

# ACS880-01 wall-mounted single drives with extension box

## 1 to 150 Hp / 0.75 to 112 kW



The ACS880-01 wall-mounted single drive with extension box is part of ABB's new all-compatible drives portfolio. The drives are compatible with virtually all types of AC motors, automation systems, users and business requirements.

The ACS880-01 Extension Box (+C212) takes the ACS880-01 base drive and combines it with a simple package to make installation even easier, giving you optimized energy efficiency, maximized output and simplified operation.

### **Simplifying your world without limiting your possibilities**

The ACS880 Extension Box is an ACS880-01 wall-mounted drive on a backpanel with an electrical box for additional devices. Within the box are line fuses to protect the drive. Optional devices include a local disconnect switch and control power transformer. The extension box will save cost and simplify installation because it has the input fusing and local disconnect switch that are typically required as part of the installation. It can optionally provide 120V source and digital signal interface. It is used in a variety of industries include oil and gas, chemical, mining, material handling, pulp and paper, saw mills and cement. Applications include extruders, winders, conveyors, mixers, compressors, pumps and fans. The ACS880 Extension Box is available up to 150 HP in a wall-mountable package for indoor locations in industrial environments.

### **Standard Features**

- UL (NEMA) Type 1 / IP21
- UL listed with 100 kA SCCR
- Top and bottom entry or exit
- Sturdy back panel with welded enclosure
- Line fuses to protect the drive
- Engineered for ease of service

### **Options**

- Lockable local disconnect switch
- dV/dt filter up to 10 HP (UL type 1 at 480 Vac)
- Control power transformer

### **Base Drive Features and Options**

- Standard ACS880 firmware
- Built-in line impedance
- Direct Torque Control (DTC)
- Intuitive, high resolution control display
- Built-in energy monitor
- Energy optimizer
- Fieldbus, digital/analog inputs and outputs, and motor feedback adapters
- Drive application programming software such as winder, crane and centrifuge

Technical data	
<b>Power Ratings</b>	
230 Volts AC	1 to 60 HP
460 Volts AC	1 to 150 HP
<b>Overload</b>	
110% overload for 1 minute (LD)	
150% overload for 1 minute (HD)	



230V Nominal ratings							460V Nominal ratings				
Light duty	Heavy duty	Drive Rating	Light duty	Heavy duty	Dimensions	Weight	Drive Rating	Light duty	Heavy duty	Dimensions	Weight
$P_{Ld}$ HP	$P_{Hd}$ HP		$I_{Ld}$ A	$I_{2Hd}$ A	H x W x D (inches)	Lb		$I_{Ld}$ A	$I_{2Hd}$ A	H x W x D (inches)	lb
<b>ACS880-01-xxxx-2</b>						<b>ACS880-01-xxxx-5</b>					
1	0.75	04A6	4.4	3.7	30.25 x 12.75 x 10.12	57	02A1	2.1	1.7	30.25 x 12.75 x 10.12	57
1.5	1	06A6	6.3	4.6	30.25 x 12.75 x 10.12	57	03A0	3	2.1	30.25 x 12.75 x 10.12	57
2	1.5	07A5	7.1	6.6	30.25 x 12.75 x 10.12	57	03A4	3.4	3	30.25 x 12.75 x 10.12	57
3	2	10A6	10.1	7.5	30.25 x 12.75 x 10.12	57	04A8	4.8	3.4	30.25 x 12.75 x 10.12	57
5	3	16A8	16	10.6	30.25 x 12.75 x 9.92	62	07A6	7.6	5.2	30.25 x 12.75 x 10.12	57
7.5	5	24A3	23.1	16.8	30 x 14 x 10.91	54	11A0	11	7.6	30.25 x 12.75 x 10.12	57
10	7.5	031A	29.3	24.3	30 x 14 x 10.39	58	014A	14	11	30.25 x 12.75 x 9.92	62
15	10	046A	44	38	33 x 14 x 12.36	84	021A	21	14	30 x 14 x 10.91	54
20	15	061A	58	45	33 x 14 x 12.36	84	027A	27	21	30 x 14 x 10.39	58
25	20	075A	71	61	44 x 20 x 13.94	118	034A	34	27	30 x 14 x 10.39	58
30	25	087A	83	72	44 x 20 x 13.94	118	040A	40	34	33 x 14 x 12.36	84
40	30	115A	109	87	44 x 20 x 14.17	166	052A	52	40	33 x 14 x 12.36	84
50	40	145A	138	105	44 x 20 x 14.17	166	065A	65	52	44 x 20 x 13.94	118
60	50	170A	162	145	48.25 x 20 x 17.32	210	077A	77	65	44 x 20 x 13.94	118
75	60	-	-	-	-	-	096A	96	77	44 x 20 x 14.17	166
100	75	-	-	-	-	-	124A	124	96	48.25 x 20 x 17.13	188
125	100	-	-	-	-	-	156A	156	124	48.25 x 20 x 17.32	210
150	125	-	-	-	-	-	180A	180	156	48.25 x 20 x 17.32	210

Light duty = (10% overload for 1 min)

Heavy duty = (50% overload for 1 min)

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