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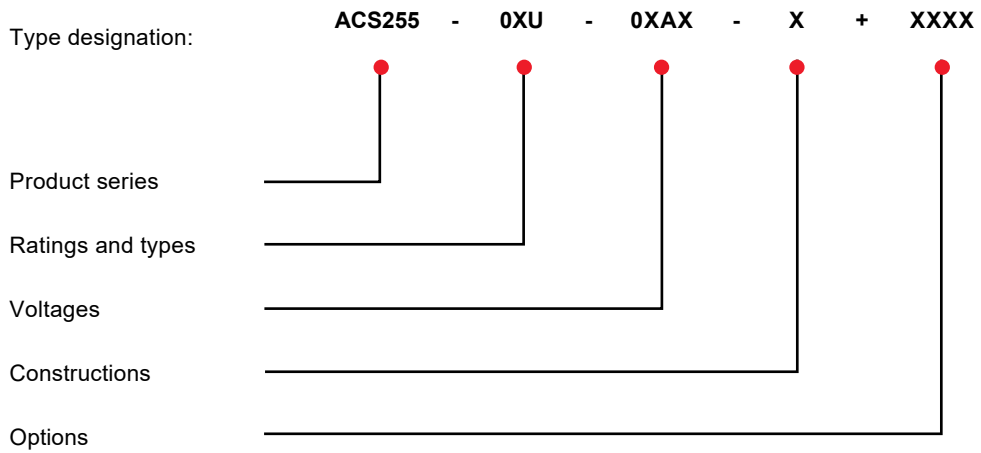
ПРИВОДЫ ПЕРЕМЕННОГО ТОКА НИЗКОВОЛЬТНЫЕ Техническое описание на преобразователи ACS255



Select and order your drive

Type designation is a unique reference number that clearly identifies the drive by construction, power and voltage rating and selected options. Using the type designation you can specify your drives from the wide range of options available. Options are added to the type designation using the corresponding "plus" (+) code.

Build up your own ordering code using the type designation key below or contact your local ABB drives sales office and let them know what you want.



ACS255 micro drive

Introduction

ACS255 IP20



ACS255 IP66 - NEMA 4X



Main attributes	
Feed-thru wiring, embedded Modbus-RTU, built-in macros for simple machine interface	Wide range of input voltages, high protection class enclosure for harsh environments, Modbus-RTU as standard
HP range	
1~115 V - 0.5 to 1.5 HP 3~600 V - 1 - 20 HP	1~115 V - 0.5 to 1.5 HP 1~230 V - 0.5 to 5 HP 3~230 V - 0.5 to 15 HP 3~460 V - 0.5 to 30 HP 3~600 V - 1 to 15 HP
Voltage range	
1~120 V In / 3~ 230 V Out 3~600 V In / Out	1~115 V In / 3~230 V Out 1~230 V In / 3~230 V Out 3~230 V In / Out 3~460 V In / Out 3~600 V In / Out
Enclosure type	
UL type 0 (IP20)	UL type 4X (IP66)
Control mode	
Scalar (V/Hz) variable torque and constant torque V/Hz profiles, Sensorless vector	Scalar (V/Hz) variable torque and constant torque V/Hz profiles, Sensorless vector
Motor types	
AC induction Permanent magnet AC	AC induction Permanent magnet AC
Communications options	
Embedded Modbus-RTU	Embedded Modbus-RTU
Operator interface	
Integral and/or remote mount keypad	Integral and/or remote mount keypad

ACS255 micro drive

Main features

Overview

The new ACS255 drive is an enhanced version of the popular ACS250 drive series. New features include: sensorless vector control for both AC induction and PM motors, enhanced short circuit protection, and operating mode selection. New ratings have been added to fill out the product line.

All of the existing features of the ACS250 - parameters, external dimensions, mounting locations, etc. - are the same for the ACS255. An Advanced parameter menu has been added for additional functionality.

The ACS255 drive is a part of ABB's complete range of micro drives, offering a solution for every need. The IP20 drives offer 115V and 600V options to enhance other IP20 product lines. The IP66 drives have a complete input voltage range from 115 to 600V.

ACS255 variable frequency drives feature an intuitive integrated control panel with LED display. Built-in macros and only the essential parameters make commissioning straightforward. Built-in Modbus-RTU serial communication provides ready integration with control and monitoring systems.

ACS255 micro drives are compact and offer flexible mounting options without the need for accessory mounting kits. Rapid programming and commissioning are possible using the on board setup macros. The copy stick tool can be used to transfer parameter sets between drives.

The ACS255 drive is ideal for panel builders and OEM's needing a micro drive with low cost, flexible mounting options, and rapid parameter setup.

Highlights

- Power range: 0.5 to 20 Hp, 1 & 3 phase input
- 150% peak overload capacity
- Modbus-RTU built-in
- User-friendly control panel with LED display
- Wall or DIN rail mounting options for IP20 drives
- Feed thru wiring on IP20 drives
- PI control
- Built-in brake chopper (Sizes 2 & 3)
- Sensorless vector and V/Hz control - all voltages
- Safe Torque Off (STO) (600V drives only)
- Conformally coated boards
- Operating mode selection
- Easy access to power and I/O connections for rapid installation
- Selection options for braking resistors, input reactors, & output filters

Applications

- Conveyors
- Mixers
- Material handling
- Fans and pumps
- Automated Gate Control
- Food and Beverage
- Printing
- Woodworking Machinery

ACS255 micro drive

Main features

Feature	Advantage	Benefit
Simple interface	Integrated keypad and display is easy to learn and makes commissioning straightforward ABB common programming parameter structure	Time and labor cost savings with rapid setup and commissioning
Drive & network connectivity	RS485 serial interface with embedded Modbus RTU for real time control (or monitoring) RJ45 connection port can be used with: Optional Y-splitter for daisy chain networking Remote control panel Copy Stick tool for transferring parameters between drives	Flexibility with RJ45 connectivity options Time savings with simple plug-and-play connectivity
IP66 Construction with Optional Controls	Optional operator controls: Disconnect, Fwd/Off/Rev, & Speed Potentiometer Dust and water proof design built with tough ABS plastic cover, epoxy coated heatsink that withstands high pressure washdown for food and beverage applications. Optional operator controls allows mounting directly on processing equipment located in extreme environments	Save panel building cost Less cost due to shorter motor cables with machine mounted drive Operator controls located on the machine
Full voltage range in IP66 drives	IP66 offering throughout the voltage range - 110V to 600V Global input voltage range to cover a wide range of application	Standardize on one supplier with global input voltage range save procurement and inventory cost
Feed Through Wiring & Flexible Mounting Options (IP20 Drives)	Allows for easy replacement of motor starters or soft starters in existing panels with power wires in at the top and motor cables out at the bottom Flexible mounting options - wall or DIN rail	Saves time and material cost for panel builders
600V Ratings in IP20 and IP66 Enclosures	600V capacity in a micro drive with Safe Torque Off (SIL2)	Panel design standardization with compact micro drive sizing in a 600V drive - similar to 115, 230, & 460V micro drives

