

# 2017

## Drives • Motors • Low Voltage JANUARY PRODUCT LIST



**MACQUARIE VALLEY**<sup>®</sup>  
CONTROLS & INSTRUMENTATION PTY LTD  
*Inland Water Management Technologies*



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## MISSION STATEMENT

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*“Our goal is to profitably provide our customers with reliable, manageable, cost-effective machine and process control solutions based on sound advice, quality products, support and service.*

*Being a small, Bathurst based business, we respect the challenges faced by our regional and often remote customers, understand what it means to be accountable, and we value our customers’ business.”*

## Specialist Supplier

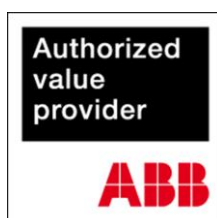
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Macquarie Valley Controls is a specialist supplier of ABB Drives, Motors, Instrumentation and Low Voltage Products. Based in Bathurst we are ideally located to service our customers across inland NSW.

The aim of this brief overview is to inform you about our following products as part of extending our services to the wider electrical industry;

- AC and DC Variable Speed Drives
- Electronic Soft-Starters
- Contactors and Overloads
- Motors
- Moulded Case Circuit Breakers and Switches
- Process instrumentation including flow, level, and on-line water analysis

[ABB channel program - ABB Drives](#)



## General Purpose Drive – ACS580

- 0.75 – 500kW, wall, cabinet and flange mounted VFD
- IP21 and IP55
- Easy to select and use
- All essential features built in
- Straightforward settings menu and assistants for fast commissioning
- Energy efficiency features for optimal energy use
- Connect to any automation system or stand-alone
- Member of ABBs' all-compatible drives portfolio
- Wide availability and support

[ACS580 - Effortless energy efficiency for a broad range of applications - General purpose drives - cover your control and energy savings options wisely \(Low voltage AC\) | ABB](#)



## Climate Control Drive – ACH580

- 0.75 – 250kW, wall and flange mounted VFD
- IP21 and IP55
- Control any motor for any HVAC application
- Guaranteed energy efficiency levels
- Intuitive control panel with embedded application and industry knowledge
- Easy to select, install, commission and use
- Wide availability and support

[ACH580 - Industry specific drives - choose a drive that understands your business just like you do \(Low voltage AC\) | ABB](#)



## Drives for Water and Wastewater – ACQ580

- 0.75 – 250kW, wall and flange mount
- IP21 and IP55
- Built in energy saving calculators and pump functionalities secure optimal pump operation
- Supports IE4 synchronous reluctance, asynchronous and permanent magnet motors
- Connects to a wide range of water and wastewater control systems
- Wide availability and support

[ACQ580 - Securing the flow of water and wastewater - Industry specific drives - choose a drive that understands your business just like you do \(Low voltage AC\) | ABB](#)



## IE4 Synchronous Reluctance motor drive packages

- IE4 Super premium efficiency
- Upgrade induction motor installations without mechanical modifications
- Unrivalled reliability through lower bearing and winding temperatures
- Permanent magnet performance without magnets
- Induction motor levels of cost effectiveness and service friendliness
- Pre-selected packages up to 315kW
- Verified package efficiencies for accurate energy consumption figures



[Synchronous reluctance motor-drive packages - Frequency controlled motors \(IEC Low voltage motors\) | ABB](#)



## Electronic Soft-starters – PSE, PSTx

- 3 – 2160A
- PSTx, PST(B), PSE, PSR, PSS
- Reduced starting current and less stress on the motor and the network
- Reduced mechanical wear and tear
- Fast and easy to install with a small footprint
- Torque control, pump cleaning and many more features let you do more than simply soft-starting

[Soft starters | ABB](#)



## Open motor starting solutions

- Circuit breakers and contactors, perfect for motor starting where space is limited
- Quick product selection together with wiring and dimension diagrams
- Coordination type 1 or 2 guaranteed between contactor and short circuit protection as per IEC
- Connection sets available for an easy, fast, secure assembly of components
- Full range of AC, DC and Capacitor switching contactors

[Motor protection and control | ABB](#)





## General and Process Performance Motors

- Tough, high quality products designed for durability in the most demanding environments and applications
- Cast Iron and Aluminium construction
- 0.06 – 355 kW (General Purpose)
- 0.25 -1000 kW (Process Performance)
- Efficiency Class IE2, IE3, IE4
- Most General Performance motors are stocked locally and are well priced



[General performance motors - Standard induction motors \(IEC Low voltage motors\) | ABB](#)

[Process performance motors - Standard induction motors \(IEC Low voltage motors\) | ABB](#)



## Low Voltage Mining motors

- 0.55 – 1000 kW
- Poles 2 -8 (higher number on request)
- Frame size IEC 80 -450
- Efficiency class IE3
- Voltages 230 – 1300 V (DOL)

### Standard features

- Cast iron frame
- Metal fan (cast iron or steel depending on frame size)
- IP66
- Frame 160 and above equipped with labyrinth seals
- RAL2011 (orange)
- PTC type winding temperature detectors



### Insulation

- Class F insulation with Class B temperature rise.
- Generous thermal margin and moderate Class B temperature rise to ensure high efficiency and lower bearing temperatures

### Optional features

- DE roller bearing for belt driven applications
- Winding heaters for motors with extended standstill periods
- Separate cast iron terminal boxes for instrumentation and heaters
- Reinforced insulation for VFD applications with voltages above 600V
- Surface treatment upgrades to C4M, C5M and C5M-H
- Hundreds of additional options also available on request

[Mining motors - Special application motors \(IEC Low voltage motors\) | ABB](#)



## Electromagnetic Flowmeters - WaterMaster

- Ideally suited for water measurement applications such as bores, pump stations, water and wastewater treatment plants
- 10 – 2400mm diameter
- Through the glass configuration
- Revolutionary data storage allows change of sensor or transmitter without re-programming
- 24V ac/dc and 240V ac/dc supply
- Up to 200m cable from sensor to display
- Integral or remote display options
- Various liner and electrode options



[WaterMaster electromagnetic flowmeter - Electromagnetic flowmeters | Water and waste water | flow meter \(Electromagnetic flowmeters\) | ABB](#)

## Ultrasonic Level Transmitter – LST300

- Maintenance free, non-contact continuous level sensor
- Up to 10m measuring range
- 2 wire
- Accuracy +/-2mm or 0.2% of span, whichever is greater
- Narrow beam angle with filtering for tight spaces
- GAP technology ensures the best performance under any condition
- IP66/67 (submerged to 1m for 30 minutes)



[Compact ultrasonic level transmitter - LST300 - Ultrasonic Level Transmitters and Switches \(Level\) | ABB](#)

