

Amphenol®



EX309

Amphenol Industrial Products Group introduces the EX309 connector series designed to perform in potentially hazardous areas identified as Zone 1 / 2 / 21(ATEX) 16ATEX0009X / IECEx16.0018X.

EX309 is rated to IP66 and made of fire resistant glass-fiber reinforced polyester (Low Smoke Zero Halogen). This series is available in amperage ratings of 16A, 32A, 63A and 125A, with a voltage rating of 690V. Operating temperature range for the product is -50°C to +60°C.

The wall mounted receptacle has a switched interlock enabling it to be unmated when it is OFF.

The EX309 male plug can be mated to standard IEC60309 receptacles in safe areas. Standard plugs do not mate to EX309 Switched Interlock Receptacles.

Technical Specifications

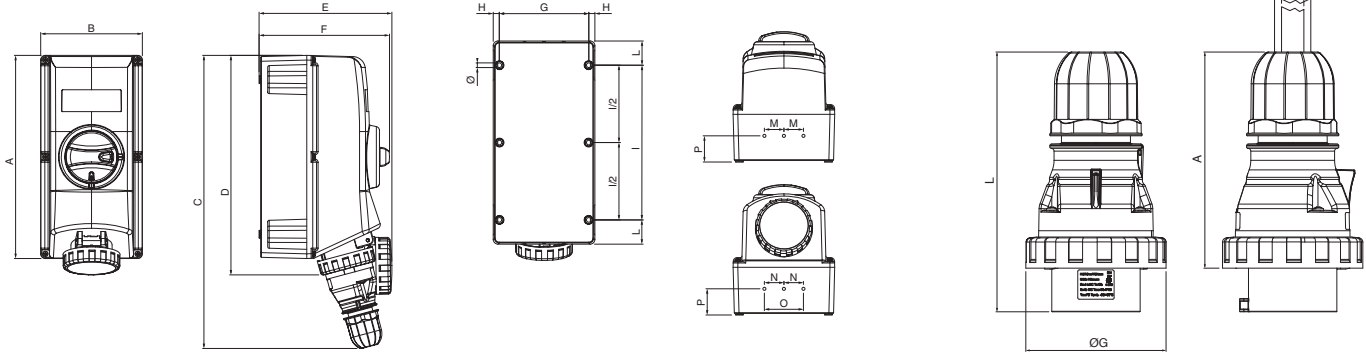
Rated Current:	16A - 32A - 63A - 125A
Rated Voltage:	100 ÷ 690V~
Frequency:	50 ÷ 60Hz
Insulating voltage:	690V~
ATEX Code:	Ex d IIC Txxx°C Gb
Ex Protection type:	Ex tb IIIC T80°C Db IP 66
Ambient temperature range:	-35°C + 60°C for EX 309 16A -50°C + 60°C for EX 309 32A -35°C + 60°C for EX 309 63A -35°C + 40°C for EX 309 125A
Maximum permissible surface temperature (DUST):	T80°C
Temperature class (GAS):	T4/T5/T6
Impact resistance:	7J
Switched socket outlets with interlock material:	Dissipative Thermosetting (GRP)
Plug material:	PA6 - Dissipative



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Drawings



NOTE: All measurements in millimeters.

Type		A	B	C min	D	E	F	G	H	Ø	I	I/2	L	M	N	O	P
16A	2P+E	260	130	370	280	170	166.8	114.5	7.75	6	198		31	25	25		33.5
	3P+E	260	130	375	282	175	166.8	114.5	7.75	6	198		31	25	25		33.5
	3P+N+E	260	130	393	282	182	166.8	114.5	7.75	6	198		31	25	25		33.5
32A	2P+E	260	130	395	285	189	166.8	114.5	7.75	6	198		31	25	25		33.5
	3P+E	260	130	395	285	189	166.8	114.5	7.75	6	198		31	25	25		33.5
	3P+N+E	260	130	403	286	185	166.8	114.5	7.75	6	198		31	25	25		33.5
63A	3P+E	380	170	550	420	225	205.75	150	8.3	7	310		35	32.5	32.5		40
	3P+N+E	380	170	550	420	225	205.75	150	8.3	7	310		35	32.5	32.5		40
125A	3P+E	575	280	800	626	253	250	257	11.5	9	468		54	50		130	49
	3P+N+E	575	280	800	626	253	250	257	11.5	9	468	234	54	50		130	49

Type		A Min	ØG	L Min	ØMin	ØMax
16A	2P+E	116	73	140.5	6	15
	3P+E	123	81	147.5	6	15
	3P+N+E	140.5	88	165	9	20
32A	2P+E	142.6	92	174	9	20
	3P+E	142.6	92	174	9	20
	3P+N+E	150	101	180.5	13	23
63A	3P+E	166.5	112	217.5	17	33
	3P+N+E	166.5	112	217.5	17	33
125A	3P+E	214.5	128	274	26	50
	3P+N+E	214.5	128	274	26	50

PN Logic

Family	Amps	Type	Clocking	Optional Stud
EX-309	16, 32, 63 and 125	11 - INTERLOCK RECEPTACLE 12 - PLUG	02, 03, 04, 05, 06, 07, 08, 09, 10 and 11	E-EARTH STUD

