

Specifications common to all models

Specification	Model	All Models
Operating Temperature		0 to 50 °C (32 to 122 °F); Maximum surrounding air temperature rating: 50 °C (122 °F) IEC 60068-2-14 (Test Nb, Thermal Shock)
Altitude		Up to 2000m (6562 ft)
Storage Temperature		-20 to +60 °C (-4 to +140 °F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)
Humidity		5-95% RH (non-condensing)
Environment		For use in Pollution Degree 2 environment, no corrosive gases permitted
Noise Immunity		(EN61131-2) EN61000-4-2 (ESD), EN61000-4-3 (RFI) EN61000-4-4 (FTB) EN61000-4-5 (Serge) EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µs pulse
Withstand Voltage		1000 VAC, 1 min. (FG to Power supply)
Insulation Resistance		> 10M ohm @ 500V DC (FG to Power supply)
Vibration		IEC60068-2-6 (Test Fc)
Shock		IEC60068-2-27 (Test Ea)
Emission		EN55011 Class A (Radiated RF emission)
Enclosure		NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly)
Backlight Average Lifetime*		50,000 hours @ 25 °C
Touch Panel Type**		Four-wire analog resistive
Supply Power		10.2-26.4VDC Class2 or SELV (Safety Extra-Low Voltage) Circuit or Limited Energy Circuit (LEC) or use the AC/DC Power Adapter, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected

2



*** NOTE:** The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.



**** NOTE:** The Touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

6-inch Models

Specification	Model	6" TFT color w/ base features	6" TFT color w/ full features
Part Number		EA9-T6CL-R	EA9-T6CL
Display Actual Size and Type		5.7" TFT color	
Display Viewing Area		4.54" x 3.40" [115.2 mm x 86.4 mm]	
Weight		1.56 lb (710g)	1.59 lb (720g)
Screen Pixel		320 x 240 (QVGA)	
Display Brightness		280 nits (typ)	
LCD Panel Dot Pitch		0.18 mm x 0.18 mm	
Color Scale		65,536	
Project Memory		26 MB	
Number of Screens		Up to 999 screens – limited by project memory	
Realtime Clock		Realtime Clock Built into panel, backed up for 30 days at 25°C after power has been applied for 24 hours	
Calendar - Month / Day / Year		Yes - monthly deviation 60 sec at 25°C	
Serial Port 1		15-pin D-sub female - RS2342C, RS-422/485	
Serial Port 2		N/A	3-wire terminal block - RS-485
Serial Port 3		N/A	RJ-12 modular jack - RS-232C
USB Port - Type B		USB 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port - Type A		USB 1.1 and 2.0 High speed (480 Mbps) Type A -for USB device options	
Ethernet Port		N/A	Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X
Audio Line Out		N/A	3.5 mm mini jack: 3-pin – requires amplifier and speaker(s), Full Scale Output: 1.0 Vrms
Mic In (future)		N/A	3.5 mm mini jack: 2pin, Input: 100 mVrms, Impedance: <10kOhms
SD Card Slot		1 slot. Supports max 2 GB (SD,) max 32 GB (SDHC)	
HDMI Video Out		N/A	
Power Consumption		16.0W 1.30A @ 12 VDC 0.66A @ 24 VDC	
Internal Fuse (non-replaceable)		4A	
Agency Approvals		UL508 (E157382), CE (EN61131-2), CUL Canadian C22.2, RoHS (2011/65/EU)	

7-inch Models

Specification	Model	7" TFT color w/ base features	7" TFT color w/ full features
Part Number		EA9-T7CL-R	EA9-T7CL
Display Actual Size and Type		7.0" TFT color	
Display Viewing Area		6.0" x 3.60" [152.4 mm x 91.4 mm]	
Weight		1.46 lb (660g)	1.48 lb (670g)
Screen Pixel		800 x 480 (WVGA)	
Display Brightness		350 nits (typ)	
LCD Panel Dot Pitch		0.19 mm x 0.19 mm	
Color Scale		65,536	
Project Memory		26 MB	
Number of Screens		Up to 999 screens – limited by project memory	
Realtime Clock		Realtime Clock Built into panel, backed up for 30 days at 25°C after power has been applied for 24 hours	
Calendar - Month / Day / Year		Yes - monthly deviation 60 sec at 25°C	
Serial Port 1		15-pin D-sub female - RS2342C, RS-422/485	
Serial Port 2		N/A	3-wire terminal block - RS-485
Serial Port 3		N/A	RJ-12 modular jack - RS-232C
USB Port - Type B		USB 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port - Type A		USB 1.1 and 2.0 High speed (480 Mbps) Type A -for USB device options	
Ethernet Port		Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X	
Audio Line Out		N/A	3.5 mm mini jack: 3-pin – requires amplifier and speaker(s), Full Scale Output: 1.0 Vrms
Mic In (future)		N/A	3.5 mm mini jack: 2pin, Input: 100 mVrms, Impedance: <10kOhms
SD Card Slot		1 slot. Supports max 2 GB (SD,) max 32 GB (SDHC)	
HDMI Video Out		N/A	
Power Consumption		16.0W 1.30A @ 12 VDC 0.66A @ 24 VDC	
Internal Fuse (non-replaceable)		4A	
Agency Approvals		UL61010 (E157382), CE (EN61131-2), CUL Canadian C22.2, RoHS (2011/65/EU)	

2

8-inch and 10-inch Models

Specification	Model	8" TFT color w/ full features	10" TFT color w/ full features	10" TFT color widescreen w/ full features
Part Number		EA9-T8CL	EA9-T10CL	EA9-T10WCL
Display Actual Size and Type		8.4" TFT color	10.4" TFT color	10.1" TFT color wide
Display Viewing Area		6.71" x 5.03" [170.4 mm x 127.8mm]	8.31" x 6.24" [211.2 mm x 158.4 mm]	8.769" x 4.932" [222.72 mm x 125.28 mm]
Weight		2.93 lb (1330g)	4.19 lb (1900g)	2.43 lb (1100g)
Screen Pixel		800 x 600 (SVGA)		1024 x 600 (WSVGA)
Display Brightness		310 nits (typ)	280 nits (typ)	240 nits (typ)
LCD Panel Dot Pitch		0.213 mm x 0.213 mm	0.264 mm x 0.264 mm	0.218 mm x 0.209 mm
Color Scale		65,536 colors		
Project Memory		26 MB		
Number of Screens		Up to 999 screens – limited by project memory		
Realtime Clock		Realtime Clock Built into panel, backed up for 30 days at 25°C		
Calendar - Month / Day / Year		Yes - monthly deviation 60 sec (Reference)		
Serial Port 1		15-pin D-sub female - RS2342C, RS-422/485		
Serial Port 2		3-wire terminal block - RS-485		
Serial Port 3		RJ-12 modular jack - RS-232C		
USB Port - Type B		USB 2.0 High speed (480 Mbps) Type B - Download/Program		
USB Port - Type A		USB 2.0 High speed (480 Mbps) Type A -for USB device options		
Ethernet Port		Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X		
Audio Line Out		3.5 mm mini jack – requires amplifier and speaker(s)		
Mic In (future)		3.5 mm mini jack		
SD Card Slot		1 slot. Supports max 2 GB (SD,) max 32 GB (SDHC)		
HDMI Video Out		N/A		
Power Consumption		18.0W 1.50A @ 12 VDC 0.75A @ 24 VDC		17.0W 1.42A @ 12 VDC 0.71A @ 24 VDC
Internal Fuse (non-replaceable)		6.3A		
Agency Approvals		UL508 (E157382), CE (EN61131-2), CUL Canadian C22.2, RoHS (2011/65/EU)		

