

# Ratings, types and voltages



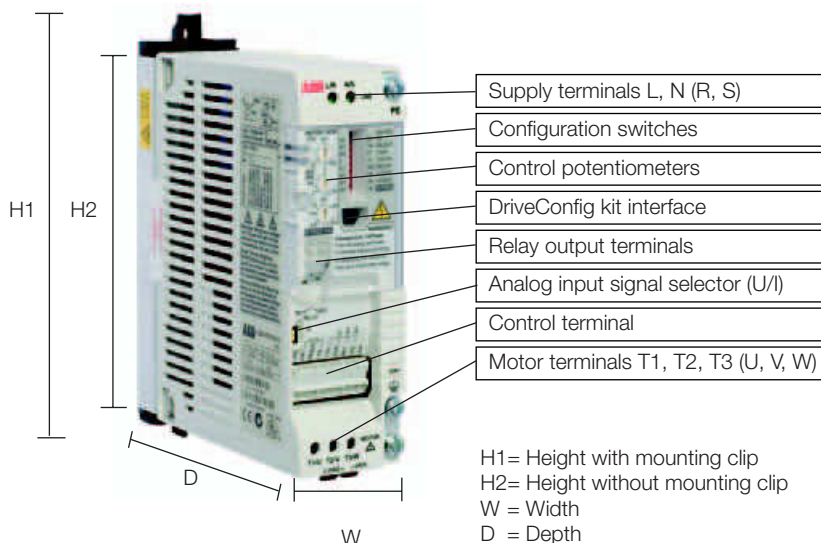
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$P_N$ kW	$P_N$ hp	Output current		Input current A	Type code	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg
		nominal A	max A								
<b>Inbuilt EMC filter, 1-phase supply voltage 200/240 V, +10/-15%, 3-phase output 200/240 V</b>											
0.18	0.25	1.4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

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

$P_N$ kW	$P_N$ hp	Output current		Input current A	Type code	Frame size	H1 mm	H2 mm	W mm	D mm	Weight kg
		nominal A	max A								
<b>No EMC filter, 1-phase supply voltage 110/120 V, +10/-15%, 3-phase output 200/240 V</b>											
0.18	0.25	1.4	2.1	6.4	ACS55-01N-01A4-1	A	170	146.5	45	128	0.55
0.37	0.5	2.2	3.3	9.5	ACS55-01N-02A2-1	A	170	146.5	45	128	0.6



# Technical specification



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Mains connection		
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 connection		
Voltage	3-phase, from 0 to $U_{SUPPLY}$ (for 110/120 V from 0 to 230 V)	
Frequency	0 to 120/130 Hz, 0 to 250 Hz with DriveConfig kit	
Overload capacity	150% (60 s)	
Application parameters		
	As standard	With DriveConfig kit
Motor nominal frequency	50/60 Hz	40 to 250 Hz
Acceleration time	0.1 to 30 s	0.1 to 100 s
Deceleration time	0.1 to 30 s	0.1 to 100 s
Maximum frequency	50 to 120 Hz	0 to 250 Hz
Relay output	Fault/Run	Fault/Fault (-1)/Run
Load type	Pump/fan or constant	
Switching frequency	Standard 5 kHz, adjustable up to 16 kHz with automatic switching frequency reduction	
Environmental limits		
Ambient temperature	-20 to 40 °C with nominal current and 5 kHz switching frequency, no frost allowed	
	up to 50 °C with derating	
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 connections		
One analog input		
Voltage signal	0 (2) to 10 V, 200 k $\Omega$ single-ended	
Current signal	0 (4) to 20 mA, 100 $\Omega$ single-ended	
Potentiometer reference value	10 V $\pm$ 2% max. 10 mA, 1 k $\Omega$ $\leq$ R $\leq$ 10 k $\Omega$	
Response time	$\leq$ 60 ms	
Resolution	0.1%	
Accuracy	$\pm$ 1%	
Three digital inputs		
	12 V DC with internal or 12 to 24 V DC external supply, PNP	
Input impedance	1.5 $\Omega$	
Response time	$\leq$ 9 ms	
One relay output		
Switching voltage	12 to 250 V AC or max 30 V DC	
Maximum continuous current	2 A	
Product compliance		
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 <sup>st</sup> environment, unrestricted distribution	Category C1	Group 1 Class B
1 <sup>st</sup> environment, restricted distribution	Category C2	Group 1 Class A
2 <sup>nd</sup> environment, unrestricted distribution	Category C3	Group 2 Class A
2 <sup>nd</sup> environment, restricted distribution	Category C4	Not applicable

