

Ratings, types and voltages

Ratings			Type Code	Frame Size
P_N Hp	P_N kW	I_{2N} A		
3-phase supply voltage 200 - 240 V units				
0.5	0.37	2.4	ACS350-03U-02A4-2+B063	R1
0.75	0.55	3.5	ACS350-03U-03A5-2 B063	R1
1	0.75	4.7	ACS350-03U-04A7-2+B063	R1
1.5	1.1	6.7	ACS350-03U-06A7-2+B063	R1
2	1.5	7.5	ACS350-03U-07A5-2+B063	R1
3	2.2	9.8	ACS350-03U-09A8-2+B063	R3
5	4.0	17.6	ACS350-03U-17A6-2+B063	R3
3-phase supply voltage 380 - 480 V units				
0.5	0.37	1.2	ACS350-03U-01A2-4+B063	R1
0.75	0.55	1.9	ACS350-03U-01A9-4+B063	R1
1	0.75	2.4	ACS350-03U-02A4-4+B063	R1
1.5	1.1	3.3	ACS350-03U-03A3-4+B063	R1
2	1.5	4.1	ACS350-03U-04A1-4+B063	R1
3	2.2	5.6	ACS350-03U-05A6-4+B063	R1
5	4.0	8.8	ACS350-03U-08A8-4+B063	R1
7.5	5.5	12.5	ACS350-03U-12A5-4+B063	R3
10	7.5	15.6	ACS350-03U-15A6-4+B063	R3

U = EMC filter disconnected¹⁾
+B063 = UL Type 4X (IP66) enclosure

¹⁾ In case the EMC filter is required, it can easily be connected

Motor connection	
Voltage	3-phase, from 0 to U_{SUPPLY}
Frequency	0 to 500 Hz
Overload capacity (at a max. ambient temperature of 40 °C)	1.5 x I_{2N} for 1 minute every 10 minutes At start 1.8 x I_{2N} for 2 s
Switching frequency	
Default	4 kHz
Selectable	4 to 16 kHz with 4 kHz steps
Speed control	
Static accuracy	20% of motor nominal slip
Dynamic accuracy	< 1% s with 100% torque step
Torque control	
Torque step rise time	< 10ms with nominal torque
Non-linearity	± 5% with nominal torque

Programmable control connections	
Two analog inputs:	
Voltage signal	
Unipolar	0 (2) to 10 V, $R_{in} > 312$ k Ω
Bipolar	-10 to 10 V, $R_{in} > 312$ k Ω
Current signal	
Unipolar	0 (4) to 20 mA, $R_{in} = 100$ Ω
Bipolar	-20 to 20 mA, $R_{in} = 100$ Ω
Potentiometer reference value	10 V ±1% max. 10 mA, $R < 10$ k Ω
Resolution	0.1%
Accuracy	±1%
One analog output	0 (4) to 20 mA, load < 500 Ω
Auxiliary voltage	24 V DC ±10%, max. 200 mA

Five digital inputs	12 to 24 V DC with internal or external supply, PNP and NPN, pulse train 0 to
Input impedance	16 kHz 2.4 k Ω
One relay output	
Type	NO + NC
Maximum switching voltage	250 V AC/30 V DC
Maximum switching current	0.5 A/30 V DC; 5 A/230 V AC
Maximum continuous current	2 A rms
One digital output	
Type	Transistor output
Maximum switching voltage	30 V DC
Maximum switching current	100 mA/30 V DC, short circuit protected
Frequency	10 Hz to 16 kHz
Resolution	1 Hz
Accuracy	0.2%
Product compliance	
CE, NSF certified, UL	
Environmental limits	
Degree of protection	UL Type 4X (IP66), indoor use only
Ambient temperature	-10 to 40 °C (14 to 104 °F), no frost allowed

For more information see technical catalog
ABB general machinery drives ACS350-PHTC01U-EN

For more information please contact:

ABB Inc.
Low Voltage Drives
New Berlin, WI 53151
USA
Phone: (800) 752-0696
Fax: (262) 785-0397

www.abb.us/drives