PN Summary

Poles	Hz	Rated Voltage	Color	Clocking (h)	16A PLUG	16A RECEPTACLE	32A PLUG	32A RECEPTACLE	63A PLUG	63A RECEPTACLE	125A PLUG	125A RECEPTACLE
2P+E	50/60	100-130V	Blue	4	EX309-1612-304	EX309-1611-304	EX309-3212-304	EX309-3211-304				
2P+E	50/60	200-250V	Blue	6	EX309-1612-306	EX309-1611-306	EX309-3212-306	EX309-3211-306				
2P+E	50/60	380-415V	Red	9	EX309-1612-309	EX309-1611-309	EX309-3212-309	EX309-3211-309				
2P+E	50/60	480-500V	Red	7	EX309-1612-307	EX309-1611-307	EX309-3212-307	EX309-3211-307				
2P+E	300-500	50-500	Red	2	EX309-1612-302	EX309-1611-302	EX309-3212-302	EX309-3211-302				
2P+E	d.c.	50-250	Red	3	EX309-1612-303	EX309-1611-303	EX309-3212-303	EX309-3211-303				
2P+E	d.c.	>250-500	Red	8	EX309-1612-308	EX309-1611-308	EX309-3212-308	EX309-3211-308				
3P+E	50/60	100-130V	Blue	4	EX309-1612-404	EX309-1611-404	EX309-3212-404	EX309-3211-404	EX309-6312-404	EX309-6311-404	EX309-12512-404	EX309-12511-404
3P+E	50/60	200-250V	Blue	9	EX309-1612-409	EX309-1611-409	EX309-3212-409	EX309-3211-409	EX309-6312-409	EX309-6311-409	EX309-12512-409	EX309-12511-409
3P+E	50/60	380-415V	Red	6	EX309-1612-406	EX309-1611-406	EX309-3212-406	EX309-3211-406	EX309-6312-406	EX309-6311-406	EX309-12512-406	EX309-12511-406
3P+E	60	440-460V	Red	11	EX309-1612-411	EX309-1611-411	EX309-3212-411	EX309-3211-411	EX309-6312-411	EX309-6311-411	EX309-12512-411	EX309-12511-411
3P+E	50/60	480-500V	Red	7	EX309-1612-407	EX309-1611-407	EX309-3212-407	EX309-3211-407	EX309-6312-407	EX309-6311-407	EX309-12512-407	EX309-12511-407
3P+E	50/60	600-690V	Red	5	EX309-1612-405	EX309-1611-405	EX309-3212-405	EX309-3211-405	EX309-6312-405	EX309-6311-405	EX309-12512-405	EX309-12511-405
3P+E	50/60	380/440	Red	3	EX309-1612-403	EX309-1611-403	EX309-3212-403	EX309-3211-403	EX309-6312-403	EX309-6311-403	EX309-12512-403	EX309-12511-403
3P+E	100-300	50-690	Red	10	EX309-1612-410	EX309-1611-410	EX309-3212-410	EX309-3211-410	EX309-6312-410	EX309-6311-410	EX309-12512-410	EX309-12511-410
3P+E	>300-500	50-690	Red	2	EX309-1612-402	EX309-1611-402	EX309-3212-402	EX309-3211-402	EX309-6312-402	EX309-6311-402	EX309-12512-402	EX309-12511-402
3P+N+E	50/60	100-130V	Blue	4	EX309-1612-504	EX309-1611-504	EX309-3212-504	EX309-3211-504	EX309-6312-504	EX309-6311-504	EX309-12512-504	EX309-12511-504
3P+N+E	50/60	208-250V	Blue	9	EX309-1612-509	EX309-1611-509	EX309-3212-509	EX309-3211-509	EX309-6312-509	EX309-6311-509	EX309-12512-509	EX309-12511-509
3P+N+E	50/60	346-415V	Red	6	EX309-1612-506	EX309-1611-506	EX309-3212-506	EX309-3211-506	EX309-6312-506	EX309-6311-506	EX309-12512-506	EX309-12511-506
3P+N+E	50/60	480-500V	Red	7	EX309-1612-507	EX309-1611-507	EX309-3212-507	EX309-3211-507	EX309-6312-507	EX309-6311-507	EX309-12512-507	EX309-12511-507
3P+N+E	50/60	600-690V	Red	5	EX309-1612-505	EX309-1611-505	EX309-3212-505	EX309-3211-505	EX309-6312-505	EX309-6311-505	EX309-12512-505	EX309-12511-505
3P+N+E	60	440-460V	Red	11	EX309-1612-511	EX309-1611-511	EX309-3212-511	EX309-3211-511	EX309-6312-511	EX309-6311-511	EX309-12512-511	EX309-12511-511
3P+N+E	50/60	380/440V	Red	3	EX309-1612-503	EX309-1611-503	EX309-3212-503	EX309-3211-503	EX309-6312-503	EX309-6311-503	EX309-12512-503	EX309-12511-503
3P+N+E	>300-500	50-690	Red	2	EX309-1612-502	EX309-1611-502	EX309-3212-502	EX309-3211-502	EX309-6312-502	EX309-6311-502	EX309-12512-502	EX309-12511-502

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