



Take your elevators to the next level with  
ACL30 drives

# Smoothness. Quietness. Flexibility. Safety. Everything counts.

You consider your customer's needs when designing your elevators. There's a demand for efficiency, safety and local service. Movements need to be precise and smooth. You know that everything counts when selecting elevator control.

## Quiet motor operation

Runs all types of synchronous and asynchronous motors quietly.

## Open-loop control

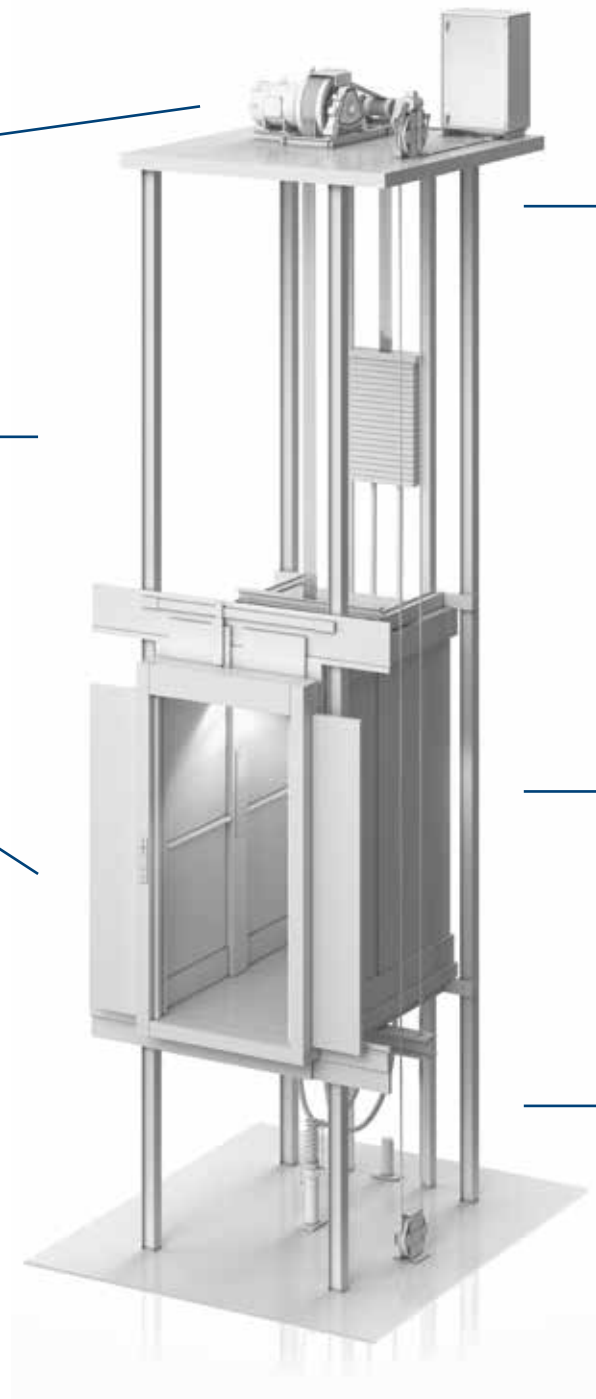
The drive ensures accurate open-loop control for asynchronous motors without encoders.

## Faster encoder offset tuning

Encoder offset autotuning can be used without disconnecting the mechanics and ropes to save installation time.

### Dedicated to take your elevators to the next level

- During power outages, the smart evacuation mode along with a backup power source (such as DC battery or UPS) take the car to the next floor allowing passengers to exit.
- Regenerative drive options recycle braking energy for improved energy efficiency.
- Removable memory unit stores the drive's software and settings for fast and easy commissioning and maintenance.
- Wherever your elevator is located, ABB's global sales, service and support network is always near.





### Less contactors

The drives come standard with an integrated safe torque off (SIL 3) safety function that eliminates contactors on the motor side (certified by TÜV). The STO function fulfills IEC 61508, EN 62061 and EN ISO 13849-1 standards.

ACL30 elevator drives are available with power range from 2.2 to 32 kW.

### Ease of customization

Extensive allocation for DriveSPC programming lets you easily develop your own elevator functions or modify the existing ones.

### Drive specifications

Frame size	Typical motor power [kW]	$I_{2N}$ [A]	$I_{2max}$ [A]	Type code	Mains choke	EMC filter
B	2.2	6	11	-06A0	CHK-02	JFI-02
B	3.8	9	16	-09A0	CHK-03	JFI-03
B	5.5	13	22	-013A	CHK-03	JFI-03
B	7.5	17	28	-017A	CHK-04	JFI-03
C	11	23	36	-023A	CHK-05/Internal	JFI-05
C	14	30	46	-030A	CHK-05/Internal	JFI-05
D	22	50	80	-050A	CHK-07/Internal	JFI-07
D	32	70*	110*	-070A	CHK-08/Internal	JFI-07

#### Notes:

- Supply voltage: 3-phase 180 to 480 V, 50/60 Hz.
- Switching frequency (fsw): 4 to 12 kHz (output current derating above 8 kHz).
  - $I_{2N}$ : Continuous rms output current. No overload capability at 40 °C (104 °F). With 230 V single phase supply output current and power is derated by 50%.
- $I_{2max}$ : Maximum output current. Available as long as allowed by drive temperature.
- \* Switching frequency maximum 5 kHz

### Energy efficient operation

Low standby power and fast control wake up helps you fulfill VDI 4707 and ISO 25745 energy efficiency classifications.

### Dimensions

Frame size	Height		Width		Depth (without/with front cover)		Weight	
	mm	in	mm	in	mm	in	kg	lb
B	380	15.0	100	3.9	223/274	8.8/10.8	5	11
C	567	22.3	166	6.5	225/276	8.9/10.9	16	35
D	567	22.3	221	8.7	225/276	8.9/10.9	23	51

- All dimensions and weights are without additional options.
- Height is the maximum measure without clamping plates.
  - Assistant control panel adds 23 mm (0.9 in) to the depth.

## Contact us

For more information please contact your local ABB representative or visit:

[www.abb.com/drives/elevators](http://www.abb.com/drives/elevators)

[www.abb.com/drivespartners](http://www.abb.com/drivespartners)

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3AUA0000173872 REV B EN. 6.6.2016 \*12656