12-inch and 15-inch Models

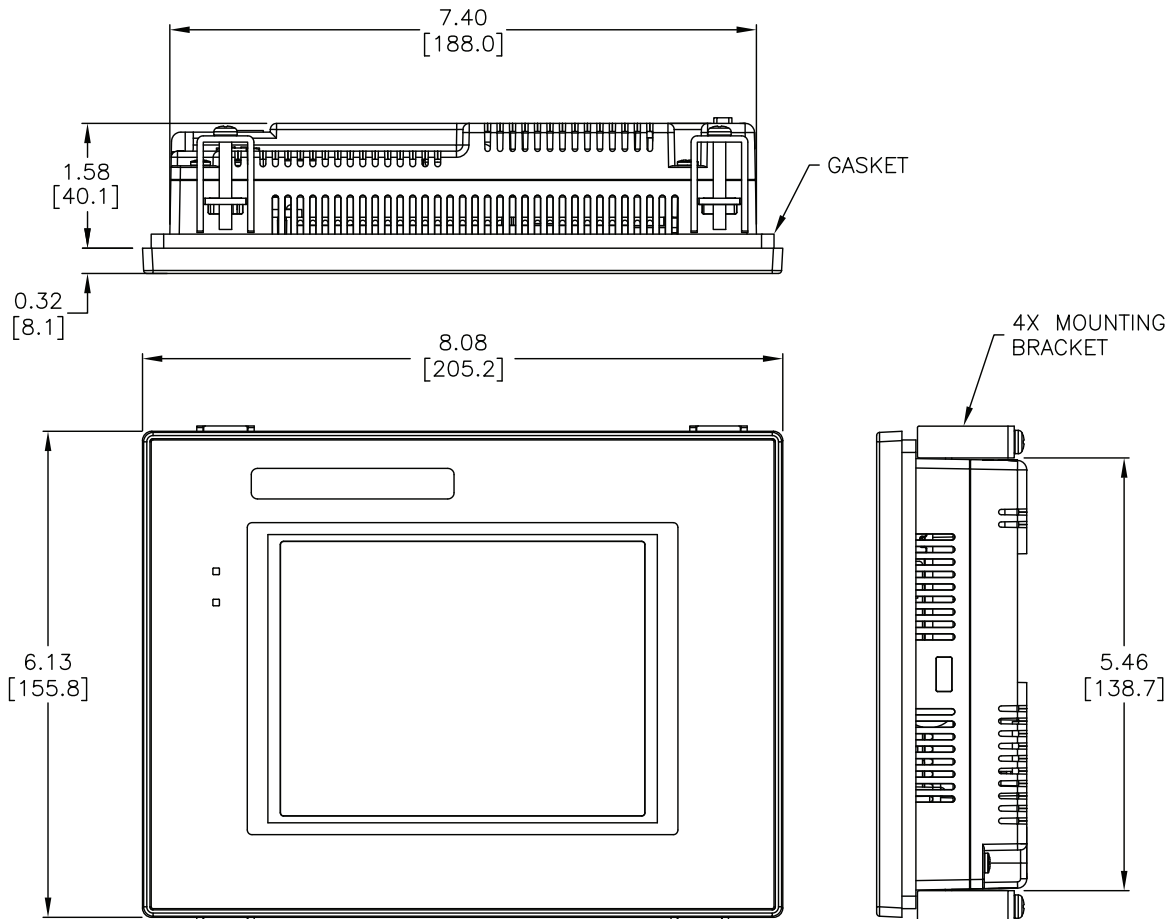
Specification	Model	12" TFT color w/ full features	15" TFT color w/ base features	15" TFT color w/ full features
Part Number		EA9-T12CL	EA9-T15CL-R	EA9-T15CL
Display Actual Size and Type		12.1" TFT color	15.0" TFT color	
Display Viewing Area		9.69" x 7.26" [246.0 mm x 184.5 mm]	11.97" x 8.98" [304.1 mm x 228.0 mm]	
Weight		4.85 lb (2200g)	6.46 lb (2930g)	6.50 lb (2950g)
Screen Pixel		800 x 600 (SVGA)	1024 x 768 (XGA)	
Display Brightness		280 nits (typ)		
LCD Panel Dot Pitch		0.3075 mm x 0.3075 mm	0.297 mm x 0.297 mm	
Color Scale		65,536 colors		
Project Memory		82 MB		
Number of Screens		Up to 999 screens – limited by project memory		
Realtime Clock		Realtime Clock Built into panel, backed up for 30 days at 25°C		
Calendar - Month / Day / Year		Yes - monthly deviation 60 sec (Reference)		
Serial PLC Interface Port 1		15-pin D-sub female - RS2342C, RS-422/485		
Serial PLC Interface Port 2		3-wire terminal block - RS-485	N/A	3-wire terminal block - RS-485
Serial PLC Interface Port 3		RJ-12 modular jack - RS-232C	N/A	RJ-12 modular jack - RS-232C
USB Port - Type B		USB 2.0 High speed (480 Mbps) Type B - Download/Program		
USB Port - Type A		USB 2.0 High speed (480 Mbps) Type A -for USB device options		
Ethernet Port		Ethernet Port Ethernet 10/100 Base-T, auto MDI/MDI-X		
Audio Line Out		3.5 mm mini jack – requires amplifier and speaker(s)	N/A	3.5 mm mini jack – requires amplifier and speaker(s)
Mic In (future)		3.5 mm mini jack	N/A	3.5 mm mini jack
SD Card Slot		2 slots. Supports max 2 GB (SD), max 32 GB (SDHC)		
HDMI Video Out		HDMI Type A Port	N/A	HDMI Type A Port
HDMI Supported Resolution		800 x 600 (SVGA)	N/A	1024 x 768 (XGA)
Power Consumption		21.0W 1.75A @ 12 VDC 0.88A @ 24 VDC	29.0W 2.40A @ 12 VDC 1.20A @ 24 VDC	
Internal Fuse (non-replaceable)		6.3A		
Agency Approvals		UL508 (E157382), CE (EN61131-2), CUL Canadian C22.2, RoHS (2011/65/EU)		

EA9-T6CL-R, EA9-T6CL

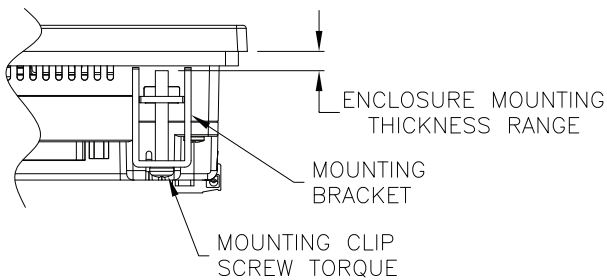
Dimensions, Inches [mm]

All the necessary mounting hardware is provided with the touch panel. Use the four mounting clips and screws to secure the touch panel to the cabinet or enclosure surface.

A template for marking the cutout dimensions on the mounting surface is provided in the box.



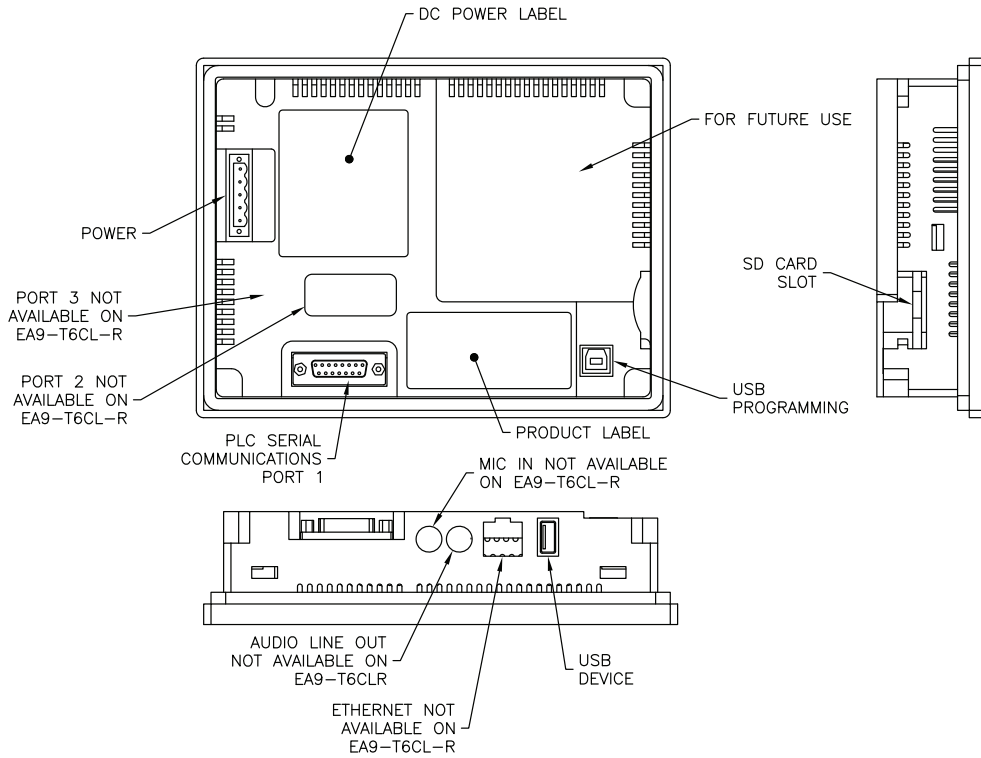
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



