

Allen-Bradley - ControlLogix

1756-OV32E

32-Point Electronically Fused Sinking DC Output Module

Verified specifications

Outputs	32 electronically fused; 16 points per group
Voltage category	12/24 VDC sinking
Operating voltage	10 to 30 VDC
Current per point	0.5 A at 50°C; 0.35 A at 60°C
Current per group	8 A at 50°C; 5 A at 60°C
Current per module	16 A at 50°C; 10 A at 60°C
Surge current	2 A for 10 ms per point; repeat every 2 s at 60°C
Output delay	Off-to-on 75 µs nominal; on-to-off 230 µs nominal
Backplane power	2.04 W
Power dissipation	5.88 W maximum at 60°C

Product summary

Allen-Bradley 1756-OV32E is a 32-point ControlLogix sinking DC output module with two electronically fused groups for 10 to 30 VDC loads.

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Additional verified specifications

Isolation	250 V continuous, outputs-to-backplane and group-to-group
Fusing	Electronic, per group
RTB options	1756-TBCH or 1756-TBS6H
Slot width	1

Output Groups

- Map sixteen points to each independently supplied output group
- Keep group returns and DC supplies aligned with the RTB wiring diagram
- Treat electronic fusing as group protection rather than per-point isolation

Load Planning

- Check steady current, inrush and the temperature-dependent group limit
- Maintain the documented minimum load current for reliable state indication
- Use external suppression when the connected inductive load requires it

Fault Recovery

- Identify the affected fused group before replacing field hardware
- Remove shorts and overloads before resetting or re-enabling outputs
- Verify program-mode and fault-mode states before returning the machine to service

Applications

- ControlLogix 24 VDC solenoid and interposing-relay control
- High-density machine output banks with group electronic protection
- Distributed actuator control where sinking outputs match the field wiring

Evidence boundary: Rockwell publishes exact electrical data for 1756-OV32E but no exact complete-product net weight or W×H×D in the reviewed model record; both remain blank.