ACS255 IP20 micro drive

Overview

Replacing a motor starter or soft starter with a drive can help your customer improve their overall energy efficiency, reduce mechanical stresses and enhance their process control. With its feed-thru wiring, the ACS255 can easily replace motor starters for general purpose low power applications, such as; augers, mixers, pumps, fans and conveyors. The key features include an integrated keypad for easy configuration, precise process control with an enhanced V/Hz control with variable torque and constant torque V/Hz profiles, sensorless vector control and embedded, Modbus-RTU communication interface for real time control and monitoring.

Main features

- Integrated display and keypad
- Feed-thru wiring
- 50°C no de-rate / 60°C max.
- Built-in macros and only the essential parameters make commissioning straightforward
- Enhanced V/Hz control (all models)
- Open loop vector - speed & torque control - for AC Induction and permanent magnet motors
- Operating Mode Select quickly configures current limit, torque characteristic and spin start parameters for Industrial, Pump, or Fan applications
- Adjustable current limit
- Power loss ride-through
- DC injection braking
- DC magnetizing start (provides maximum starting torque)
- Internal braking chopper (except frame E1)
- Modbus-RTU fieldbus as standard
- Open loop vector - speed & torque control (600 V only)
- SIL2 Safe torque-off (600 V only)
- Integrated help card

Applications

- Variable torque, constant torque or constant horsepower applications requiring a compact drive solution for cabinet mounting

Capabilities

- V /Hz and sensorless vector control with peak overload capacity of 175%
- Feed-thru wiring DIN rail mountable IP20 enclosure
- Intuitive integrated keypad
- Designed to be easy to program for simple machine interface

ACS255 IP20 micro drive

Data sheet

Performance features	Control modes	115 VAC: V/Hz and open loop vector 600 VAC: V/Hz and open loop vector
	Operator interface module	Keypad drive mounted
	Display lines	6-character LED display
	Programmable preset speeds	Four
	Analog output: one	One (0-10 VDC)
	Auto restart	Yes – up to 5 attempts
	Frequency avoidance	One band
	Fault history	Last four faults
	Digital inputs: four	Two programmable digital inputs, two user selectable analog/digital inputs
	Digital inputs type	Pull-up
Drive specifications	Analog inputs: two	0-10 VDC, 4 to 20mA
	Relay output: one	Built-in form C relay
	Analog output / digital output	0-10 VDC: one analog usable for meter (freq., current, voltage) or digital output
	Overload capacity	Drive output 150% for one minute and 175% for 2 seconds
	Maximum load	1.5 HP @ 120 V In/230 V Out, 20 HP @ 600 V In/Out
	Input voltage ranges	115 VAC (99-126); 600 VAC (450-660)
	Rated input frequency	50-60 Hz (±5%)
	Carrier frequency	4-32 kHz (8 kHz default)
	Operating temperature	-10° to 50°C
	Snubber (dynamic braking)	Built-in transistor (frames 2 and 3)
	Dynamic braking external	Up to 150% dynamic braking with appropriately sized resistor
	DC injection braking	Included
	Volts/Hz	Linear V/Hz, user defined, energy optimizer & boost function
	Sensorless vector	Speed and torque with autotune for AC induction and permanent magnet motors
	Frequency control range	0-500 Hz
	Accel/decel:	Independently adjustable accel. & decel. ramps
	Time range	0.00 to 600.0 Seconds
	Keypad speed control	Yes
	Sink/source inputs	Source, 24 VDC logic
	Electronic overload trip	Electronic motor overload inverse 150% for 1 minute or 175% for 2 seconds
Communications	Built-in Modbus-RTU (RS-485) communications	
PI control	Built-in	
Protective features	Under voltage	Level depends on voltage class
	Output short circuit	Phase-to-phase on drive output
	Over temperature	Heat sink monitor
	DC bus overvoltage	DC bus level trip
	Drive overload	Exceed drive rating of 150% for one minute or 175% for 2 seconds
	Over current	Over-current/short-circuit protection
	Output phase	Trips on open output phase
	Loss of reference	Trips on loss of speed command signal
Communication error	Detects a communication error (fault)	
Agency certifications		UL, cUL, CE, C-tick, gost
Service conditions	Altitude	1,000 m (3,300 ft.), derate by 1% per 100M up to 2,000 on maximum
	Ambient temperature	-10°C (14°F) to 50°C (102°F)
	Storage temperature:	-40°C (-40°F) to 60°C (140°F)
	Relative humidity	10% to 95%, non-condensing

ACS255 IP20 micro drive

Ratings and types

Type designation

This is the unique reference number (shown above and in the first column, below) that clearly identifies your drive by power rating and frame size. Once the drive's type designation has been selected, the frame size (column 7) can be used to determine the drive dimensions, shown on the next page.

Voltages

ACS255 is available in two voltage ranges:

1 = 110 to 120 V

6 = 500 to 600 V

Insert either "1" or "6", depending on your chosen voltage, into the type designation shown above.

Construction

"01U" within the type designation (shown above) varies depending on the drive phase and EMC filtering. Choose below the one you need.

01	=	1-phase
03	=	3-phase
U	=	No EMC filter

Type code	Braking chopper (included)	P _N	P _N	Output current I _{2N} A	Weight lbs	Frame size
		HP	kW			
1-phase supply voltage 110 to 120 V, +/-10%, 3-phase output 200 to 240 V						
ACS255-01U-02A3-1	---	0.5	0.37	2.3	2.2	E1
ACS255-01U-04A3-1	---	1	0.75	4.3	2.2	E1
ACS255-01U-05A8-1	STD	1.5	1.1	5.8	3.75	E2
3-phase supply voltage 500 to 600 V, +/-10%						
ACS255-03U-02A1-6	STD	1	0.75	2.1	4.0	P2
ACS255-03U-03A1-6	STD	2	1.5	3.1	4.0	P2
ACS255-03U-04A1-6	STD	3	2.2	4.1	4.0	P2
ACS255-03U-06A5-6	STD	5	4.0	6.5	4.0	P2
ACS255-03U-09A0-6	STD	7.5	5.5	9	4.0	P2
ACS255-03U-12A0-6	STD	10	7.5	12	7.7	P3
ACS255-03U-17A0-6	STD	15	11	17	7.7	P3
ACS255-03U-22A0-6	STD	20	15	22	7.7	P3

Notes:

I_{2N}: continuous base current with 110% overload for 1 minute / 10 minutes. P_N: Typical motor power for most 4-pole NEMA motors in normal use.