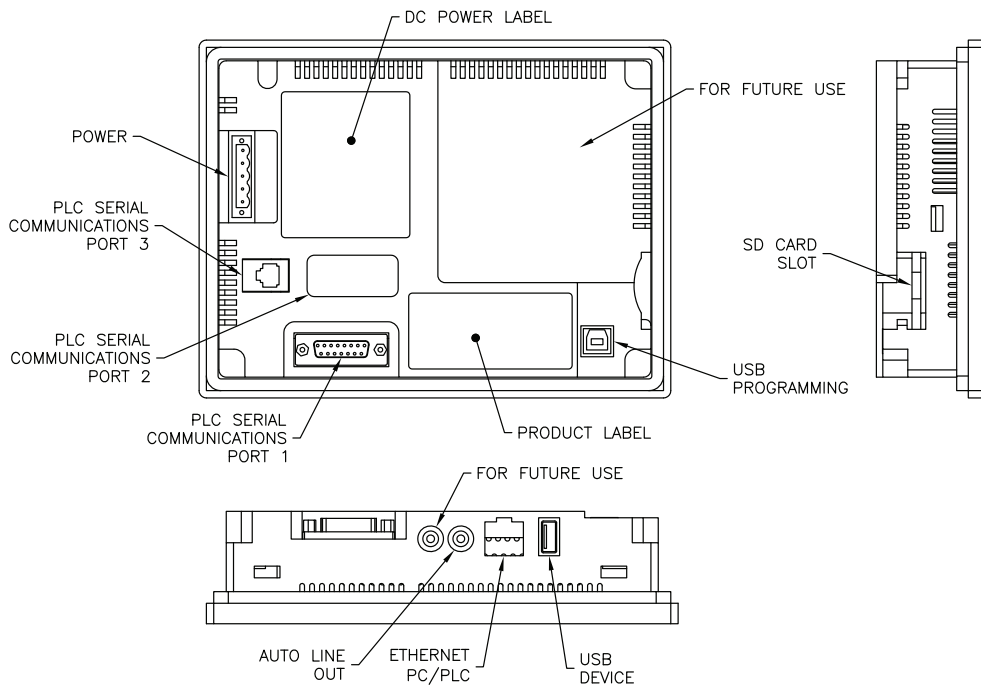
Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque	Material
6", 7", 8", 10" & 12"	0.039 - 0.20 inch [1 - 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]	Metal
10" Wide, 15"	0.039 - 0.20 inch [1 - 5 mm]	92 - 106 oz-in [0.65 - 0.75 Nm]	Metal

Ports and Memory Expansion

EA9-T6CL-R



EA9-T6CL

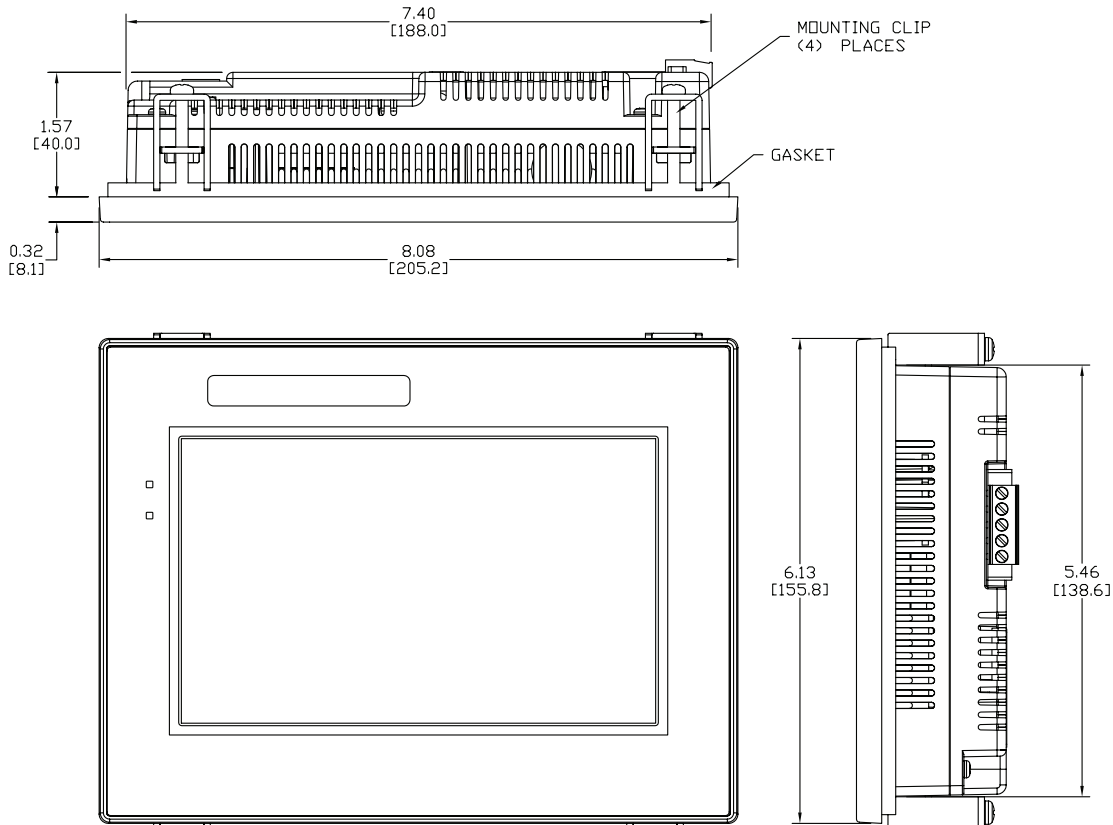


EA9-T7CL-R, EA9-T7CL

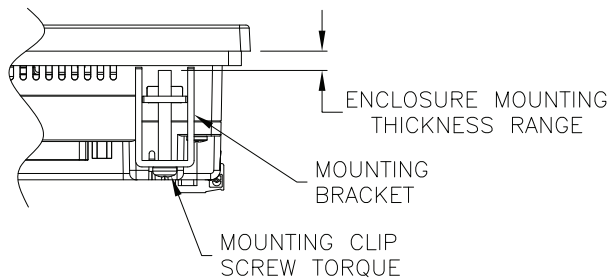
Dimensions, Inches [mm]

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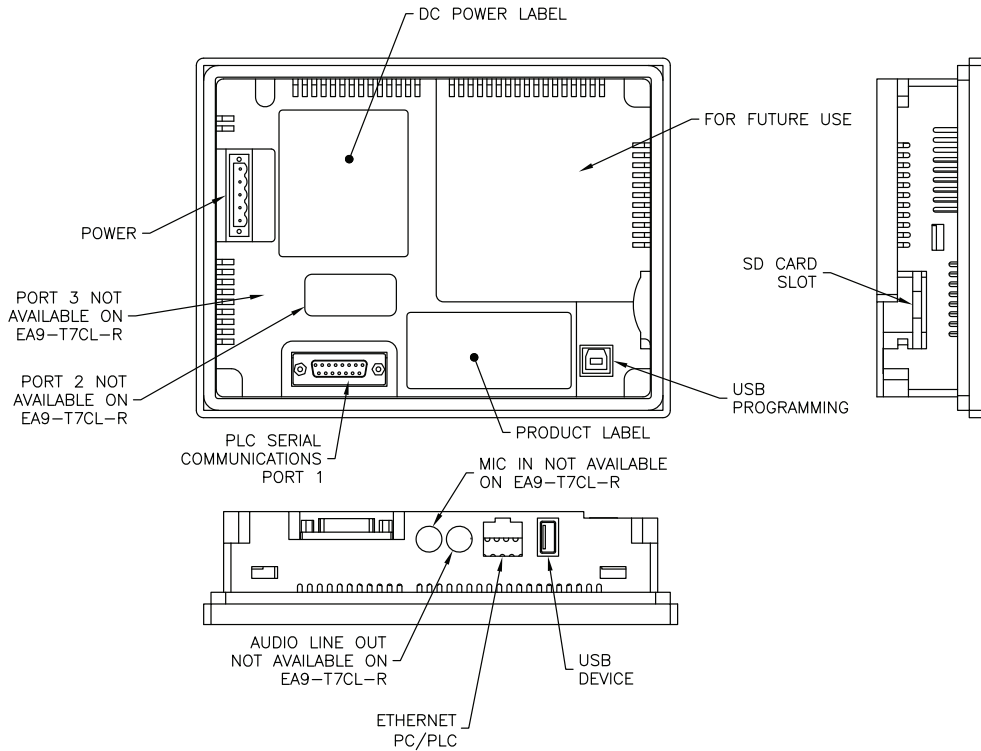
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



