

SMN Snap Switches

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 /1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP66 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Rated Voltage : 220-240V.AC. 50/60Hz.

Electrical rating range : 5- 30A. 2 Poles

Type :SMN

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

Descriptions:

The SMN snap switches are designed for use in hazardous areas due to the presence of flammable gases or vapors,combustible dusts or ignitable fibers. to prevent arcing of enclosed switches during connect and disconnect operation in a specific hazardous atmospheres. for disconnecting means of small AC or DC appliances or lihghting circuits. for indoor or outdoor in damp, wet or corrosive locations.



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Standard Materials:

- Body, cover and operating handle - Copper-free aluminium
- Bolts and mechanism - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Features:

- Compact rectangular shape enclosure.
- Two mounting lugs.
- Dead-end or through-feed conduit hub.
- Two mounting lugs.
- Safety breaker switch for automatically shut down the circuit in the event of an overcurrent or short circuit current.
- Switch can be locked in "ON" or "OFF" position.
- Single gang , two gang or three gangs on request.

Catalogue Numbers :



Rating (Amps, 2-Poles	Dead - end		Through - feed	
	Hub Size NPT(inch)		Hub Size NPT(inch)	
	1/2"	3/4"	1/2"	3/4"
Single Gang				
5	SMN11-205	SMN12-205	SMN11H - 205	SMN12H - 205
10	SMN11-210	SMN12-210	SMN11H - 210	SMN12H - 210
15	SMN11-215	SMN12-215	SMN11H - 215	SMN12H - 215
20	SMN11-220	SMN12-220	SMN11H - 220	SMN12H - 220
30	SMN11-230	SMN12-230	SMN11H - 230	SMN12H - 230
Two Gangs				
5	SMN21-205	SMN22-205	SMN21H - 205	SMN22H - 205
10	SMN21-210	SMN22-210	SMN21H - 210	SMN22H - 210
15	SMN21-215	SMN22-215	SMN21H - 215	SMN22H - 215
20	SMN21-220	SMN22-220	SMN21H - 220	SMN22H - 220
30	SMN21-230	SMN22-230	SMN21H - 230	SMN22H - 230
Three Gangs				
		Hub Size NPT(inch)	Hub Size NPT(inch)	
		1"	1"	
10		SMN33-210		SMN33H - 210
15		SMN33-215		SMN33H - 215
20		SMN33-220		SMN33H - 220
30		SMN33-230		SMN33H - 230

Note: The snap switch two gangs and three gangs for dead-end shall be supply stopping plug for closing threaded conduit hubs

of the explosionproof enclosure.

