

PRODUCT PAIRING PROFILE

ACS880 & RPM AC

The AC drive and motor of choice for extruders in the plastic and rubber industry



ABB's ACS880 drive and RPM AC motor matched pairing has the capability to make your extruders achieve their maximum potential.



Technical expertise

Regional and factory application engineers with extruder expertise to assist with your design that include application reviews, training, trouble shooting and grounding techniques.



Selecting the right products

Combining the best of both: A robust, high-performance ACS880 drive and an RPM AC motor package that has been factory-tested from one supplier that stands behind both.



Lifecycle partner

ABB provides cutting-edge and customized solutions to obtain top performance, reliability and efficiency. The integrated portfolio is supported by dedicated services to support customers in achieving their goals.



Reliable performance

Your customers can depend on ABB motors and drives running day after day. With matched performance confirmed by factory testing, you can feel confident that the extruder you build will perform exactly as designed.

Flexibility. Dependability. Efficiency.

Everything counts.



	ACS880	RPM AC
Overview	<p>These compact drives offer precise control, flexible integration and broad compatibility with existing systems. ACS880 provides you with the latest in AC controls to allow you to incorporate the drive into your extruder to enable quick commissioning at your customer's site.</p>	<p>When space is at a premium, the Baldor-Reliance® RPM AC motor is the answer. Available in totally enclosed and drip-proof guarded designs, and induction or high efficiency permanent magnet rotors, the RPM AC motor can be up to three frame sizes smaller than the traditional NEMA or IEC motor.</p>
Capabilities	<ul style="list-style-type: none"> • Downtime elimination with 7 standard recovery methods including ABB's all-compatible Wireless Bluetooth keypad • Extreme Duty features to meet various demands of harsh industrial environments and demanding applications such as UL Type 1 & 12 Enclosures. • Integrated, extendable safety functions (STO, FSOs & PROFIsafe) • Available in 6-Pulse and Active front end Ultra Low Harmonic 	<ul style="list-style-type: none"> • Utilizing laminated square frame technology, up to 1000 horsepower can be packed into a 440 frame, fitting into the tightest installation spaces. • The extruder duty RPM AC motors are available for quick-ship and come standard with the optional features listed below. • Our newest DPFV (drip proof force vent) frame can provide up to 1500 Hp/1800 RPM or 1100 Hp/1200 RPM in a 5000 frame.
Standard product features	<ul style="list-style-type: none"> • Direct torque control (DTC) for precise open and closed loop control • Removable, keyed & color-coded terminal blocks • SIL 3 integrated safety including safe torque off (STO) as standard • Back up parameters in the Bluetooth keypad, mobile device and PC • Wide range covering wall-mounted and cabinet-built drives 1-3300HP • Adaptive programming • Removable memory unit stores firmware, user settings, parameter settings and motor data and can easily be removed for maintenance, update or replacement purposes. 	<ul style="list-style-type: none"> • Power dense: up to 3 frame sizes smaller than NEMA • Designed for optimized performance and longer life on adjustable frequency power per MG1 Part 31.4.4.2 for voltage spikes or dv/dt concerns • High efficiency interior permanent magnet • Designs save energy and run cooler than induction motors • Provides continuous constant torque down to zero speed in addition to high peak torques • Custom designed for any base speed and extended top speeds using optimum pole technology
Optional features	<ul style="list-style-type: none"> • Industrial fieldbus: Ethernet/IP™, PROFINET®, Modbus TCP®, EtherCAT®, DeviceNet®, ControlNet, ModBus, ProfiBus-DP™, CANopen®, Ethernet POWERLINK™ • Isolated I/O extension modules 	<ul style="list-style-type: none"> • Shaft grounding brush and insulated bearings (440 and larger) mitigate shaft currents and provide long life on AC drives • Standard RTDs allow for temperature monitoring and prevent unintentional overheating