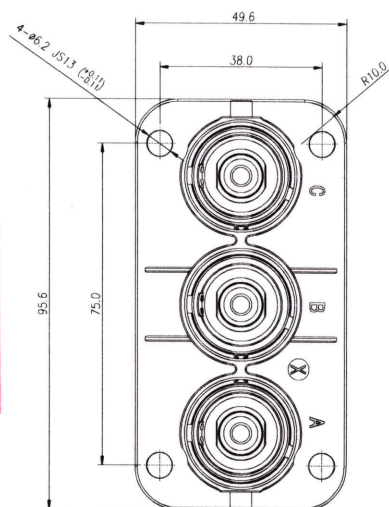
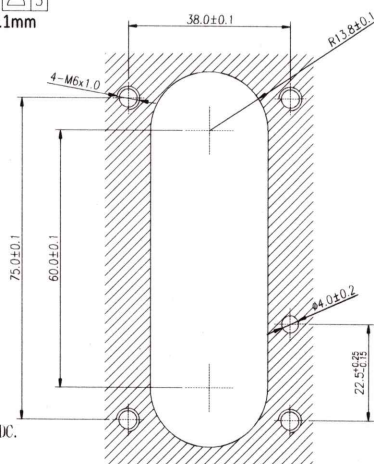


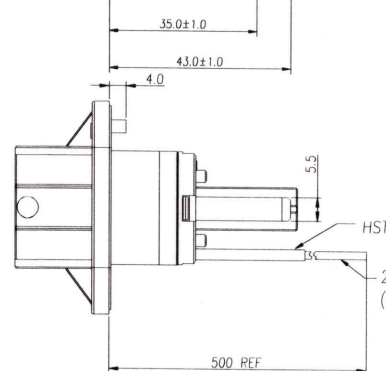
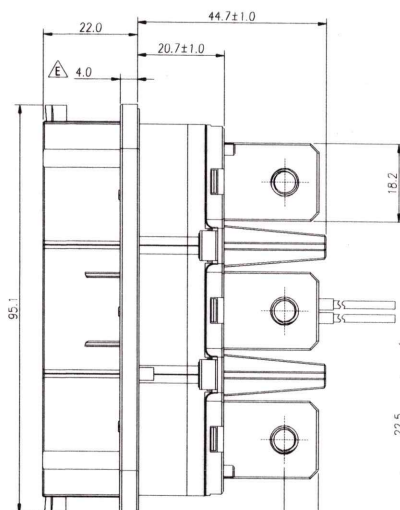
Amphenol TPI
2023-05-09
REGISTERED COPY



1. All non-dimensioned surfaces according to 3D-model & 
2. Planeness of panel surface should less than or equal to 0.1mm
3. Roughness of panel surface should be $\sqrt[3]{3}$ or better.
4. Thickness of panel should not exceed 12mm.



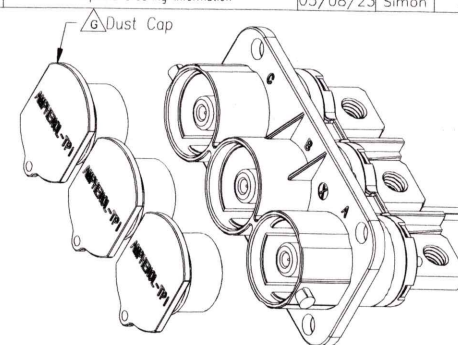
1. 工作温度 Operating temperature:
-40° C ~ +125° C.
2. 带高压互锁 Electrical interlock (HVIL).
3. 额定电流 Current rating:
Power: 300A; HVIL: 5A.
4. 额定电压 Operating voltage:
Power: 1000 VDC; Signal: 60 VDC.
5. 耐电压 Dielectric withstanding voltage:
 - A. 与插头对接后, Pin与铁壳之间
After mating, between pin and metal shell : 5000 VDC.
 - B. 与插头对接后, Pin与HVIL之间
After mating, between pin and HVIL : 5000 VDC.
 - C. 与插头对接后, HVIL与铁壳之间
After mating, between HVIL and metal shell : 500 VDC.
 - D. 与插头对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals : 500 VDC.
6. 防护等级 Protection class: IP67 & IP2X.
7. 电磁屏蔽 Shielding.
8. 机械寿命 Mating cycle: 100 Min. 
9. 带自动二次锁扣 Automatic secondary lock.
10. 铜排推荐安装扭矩 Recommended Fasten Torque on Lug:
M6 : 3.6~4.4 Nm
M8 : 7.2~8.8 Nm
M10: 17.1~20.9 Nm
11. 推荐法兰盘螺丝安装扭矩 Recommended Screw Assembly To



PL083 X - 30 1 - 10 D 8			
键位及防触帽颜色 key and touch proof color	高压互锁 HWIL 0, 不带互锁 No HWIL 1, 带互锁 With HWIL	孔种类 Hole Type D, 通孔 Through Hole H, 螺钉孔 Screw Hole H, 腰孔 Slotted Hole	螺栓规格 Bolt Size Customer Define
"X" Key, 橙色 Orange "V" Key, 黑色 Black			

Key
Characteristics  Critical
Contact  关键特性
Amphenol for
Latest
Definition  Significant
重要特性

