

CR101H, CR101Y manual motor starters

Single-phase

1 Hp maximum @ 115 V or 230 V

¾ Hp maximum @ 277 V for 2-pole forms

25-60 Hz

CR101H, CR101Y

Open starters include an unmounted nameplate. Heaters can be selected from the table at right and ordered as a separate item. One heater is required per starter (two for 2-speed forms and for combination starter CR101H13).

Toggle-operated nonreversing open¹

No. of poles	Product number
1	CR101Y ²
2	CR101H ²

¹For flush or outlet box mounting.

²Units are individually boxed and "poly-packed" 10 per carton as standard.

Toggle-operated nonreversing enclosed NEMA type 13

No. of poles	Indicating light	Product number
1	No	CR101Y1 ²
2	No	CR101H1 ²
1	Yes	CR101Y11 ⁴
2	Yes	CR101H11 ⁴

²Units are individually boxed and "poly-packed" 10 per carton as standard.

³Surface mounting.

⁴Includes a 115/230-volt neon lamp(s). Not available at 277 volts.

Lever-operated nonreversing enclosed NEMA type 3/4/12

No. of poles	Hubs	Product Number
1	¾-Inch hub on one end	CR101Y400H
1	¾-Inch hub on one end	CR101H400H
2	¾-Inch hub on both ends	CR101Y400J
2	¾-Inch hub on both ends	CR101H400J

⁴Includes a 115/230-volt neon lamp(s). Not available at 277 volts.

Multi-speed enclosed NEMA type 1 surface mount

No. of poles	Indicating light	Product Number
1	None	CR101Y600A
1	Two	CR101Y610B ⁴
2	None	CR101H600B
2	Two	CR101H610B ⁴

⁴Includes a 115/230-volt neon lamp(s). Not available at 277 volts.

Multi-speed enclosed NEMA type 1 gray flush-plate

No. of poles	Indicating light	Product Number
1	None	CR101Y600A
1	Two	CR101Y610A ⁴
2	None	CR101H600A
2	Two	CR101H610A ⁴

⁴Includes a 115/230-volt neon lamp(s). Not available at 277 volts.

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Single-phase

1 Hp maximum @ 115 V or 230 V

¾ Hp maximum @ 277 V for 2-pole forms

25-60 Hz

Multi-speed enclosed NEMA type 1 stainless-steel flush-plate

No. of poles	Indicating light	Product number
1	None	CR101Y608A
1	Two	CR101Y618A ⁴
2	None	CR101H608A
2	Two	CR101H618A ⁴

⁴Includes a 115/230-volt neon lamp(s). Not available at 277 volts.

Combination device enclosed NEMA type 1

No. of poles	Description	Product number
2	CR101H + base unit HOA	CR101H12
2	2 (CR101H)	CR101H13

Maximum horsepower ratings — AC or DC continuous carry — 16 amperes

Product number	No. of poles	Horsepower @ 32 V AC	Horsepower @ 115 V AC	Horsepower @ 230 V AC	Horsepower @ 277 V AC	Horsepower @ 115 V DC	Horsepower @ 230 V DC
CR101Y	1	¾	1	1	—	1	¾
CR101H	2	¾	1	1	¾	1	1

Overload heater units for CR101H, Y

All CR123H heaters are packaged as single units.

The table below gives a proper size heater to trip the switch on approximately 125% motor current. Listed values are for motors with 1.15–1.25 service factor. For motors with 1.0 service factor continuously, multiply full-load current of motor by 0.9 and use this value to select heater. Contact nearest ABB Representative for recommendation on heaters to be used with definite-purpose motors. If motor full-load amperes falls between two ratings, select heater for the highest of those two. For 1.35 service factor motors, multiply full-load current of motor by 1.15 and use this value to select heater(s).

Maximum motor full-load amperes	Heater product number	Maximum motor full-load amperes	Heater product number	Maximum motor full-load amperes	Heater product number
.48	CR123H055A	1.78	CR123H205A	5.90	CR123H680A
.53	CR123H061A	1.95	CR123H224A	6.41	CR123H739A
.58	CR123H067A	2.13	CR123H245A	6.98	CR123H802A
.65	CR123H074A	2.32	CR123H267A	7.60	CR123H873A
.71	CR123H082A	2.53	CR123H291A	8.25	CR123H950A
.78	CR123H090A	2.76	CR123H317A	8.95	CR123H103B
.86	CR123H099A	3.01	CR123H346A	9.75	CR123H112B
.95	CR123H108A	3.27	CR123H377A	10.6	CR123H122B
1.04	CR123H120A	3.56	CR123H410A	11.4	CR123H132B
1.14	CR123H132A	3.88	CR123H446A	12.5	CR123H144B
1.25	CR123H144A	4.22	CR123H486A	13.6	CR123H157B
1.37	CR123H158A	4.60	CR123H529A	14.8	CR123H171B
1.49	CR123H172A	5.00	CR123H575A	16.0	CR123H186B
1.63	CR123H188A	5.43	CR123H625A		

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Enclosure components

Enclosure components — single units

Flush plates painted gray or of stainless steel are available for flush mounting of all listed open manual starters.

Safety to maintenance personnel and operators and security to equipment is provided by locking attachment, CR101X3, for use on all toggle-operated manual starter forms.

Customers can assemble CR101H1, H11, Y1, or Y11 general-purpose manual starters by adding either an open CR101H or Y manual starter to a CR101X6 back and a CR101X4 or X5 cover.

	Product description	Product number
	Flush plate with 115/230-volt indicating light and screws	CR101X1
	Standard flush plate with screws	CR101X2
	Locking attachment (lock not included)	CR101X3
	Cover (front with 115/230-volt neon indicating light and screws)	CR101X4
	Standard cover (front with screws)	CR101X5
	Enclosure back with screws (surface-mounting)	CR101X6
	Stainless-steel flush plate with 115/230-volt indicating light and screws	CR101X7
	Stainless-steel flush plate with screws	CR101X8

CR101X3 locking attachment

CR101X4 enclosure components

CR101X6 enclosure components

CR101X8 and CR101X7 stainless steel flush plates