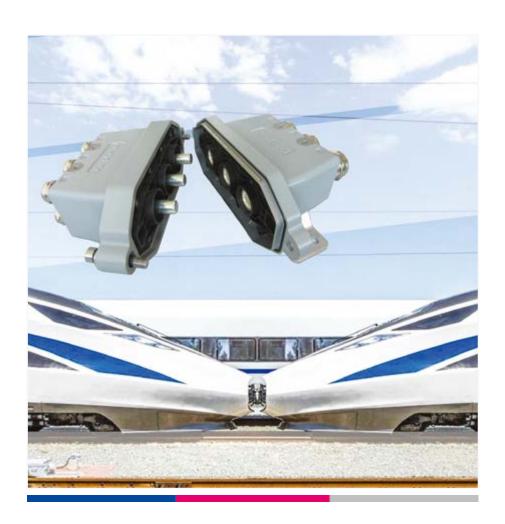




EMP

Electrical Motor Power



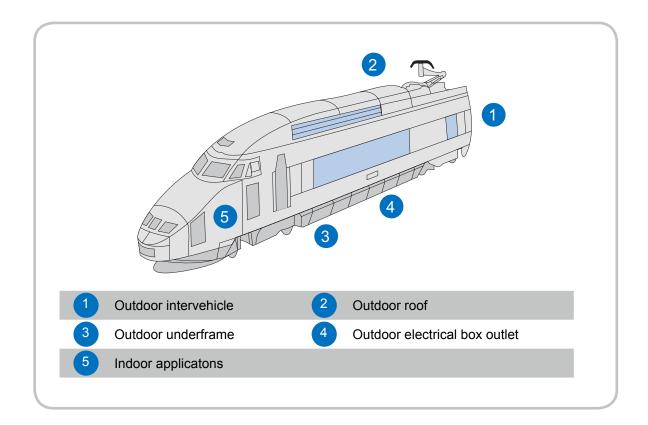
PRODUCT PROFILE

MP (Electrical Motor Power) provides a high voltage and huge current connection for RMT applications. It's a rectangular connector, and with high strength stainless steel screw/nut mechanism, provides safety and reliability under harsh environmental application: motor power distributions.

mphenol EMP series product offers a wide range of current up to 700 A and 3000 V max, high voltage, various type of codings & shielding and un-shielding shells. Spring fingers on plug shell provides a better shielding effectiveness.

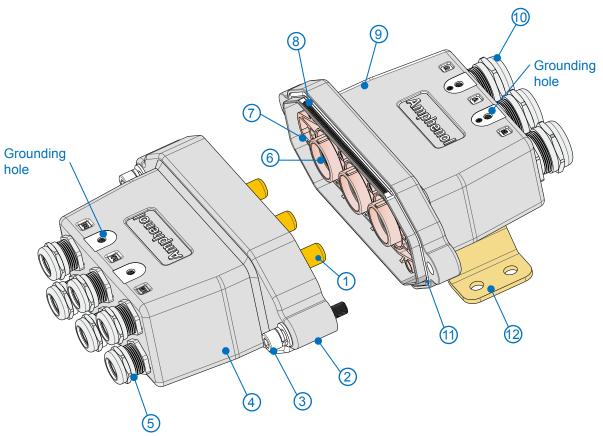


Application



P/N		App	olica	tion	S	Shielding	Applicable cable cross-section (mm²)
	1	2	3	4	5		
EMP SF 33 SC R10 DXX		1	1			V	25 to 70
EMP SM 33 PC R10 DXX		V	V			\checkmark	25 to 70
EMP SF 33 SC R18 DXX		V	V			V	150 to 240
EMP SM 33 PC R18 DXX		V	V			V	150 to 240
EMP SF 3C DXX		√	V			√	50 to 185
EMP SM 6C DXX		√	V			\checkmark	25 to 70
EMP SF 44 SC R10 DXX		V	1			V	25 to 70
EMP SM 44 PC R10 DXX		V	V			√	25 to 70

Construction and Material



Item	Description	Material
1	Pin Contacts	High conductivety copper alloy
2	Plug shell	High strength aluminium alloy
3	Coupling kits	High strength stainless stell screw kits
4	Insert	Thermoplastics (EN45545)
5	Gland	Copper alloy with EMC spring
6	Socket contacts	High conductivety copper alloy with RADSOK® technology
7	Insert	Thermoplastics
8	Finger	Beryllium copper alloy
9	Rece. shell	High strength aluminium alloy
10	Gland	Copper alloy with EMC spring
11	O-Ring	Rubber (EN45545)
12	Bracket	High strength steel or integrated