ACS255 IP66 micro drive

Overview

Screws, mixers, pumps, fans and conveyors are commonly installed in harsh environments containing dust, moisture and chemicals. The IP66/NEMA 4X ACS255 was designed to thrive in these types of conditions. The drive's design and ease of setup benefit a broad range of industries that require machine mounted drives.

Hygienic protection

The drive was designed with materials that meet stringent hygiene standards, preventing the drive from trapping bacteria. The integrated keypad provides straightforward drive commissioning and maintenance in extreme environments. The drive's sealed ABS enclosure and corrosion-resistant heat sink are ideal for wash-down applications.

Main features

- Built-in macros and only the essential parameters make commissioning straightforward
- Can be mounted directly on processing equipment installed in extreme environments
- Conduit cable entry
- Intuitive keypad control
- Optional switch features; speed potentiometer,
- FWD-OFF-REV and disconnect switches
- IP66/NEMA 4X dust and waterproof design
- Designed for wash-down applications
- Specially coated corrosion-resistant heat sink
- Sealed top cover with separate terminal access cover provides ready access without exposing components
- Widely spaced heat sink fans with no external fans to fail or get clogged in washdown environments
- Modbus-RTU fieldbus as standard
- Built-in brake chopper (except frame E1)
- Safe torque off function (SIL2) which can be used as emergency stop or to prevent unexpected startup (600 V only)
- Open loop vector speed and vector torque control mode for AC induction and permanent magnet motors - all ACS255 drives
- Operating Mode Select quickly configures current limit, torque characteristic and spin start parameters for Industrial, Pump, or Fan applications

Applications

- Variable torque, constant torque or constant horsepower applications in harsh environments or requiring on machine mounting

Capabilities

- NEMA 4X IP66 enclosure for indoor use
- V/Hz control with peak overload capacity of 175%
- Embedded Modbus-RTU
- Intuitive integrated keypad
- Designed to be easy to program for simple machine interface local control & disconnect

ACS255 IP66 micro drive

Data Sheet

Performance features	Control modes	115-460 VAC: V/Hz and open loop vector 600 VAC: V/Hz and open loop vector
	Operator interface module	Integral drive mounted
	Display lines	6-character LED display
	Programmable preset speeds	Four
	Analog output: one	One (0-10 VDC)
	Auto restart	Yes- Up to 5 attempts
	Frequency avoidance	One band
	Fault history	Last four faults
	Digital Inputs: four	Three configurable inputs
	Digital inputs type	Pull-up
Drive specifications	Analog inputs: two	0-10 VDC, 4 to 20mA
	Relay output: one	One built-in form C relay
	Analog output / digital output	0-10 VDC: one analog usable for meter (freq., current, voltage) or digital output
	Maximum load	5 HP @ 230 VAC, 10 HP @ 460 VAC, 15 HP @ 600 VAC
	Overload capacity	Drive output 150% for one minute and 175% for 2 seconds
	Input voltage ranges	115 VAC (99-126); 230 VAC (198-264); 460 VAC (342-528); 600 VAC (450-660)
	Rated input frequency	50-60 Hz (±5%)
	Carrier frequency	4-32 kHz (8 kHz default)
	Operating temperature	-10° to 40°C
	Snubber (dynamic braking)	Built-in transistor (frames 2 and 3)
	Dynamic braking external	Up to 150% dynamic braking with appropriately sized resistor
	DC injection braking	Included
	Volts/Hz	Linear V/Hz, user defined, energy optimizer & boost function
	Sensorless vector	Speed and torque with autotune for AC induction and permanent magnet motors
	Frequency control range	0-500 Hz
	Accel/decel:	Independently adjustable accel. & decel. ramps
	Time range	0.00 to 600.0 seconds
	Keypad speed control	Yes
	Sink/source inputs	Source, 24 VDC logic
	Electronic overload trip	Electronic motor overload inverse 150% for 1 minute or 175% for 2 seconds
Communications	Built-in Modbus-RTU (RS-485) communications	
PI control	Built-in	
Protective features	Under voltage	Level depends on voltage class (120, 240, 480, or 575)
	Output short circuit	Phase-to-phase on drive output
	Over temperature	Heat sink monitor
	DC bus overvoltage	DC Bus level trip
	Drive overload	Exceed drive rating of 150% for one minute or 175% for 2 seconds
	Over current	Over-current/short-circuit protection
	Output phase	Trips on open output phase
	Loss of reference	Trips on loss of speed command signal
	Communication error	Detects a communication error (fault)
Agency certifications	UL, cUL, CE, C-tick, Gost	
Service conditions	Altitude	1,000 m (3,300 ft.), derate by 1% per 100M up to 2,000m maximum
	Ambient temperature	-10°C (14°F) to 40°C (122°C)
	Storage temperature:	-40°C (-40°F) to 60°C (140°F)
	Relative humidity	10% to 95%, non-condensing
	Intermittent overload	150% overload capacity for up to 1 minute, 175% overload capacity for up to 2 seconds

ACS255 IP66 micro drive

Ratings and types

Type designation

This is the unique reference number (shown above and in the first column, below) that clearly identifies your drive by power rating and frame size. Once the drive's type designation has been selected, the frame size (column 7) can be used to determine the drive dimensions, shown on the next page.

Voltages

ACS255 is available in two voltage ranges:

- 1 = 110 to 120 V
- 2 = 200 to 240 V
- 4 = 380 to 480 V
- 6 = 500 to 600 V

Insert either "1", "2", "4" or "6", depending on your chosen voltage, into the type designation shown above.

Construction

"01U" within the type designation (shown above) varies depending on the drive phase and EMC filtering. Choose below the one you need.