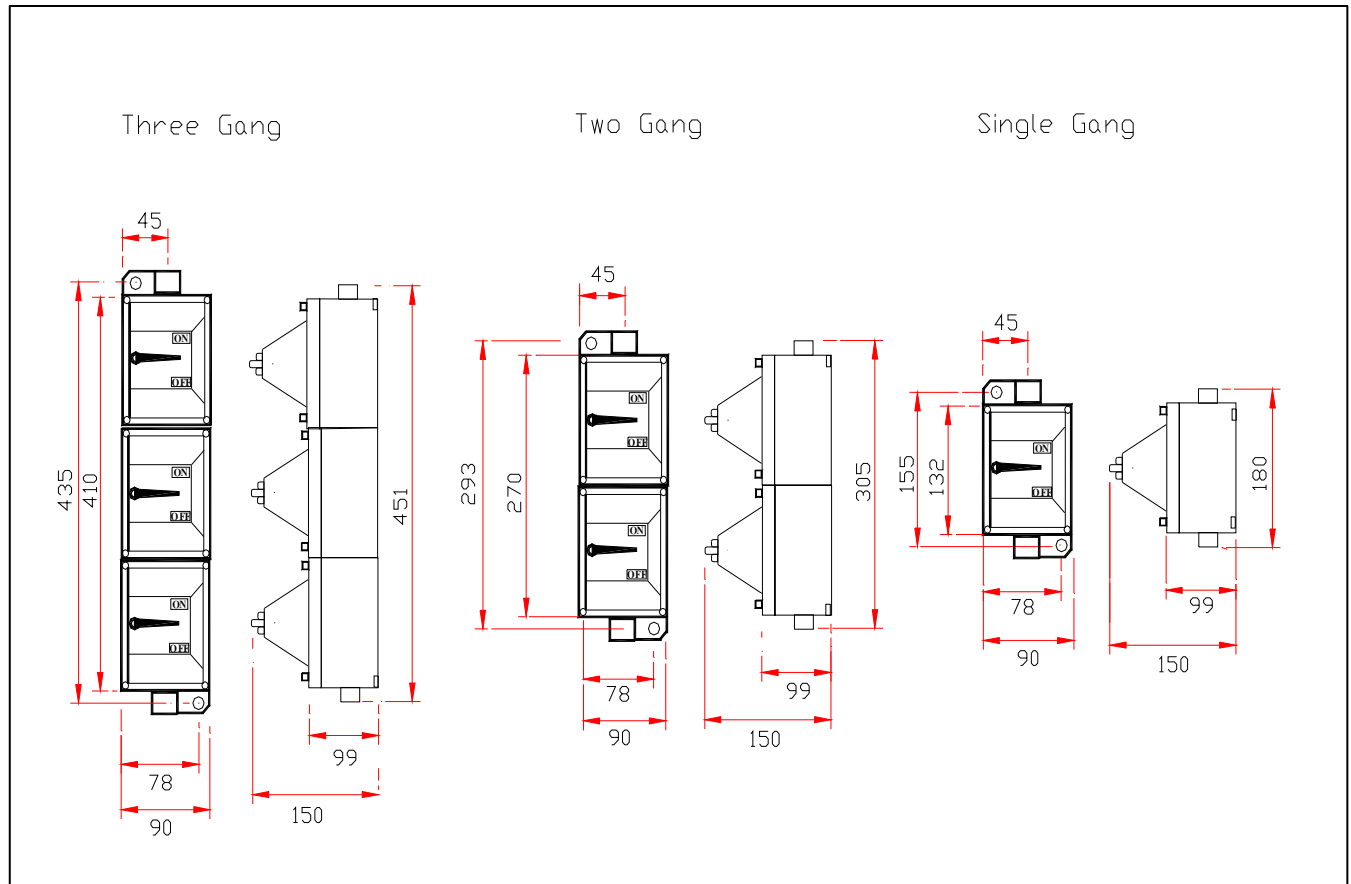
SMN Snap Switches

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Dimensions in MM.



SIS Isolating Switches

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 /1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP66 acc.To IEC 60529

Ambient Temp. (Ta) : -20 °C to + 55 °C

Rated Voltage : 400V.AC. 50/60Hz.

Electrical rating range : 16 - 32A. 3 Poles

Type : SIS

Protection class for UL. : Class I, Division 1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone 1 and Zone 2



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SIS

Descriptions :

The SIS isolating switches are suitable for use in hazardous areas due to the presence of flammable gases or vapors, combustible dusts or ignitable fibers. to prevent arcing of enclosed switches during connect and disconnect operation in a specific hazardous atmosphere. for manual disconnecting means of small AC or DC appliances. for indoor or outdoor in damp, wet or corrosive locations.

Features:

- Enclosure in corrosion resistant copper-free aluminium alloy.
- Prevent entrance of moisture or liquid by neoprene gasket.
- Two mounting lugs.
- Through-feed conduit hub.
- ABB switches or equivalent.