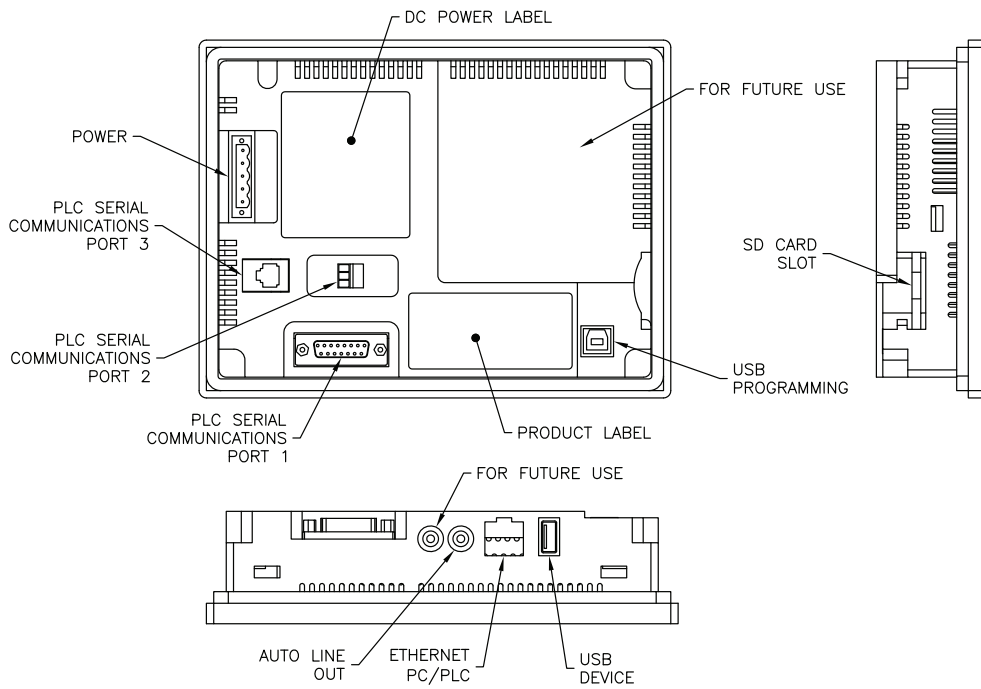
Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque	Material
6", 7", 8", 10" & 12"	0.039 - 0.20 inch [1 - 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]	Metal
10" Wide, 15"	0.039 - 0.20 inch [1 - 5 mm]	92 - 106 oz-in [0.65 - 0.75 Nm]	Metal

Ports and Memory Expansion

EA9-T7CL-R



EA9-T7CL

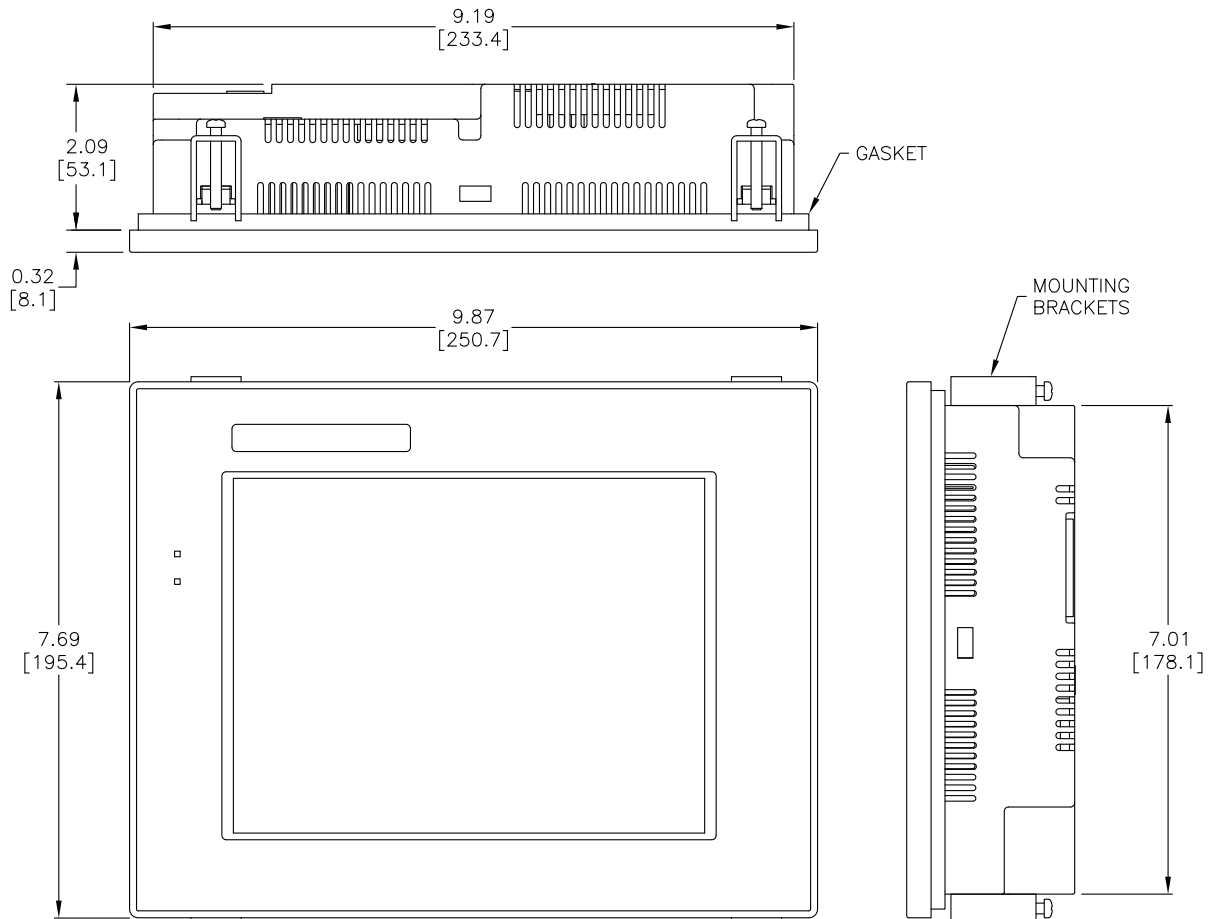


EA9-T8CL

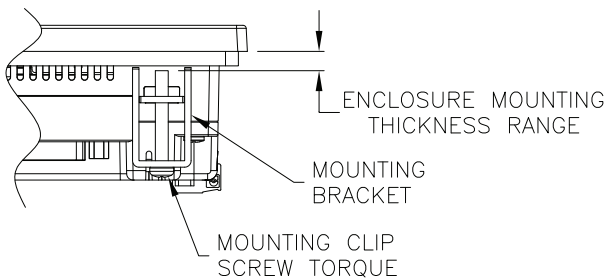
Dimensions, Inches [mm]

