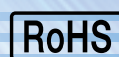
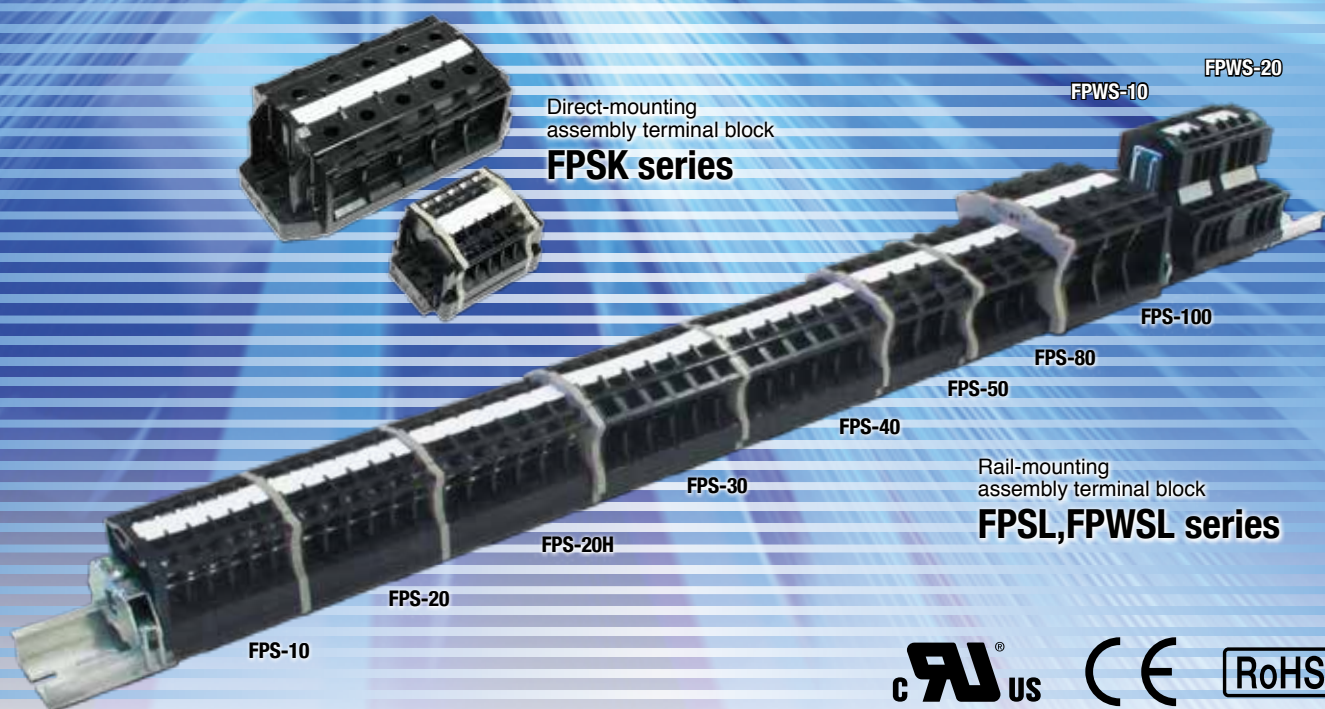


FINGER PROTECTION TERMINAL BLOCK

FPS Series

FPWS series

FPSK series



Safety



Finger protection
IP2X

Easy to wiring



Visually confirm
the wiring part

Current-carrying part of FPS-10~80 is the same height



FPS-10, -20, -20H, -30, -40, -50 and FPS-80 are the same height from mounting surface to wiring part.

Attach and dettach of name plate



You can attach and detach it in a longitudinal direction and a vertical direction.