Standard Materials:

- Body and cover - Copper-free aluminium
- Bolts and mechanism - Stainless steel

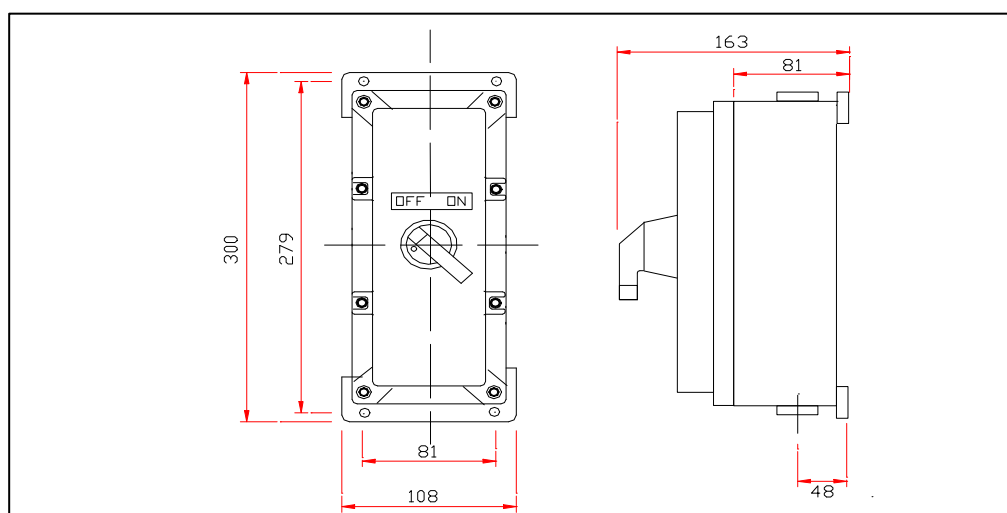
Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Stainless steel - Natural

Catalogue Numbers :

Rating (Amp.)	Hub Size	Cat.No.
3-Poles	NPT (inch)	
16	3/4"	SIS 316
25	3/4"	SIS 325
32	1"	SIS 332

Dimensions : (in mm.)



REQ Receptacles and EPJ Plug Factory Sealed



EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 /1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP66 acc.To IEC 60529

Rated Voltage : up to 600 V-

Rated current : up to 63A.

Electrical rating range : 16 - 63A.

Type : REQ , RPJ

Protection class for UL. : Class I, Division1 or 2 Group.C,D

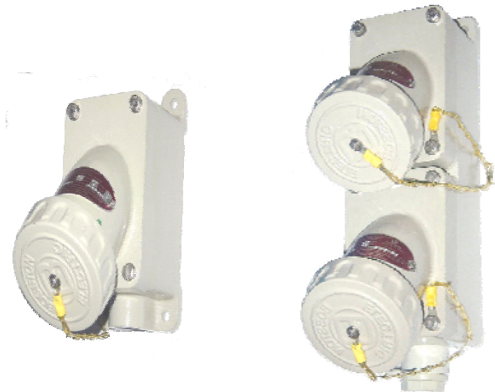
Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2

ONE GANG

TWO GANG



REQ RECEPTACLES

Descriptions :

The RPJ receptacle and REQ plug Series are suitable for:
hazardous locations due to the presence of flammable gasses or vapors.
installation in petroleum refineries, chemical plants processing of grain,
flour of starch, and storage areas where hazardous substances
are handled.
damp, wet or corrosive locations.
area where heavy duty receptacles and plugs are necessary.

EPJ PLUG



Features:

- Angle type receptacles, 3/4 inch NPT dead for 16 - 32 AT. And 1.1/4' inch NPT through feet 40 - 63 AT.
- Single gang or two gangs on request. (40 - 63AT. Only one Gang)
Two mounting lugs.
- Receptacles and plugs are equipped with a mechanism which prevents
with drawal of plug until the release knob is pressed.
- Plug have extra long grounding poles, make contact first and break
contact last for maximum safety.
- Factory sealed receptacles to simplify installation and wiring
external seals are not required.
- The key slot provided in the receptacles engages the key of the plugs
permitting entrance in only one position.



REQ RECEPTACLES

For 40 - 63 AT.