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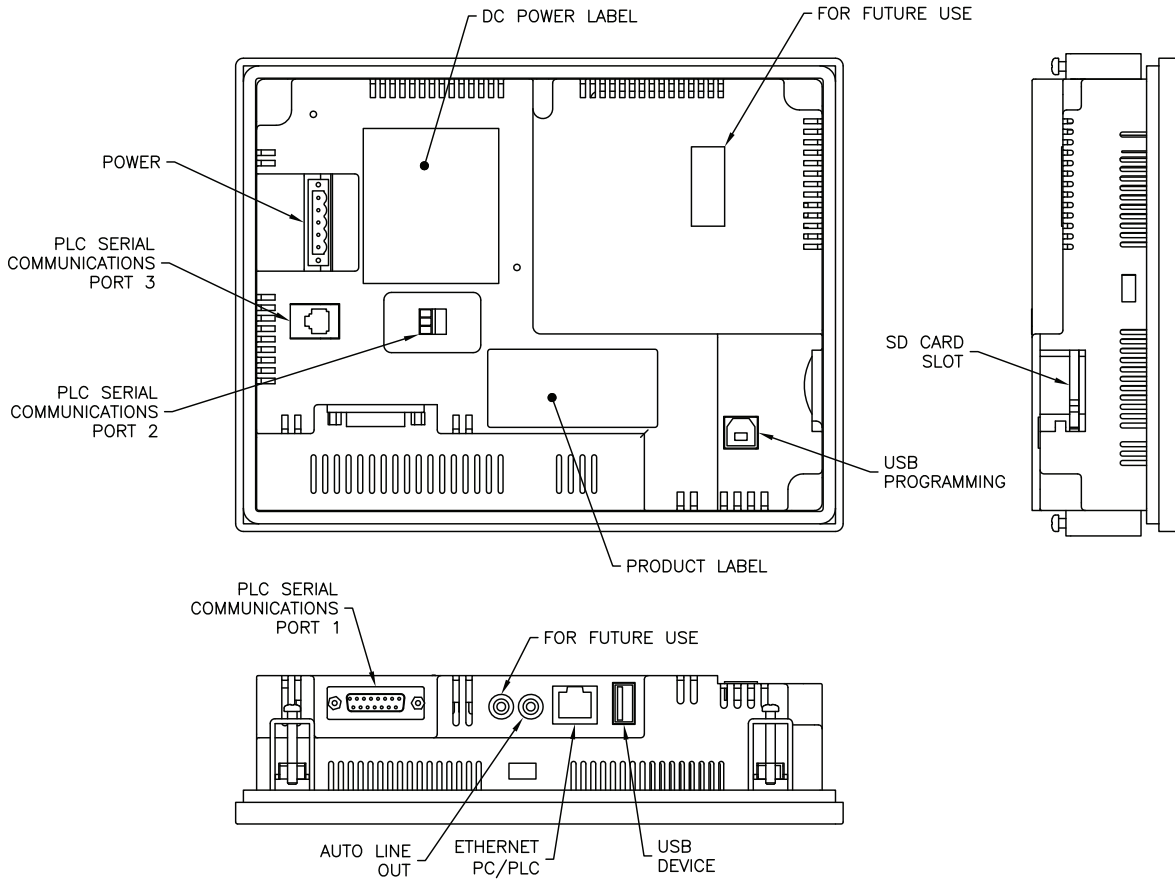
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque	Material
6", 7", 8", 10" & 12"	0.039 - 0.20 inch [1 - 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]	Metal
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Ports and Memory Expansion

EA9-T8CL



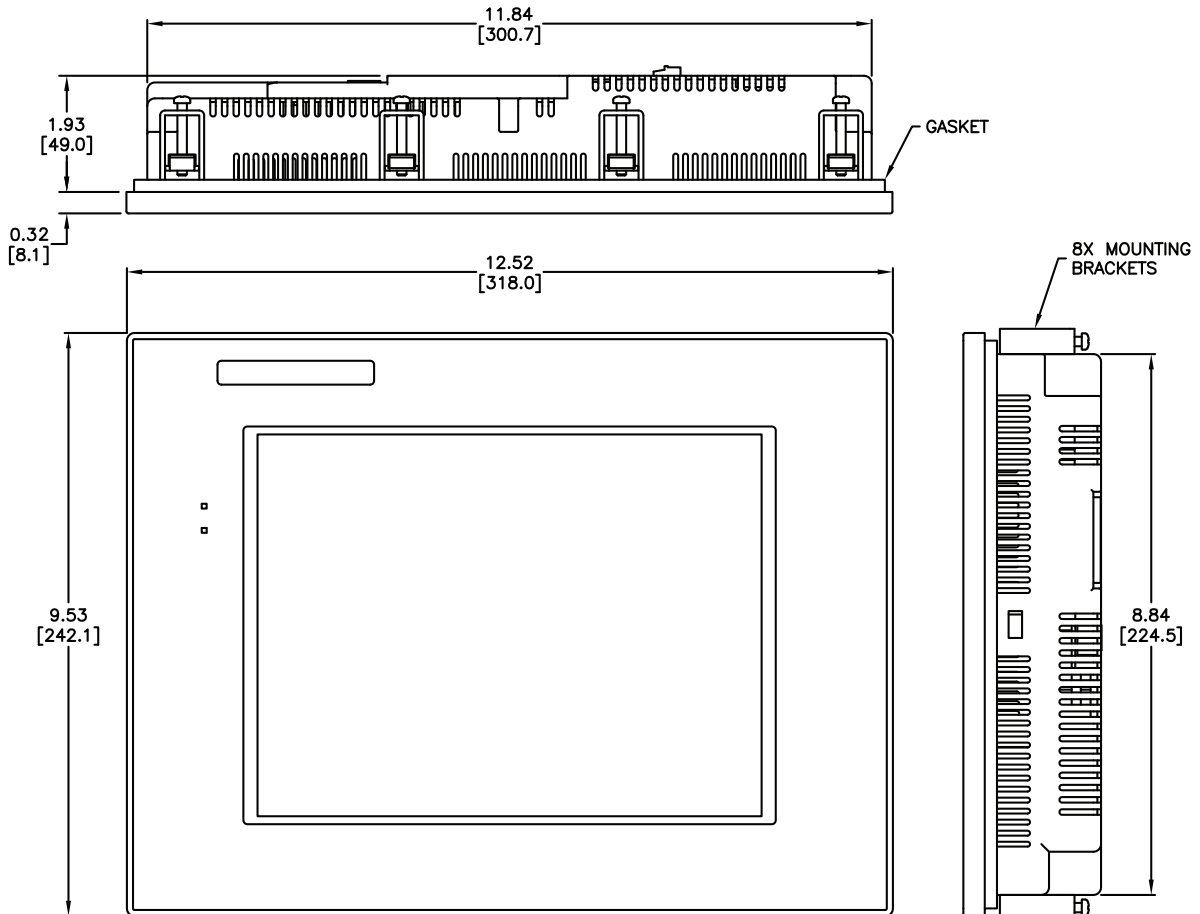
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EA9-T10CL

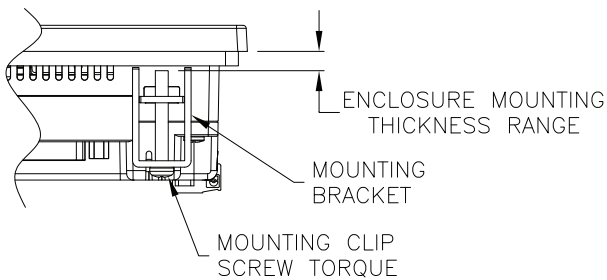
Dimensions, Inches [mm]

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Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



