

Medium Voltage Motor Controller Reduced Voltage Reactor

Bulletin 1582 • Non-Reversing

Product Profile

Convenience, Reliability and Safety

The Allen-Bradley Reduced Voltage Reactor Controller offers:

- Three isolated compartments:
 - Power bus
 - Low voltage
 - Power cell
- Large swing-out low voltage panel, painted white for high visibility
- Test circuit plug for external power supply
- External operating handle to operate the isolation switch
- NEMA medium duty three winding reactor
- Closed transition operation
- Bolted power cell doors
- Centerline® horizontal power bus with removable cover plates for accessibility
- ¼" x 2" continuous copper ground bus
- Line, load and control wire conduit openings with removable cover plates at the top and bottom of the structure
- Base mounting sill channels with mounting holes and removable lifting means
- Hybrid epoxy powder paint finish

Power Cell Standard Features

- NEMA Class E2 design
- Non-load break isolation switch with visible blades and shutter mechanism
- Three (3) current limiting power fuses
- Two (2) 400 amp, fixed mounted vacuum contactors, Start and Run (An additional vacuum contactor is provided for reversing applications)
- Three (3) current transformers
- Mechanical and electrical interlocks
- Control circuit transformer (120VAC secondary) with primary and secondary fuses
- Viewing window in power cell door



General Specifications

System Voltages:	2400 V, 3300 V, 4160 V, 4800 V Higher voltages up to 7200 V are also available.
Controller Amp Ratings:	200 A, 400 A, 600 A, 800 A
Maximum HP/kW Ratings:	3500 HP / 2600 kW – 2400 V 5000 HP / 3700 kW – 3300 V 6000 HP / 4500 kW – 4160 V 7000 HP / 5200 kW – 4800 V
Standards:	NEMA ICS 3-2 UL 347 CSA C22.2 No. 14 ANSI C57.13

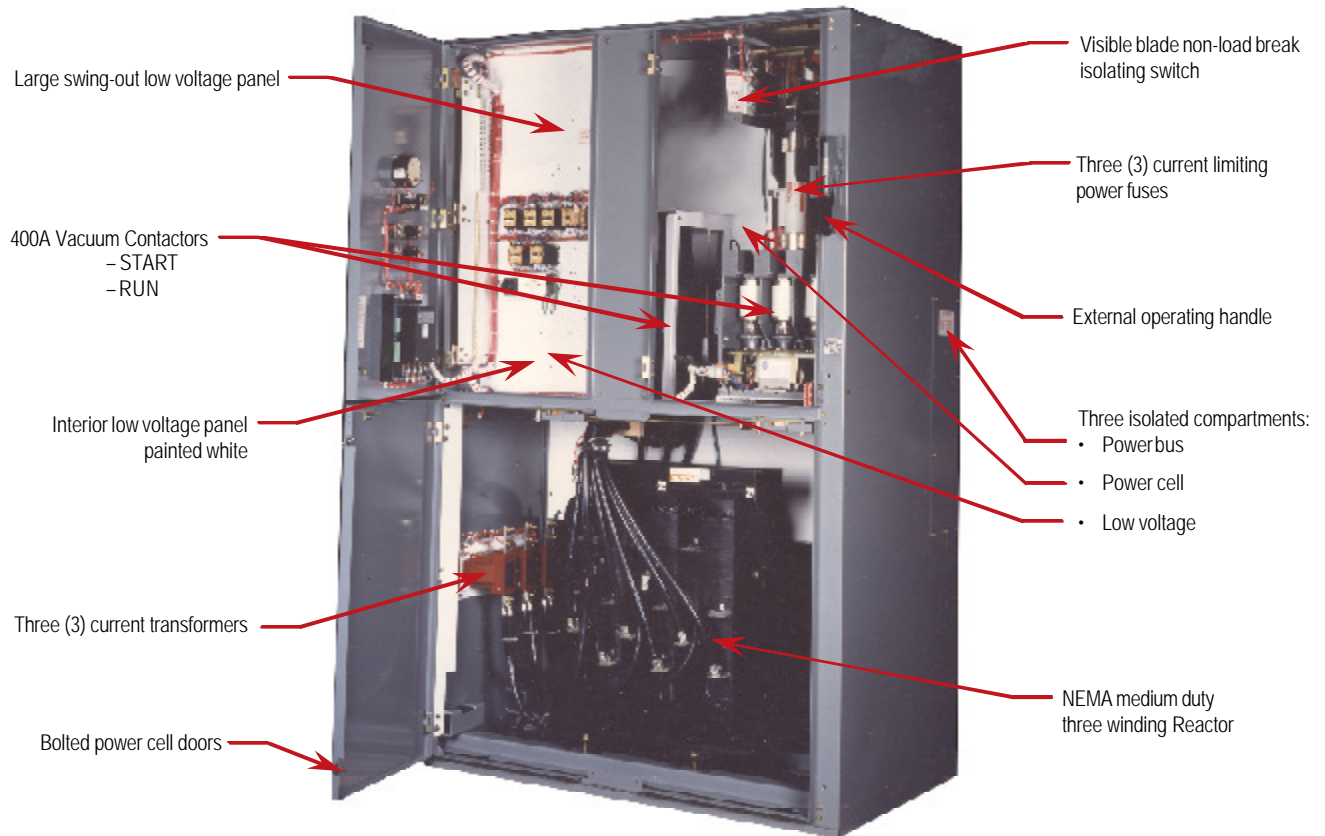
General Specifications (cont.)

1582 Controller		
Amps	Dimensions W x H x D	Approx. Weight in Lb (kg)
200/400	56 x 91 x 36 in. (1422 x 2315 x 915 mm)	3750 lb (1703 kg)
600	80 x 91 x 36 in. (2032 x 2315 x 915 mm)	5000 lb (2270 kg)
800	100 x 91 x 36 in. (2540 x 2315 x 915 mm)	5000 lb (2270 kg)

Note : 600 and 800 A Controllers require a separate reactor with dimensions of 52 x 66 x 46 in. (1321 x 1676 x 1168 mm).

Enclosure Type	Paint Finishes
<ul style="list-style-type: none"> ▪ Type 1 – General purpose ▪ Type 1 w/g – General purpose with gasket ▪ Type 12 – Dust-tight and drip proof ▪ Type 3R – Non walk-in weatherproof 	<ul style="list-style-type: none"> ▪ ANSI 49 – medium light grey (standard) ▪ ANSI 61 – light grey (optional)

Bulletin 1582 Reduced Voltage Reactor Controller Features



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