Standard Materials:

- Receptacle housing, cover and plug exteriors - Copper-free aluminium
- Insulation - Bakelite
- Solid split-type contact - Brass
- Mechanism and bolts - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Brass - Silver plated
- Stainless steel - Natural

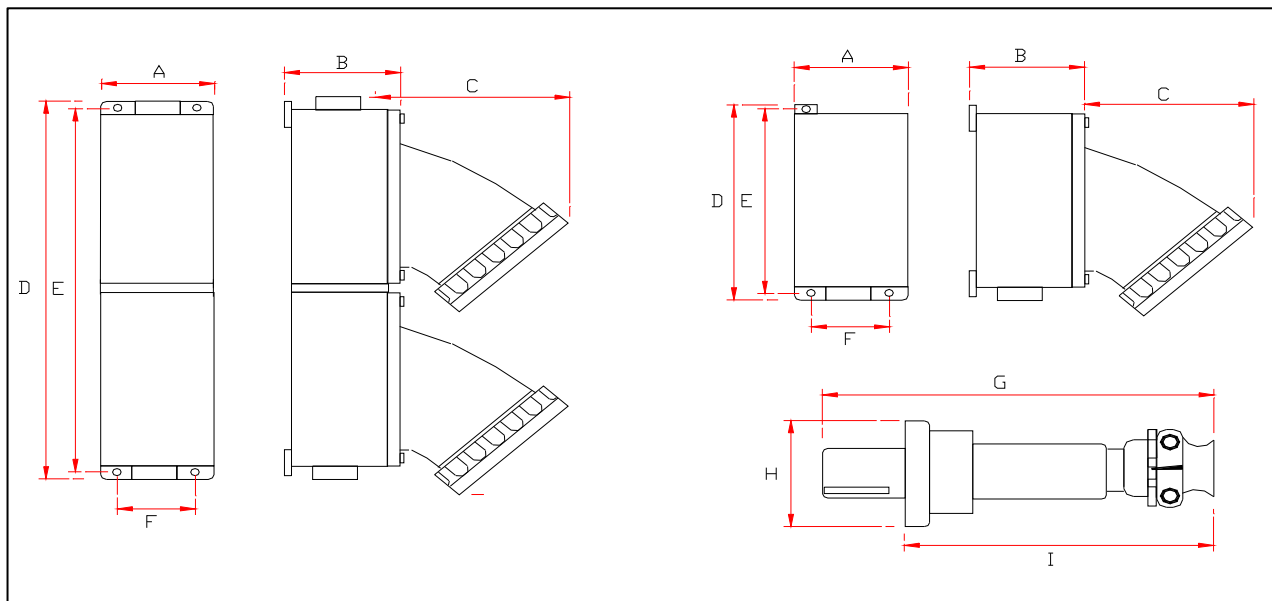


REQ Receptacles and EPJ Plug Factory Sealed

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



Dimension in mm.

Amp. Trip	ONE GANG										TWO GANG									
	A	B	C	D	E	F	G	H	I		A	B	C	D	E	F	G	H	I	
1PH / 2W / 3P (2P+G)																				
16	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
20	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
25	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
32	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
40	160	193	210	100	90	137	252	90	180						-					
50	160	193	210	100	90	137	252	90	180						-					
63	160	193	210	100	90	137	252	90	180						-					
3PH / 3W / 4P (3P+G)																				
16	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
20	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
25	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
32	90	73	162	177	155	70	153	75	110		90	73	162	350	295	70	153	75	110	
40	160	193	210	100	90	137	252	90	180						-					
50	160	193	210	100	90	137	252	90	180						-					
63	160	193	210	100	90	137	252	90	180						-					

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Phase/Wire/Pole	Hub Size			Receptacle Cat.,No.		Plug Cat..No.
	AT	Pole	NPT(inch)	One Gang	Two Gang	
1PH/2W/3P	16	2	3/4"	REQ 121-16	REQ 221-16	EPJ 2116
(2P + G)	20	2	3/4"	REQ 121-20	REQ 221-20	EPJ 2120
	25	2	3/4"	REQ 121-25	REQ 221-25	EPJ 2125
	32	2	3/4"	REQ 121-32	REQ 221-32	EPJ 2132
	40	2	1"	REQ 121-40	-	EPJ 2140
	50	2	1"	REQ 121-50	-	EPJ 2150
	63	2	1.1/4"	REQ 121-63	-	EPJ 2163
3PH/3W/4P	16	3	3/4"	REQ 131-16	REQ 231-16	EPJ 3116
(3P + G)	20	3	3/4"	REQ 131-20	REQ 231-20	EPJ 3120
	25	3	3/4"	REQ 131-25	REQ 231-25	EPJ 3125
	32	3	3/4"	REQ 131-32	REQ 231-32	EPJ 3132
	40	3	1"	REQ 131-40	-	EPJ 3140
	50	3	1.1/4"	REQ 131-50	-	EPJ 3150
	63	3	1.1/4"	REQ 131-63	-	EPJ 3163