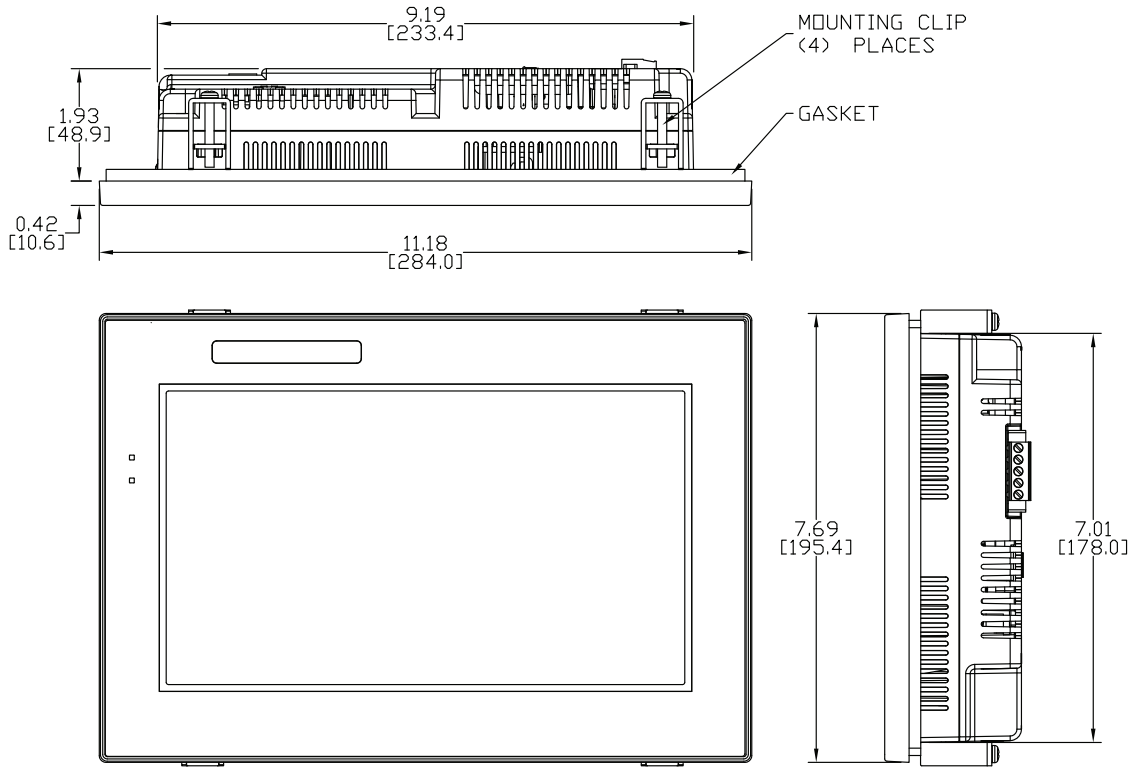
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6", 7", 8", 10" & 12"	0.039 - 0.20 inch [1 - 5 mm]	63 - 77 oz-in [0.45 - 0.55 Nm]	Metal
10" Wide, 15"	0.039 - 0.20 inch [1 - 5 mm]	92 - 106 oz-in [0.65 - 0.75 Nm]	Metal

EA9-T10WCL

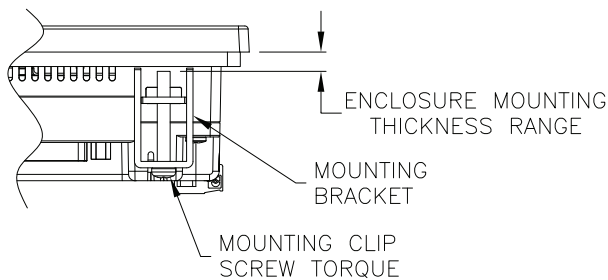
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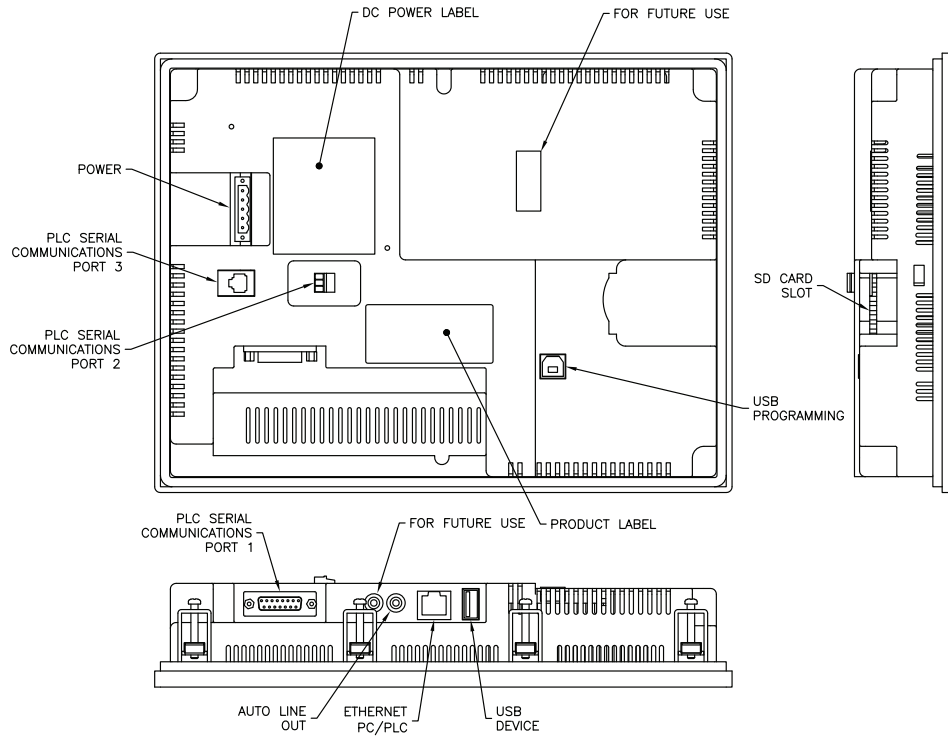
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



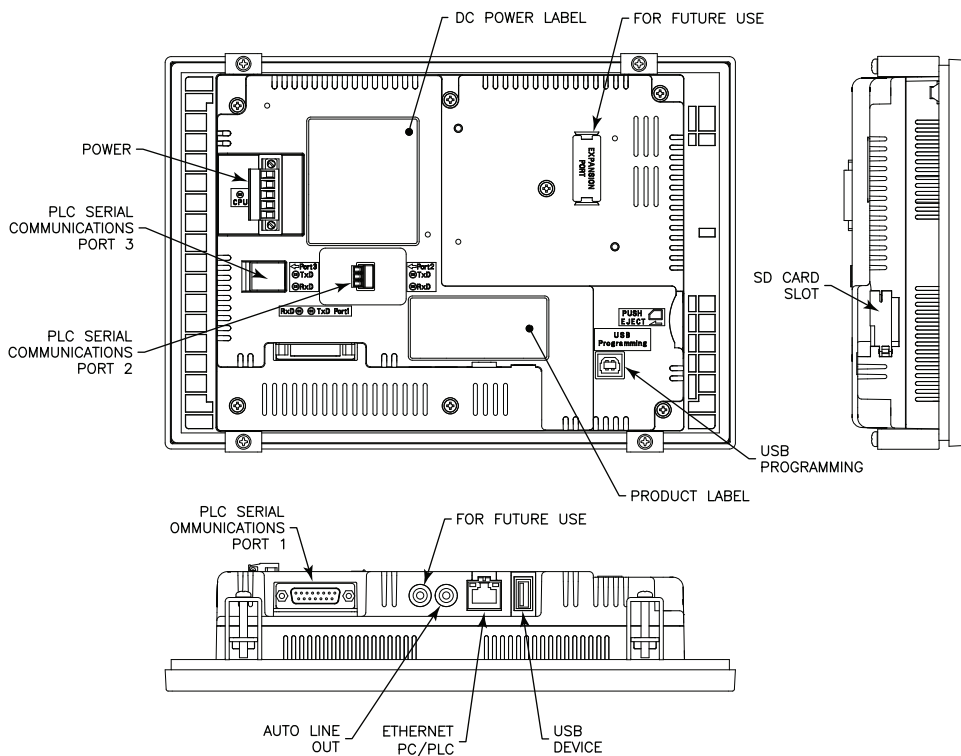
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Ports and Memory Expansion

