SIMATIC ET 200SP HA, SIMATIC ET 200SP and SIMATIC ET 200MP differentiation characteristics

Performance class/category

● ● ● Premium   ● ● ○ Extended   ● ○ ○ Standard

		SIMATIC ET 200SP HA	SIMATIC ET 200SP	SIMATIC ET 200MP
Availability				
PROFINET redundancy				
Single system redundancy (S2)	● ○ ○	X	X	X
Redundant system redundancy (R1)	● ● ○	X	planned in TIA Portal V18	planned in TIA Portal V18
Changeability in Run				
Hot swapping for I/O modules	● ● ○	X	X	X
Configuration in Run	● ● ●	X		
I/O module redundancy				
I/O side-by-side redundancy	● ● ●	X		
Robustness				
Operation temperature range				
-20 to +50°C	● ○ ○	X	X	X
-30 to +60°C	● ● ○	X	X	X
-40 to +70°C	● ● ●	X	SIPLUS	SIPLUS
Protection against harsh environment (corrosive gases, condensation, dust, sand etc.)				
Standard	● ○ ○	X	X	X
Coating	● ● ○	X	SIPLUS	SIPLUS
Conformal coating 3C4	● ● ●		SIPLUS	SIPLUS
Ex protection of I/O modules				
Location of sensors/actuators				
no Ex protection	● ○ ○	X	X	X
up to Ex-Zone 2	● ● ○	X	X	X
Ex-Zone 1/0	● ● ●	X	X	
Channel density per module				
Channel density				
up to 16 channels / module	● ○ ○	X	X	X
up to 32 channels / module	● ● ○	X		X
up to 64 channels / module	● ● ●			X
Footprint				
Standard	● ○ ○	X	X	X
Compact	● ● ○		X	
Installation enclosure (intallation depth)				
Installation enclosure				
Central 19-inch rack	● ○ ○	X	X	X
Field enclosure	● ● ○	X	X	X
Compact field enclosure	● ● ●		X	
Functional range				
Standard I/O	● ○ ○	X	X	X
Failsafe I/O	● ● ○	X	X	X
HART	● ● ○	X	X	planned in TIA Portal V18
Special I/O (Motorstarter, Dali, ECC, Siwarex, Modbus, etc.)	● ● ●	X	X	
MultiFieldbus interface module	● ● ●		X	

SIMATIC ET 200SP HA, SIMATIC ET 200SP and SIMATIC ET 200MP differentiation characteristics

	SIMATIC ET 200SP HA	SIMATIC ET 200SP	SIMATIC ET 200MP
Engineering tools support			
SIMATIC PCS 7	X	X [2]	X [3]
SIMATIC PCS neo	X [1]	X [2]	
TIA Portal	X [1]	X	X
Step 7	X	X	X

[1] selected functions are approved for SIMATIC PCS neo and TIA Portal, more details in functional overview SIMATIC ET 200SP HA
https://support.industry.siemens.com/cs/ww/en/view/109782701

[2] selected modules are approved for SIMATIC PCS 7 and SIMATIC PCS neo, see:
https://support.industry.siemens.com/cs/ww/en/view/109800496   for SIMATIC PCS 7
https://support.industry.siemens.com/cs/ww/en/view/109801694   for SIMATIC PCS neo

[3] available on request