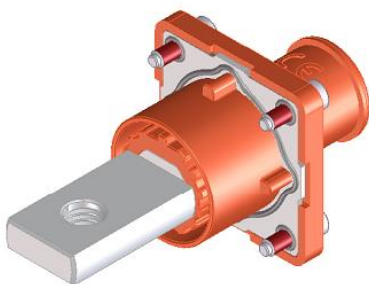


Phoenix Contact Product Datasheet

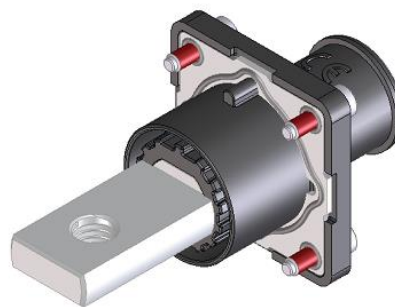
Article:

PxC 订货号	描述/类别
PxC Order No.	Description/Type
1320209	ES-FT-BPC-B/S 35-70 OG TW
1320212	ES-FT-BPC-B/S 35-70 BK TW

3D photo:



(1320209) Positive



(1320212) Negative

技术参数 Technical parameters:

颜色 Color: 外壳黑色/橙色; Housing: Black/Orange

外壳阻燃特性 Housing Flammability: UL94 V0

额定电压 Rated voltage: 1500 V DC

浪涌电压类别 Surge voltage category / 污染等级 contamination level : III/2

海拔: 4000 米/ Altitude:4000m

额定电流 Rated current: 250A

耐电压值 / Dielectric Withstand Voltage: 10KV DC

初始接触电阻值 / Initial contact resistance: $\leq 0.5\text{m}\Omega$

接触电阻变化值 / contact resistance change (ΔR): $\leq 0.5\text{m}\Omega$

连接方式 contact method: 螺纹连接 screw connection

面板安装螺钉扭力推荐值 / Panel fixing screw tightening torque: 0.6Nm

螺栓螺母固定扭力推荐值 / Max Bolt/Nut Tightening torque: MAX 8Nm

温升/Temperature Rise: 环境温度 $T_a=25^{\circ}\text{C}$ 时满载 250A, 温升不超过 45K。When environment temperature $T_a=25^{\circ}\text{C}$, rated current reach 250A, the temperature rise should not exceed 45K.

螺钉类型 Screw type: 一字十字复合螺钉 H1L screw

插座与插头整体插拔力 / Total Mating & Unmating Force: 插入力 75N Max.; 拔出力 $\geq 10\text{N}$ /Insertion force 75N Max.; withdraw force $\geq 10\text{N}$

储存和运输的环境温度 Ambient temperature (Storage/transport): $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$

工作温度 Working temperature: $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (含温升 include. temperature rise)

无卤 Halogen-free

耐腐蚀能力 Corrosion load: 锁紧螺钉未安装前满足中性恒定盐雾 30 天测试(ISO9227, 等同 EIA-364-26); Fix screw, before installation, conform to 10 days continuous NSS test (ISO9227, equal to EIA-364-26).

IP 防护等级要求/IP protection requirement: IP65 (面板为通孔) & IP67 (面板为盲孔) IP65 (the hole in panel is through hole) & IP67 (the hole in panel is blind hole)

湿热循环/ Humidity- Temperature Cycling: $25^{\circ}\text{C} \sim 65^{\circ}\text{C}$; 90%~95% RH; 10 次, 零件无损伤, (EIA-364-31B)。 $25^{\circ}\text{C} \sim 65^{\circ}\text{C}$, 90%~95% RH, 10 Cycles, then single parts without damage (Refer to EIA-364-31B).

温度寿命/ Temperature life: 温度 125°C 下持续 250 小时, 测试后零件无损伤变形 (EIA-364-17B)。 250 hours at 125°C ; After test, single parts without damage (Refer to EIA-364-17B).