Joint plate (See page 8)

You can assemble just only one joint plate between each capacity.
You can use as a separation for same capacity and insulation for different capacity.
Side plate x2 ⇒ Joint plate x1 ∙ ∙ ∙ 3mm saving per place

Rating

Model No.	FPS-10	FPS-20	FPS-20H	FPS-30	FPS-40	FPS-50	FPS-80	FPS-100	FPWS-10	FPWS-20
Rated voltage	800V			1000V					600V	800V
Rated current	15A	22A	22A	30A	40A	50A	75A	95A	15A	22A
Applicable wire	0.75~1.25mm ²	1.25~2mm ²	1.25~2mm ²	2~3.5mm ²	3.5~5.5mm ²	5.5~8mm ²	5.5~14mm ²	8~22mm ²	0.75~1.25mm ²	1.25~2mm ²
Terminal screw	M3×7.3L Pan head sems(±)	M3.5×7.3L Pan head sems(±)	M3.5×7.3L Pan head sems(±)	M4×8L Pan head sems(±)	M4×8L Pan head sems(±)	M5×10L Pan head sems(±)	M5×10L Pan head sems(±)	M6×12L Pan head sems(±)	M3×7.3L Pan head sems(±)	M3.5×7.3L Pan head sems(±)
Tightening torque	0.5~1.2N·m	0.8~1.4N·m	0.8~1.4N·m	1.2~1.8N·m	1.2~1.8N·m	2.0~3.0N·m	2.0~3.0N·m	2.5~3.7N·m	0.5~1.2N·m	0.8~1.4N·m
End plate (Sales lot)	FPS-1E (50)			FPS-2E (50)		FPS-3E (10)	FPS-4E (10)	FPS-5E (10)	FPWS-1E (10)	

Rating table of certified products



Rail-mounting type	FPS-10	FPS-20	FPS-20H	FPS-30	FPS-40	FPS-50	FPS-80	FPS-100	FPWS-10	FPWS-20
Direct-mounting type	FPSK-10	FPSK-20	FPSK-20H	FPSK-30	FPSK-40	FPSK-50	FPSK-80	FPSK-100	—	—
Rated voltage	600V									
Rated current	15A	19A	22A	30A	35A	50A	68A	95A	16A	20A
Applicable wire AWG	20~16	16~14	20~14	14~10	12~10	16~8	8~6	10~4	20~16	18~14

※Direct mounting assembly terminal blocks are limited to using prepared conductor only.

Common specification

Withstand voltage	3000V/1min
Impulse withstand voltage	8KV
Insulation resistance	200MΩ over (DC500V mega)
Ambient temperature	−25℃~+60℃ (No freezing or condensation)
Relative humidity	45~85%
IP code	IP2X
Standard	JIS C 8201-7-1 (IEC60947-7-1)/NECA C 2811

Materials

Body insulator	modified PPE(black)	UL94V-0
End plate (L or K)	modified PPE(black)	UL94V-0
Conductive plate	Cooper alloy (Ni plate)	
Terminal screw	Steel (zinc trivalent chromate-plating)	
Spring	S U S	
Joint plate	modified PPE(gray)	

Assembly type Order form

FPS△-□-※P

△: L =rail-mounting type K=direct-mounting type

□: 10, 20, 20H, 30, 40, 50, 80, 100

※: No. of poles

FPWSL-□-※U

□: 10, 20

※: No. of units

Specification of rail-mounting terminal block

FPS-10

Rating

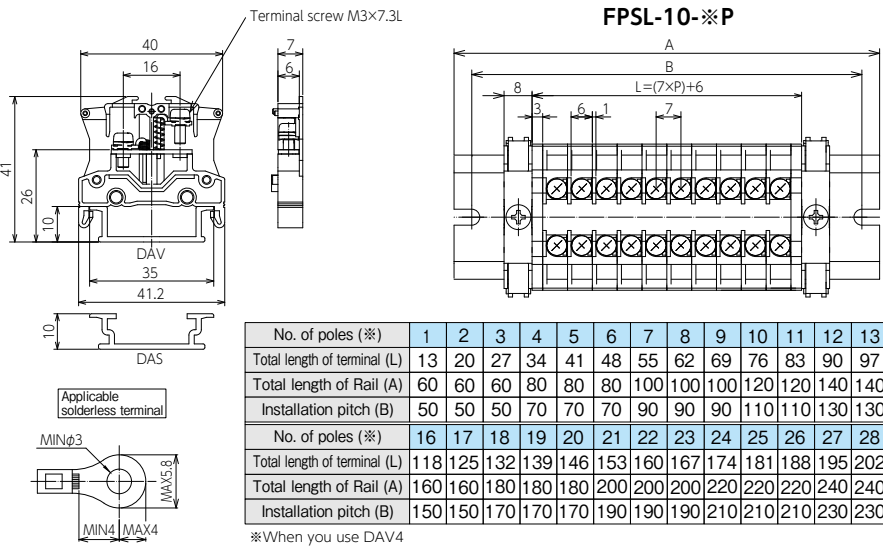
	JIS (IEC)	UL/cUL
Rated voltage	800V	600V
Rated current	15A	15A
Applicable wire	0.75~1.25mm ²	AWG20~16

