Distribution Boxes
HRMD92 Series Explosion-proof Distribution Equipments

- Explosion protection to
  -CENELEC
  -IEC
  -NEC
- Can be used in
  Zone 1 and Zone 2
  Zone 21 and Zone 22
  Class I, Zone 1 and Zone 2
  Class I, Division 1, Groups B, C, D
- Flameproof enclosure (Ex d IIB+H2), which can be used as feed distribution equipment in control and distribution system (such as distribution box, switch box of main circuit ,control box, terminal box or motor starting box etc.)
- Enclosure: 316 stainless steel.
- Equipped with specialized hinge structure, which can prevent the flameproof joints from damage when opening and closing the box, and greatly prolong the service life of box.
- The boxes can be combined and installed freely to save space and meet the requirements of various distribution systems.
- Special requirements on request.

Catalogue number logic

HRMD 92 - □/□/□

- Rated current (A)
- Rated voltage (V)
- Specification code(I,II,IIB.....)
- Design No.
- Explosion-proof Distribution Equipments

WAROM

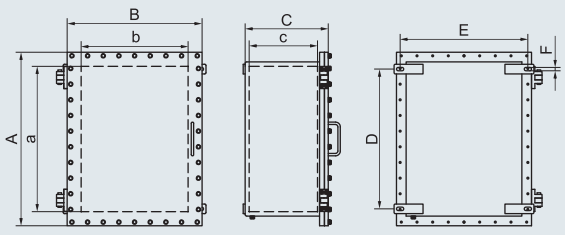
Zones1& 2; 21& 22

Technical data

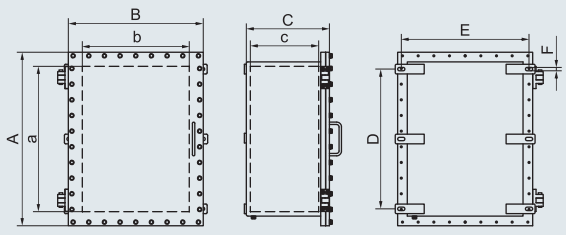
Explosion-proof Distribution Equipments HRMD92-□/□/□

Explosion protection	
Gas explosion protection	Ex II 2 G Ex db IIB+H2 T□[1] Gb
Dust explosion protection	Ex II 2 D Ex tb IIIC T□[1] Db IP66
	[1]See Selection table, P6/30
Certificates	ATEX and IECEx (applied for)
Conformity to standards	EN 60079-0, EN 60079-1, EN 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31
Enclosure material	316 stainless steel.
Exposed fastener	Stainless steel
Built-in components	
Power circuit breaker	MCB (Miniature Circuit Breaker) or MCCB (Moulded Case Circuit Breaker)
Branch switch	MCB (Miniature Circuit Breaker) or MCCB (Moulded Case Circuit Breaker)
Terminal	International brand of terminal
Indicator	Red, green, yellow, blue
Pushbutton	Red, green, yellow
Control switch	HK series control switches
AC contactor	International famous brand
Thermal overload relay	International famous brand
PLC programmer	International famous brand
Soft starter	International famous brand
Rated voltage	Max. 1000V AC 50/60Hz
Rated current	Max. 1200A
Degree of protection	IP66
Ambient temperature	-60℃~+60℃
Cable entries	Standard M□ x 1.5 plug (the size of entry hole should be processed in accordance with actual requirements), NPT thread can be customized.
Cable gland (optional)	DQM-II (Ex d) or DQM-III (Ex d) is recommended. Please see P7/20~27.
Entry direction	Bottom
Mounting	Surface type (standard) Pedestal type (optional)