- 01 = 1-phase
 - 03 = 3-phase
 - U = No EMC filter
- F278 = Operator controls: Disconnect, FWD/
REV/OFF selector, Speed Potentiometer

ACS255 IP66 micro drive

Ratings and types

Type code	Braking chopper (included)	P _N	P _N	Output current	Weight	Frame size
		HP	kW	I _{2N} A	lb	
1-phase supply voltage 110 to 120V, +/-10%, 3-phase output 200 to 240 V						
ACS255-01U-02A3-1+B063(+F278)	-	0.5	0.37	2.3	6.5	E1
ACS255-01U-04A3-1+B063(+F278)	-	1.0	0.75	4.3	6.5	E1
ACS255-01U-05A8-1+B063(+F278)	X	1.5	1.1	5.8	9.3	E2
1-phase supply voltage 200 to 240V, +/-10%, 3-phase output 200 to 240 V						
ACS255-01U-02A3-2+B063(+F278)	-	0.5	0.37	2.3	6.5	E1
ACS255-01U-04A3-2+B063(+F278)	-	1.0	0.75	4.3	6.5	E1
ACS255-01U-06A1-2+B063(+F278)	-	1.5	1.1	6.1	6.5	E1
ACS255-01U-07A0-2+B063(+F278)	-	2.0	1.5	7.0	6.5	E1
ACS255-01U-10A5-2+B063(+F278)	X	3.0	2.2	10.5	9.3	E2
ACS255-01U-15A3-2+B063(+F278)	X	5.0	3.7	15.3	17.0	E3
3-phase supply voltage 200 to 240 V, +/-10%						
ACS255-03U-02A3-2+B063(+F278)	-	0.5	0.37	2.3	6.5	E1
ACS255-03U-04A3-2+B063(+F278)	-	1.0	0.75	4.3	6.5	E1
ACS255-03U-06A1-2+B063(+F278)	-	1.5	1.10	6.1	6.5	E1
ACS255-03U-07A0-2+B063(+F278)	X	2.0	1.5	7.0	9.3	E2
ACS255-03U-10A5-2+B063(+F278)	X	3.0	2.2	10.5	9.3	E2
ACS255-03U-18A0-2+B063(+F278)	X	5.0	4.0	18.0	17.0	E3
ACS255-03U-24A0-2+B068(+F278)	X	7.5	5.5	24.0	17.0	E3
ACS255-03U-30A0-2+B068(+F278)	X	10	7.5	30.0	19.8	E4
ACS255-03U-046A-2+B068(+F278)	X	15	11	46.0	19.8	E4
3-phase supply voltage 380 to 480 V, +/-10%						
ACS255-03U-01A2-4+B063(+F278)	-	0.5	0.37	1.2	6.5	E1
ACS255-03U-02A2-4+B063(+F278)	-	1.0	0.75	2.2	6.5	E1
ACS255-03U-03A3-4+B063(+F278)	-	1.5	1.1	3.3	6.5	E1
ACS255-03U-04A1-4+B063(+F278)	-	2.0	1.5	4.1	6.5	E1
ACS255-03U-05A8-4+B063(+F278)	X	3.0	2.2	5.8	9.3	E2
ACS255-03U-09A5-4+B063(+F278)	X	5.0	4.0	9.5	9.3	E2
ACS255-03U-14A0-4+B063(+F278)	X	7.5	5.5	14.0	17.0	E3
ACS255-03U-18A0-4+B063(+F278)	X	10.0	7.5	18.0	17.0	E3
ACS255-03U-24A0-4+B068(+F278)	X	15	11	24.0	17.0	E3
ACS255-03U-30A0-4+B068(+F278)	X	20	15	30.0	19.8	E4
ACS255-03U-39A0-4+B068(+F278)	X	25	18.5	39.0	19.8	E4
ACS255-03U-46A0-4+B068(+F278)	X	30	22	46.0	19.8	E4
3-phase supply voltage 500 to 600 V, +/-10%						
ACS255-03U-02A1-6+B063(+F278)	X	1.0	0.75	2.1	10.6	P2
ACS255-03U-03A1-6+B063(+F278)	X	2.0	1.5	3.1	10.6	P2
ACS255-03U-04A1-6+B063(+F278)	X	3.0	2.2	4.1	10.6	P2
ACS255-03U-06A5-6+B063(+F278)	X	5.0	4.0	6.5	10.6	P2
ACS255-03U-09A0-6+B063(+F278)	X	7.5	5.5	9.0	10.6	P2
ACS255-03U-12A0-6+B063(+F278)	X	10.0	7.5	12.0	16.1	P3
ACS255-03U-17A0-6+B063(+F278)	X	15.0	11.0	17.0	16.1	P3

P_N for kW = Typical motor power in 400 V at normal use

P_N for hp = Typical motor power in 460 V at normal use

I_{2N} for A = Continuous rms current. 50% overload is allowed for one minute in ten minutes.

Fuses and cable sizes

The following table provides the output current rating information for the various ACS255 models. ABB Drives always recommend that selection of the correct ACS255 is based upon the motor full load current at the incoming supply voltage.

Cable dimensioning for nominal rated currents is shown in the table below together with the corresponding fuse types for short-circuit protection of the input power cable.

The rated fuse currents given in the table are the maximums for the mentioned fuse types. If smaller

fuse ratings are used, check that the fuse rms current rating is larger than the nominal input current. If 150% output power is needed, multiply nominal input current by 1.5.

Check that the operating time of the fuse is below 0.5 seconds. The operating time depends on the fuse type, the supply network impedance as well as the cross-sectional area, material and length of the supply cable. In case the 0.5 seconds operating time is exceeded with the gG or T fuses, ultra rapid (aR) fuses in most cases reduce the operating time to an acceptable level.

Type Code	Power	Fuse		Maximum Supply and PE Cable Size		Nominal Output Current A	Motor Cable Size		Max Motor Cable Length m	Frame Size
		HP	A	mm ²	AWG		mm ²	AWG		
		gG	UL Class CC or J							
1-phase 110V...115V AC (+/-10%) - 3 Phase 230V Output										
ACS255-01U-02A3-1	0.5	10	10	8	8	2.3	1.5	14	100	E1
ACS255-01U-04A3-1	1	25	20	8	8	4.3	1.5	14	100	E1
ACS255-01U-05A8-1	1.5	32	30	8	8	5.8	1.5	14	100	E2
1-phase 200...240V AC (+/-10%) - 3 Phase Output										
ACS255-01U-02A3-2	0.5	10	6	8	8	2.3	1.5	14	100	E1
ACS255-01U-04A3-2	1	10	10	8	8	4.3	1.5	14	100	E1
ACS255-01U-06A1-2	1.5	16	15	8	8	6.1	1.5	14	100	E1
ACS255-01U-07A0-2	2	16	17.5	8	8	7	1.5	14	100	E2
ACS255-01U-10A5-2	3	25	25	8	8	10.5	1.5	14	100	E2
ACS255-01U-15A3-2	5	40	40	8	8	15.3	4	10	100	E3
3-phase 200...240V AC (+/-10%) - 3 Phase Output										
ACS255-03U-02A3-2	0.5	6	6	8	8	2.3	1.5	14	100	E1
ACS255-03U-04A3-2	1	10	10	8	8	4.3	1.5	14	100	E1
ACS255-03U-06A1-2	1.5	10	15	8	8	6.1	1.5	14	100	E1
ACS255-03U-07A0-2	2	16	15	8	8	7	1.5	14	100	E2
ACS255-03U-10A5-2	3	16	17.5	8	8	10.5	1.5	14	100	E2
ACS255-03U-18A0-2	5	32	30	8	8	18	2.5	10	100	E3
ACS255-03U-24A0-2	7.5	40	35	8	8	24	4	10	100	E4
ACS255-03U-30A0-2	10	40	45	16	5	30	6	8	100	E4
ACS255-03U-46A0-2	15	63	70	16	5	46	10	6	100	E4