Terminal screw	M3×7.3L Pan head sems(±)
Tightening torque	0.5~1.2N·m
Mass	6.4g
Sales lot	100



Accessories

End plate	FPS-1E (2.3g)
Name plate	AM-10
Stopper	GTY18
Rail	DAV (DAS)

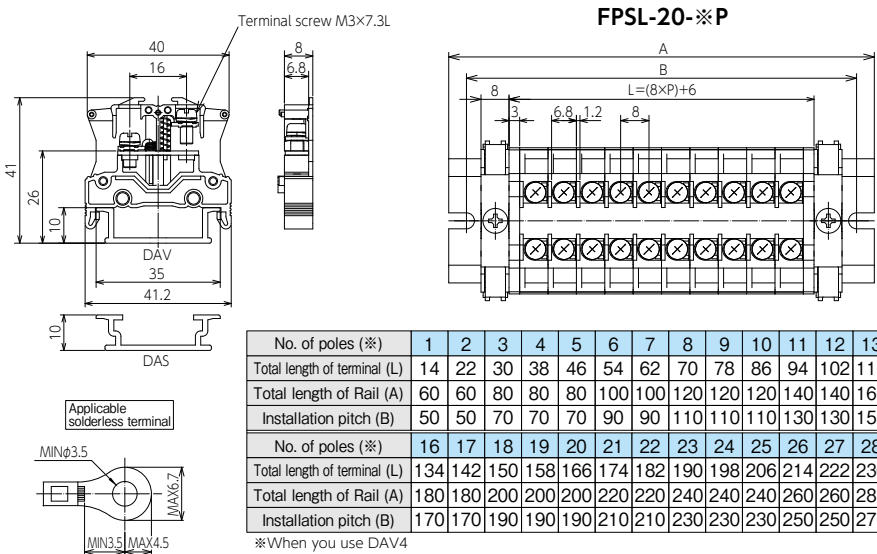


FPS-20

Rating

	JIS (IEC)	UL/cUL
Rated voltage	800V	600V
Rated current	22A	19A
Applicable wire	1.25~2mm ²	AWG16~14

Terminal screw	M3.5×7.3L Pan head sems(±)
Tightening torque	0.8~1.4N·m
Mass	7.5g
Sales lot	100



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	14	22	30	38	46	54	62	70	78	86	94	102	110	118	126
Total length of Rail (A)	60	60	80	80	80	100	100	120	120	120	140	140	160	160	160
Installation pitch (B)	50	50	70	70	70	90	90	110	110	110	130	130	150	150	150
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	134	142	150	158	166	174	182	190	198	206	214	222	230	238	246
Total length of Rail (A)	180	180	200	200	200	220	220	240	240	240	260	260	280	280	280
Installation pitch (B)	170	170	190	190	190	210	210	230	230	230	250	250	270	270	270