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REQS Receptacles and EPJ Plug Factory Sealed

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 /1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP66 acc.To IEC 60529

Rated Voltage : up to 240 V-

Rated current : up to 32 A.

Electrical rating range : 10 - 30A. 220V.AC.

Type : REQS , RPJ

Protection class for UL. : Class I, Division1 or 2 Group.C,D

Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2



REQS RECEPTACLES AND SWITCHES

Descriptions :

The RPJ receptacle, REQ plug and Switches Series are suitable for: hazardous locations due to the presence of flammable gasses or vapors. installation in petroleum refineries, chemical plants processing of grain, flour of starch, and storage areas where hazardous substances are handled damp, wet or corrosive locations. area where heavy duty receptacles and plugs are necessary.



EPJ PLUG

Features:

- Angle type receptacles, 3/4 inch NPT dead for 15 - 30 AT.
- Two mounting lugs.
- Receptacles and plugs are equipped with a mechanism which prevents with drawal of plug until the release knob is pressed.
- Plug have extra long grounding poles, make contact first and break contact last for maximum safety.
- Factory sealed receptacles to simplify installation and wiring external seals are not required.
- The key slot provided in the receptacles engages the key of the plugs permitting entrance in only one position.
- Safety breaker switch for automatically shut down the circuit in the event of an overcurrent or shortcircuit current.
- Switch can be locked in "ON" or "OFF" position.

Standard Materials:

Receptacle housing, cover and plug exteriors - Copper-free aluminium

Insulation - Bakelite

Solid split-type contact - Brass

Mechanism and bolts - Stainless steel

Body , cover and operating handle - Copper-free aluminium

Standard Finishes:

Copper-free aluminium - Epoxy-polyester powder

Brass - Silver plated

Stainless steel - Natural

Catalogue Number :

Amp. Trip and Switches	Hub Size NPT.	Cat.No. Receptacles and Switch	Cat.No. Plug
1PH / 2W / 3P (2P+G)			
10	3/4"	REQS 2110	EPJ 2110
15	3/4"	REQS 2115	EPJ 2115
20	3/4"	REQS 2120	EPJ 2120
30	3/4"	REQS 2130	EPJ 2130

REQS Receptacles and EPJ Plug Factory Sealed



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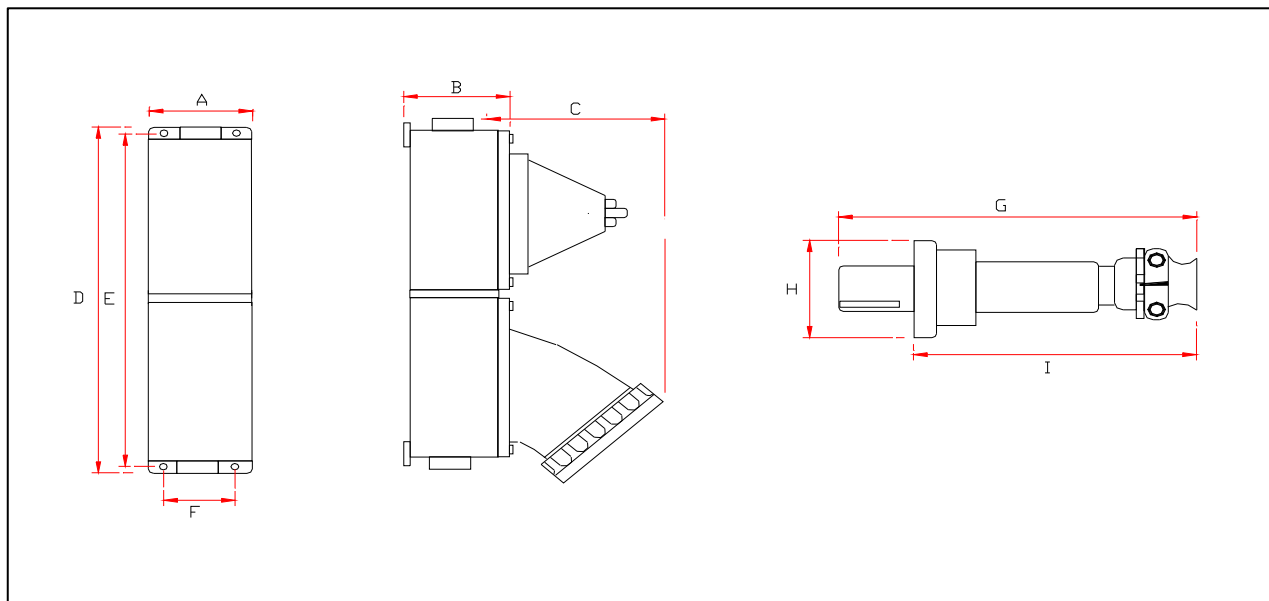
A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Dimensions in MM.



