	45	128	0.55
0.37	0.5	2.2	3.3	9.5	ACS55-01N-01A4-1	Α	170	146.5	45	128	0.6



Options



DriveConfig kit

The DriveConfig kit is a PC tool for volume configuration and control of ACS55 drives. The kit enables parameter setting and software updating without the need for a power connection. The drives can even remain in their delivery boxes during configuration. The DriveConfig kit features on-line drive control and monitoring of up to four signals simultaneously. Together with ACS55 drives, the DriveConfig kit brings additional value to processes by saving time and ensuring safety.

DriveConfig kit includes:

- Hardware and cables
- PC software
- User's manual in English (hardcopy and PDF)
- Battery charger
- Serial port / USB adapter

DriveConfig kit requirements:

- PC with Microsoft Windows 2000/XP operating system
- Free serial or USB port from the PC



Potentiometer

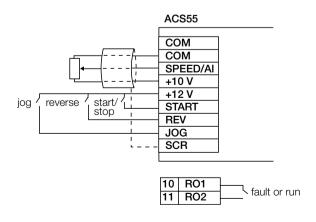
The ACS50-POT potentiometer is an option for ACS55 drives. Two switches are included in addition to the potentiometer for drive control; start / stop and forward / reverse. The ACS50-POT potentiometer does not require any external power source.



Technical specification



Mains connec	tion
Power range	0.18 to 2.2 kW
Voltage	1-phase, 110 to 120 V and 200 to 240 V, +10/-15%
Frequency	48 to 63 Hz
Motor connec	tion
Voltage	3-phase, from 0 to U _{SUPPLY} (for 110/120 V from 0 to 230 V)
Frequency	0 to 120/130 Hz
Overload capacity	150% (60 s)
Switching frequency Standard	5 kHz, adjustable up to 16 kHz with automatic switching frequency reduction
Acceleration time	0.1 to 30 s
Deceleration time	0.1 to 30 s
Environmenta	l limits
Ambient temperature	
0 to 40 °C	with nominal current and 5 kHz switching frequency
up to 50 °C -20 °C	with derating with restrictions
Altitude	
Output current	Nominal current : 0 to 1000 m reduced by 1% per 100 m over 1000 m to 2000 m
Relative humidity	lower than 95% (without condensation)
Degree of protection	IP20
Contamination levels	No conductive dust allowed, corrosive liquids or gases (IEC 60721-3-3)



Control conne	ections
One analog input	
Voltage signal	0 (2) to 10 V, 200 k Ω single-ended
Current signal	0 (4) to 20 mA, 100 Ω single-ended
Potentiometer	
reference value	10 V ±2% max. 10 mA, 1 k $\Omega \le$ R \le 10 k Ω
Response time	≤ 60 ms
Resolution	0.1%
Accuracy	±1%
Three digital inputs	12 V DC with internal or 12 to 24 V DC external supply, PNP
Input impedance	1.5 Ω
Response time	≤ 9 ms
One relay output	
Switching voltage	12 to 250 V AC or max 30 V DC
Maximum continuous current	2 A
Product comp	bliance

Low Voltage Directive 73/23/EEC with supplements EMC Directive 89/336/EEC with supplements

Quality assurance system ISO 9001 and Environmental system ISO 14001

CE, UL, cUL, C-Tick and GOST R approvals

EMC standards in general

EN 61800-3/A11 (2000), product standard	EN 61800-3 (2004), product standard	EN 55011, product family standard for industrial, scientific and medical (ISM) equipment
1 st environment, unrestricted distribution	Category C1	Group 1 Class B
1 st environment, restricted distribution	Category C2	Group 1 Class A
2 nd environment, unrestricted distribution	Category C3	Group 2 Class A
2 nd environment, restricted distribution	Category C4	Not applicable

5





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