EMP 3 in-6 out connectors

2000V 500A

Specially for power connections from inverters toward motors: Splitting device (3 lines in, 6 lines out)

P/N: EMP SF 3C DXXX (Receptacle) EMP SM 6C DXXX (Plug)

Contact type: D120 means 120mm²/Crimp



Shell: Aluminium alloy

■ Insert: Thermoplastics

■ Contact: Copper alloy / silver plated / crimp type

Cable gland: Nickel plated brass

Mechanical and Climatical

■ Vibrations and Shocks: Category 1, Class B (EN61373)

■ Operating temperature: -55°C to 125°C

■ IP Class: IP67

■ Durability: 500 cycles

Electrical data

■ Rated voltage: 2000 V r.m.s

■ Rated current: 500A max.

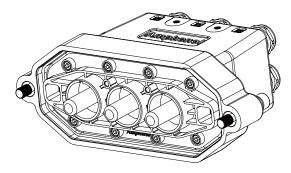
Receptacle side-3 cables: 50 to 185 mm²

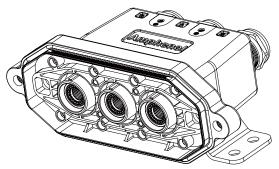
■ Plug side- 6 cables: 25 to 70 mm²

■ Insulation resistance: 5000 M Ω Min.

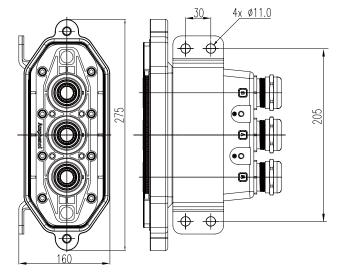
■ Contact resistance: <0.3 mΩ



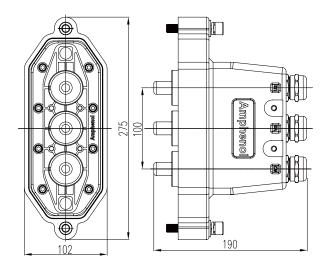




Dimensions (mm)



EMP SF 3C DXXX Receptacle



EMP SM 6C DXXX Plug

Linear power connections for motors 3 lines in, 3 lines out

P/N: EMP SF 33 SC R10 DXX (Receptacle) EMP SM 33 PC R10 DXX (Plug)

Contact type: D70 means 70mm²/Crimp

Material

■ Shell: Aluminium alloy

Insert: Thermoplastics

■ Contact: Copper alloy / silver plated / crimp type

■ Cable gland: Nickel plated brass

Mechanical and Climatical

■ Vibrations and Shocks: Category 1, Class B (EN61373)

■ Operating temperature: -55°C to 125°C

■ IP Class: IP67

■ Durability: 500 cycles

Electrical data

Rated voltage: 3000 V r.m.s

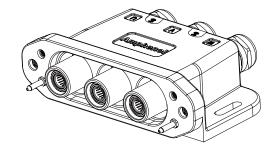
Rated current: 250A max.

■ Cables: 25 to 70 mm²

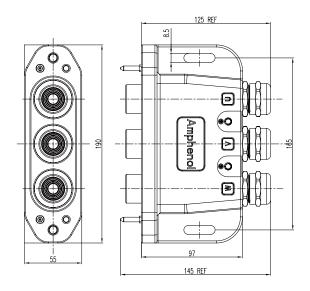
Insulation resistance: 5000 MΩ Min.

■ Contact resistance: <0.3 mΩ

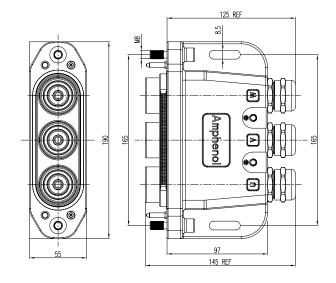




Dimensions (mm)



EMP SF 33 SC R10 DXX Receptacle



EMP SM 33 PC R10 DXX Plug

Linear power connections for motors 3 lines in, 3 lines out

P/N: EMP SF 33 SC R18 DXXX (Receptacle) EMP SM 33 PC R18 DXXX (Plug)

Contact type: D150 - cable diameter 150mm²

Material

Shell: Aluminium alloy

Insert: Thermoplastics

■ Contact: Copper alloy / silver plated / crimp type

Cable gland: Nickel plated brass

Mechanical and Climatical

■ Vibrations and Shocks: Category 1, Class B (EN61373)

■ Operating temperature: -55°C to 125°C

■ IP Class: IP67

■ Durability: 500 cycles

Electrical data

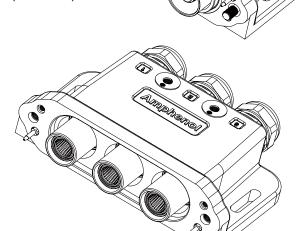
Rated voltage: 4000 V r.m.s

■ Rated current: 700A max.

