

Drive Enclosure Ratings

Pollution Degree Ratings According to EN 61800-5-1

Pollution Degree	Description
1	No pollution or only dry, non-conductive pollution occurs. The pollution has no influence.
2	Normally, only non-conductive pollution occurs. Occasionally, a temporary conductivity that is caused by condensation is to be expected, when the drive is out of operation.
3	Conductive pollution or dry non-conductive pollution occurs, which becomes conductive due to condensation, which is to be expected.
4	The pollution generates persistent conductivity that is caused, for example, by conductive dust or rain or snow.

Frame	Enclosure Type (Cat. No. Position 6)	Enclosure Type	Pollution Degree
2	F	IP66 / UL Type 12	1, 2, 3, 4

Condition	Requirement
Ambient Operating Temperature	0...40 °C (32...104 °F)
Storage Temperature	-20...+70 °C (-4...+158 °F)
Relative Humidity	5...95% (noncondensing)
Cabinet Rating ⁽¹⁾	UL Type 12 / IP66 (indoor use only)

(1) Enclosure provides protection from: dust, falling debris, and hose-directed water.

Logix, Firmware, and AOP Compatibility

There are separate Add-on Profiles (AOP) for the Logix Designer application for each of these Modes of control, along with the safety option module used in the On-Machine drive. See the On-Machine drive [Catalog Number Explanation](#) to determine which safety option module should be installed in your drive.

Each option has different minimum system requirements depending on the safety controller series that is used, Logix controller firmware, and the drive firmware level.

Safety and Logix Compatibility Table

Safety Option Module - Slot 6		20-750-S3 Integrated Safe Torque Off Module (option A)		20-750-S4 Integrated Safety Functions Module (option B or C)	
Mode of Operation		I/O mode	Integrated Motion mode	I/O mode	Integrated Motion mode
Minimum Drive Firmware Required		Version 13	Version 14	Version 14	Version 14
Minimum Controller Firmware Required	GuardLogix® 5570, Compact GuardLogix 5370, Armor™ GuardLogix® 5570 Controllers	Version 30	Version 31	Version 31	Not supported
	GuardLogix 5580, Compact GuardLogix 5380 Controllers	Version 31		Version 31	