Notes:

- 1) Larger fuses must not be used when the input power cable is selected according to this table.
- 2) For UL compliant installation, use Copper wire with a minimum insulation temperature rating of 70°C, UL Class CC or Class J Fuses
- 3) Other fuse types can be used if they meet the ratings and the melting curve of the fuse does not exceed the melting curve of the fuse mentioned in this table.
- 4) The maximum motor cable length stated applies to using a shielded motor cable. When using an unshielded cable, the maximum cable length limit may be increased by 50%. When using the ABB Drives recommended output choke, the maximum cable length may be increased by 100%
- 5) The PWM output switching from any inverter when used with a long motor cable length can cause an increase in the voltage at the motor terminals, depending on the motor cable length and inductance. The rise time and peak voltage can affect the service life of the motor. ABB Drives recommend using an output choke for motor cable lengths of 50m or more to ensure good motor service life

Fuses and cable sizes

Type Code	Power HP	Fuse		Maximum Supply and PE Cable Size		Nominal Output Current A	Motor Cable Size		Max Motor Cable Length m	Frame Size
		gG	UL Class CC or J	mm ²	AWG		mm ²	AWG		
3-phase 380...480V AC (+/-10%) - 3 Phase Output										
ACS255-03U-01A2-4	0.5	6	6	8	8	1.2	1.5	14	100	E1
ACS255-03U-02A2-4	1	6	6	8	8	2.2	1.5	14	100	E1
ACS255-03U-03A3-4	1.5	10	10	8	8	3.3	1.5	14	100	E1
ACS255-03U-04A1-4	2	10	10	8	8	4.1	1.5	14	100	E2
ACS255-03U-05A8-4	3	16	10	8	8	5.8	1.5	14	100	E2
ACS255-03U-09A5-4	5	16	15	8	8	9.5	1.5	14	100	E2
ACS255-03U-14A0-4	7.5	25	25	8	8	14	1.5	12	100	E3
ACS255-03U-18A0-4	10	32	30	8	8	18	2.5	10	100	E3
ACS255-03U-24A0-4	15	40	35	8	8	24	4	10	100	E4
ACS255-03U-30A0-4	20	40	45	16	5	30	6	8	100	E4
ACS255-03U-39A0-4	25	50	60	16	5	39	10	8	100	E4
ACS255-03U-46A0-4	30	63	70	16	5	46	10	6	100	E4
3-phase 500...600V AC (+/-10%) - 3 Phase Output										
ACS255-03U-02A1-6	1	10	6	1.5	14	2.1	1.5	14	100	P2
ACS255-03U-03A1-6	2	10	6	1.5	14	3.1	1.5	14	100	P2
ACS255-03U-04A1-6	3	10	10	1.5	14	4.1	1.5	14	100	P2
ACS255-03U-06A5-6	5	10	10	1.5	14	6.5	1.5	14	100	P2
ACS255-03U-09A0-6	7.5	16	15	2.5	12	9	1.5	14	100	P2
ACS255-03U-12A0-6	10	25	20	4	10	12	1.5	14	100	P3
ACS255-03U-17A0-6	15	25	25	4	8	17	2.5	10	100	P3
ACS255-03U-22A0-6	20	40	35	10	8	22	4	10	100	P3

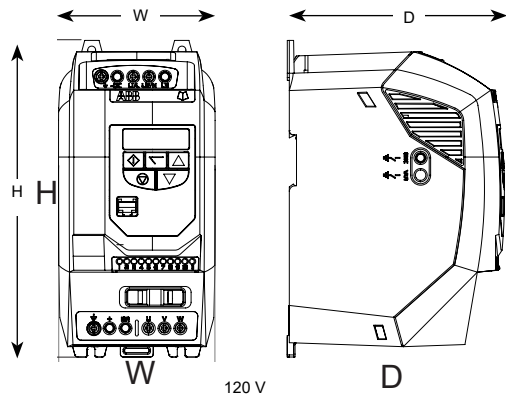
Notes

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- 1) Larger fuses must not be used when the input power cable is selected according to this table.
- 2) For UL compliant installation, use Copper wire with a minimum insulation temperature rating of 70°C, UL Class CC or Class J Fuses
- 3) Other fuse types can be used if they meet the ratings and the melting curve of the fuse does not exceed the melting curve of the fuse mentioned in this table.
- 4) The maximum motor cable length stated applies to using a shielded motor cable. When using an unshielded cable, the maximum cable length limit may be increased by 50%. When using the ABB Drives recommended output choke, the maximum cable length may be increased by 100%
- 5) The PWM output switching from any inverter when used with a long motor cable length can cause an increase in the voltage at the motor terminals, depending on the motor cable length and inductance. The rise time and peak voltage can affect the service life of the motor. ABB Drives recommend using an output choke for motor cable lengths of 50m or more to ensure good motor service life

ACS255 IP20 micro drive

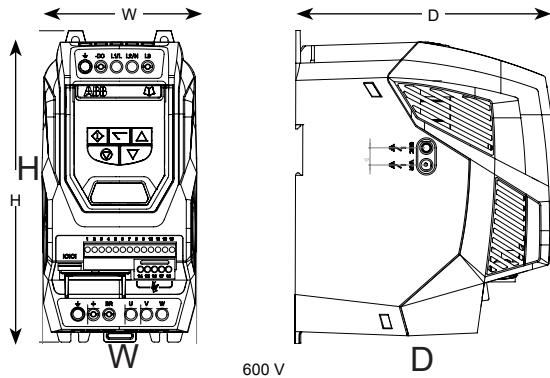
Dimensions and weights



IP20 120V

Frame size	Height		Width		Depth		Weight		Dimension drawing
	in	mm	in	mm	in	mm	lb	kg	
E1	6.81	173	3.23	82	4.84	123	2.20	1	3AXD10000598750
E2	8.70	221	4.29	109	5.91	150	3.75	1.70	3AXD10000598752