REV	ZONE	ECO	DESCRIPTION	DATE	BY	APPR
A	--	--	INITIAL RELEASE	03/13/14	RW	EC
G	--	--	Add Dust Cap & Change HVIL Wire, Update Spec.	03/29/16	RW	TS
H	--	--	Add Geometric Tolerance of Flange & Panel	10/21/16	RW	PL
I	--	--	Change Shell and Gasket	05/10/17	Sam	Julie
J	--	--	Update Spec.	11/29/19	Steven	JL
K	--	--	Update ordering information	05/08/23	Simon	JL



Standard Part List (With HVIL)

P/N	Model NO.	Mating Plug Model NO.
AC-HA001132	PL083X-301-10D10	PL183X-301-XX, PL283X-301-XX
AC-HA001133	PL083Y-301-10D10	PL183Y-301-XX, PL283Y-301-XX
AC-HA001136	PL083X-301-10D8	PL183X-301-XX, PL283X-301-XX
AC-HA001137	PL083Y-301-10D8	PL183Y-301-XX, PL283Y-301-XX
AC-HA001138	PL083X-301-10M8	PL183X-301-XX, PL283X-301-XX
AC-HA001139	PL083Y-301-10M8	PL183Y-301-XX, PL283Y-301-XX
AC-HA001142	PL083X-301-10M6	PL183X-301-XX, PL283X-301-XX
AC-HA001143	PL083Y-301-10M6	PL183Y-301-XX, PL283Y-301-XX

Standard Part List (With Out HVIL)

P/N	Model NO.	Mating Plug Model NO.
AC-HA001144	PL083X-300-10D10	PL183X-300-XX, PL283X-300-XX
AC-HA001145	PL083Y-300-10D10	PL183Y-300-XX, PL283Y-300-XX
AC-HA001148	PL083X-300-10D8	PL183X-300-XX, PL283X-300-XX
AC-HA001149	PL083Y-300-10D8	PL183Y-300-XX, PL283Y-300-XX
AC-HA001150	PL083X-300-10M8	PL183X-300-XX, PL283X-300-XX
AC-HA001151	PL083Y-300-10M8	PL183Y-300-XX, PL283Y-300-XX
AC-HA001154	PL083X-300-10M6	PL183X-300-XX, PL283X-300-XX
AC-HA001155	PL083Y-300-10M6	PL183Y-300-XX, PL283Y-300-XX

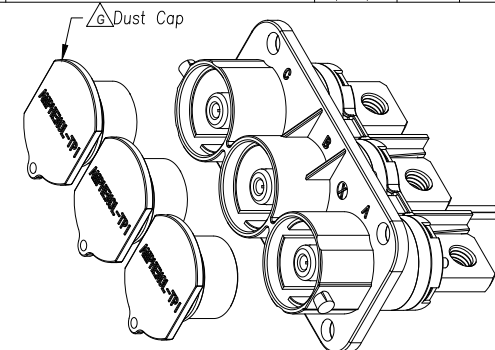
AMPHENOL TPE

Amphenol Technical Products International Asia.

第三角投影 THIRD ANGLE PROJECTION	页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME: PwrLok 10mm SPOS Rcpt Conn
	1 of 1	A3	K		
日期 DATE 05/08/23 05/08/2023	UNLESS OTHERWISE SPECIFIED 1) All dimensions are in metric(mm). 2) Tolerances are as follows: 0 PL DEC ±1.00 1 PL DEC ±0.50 2 PL DEC ±0.20 Angles ±1°				DWG NO: PLO83-300-10
CUST PART # N/A					CUST REV. -

Customer Drawing

6			7		8		
			REVISIONS				
REV	ZONE	ECO	DESCRIPTION	DATE	BY	APPR	
A	--	--	INITIAL RELEASE	03/13/14	RW	EC	
G	--	--	Add Dust Cap & Change HWL Wire, Update Spec.	03/29/16	RW	TS	
H	--	--	Add Geometric Tolerance of Flange & Panel	10/21/16	RW	PL	
I	--	--	Change Shell and Gasket	05/10/17	Sam	Julie	
J	--	--	Update Spec.	11/29/19	Steven	JL	
K	--	--	Update ordering information	05/08/23	Simon	JL	



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 - C. 与插头对接后, HVIL与铁壳之间
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 - D. 与插头对接前, 两个HVIL端子之间耐压
Before mating, between two HVIL terminals :500 VDC.

PL083	X	-	30	1	-	10	D	8
键位及防触帽颜色 Key and touch proof color		高压互锁 HVIL		孔种类 Hole Type		联接螺栓 Bolt Size		
"X" Key, 橙色 Orange		0, 不带互锁 No HVIL		D, 通孔 Through Hole		Customer Define		
"Y" Key, 黑色 Black		1, 带互锁 With HVIL		M, 螺纹孔 Screw Hole				
				H, 腰孔 Slotted Hole				

Key Characteristics  Critical
Contact 关键特性
Amphenol for
Latest  Significant
Definition 重要特性

AMPHENOL
TP

Amphenol Technical Products International Asia.

第三角投影 THIRD ANGLE PROJECTION	页面 SHEET	幅面 SIZE	版次 REV.	比例 SCALE	PART NAME: PwrLok 10mm 3POS Rcpt Conn
	1 of 1	A3	K		
日期 DATE	UNLESS OTHERWISE SPECIFIED				DWG NO: PL083-300-10
05/08/23	1) All dimensions are in metric(mm). 2) Tolerances are as follows: 0 PL DEC ±1.00 1 PL DEC ±0.50 2 PL DEC ±0.20 Angles ±1°				
					CUST PART #: N/A
					CUST REV. -