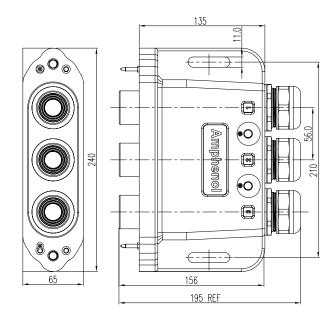
cables: 150 to 240 mm²

■ Insulation resistance: 5000 M Ω Min.

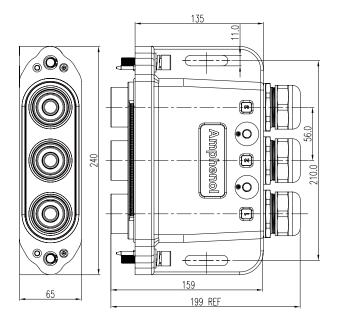
■ Contact resistance: <0.15 mΩ</p>



Dimensions (mm)



EMP SF 33 SC R18 DXXX Receptacle



EMP SM 33 PC R18 DXXX Plug

Linear power connections for motors 4 lines in, 4 lines out

P/N: EMP SF 4CR10 DXX (Receptacle) EMP SM 4CR10 DXX (Plug)

Contact type: D70 means 70mm²/Crimp

Material

■ Shell: Aluminium alloy

■ Insert: Thermoplastics

■ Contact: Copper alloy / silver plated / crimp type

■ Cable gland: Nickel plated brass

Mechanical and Climatical

■ Vibrations and Shocks: Category 1, Class B (EN61373)

■ Operating temperature: -55°C to 125°C

■ IP Class: IP67

■ Durability: 500 cycles

Electrical data

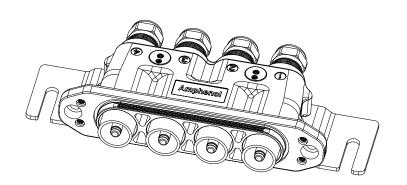
■ Rated voltage: 3000 V r.m.s

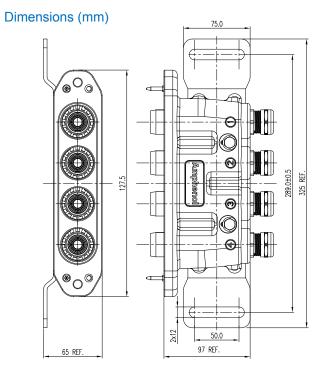
Rated current: 250A max.

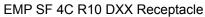
■ cables: 25 to 70 mm²

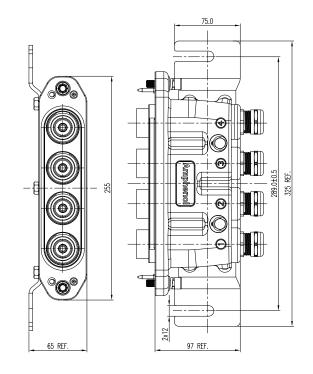
■ Insulation resistance: 5000 M Ω Min.

■ Contact resistance: <0.3 mΩ









EMP SM 4C R10 DXX Plug

TOOLS

Extraction tools

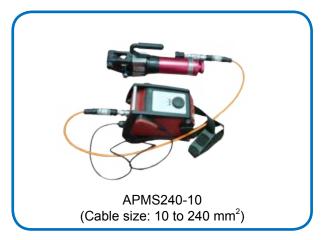






Crimping tools







Amphenol PCD Shenzhen

Building 21 1st Liao Keng Industrial Zone Shi Yan Street, Bao An District Shenzhen 518108 China

Tel.: +86 755-8173-8000 Fax: +86 755-8173-8180

Email: inquiry@amphenolpcd.com.cn

www.amphenolpcd.com.cn

Notes:

Amphenol PCD Shenzhen has made every effort to ensure that the information contained in this catalog is accurate at the time of publication. Specifications or information stated in this publication are subject to change without notice.

Amphenol PCD Shenzhen reserves the right to clarify this catalog.