Dimension in mm.

Amp. Trip									
Switch	A	B	C	D	E	F	G	H	I
1PH / 2W / 3P (2P+G)									
10	90	73	162	177	155	70	153	75	110
15	90	73	162	177	155	70	153	75	110
20	90	73	162	177	155	70	153	75	110
30	90	73	162	177	155	70	153	75	110



ERCB Receptacles Interlocked with Circuit Breakers and EPJ Plug



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A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



ISO9001:2008

Technical data

Type of Protection: Ex d IIA T6

Conforming to : Standards IEC 60079-0 /1 or UL 60079-1

Marking for test : Ex II2G

Degree of Protection : IP66 acc.To IEC 60529

Rated Voltage : up to 400 V-

Rated current : up to 32 A.

Electrical rating range : 16 - 32A. 220 - 380 V.AC.

Type : ERCB , RPJ

Protection class for UL. : Class I, Division1 or 2 Group.C,D

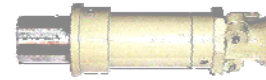
Class II, Division 1 or 2 Groups.E,F,G

Class III

Protection class for IEC : Zone1and Zone 2



ERCB



EPJ

Descriptions :

The **ERCB** receptacles interlocked with circuit breakers and EPG plugs are suitable for

hazardous locations due to the presence of flammable

hazardous gases or vapors, combustible dusts or ignitable fibers.

installation in petroleum refineries, chemical plants processing of grain, flour of starch, and storage areas where hazardous substances are handled.

damp, wet or corrosive locations.

supply power to portable electrical equipments such as lighting fixtures, conveyors, motors or pumps.

area where heavy duty receptacles and plugs are necessary.

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Brass - Silver plated
- Stainless steel - Natural

Standard Materials:

Receptacle housing, cover and plug exteriors - Copper-free aluminium

Insulation - Bakelite

Solid split-type contact - Brass

Mechanism and bolts - Stainless steel

Features:

- **ERCB receptacles:** housing with hinge cover four mounting lugs,
- mounting lugs, housing provided with vertical feed-thru conduit hub NPT thread, **O-Ring** gasket is provided at the flange of housing to protect against the ingress of moisture and dust or liquid, solderless lugs are provided for line connections, and receptacle is prewired to the load side of breaker, spring load-cover, to protect dusts when the plug is not in use, long grounding pole for maximum safety.
- **EPJ plugs:** cable clamp provide secure and non-slip termination,
- neoprene bushing and neoprene gasket for water-resistant.
- The key rib is provided in receptacle to engage the key slot of plug permitting entrance in only one position.
- Safety Lock-Knob mechanism for the plug can not be inserted or removed unless the switch is in "OFF" position.
- To operate, pull up the Lock-Knob and fully inserted the plug into receptacle before the switch can be turn-on. Turn-off switch before pull up the Lock-Knob, then plug can be removed.