EA9-T10CL



EA9-T10WCL

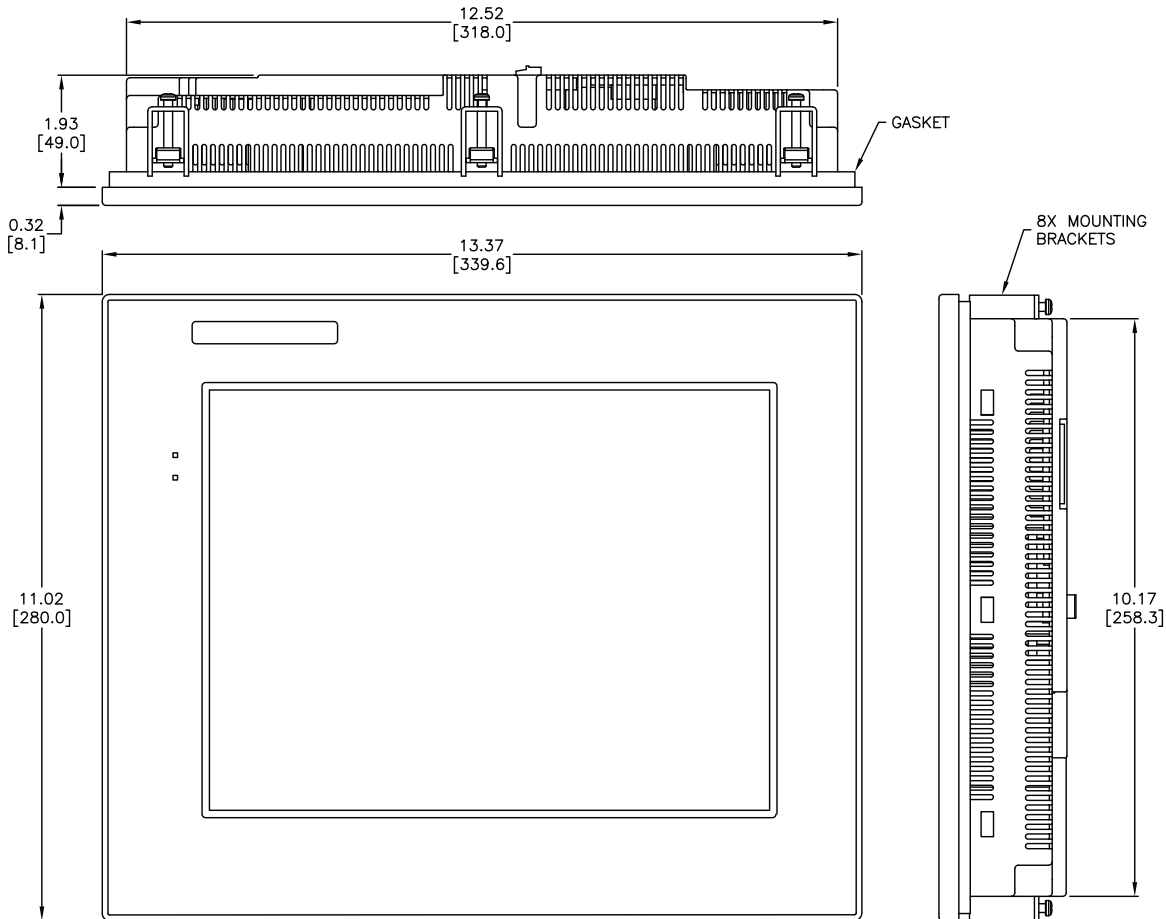


EA9-T12CL

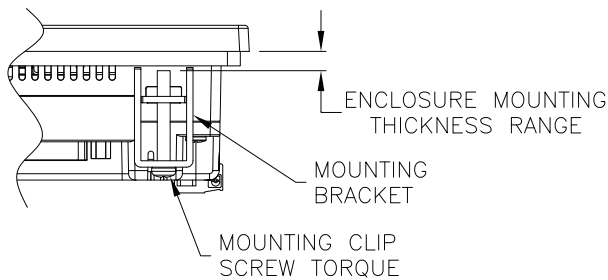
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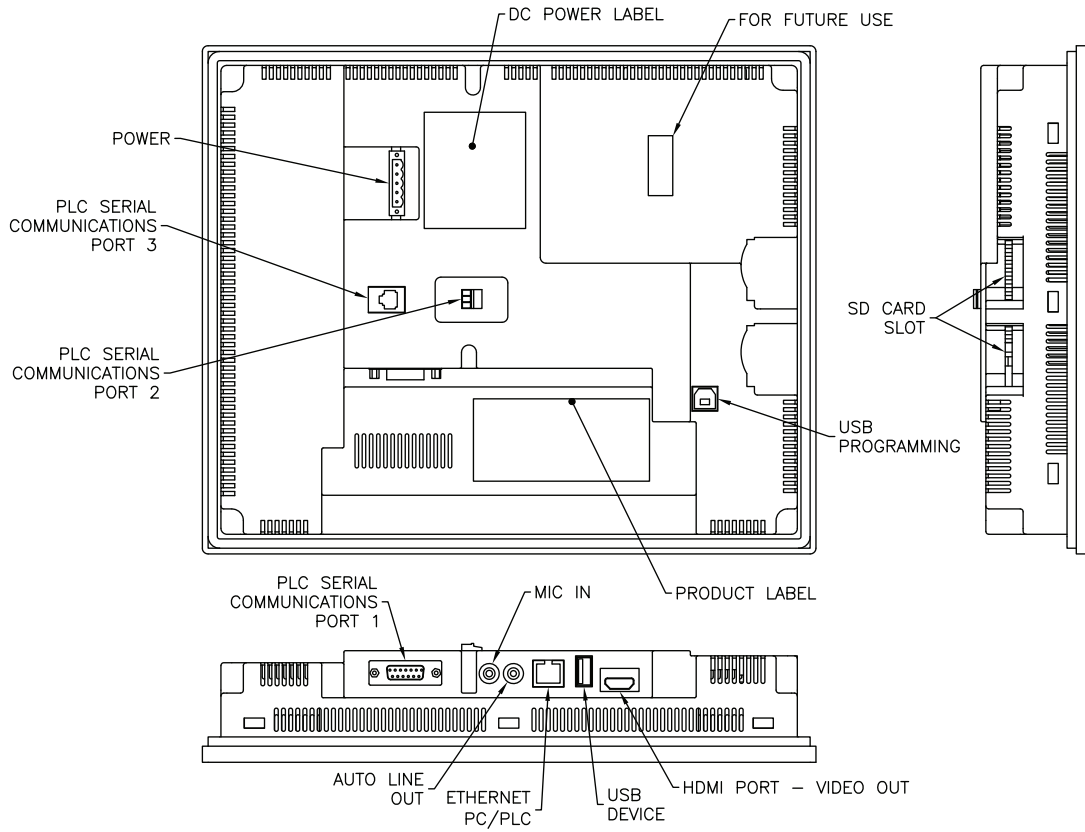
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



Touch Panel Size	Enclosure Thickness Range	Mounting Clip Screw Torque	Material
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Ports and Memory Expansion

EA9-T12CL



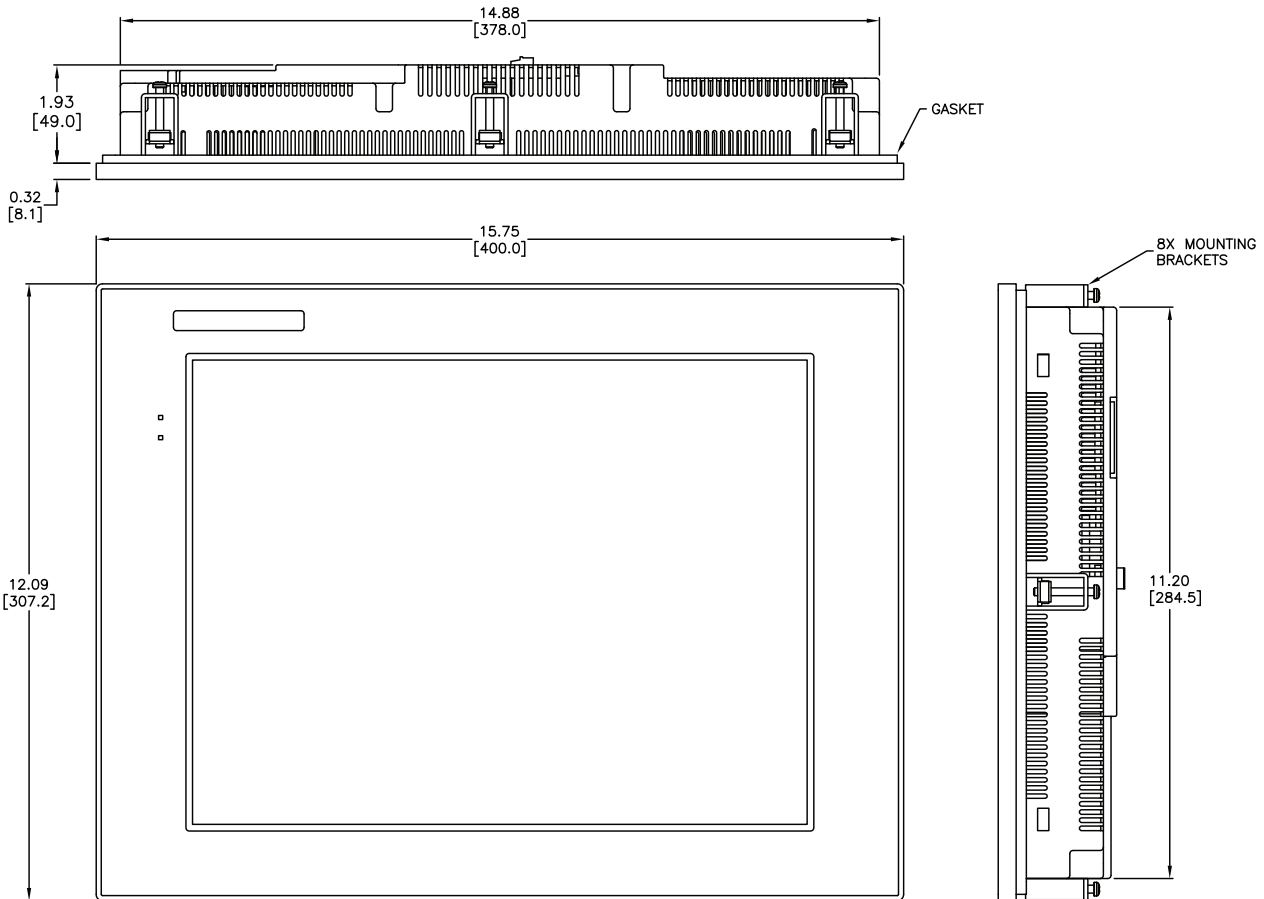
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EA9-T15CL-R, EA9-T15CL