H = Height
W = Width
D = Depth



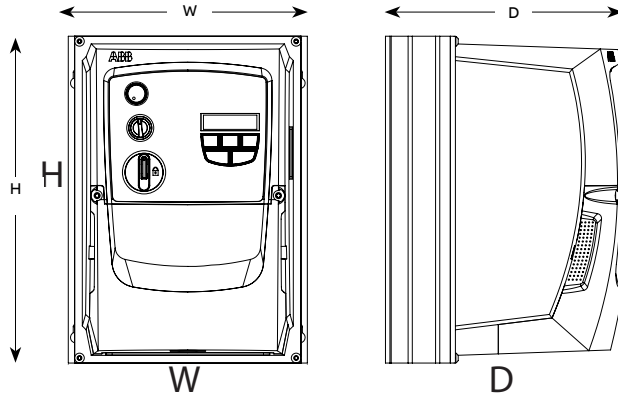
IP20 600V

Frame size	Height		Width		Depth		Weight		Dimension drawing
	in	mm	in	mm	in	mm	lb	kg	
P2	8.70	221	4.41	112	7.28	185	4	1.80	3AXD10000598764
P3	10.28	261	5.16	131	8.07	205	7.70	3.50	3AXD10000598766

H = Height
W = Width
D = Depth

ACS255 IP66 micro drive

Dimensions and weights



120, 240, 480 V

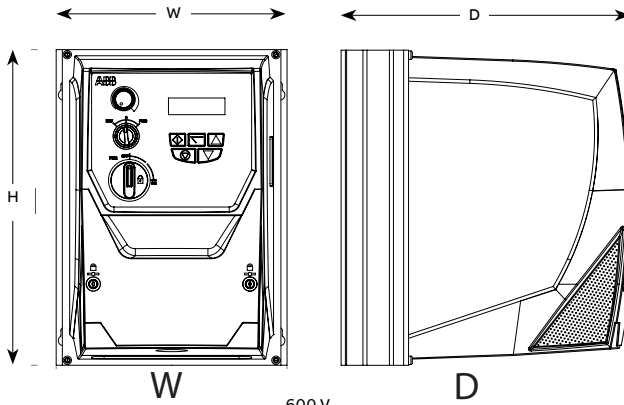
IP66 120, 240, 480V

Frame size	Height		Width		Depth		Weight		Dimension drawing
	in	mm	in	mm	in	mm	lb	kg	
E1	9.13	232	6.34	161	7.05	179	6.50	2.95	3AXD10000598754
E2	10.12	257	7.40	188	7.34	186	9.26	4.20	3AXD10000598755
E3	12.20	310	8.29	210	9.00	229	16.97	7.70	3AXD10000598756
E4	14.17	360	9.45	240	10.63	270	19.84	9.0	3AXD10000598757

H = Height

W = Width

D = Depth



600 V

IP66 600V

Frame size	Height		Width		Depth		Weight		Dimension drawing
	in	mm	in	mm	in	mm	lb	kg	
P2	10.12	257	7.40	188	9.41	239	10.60	4.80	3AXD10000274017
P3	12.20	310	8.29	211	9.88	251	16.10	7.30	3AXD10000274018

H = Height

W = Width

D = Depth

Cooling

Cooling air flow for IP20 drives

IP20 drives are designed to be installed in a protective enclosure. Heat dissipation and air flow values are given to assist with sizing enclosure sizes and cooling provisions. ACS255 drives 1 HP and above are fitted with heat sink cooling fans as standard. Drives below 1 HP do not have an

internal cooling fan and rely on natural convection to cool the internal components. The cooling air must be free from corrosive substances and must not be above the maximum ambient temperature of 40 °C (50 °C with derating on IP20 drives only). For more specific limits see the individual Data Sheet pages (for IP20 & IP66 drives) in this catalog.

Cooling air flow

Type designation	Frame size	Heat dissipation		Air flow	
		W	BTU/hr	m ³ /h	ft ³ /min
1-phase AC supply, 110 to 120 V					
ACS255-01U-02A3-1	E1	11	38	19	11
ACS255-01U-04A3-1	E1	23	77	19	11
ACS255-01X-05A8-1	E2	33	113	44	26
3-phase AC supply, 500 to 600 V					
ACS255-03U-02A1-6	P2	23	77	19	11
ACS255-03U-03A1-6	P2	45	154	19	11
ACS255-03U-04A1-6	P2	66	225	19	11
ACS255-03U-06A5-6	P2	120	409	19	11
ACS255-03U-09A0-6	P2	165	563	19	11
ACS255-03U-12A0-6	P3	225	768	44	26
ACS255-03U-17A0-6	P3	330	1126	44	26
ACS255-03U-22A0-6	P3	450	1535	44	26

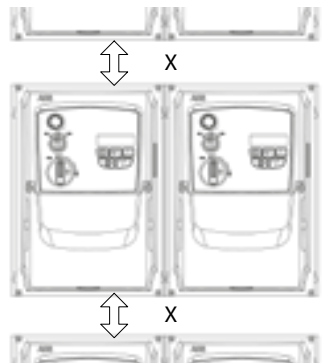
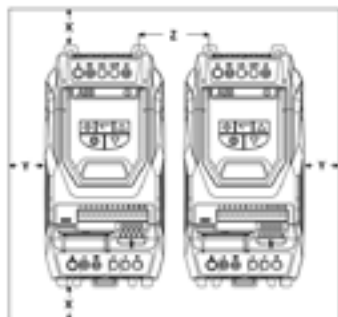
Note: IP66 drives are designed to be mounted outside of an enclosure. The heat sink is designed for maximum cooling with natural convected airflow.

Free Space Requirements

Enclosure Type	Frame size	Space Above & Below (X)		Space Either Side (Y)		Space Between (Z) ¹	
		in	mm	in	mm	in	mm
IP20	1	1.97	50	1.97	50	1.30	33
IP20	2	2.95	75	1.97	50	1.81	46
IP20	3	3.94	100	1.97	50	2.05	52
IP66	All	7.87	200	0.39	10	0	0

Notes:

- 1) Dimension Z assumes that the drives are mounted side by side with no clearance. For the IP66 drives, can be installed side-by-side with the heatsink flanges touching. This gives adequate ventilation space between drives.
- 2) Drive must be installed on a vertical flat surface that is able to support the weight of the drive.
- 3) Spacing requirements are guidelines only and do not take into account other sources of heat in the environment. Operating ambient temperature of the drive must be maintained at all times.



