

# The inverter for controlled motion.

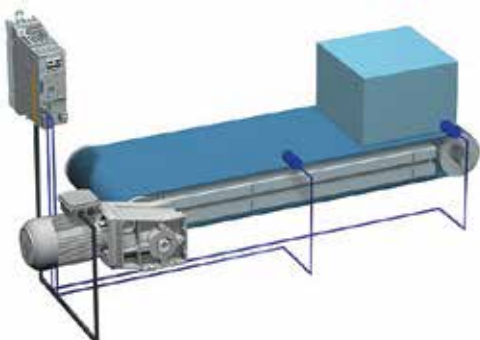


The 8400 StateLine is ideally suited to drive control with or without speed feedback, providing precisely tailored solutions. The StateLine is used when communication via bus systems is required. In addition to this, the integrated brake management ensures significant wear reduction on the service brakes.

## Highlights

- “VFC eco” energy saving function reduces cost of machine operation
- Control of synchronous motors without feedback
- 200% overload current

Typical applications for the 8400 StateLine include: palletizers, extruders, filling systems or travelling/variable speed drives.



# 8400 StateLine Technology – At a glance

|                             |  |
|-----------------------------|--|
| <b>Performance data</b>     |  |
| Mains: 1 AC 230/240 V       | 0.33 to 3 Hp (0.25 to 2.2 kW)  |
| Mains: 3 AC 400/480 V       | 0.5 to 60 Hp (0.37 to 45.0 kW)   |
| <b>Overload current</b>     |  |
|                             | 150 % (60 s)<br>200 % (3 s)  |
| <b>Operating conditions</b> |  |
|                             | Operating temperature 14 to 131 °F (-10 to 55 °C) [derating above 113 °F (45 °C): 2.5 %/K]<br>IP20 enclosure   |
| <b>Functions</b>            |  |
|                             | DC brake function<br>Flying restart circuit, PID controller<br>Sensorless vector control<br>"VFC eco" energy saving function<br>Sensorless control of synchronous motors (SLPSM)<br>Brake management for brake control with low rate of wear<br>Logic functions, comparator, counter, arithmetic function                |
| <b>Interfaces</b>           |  |
|                             | Memory modules, L-force diagnostics interface<br>DIP switch for CANopen (on board)<br>Integrated brake chopper<br>External 24 V supply<br>Digital inputs / outputs (5/1), analog inputs / outputs (1/1), relay<br>Slot for EtherCAT, EtherNET/IP, PROFIBUS or PROFINET communication module<br>PTC/thermal contact input |
| <b>Feedback systems</b>     |  |
|                             | HTL incremental encoder (10 kHz)   |
| <b>Safety engineering</b>   |  |
|                             | Safe torque off (STO), certified to EN 13849-1 (Cat. 4, PL e), IEC 61508/EN 62061 (SIL 3)  |
| <b>Approvals</b>            |  |
|                             | CE, cUL, EAC, RoHS   |