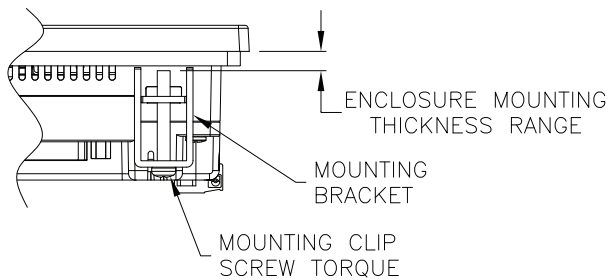
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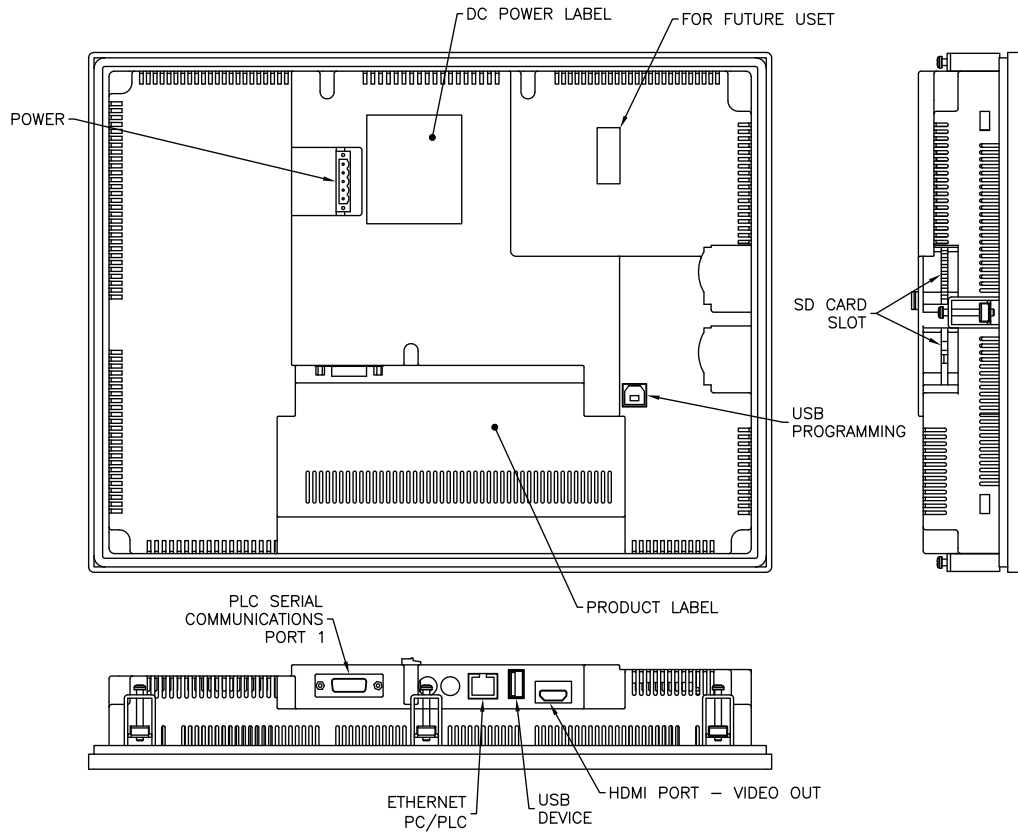
Enclosure Mounting Thickness Ranges and Mounting Clip Screw Torque



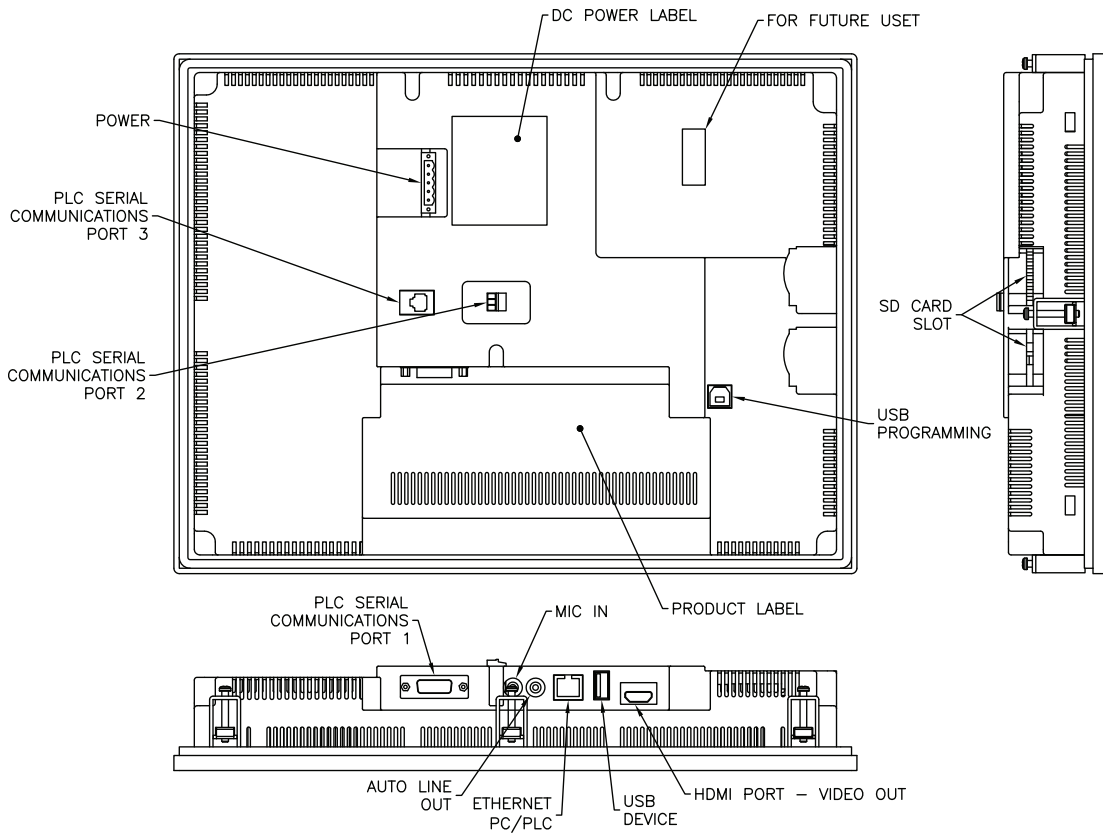
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Ports and Memory Expansion

EA9-T15CL-R



EA9-T15CL



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