Options

Model	Code	Field kit	Description
RCCS-02 copying tool	N/A	RCCS-02	Copy stick, which is used to upload and download the parameters through RJ45 connection Parameters can only be copied between drives of the same product range and power rating (size)
RCRO-01 relay output card	N/A	RCRO-01	The second relay output module can be used in applications where the analog output from the drive is converted to a relay output. Max relay switching voltage: 255 VAC/220 VDC Max relay switching current: 1A Max input voltage: +/- 50 VDC Environmental: -10°C ... +50°C Conformity: IP00, UL94V-0 Not compatible with 600 V drives
RCRP-02 external LED keypad	N/A	RCRP-02	Remote keypad that can be added through RJ45 connection. Signal interface: standard 6-way RJ45 connector Supply input: 10V ... 36 VDC, 30mA RS485 signal: industry standard 2-wire +5V differential Environmental: operational 0 ... 50 °C Storage: -40°C ... 60°C Relative humidity: < 95% (non condensing) Protection rating: IP54 Max cable length: 20m (unscreened, total length) 100m (screened, twisted pair, total length)
RCRJ-01 RJ45 Y-cable splitter	N/A	RCRJ-01	The data cable splitter is a 3-way "Y" cable splitter suitable for a RS-485 network of drives. The option is compatible with standard CAT 5 or CAT 6 type cable and can be used for Modbus-RTU or an RS-485 remote keypad network.
RCNT-01 RJ45 Y-cable splitter w/ term.	N/A	RCNT-01	The data cable splitter with terminal block is a 3-way "Y" cable splitter with one terminal block suitable for an RS-485 network of drives. Two of the three connections are compatible with standard CAT 5 or CAT 6 type cable and the third is a terminal block that can be used to connect a PLC or network terminating resistor.
ACS255 democase	N/A	ACS255-IP20 DEMOCASE	Powered by 115 VAC, the program case does includes an ACS255 drive and IO board with switches, speed potentiometer and LED. Ideal for demonstrating the programability of the ACS255. There is no motor included in this democase
N/A	+F278	N/A	Operator controls assembled on the front cover of the drive: Disconnect, FWD/OFF/REV selector, and speed potentiometer. Available on IP66 drives only.

NOTE:

- 1) Options are shipped separately and not available pre-assembled on the drive unless noted with a plus code.
- 2) ACS255 not compatible with previously offered RCRP-01. Use RCRP=01 only with ACS250.

Braking resistors

Single-phase 100-120 V and 200-240V applications, stopping duty only

100-120 V

Type CR resistors (available for the small HP drives as listed below)

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-01U-05A8-1	1.5	P14494-CR-06	50	100	P14494-CR-18	50	200
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-01U-05A8-1	1.5	P14494-CR-24	50	300	P14494-CR-32	50	400

Standard enclosed resistor packages

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-01U-05A8-1	1.5	P14494-24	45	300	P14494-24	45	300
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-01U-05A8-1	1.5	P14494-24	45	300	P14494-24	45	300

Notes: To determine resistor type, dimensions and weights refer to Resistor Technical Data Tables

200-240 V

Type CR resistors (available for the small HP drives as listed below)

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-01U-10A5-2	3	P14494-CR-12	50	150	P14494-CR-24	50	300
ACS255-01U-15A3-2	5	P14494-CR-54	18	300	P14494-CR-56	18	500
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-01U-10A5-2	3	P14494-CR-32	50	400			

Standard enclosed resistor packages

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-01U-10A5-2	3	P14494-24	45	300	P14494-24	45	300
ACS255-01U-15A3-2	5	P14494-73	30	350	ABB-48431-080	30	800
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-01U-10A5-2	3	P14494-25	45	800	P14494-32	45	800
ACS255-01U-15A3-2	5	ABB-48431-080	30	800	P14494-60	30	1050

Notes: To determine resistor type, dimensions and weights refer to Resistor Technical Data Tables

Braking resistors

Three-phase 200-240 V applications, stopping duty only

Type CR resistors (available for the small HP drives as listed below)

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-07A0-2	2	P14494-CR-06	50	100	P14494-CR-18	50	200
ACS255-03U-10A5-2	3	P14494-CR-12	50	150	P14494-CR-24	50	300
ACS255-03U-18A0-2	5	P14494-CR-26	40	300	P14494-CR-34	40	400
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-07A0-2	2	P14494-CR-24	50	300	P14494-CR-32	50	400
ACS255-03U-10A5-2	3	P14494-CR-32	50	400			

Standard enclosed resistor packages

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-03U-07A0-2	2	P14494-31	35	300	P14494-31	35	300
ACS255-03U-10A5-2	3	P14494-31	35	300	P14494-31	35	300
ACS255-03U-18A0-2	5	P14494-73	30	350	ABB-48431-080	30	800
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-01U-07A0-2	2	P14494-31	35	300	P14494-32	35	820
ACS255-01U-10A5-2	3	P14494-32	35	820	P14494-32	35	820
ACS255-03U-18A0-2	5	ABB-48431-080	30	800	P14494-60	30	1050

Notes: To determine resistor type, dimensions and weights refer to Resistor Technical Data Tables

Braking resistors

Three-phase 380-480 V applications, stopping duty only

Type CR resistors (available for the small HP drives as listed below)

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-04A1-4	2	P14494-CR-03	150	100	P14494-CR-15	150	200
ACS255-03U-05A8-4	3	P14494-CR-11	100	150	P14494-CR-22	100	300
ACS255-03U-09A5-4	5	P14494-CR-22	100	300	P14494-CR-30	100	400
ACS255-03U-14A0-4	7.5	P14494-CR-32	50	400			
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-04A1-4	2	P14494-CR-21	150	300	P14494-CR-29	150	400
ACS255-03U-05A8-4	3	P14494-CR-30	100	400			

Standard enclosed resistor packages

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-03U-04A1-4	2	P14494-15	150	300	P14494-15	150	300
ACS255-03U-05A8-4	3	P14494-15	150	300	P14494-15	150	300
ACS255-03U-09A5-4	5	P14494-19	75	300	P14494-20	75	600
ACS255-03U-14A0-4	7.5	P14494-25	45	800	P14494-25	45	800
ACS255-03U-18A0-4	10	P14494-25	45	800	P14494-26	45	1260
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-03U-04A1-4	2	P14494-15	150	300	P14494-16	150	600
ACS255-03U-05A8-4	3	P14494-16	150	600	P14494-16	150	600
ACS255-03U-09A5-4	5	P14494-20	75	600	P14494-21	75	1000
ACS255-03U-14A0-4	7.5	P14494-26	45	1260	P14494-27	45	1920
ACS255-03U-18A0-4	10	P14494-26	45	1260	P14494-27	45	1920