Caution:

To reduce the risk of ignition of hazardous atmospheres, do not use receptacles or plugs in class II, Groups F locations that contain electrically conductive dusts (most coal dusts are not electrically conductive).

ERCB Receptacles Interlocked with Circuit Breakers and EPJ Plug

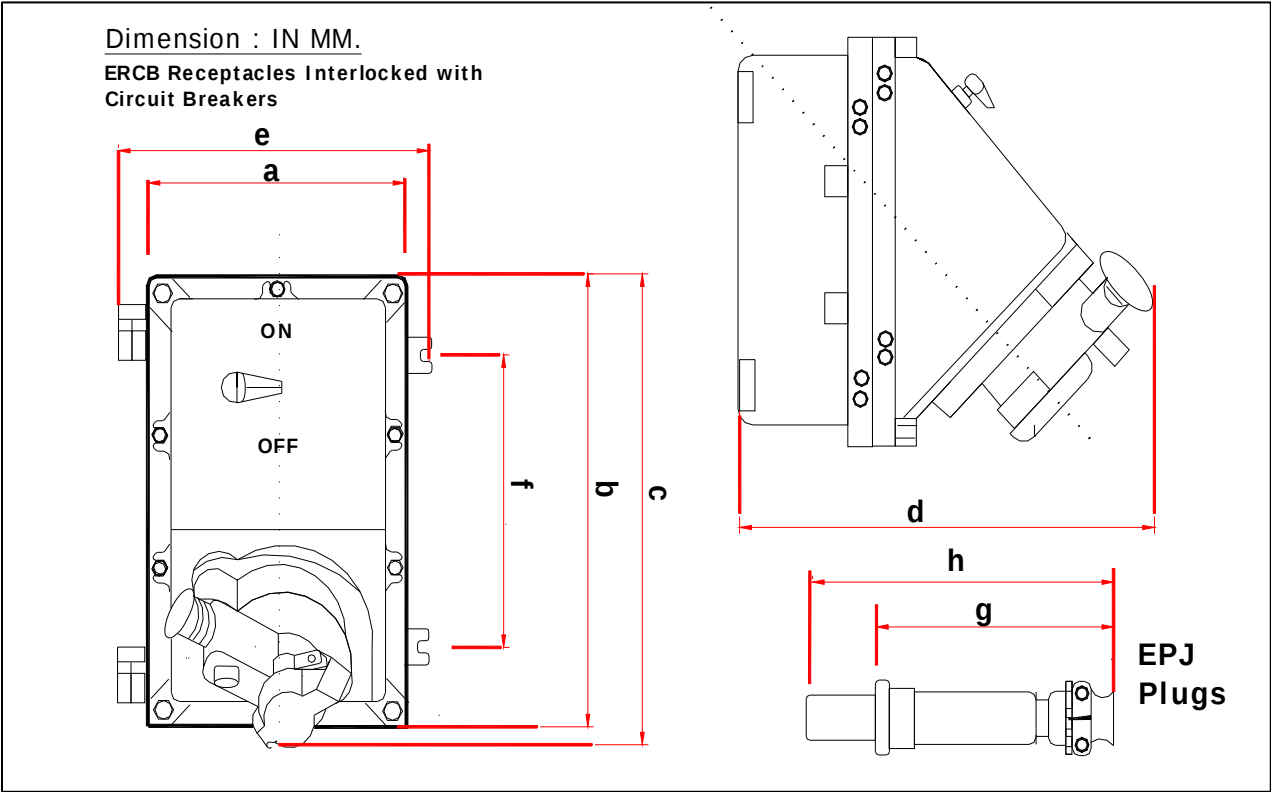


A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2



Circuit Breaker	Dimension in mm.							
Amp. Trip	a	b	c	d	e	f	g	h
16	210	310	325	300	230	215	170	205
20	210	310	325	300	230	215	170	205
25	210	310	325	300	230	215	170	205
32	210	310	325	300	230	215	170	205