Dimension drawings (all dimensions in mm) - subject to alteration



HRMD92-I/□/□ ~ HRMD92-VIIB/□/□



HRMD92-VIII/□/□ ~ HRMD92-IXB/□/□

Distribution Boxes
HRMD92 Series Explosion-proof Distribution Equipments

Selection table of HRMD92 explosion-proof distribution equipment

Version	Max. dissipated power (W)			Max.rated current	External dimension			Internal dimension			Mounting dimension			Weight of enclosure (kg)
	T4/T130℃	T5/T95℃	T6/T80℃		A	B	C	a	b	c	D	E	F	
HRMD92-I	200	120	80	63A	250	200	170	180	130	140	150	140	12	11.00
HRMD92-II	200	120	80	63A	300	200	170	230	130	140	200	140	12	12.00
HRMD92-IIB	240	140	100	100A	350	200	170	280	130	140	250	140	12	14.00
HRMD92-III	290	170	125	160A	350	300	200	280	230	170	250	240	12	20.00
HRMD92-IIIB	350	200	130	200A	350	300	270	280	230	240	250	240	12	22.00
HRMD92-IV	420	230	140	250A	450	350	210	355	255	165	330	310	14	47.00
HRMD9-IVB	500	280	160	320A	450	350	280	355	255	235	330	310	14	51.00
HRMD92-V	520	320	190	400A	560	400	210	465	305	165	420	370	14	64.00
HRMD92-VB	620	350	200	500A	560	400	280	465	305	235	420	370	14	69.00
HRMD92-VI	660	380	220	630A	634	434	265	540	340	215	494	404	14	80.00
HRMD92-VIB	660	380	220	630A	634	434	335	540	340	285	494	404	14	86.00
HRMD92-VII	700	400	250	800A	720	560	275	625	465	225	580	530	14	112.00
HRMD92-VIIB	700	400	250	800A	720	560	345	625	465	295	580	530	14	120.00
HRMD92-VIII	800	500	350	1000A	980	720	325	860	600	250	840	690	18	290.00
HRMD92-VIIIB	800	500	350	1000A	980	720	425	860	600	350	840	690	18	310.00
HRMD92-IX	1000	600	500	1200A	1280	900	350	1155	775	275	1140	870	18	520.00
HRMD92-IXB	1000	700	600	1200A	1280	900	500	1155	775	425	1140	870	18	570.00

Note: 1. No cable entries for standard design. Cable entries shall be drilled by user.
2. For cable entries:
1). Please specify the direction and size of each cable entry.
2). Cable gland is optional, DQM-II (Ex d) or DQM-III (Ex d) is recommended, please see P7/20~27.

HRMD92 Explosion-proof distribution equipment for terminal box use

Suitable for terminal boxes of distribution system

Note: 1. HRMD92 terminal boxes have various different terminal arrangement methods.
2. It can be customized in accordance with user's requirements and conforms to the usage limits of conformity certificate. The Max. number of terminals and the Max. number of holes on side can meet the requirements of dissipated power and enclosure mechanical strength.
3. This table is only for reference.

Illustration of HRMD92 Explosion-proof Distribution Equipment for terminal box use

See table for Max. number of fitted terminals

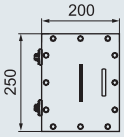
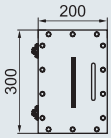
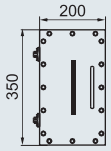
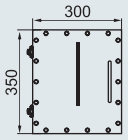
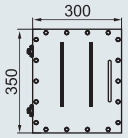
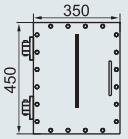
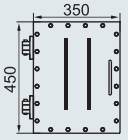
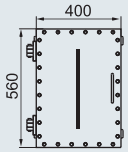
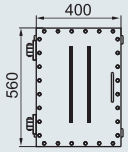
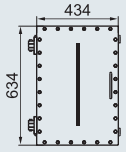
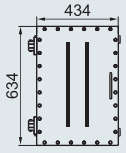
Version	Terminal arrangement	Terminal size(mm^2)										
		2.5	4	6	10	16	35	70	120	185	240	300
HRMD92-I		18	16	14	11	9	-	-	-	-	-	-

Illustration of HRMD92 Explosion-proof Distribution Equipment for terminal box use

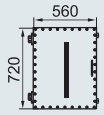
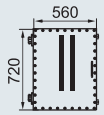
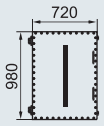
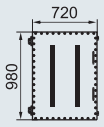
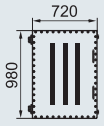
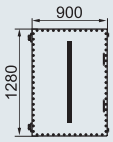
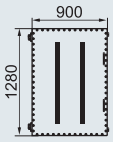
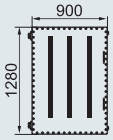
See table for Max. number of fitted terminals

Version	Terminal arrangement	Terminal size(mm^2)										
		2.5	4	6	10	16	35	70	120	185	240	300
HRMD92-II		23	21	18	14	12	-	-	-	-	-	-
HRMD92-IIB		31	29	24	19	16	-	-	-	-	-	-
HRMD92-III HRMD92-IIIB		31	29	24	20	16	10	-	-	-	-	-
		62	58	48	-	-	-	-	-	-	-	-
HRMD92-IV HRMD92-IVB		45	40	34	28	24	16	-	-	-	-	-
		90	80	68	56	-	-	-	-	-	-	-
HRMD92-V HRMD92-VB		60	54	48	36	30	20	-	-	-	-	-
		120	108	96	72	60	-	-	-	-	-	-
HRMD92-VI HRMD92-VIB		80	70	60	50	35	25	22	12	8	6	-
		160	140	120	100	70	-	-	-	-	-	-