Notes: To determine resistor type, dimensions and weights refer to Resistor Technical Data Tables

Braking resistors

Three-phase 575-600 V applications, stopping duty only

Type CR resistors (available for the small HP drives as listed below)

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-02A1-6	1.5	P14494-CR-02	200	100	P14494-CR-13	250	200
ACS255-03U-03A1-6	2	P14494-CR-08	250	150	P14494-CR-19	250	300
ACS255-03U-04A1-6	3	P14494-CR-22	100	300	P14494-CR-30	100	400
ACS255-03U-06A5-6	5	P14494-CR-22	100	300			
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		CR part no.	Ohms	Watts	CR part no.	Ohms	Watts
ACS255-03U-02A1-6	1.5	P14494-CR-19	250	300	P14494-CR-27	250	400
ACS255-03U-03A1-6	2	P14494-CR-19	250	300	P14494-CR-27	250	400
ACS255-03U-04A1-6	3	P14494-CR-27	250	400			

Standard enclosed resistor packages

Drive type code	HP	DutyCycle=3sec on/27sec off			DutyCycle=10sec on/50sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-03U-02A1-6	1.5	P14494-11	250	300	P14494-11	250	300
ACS255-03U-03A1-6	2	P14494-11	250	300	P14494-11	250	300
ACS255-03U-04A1-6	3	P14494-11	250	300	P14494-11	250	300
ACS255-03U-06A5-6	5	P14494-15	150	300	P14494-16	150	600
ACS255-03U-09A0-6	7.5	P14494-20	75	600	P14494-20	75	600
ACS255-03U-12A0-6	10	P14494-66	60	700	P14494-67	60	1200
ACS255-03U-17A0-6	15	P14494-32	35	820	P14494-33	35	1200
ACS255-03U-22A0-6	20	P14494-33	35	1200	P14494-38	35	1865
Drive type code	HP	DutyCycle=30sec on/180sec off			DutyCycle=60sec on/180sec off		
		Resistor part no.	Ohms	Watts	Resistor part no.	Ohms	Watts
ACS255-03U-02A1-6	1.5	P14494-11	250	300	P14494-11	250	300
ACS255-03U-03A1-6	2	P14494-11	250	300	P14494-12	250	600
ACS255-03U-04A1-6	3	P14494-12	250	600	P14494-12	250	600
ACS255-03U-06A5-6	5	P14494-16	150	600	P14494-18	150	1200
ACS255-03U-09A0-6	7.5	P14494-21	75	1000	P14494-22	80	1600
ACS255-03U-12A0-6	10	P14494-67	60	1200	P14494-69	60	2000
ACS255-03U-17A0-6	15	P14494-38	35	1865	P14494-36	35	3600
ACS255-03U-22A0-6	20	P14494-35	35	2500	P14494-45	21	4400

Notes: To determine resistor type, dimensions and weights refer to Resistor Technical Data Tables

Resistor technical data

Part number	Ohms	Watts	Encl	Dimensions W x D x H (inches)	Weight (lbs)
P14494-11	255	300	GCE1	12W x 5D x 5H	7
P14494-12	255	600	GCE2	12W x 7D x 5H	10
P14494-13	200	300	GCE1	12W x 5D x 5H	7
P14494-14	200	600	GCE2	12W x 7D x 5H	10
P14494-15	150	300	GCE1	12W x 5D x 5H	7
P14494-16	150	600	GCE2	12W x 7D x 5H	10
P14494-18	150	1200	GCE4	12W x 13D x 5H	16
P14494-19	75	300	GCE1	12W x 5D x 5H	7
P14494-20	75	600	GCE2	12W x 7D x 5H	10
P14494-21	75	1000	GCE3	12W x 10D x 5H	13
P14494-25	45	800	GCE2	12W x 7D x 5H	10
P14494-26	45	1260	GCE3	12W x 10D x 5H	13
P14494-27	45	1920	GCE5	12W x 16D x 5H	18
P14494-31	35	300	GCE1	12W x 5D x 5H	7
P14494-32	35	820	GCE2	12W x 7D x 5H	10
P14494-34	35	1600	GCE4	12W x 13D x 5H	16
P14494-CR-02	200	100	CR100	6W x 1.5D x 0.75H	1
P14494-CR-03	150	100	CR100	6W x 1.5D x 0.75H	1
P14494-CR-06	50	100	CR100	6W x 1.5D x 0.75H	1
P14494-CR-08	255	150	CR150	9W x 1.5D x 0.75H	1
P14494-CR-11	100	150	CR150	9W x 1.5D x 0.75H	1
P14494-CR-12	50	150	CR150	9W x 1.5D x 0.75H	1
P14494-CR-13	255	200	CR200	6W x 3D x 1.5H	2
P14494-CR-15	150	200	CR200	6W x 3D x 1.5H	2
P14494-CR-18	50	200	CR200	6W x 3D x 1.5H	2
P14494-CR-19	255	300	CR300	9W x 3D x 1.5H	3
P14494-CR-21	150	300	CR300	9W x 3D x 1.5H	3
P14494-CR-22	100	300	CR300	9W x 3D x 1.5H	3
P14494-CR-24	50	300	CR300	9W x 3D x 1.5H	3
P14494-CR-26	40	300	CR300	9W x 3D x 1.5H	3
P14494-CR-27	255	400	CR400	12W x 3D x 1.5H	4
P14494-CR-29	150	400	CR400	12W x 3D x 1.5H	4
P14494-CR-30	100	400	CR400	12W x 3D x 1.5H	4
P14494-CR-31	75	400	CR400	12W x 3D x 1.5H	4
P14494-CR-32	50	400	CR400	12W x 3D x 1.5H	4
P14494-CR-34	40	400	CR400	12W x 3D x 1.5H	4
ABB-48431-052	80	800	GCE2	12W x 7D x 5H	10
P14494-63	80	1050	GCE3	12W x 10D x 5H	13
P14494-62	63	800	GCE2	12W x 7D x 5H	10
ABB-48431-140	63	1200	GCE3	12W x 10D x 5H	13
ABB-41163	35	900	GCE3	12W x 10D x 5H	13
P14494-34	35	1600	GCE4	12W x 13D x 5H	16
P14494-33	35	1200	GCE3	12W x 10D x 5H	13
ABB-44534	40	2010	GCE5	12W x 16D x 5H	18

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