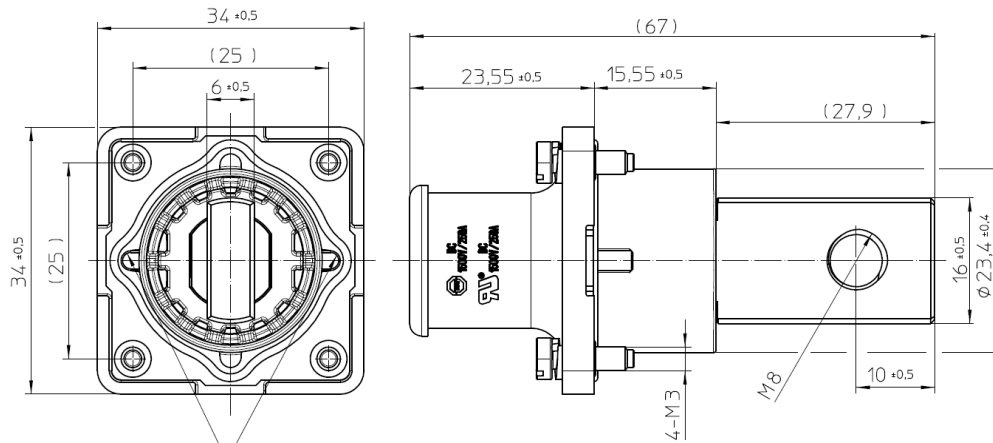
插拔次数 Plug / activating cycles: 100 次 / 100 times

温度冲击/ Thermal Shock: -40°C (30 分钟), $+125^{\circ}\text{C}$ (30 分钟); 重复 5 次; 零件无损伤, (EIA-364-32E:2008)。 -40°C (30 min), $+125^{\circ}\text{C}$ (30 min). Repeat 5 times; No damage to the parts. (EIA-364-32E:2008).

机械振动/ Vibration: 频率: 10-55-10Hz; 振幅 1.52mm; 每个垂直面持续 2 小时; 电流瞬断时间小于 1us, 振动后接触阻抗满足规格。 10-55-10 Hz Traversed in 1 minutes at 1.52mm amplitude 2 hours each of 3 mutually perpendicular planes; Electrical discontinuity less than 1us. After test, change of contact resistance still fit requirements (EIA-364-28)

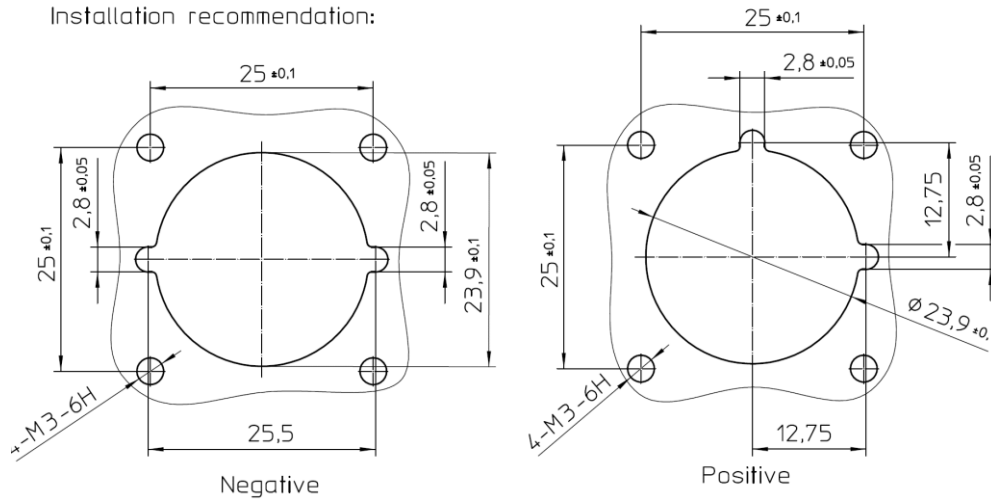
机械冲击/ Mechanical Shock: 加速度 490m/s^2 ; 半正弦波; 持续 11 毫秒; $\pm X, \pm Y, \pm Z$, 方向各 3 次; 电流瞬断时间小于 1us。冲击后, 接触阻抗满足规格。 Accelerate Velocity: 490m/s^2 ; Waveform: Half-sine shock plus; Duration: 11msec; 3 drops each to normal and reversed directions of X,Y and Z axes; Electrical discontinuity less than 1us. After test, change of contact resistance still fit requirements (EIA-364-27B, test condition E).

轮廓尺寸 Outline dimension:



The angle between coding structure:
Negative socket: 180°

Installation recommendation:



材质 Materials:

外壳: 尼龙

Housing: PA

插拔的接触件: 铜及铜合金

Contacts: Copper and copper alloy

镀层材料及厚度/ Plating: Ni/Ag.

密封件: 橡胶 Sealing: rubber

标准和认证 Standard & Certification:

1. TUV (PPP 51090A) 认证。 TUV (PPP 51090A) certification.
2. UL4128 认证。 UL4128 certification.