Distribution Boxes
HRMD92 Series Explosion-proof Distribution Equipments

Illustration of HRMD92 Explosion-proof Distribution Equipment for terminal box use

See table for Max. number of fitted terminals

Version	Terminal arrangement	Terminal size(mm^2)										
		2.5	4	6	10	16	35	70	120	185	240	300
HRMD92-VII HRMD92-VIIB		90	80	70	60	40	25	25	14	10	8	5
		180	160	140	120	80	-	-	-	-	-	-
HRMD92-VIII HRMD92-VIIIB		132	124	100	80	68	45	36	21	14	12	10
		264	248	200	160	136	90	72	42	-	-	-
		396	372	300	240	204	135	-	-	-	-	-
HRMD92-IX HRMD92-IXB		180	170	136	110	92	62	50	28	20	16	14
		360	340	272	220	184	124	100	56	40	-	-
		540	510	408	330	276	186	-	-	-	-	-

HRMD92 Explosion-proof Distribution Equipment for control box use

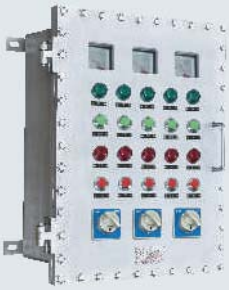
Suitable for control unit of distribution system

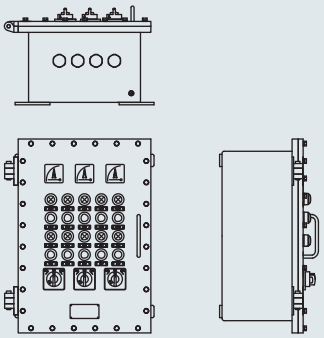
Note: 1. HA pushbuttons, HD indicators, HK control switches and BB8050 explosion-proof ammeters/voltmeters etc.in HRMD92 control boxes.

2. HRMD92 control box can be used for on-off operation of circuit. It also can realize the remote control or local control of the start, stop, corotation and inversion of motor. When it is equipped with ammeter, it also can monitor the running of motor and circuit status.

3. It can be customized in accordance with user's requirements and conforms to the usage limits of conformity certificate. The number of cover components and the Max. number of holes on side can meet the requirements of dissipated power and enclosure mechanical strength.

Example diagram for control box use





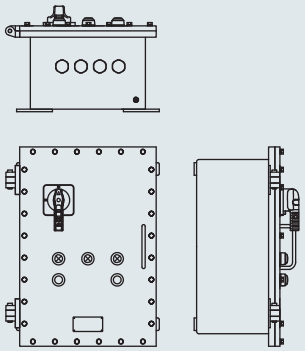
HRMD92 Explosion-proof distribution equipment for distribution box use

Suitable for power units of distribution system

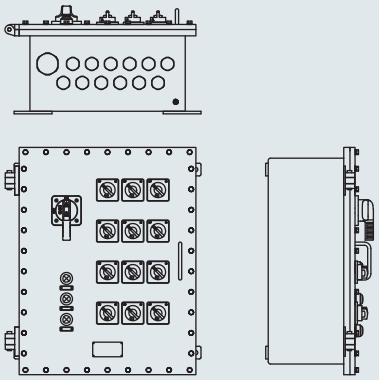
Note: 1. MCB (Miniature Circuit Breaker) or MCCB (Moulded Case Circuit Breaker), AC contactor, thermal overload relay, PLC programmer, soft starter, HA pushbuttons, HD indicators, HK control switches and BB8050 explosion-proof ammeters/ voltmeters etc. in HRMD92 distribution boxes.

2. HRMD92 power unit can be used for distribution or on-off of circuit. It also can be used for controlling the start, stop, corotation and inversion of motor and provide comprehensive protection for motor. It can be equipped with two-site control or multi-site control.
3. It can be customized in accordance with user's requirements and conforms to the usage limits of conformity certificate. The number of cover components and the Max. number of holes on side can meet the requirements of dissipated power and enclosure mechanical strength.

Example diagram for distribution box use



Use for motor starting



Use for illumination (power) distribution