with Circuit Breakers and EPJ Plug



EXPLOSIONPROOF



For UL.60079-1 Standard Class I,II Div.1 and 2 Groups C,D,E,F and G

For IEC.60079-0/1 Standard Zone 1 and Zone 2

Phase/Wire/Pole	Circuit Breaker(CB.) Hub Size*1			Receptacle Cat.,No. *2		Plug Cat..No.*3
	AT	Pole	NPT(inch)	Mitsubishi CB.	ABB CB.	
1PH/2W/3P	16	2	3/4,1	ERCB316M- ☐	ERCB316A- ☐	EPJ316✦
	20	2	3/4,1	ERCB320M- ☐	ERCB320A- ☐	EPJ320✦
	25	2	3/4,1	ERCB325M- ☐	ERCB325A- ☐	EPJ325✦
	32	2	3/4,1	ERCB332M- ☐	ERCB332A- ☐	EPJ332✦
3PH/3W/4P	16	3	3/4,1	ERCB416M- ☐	ERCB416A- ☐	EPJ416✦
	20	3	3/4,1	ERCB420M- ☐	ERCB420A- ☐	EPJ420✦
	25	3	3/4,1	ERCB425M- ☐	ERCB425A- ☐	EPJ425✦
	32	3	3/4,1	ERCB432M- ☐	ERCB432A- ☐	EPJ432✦

Options :

Equiped with drain fitting, add suffix - D to Receptacles Cat.,No.

* 1 The conduit hub size for receptacle box shall be selected only 1 size as per recommendation.

* 2 Add suffix in ☐ for conduit hub size to Cat. No.

1 - 1/2 inch NPT 2 - 3/4 inch NPT 3 - 1 inch NPT

* 3 Add suffix in ✦ for cable O.D. used to Cat. No.

14 - (9-14mm.) 19 - (15-19mm.) 22 - (20-22mm.) 24 - (23-24mm.)

P

DRE Receptacles and DPJ Plug Factory Sealed


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A QUALITY PRODUCT

EXPLOSIONPROOF

For UL.60079-15 Standard Class I,II Div. 2 Groups C,D,E,F and G

For IEC.60079-15 Standard Zone 2



Technical data

Type of Protection: Ex n IIA T6

Conforming to : Standards IEC 60079-15 or UL 60079-15

Marking for test : Ex II2G

Degree of Protection : IP54 acc.To IEC 60529

Rated Voltage : up to 240 V-

Rated current : up to 32 A.

Electrical rating range : 15A 220 V.AC.

Type : DRE , DPJ

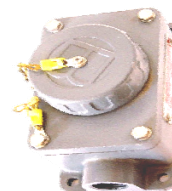
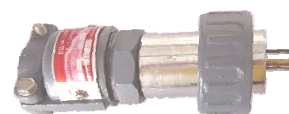
Protection class for UL. : Class I, Division 2 Group.C,D

Class II, Division 2 Groups.E,F,G

Class III

Protection class for IEC : Zone 2

ISO9001:2008


DRE Receptacles

DPJ Plug

Descriptions :

The DPJ receptacle and DRE plug Series are suitable for:

hazardous locations due to the presence of flammable

gasses or vapors.

installation in petroleum refineries, chemical plants processing of grain,

flour of starch, and storage areas where hazardous substances

are handled.

Standard Materials:

- Receptacle housing, cover and plug exteriors - Copper-free aluminium
- Insulation - Bakelite
- Solid split-type contact - Brass
- Mechanism and bolts - Stainless steel

Standard Finishes:

- Copper-free aluminium - Epoxy-polyester powder
- Brass - Silver plated
- Stainless steel - Natural

Features:

Angle type receptacles, 3/4 inch NPT dead for 15 AT.

Single gang on request. (15AT. Only one Gang)

Two mounting lugs.

Receptacles and plugs are equipped with a mechanism which prevents with drawal of plug until the release knob is pressed.

Plug have extra long grounding poles, make contact first and break contact last for maximum safety.

Catalogue Number:

1PH / 2W / 3P 15AT. (2P+G)

DPJ 2115

DRE 121-15

Dimensions in MM.