※When you use DAV4

Accessories

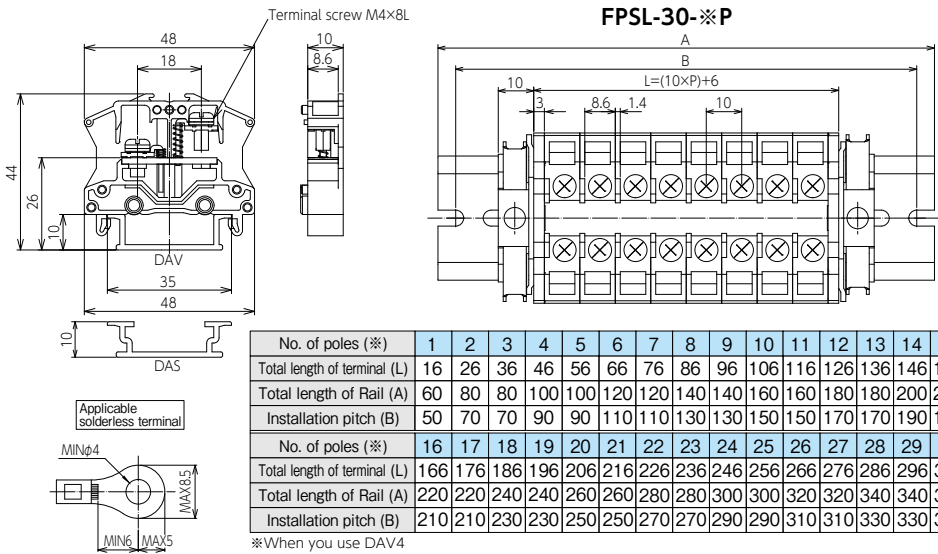
End plate	FPS-1E(2.3g)
Name plate	AM-10
Stopper	GTY18
Rail	DAV(DAS)

FPS-30

Rating

	JIS (IEC)	UL/cUL
Rated voltage	1000V	600V
Rated current	30A	30A
Applicable wire	2~3.5mm ²	AWG14~10

Terminal screw	M4×8L Pan head sems(±)
Tightening torque	1.2~1.8N·m
Mass	13g
Sales lot	50



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	16	26	36	46	56	66	76	86	96	106	116	126	136	146	156
Total length of Rail (A)	60	80	80	100	100	120	120	140	140	160	160	180	180	200	200
Installation pitch (B)	50	70	70	90	90	110	110	130	130	150	150	170	170	190	190
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	166	176	186	196	206	216	226	236	246	256	266	276	286	296	306
Total length of Rail (A)	220	220	240	240	260	260	280	280	300	300	320	320	340	340	360
Installation pitch (B)	210	210	230	230	250	250	270	270	290	290	310	310	330	330	350

※When you use DAV4

Accessories

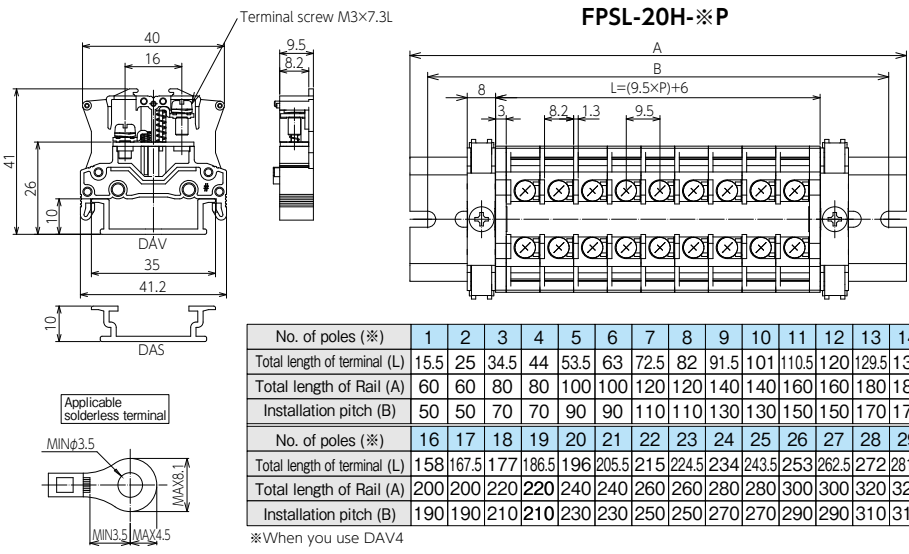
End plate	FPS-2E(2.7g)
Name plate	AM-10
Stopper	HDV-2
Rail	DAV(DAS)

FPS-20H

Rating

	JIS (IEC)	UL/cUL
Rated voltage	800V	600V
Rated current	22A	22A
Applicable wire	1.25~2mm ²	AWG20~14

Terminal screw	M3.5×7.3L Pan head sems(±)
Tightening torque	0.8~1.4N·m
Mass	8.6g
Sales lot	50



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	15.5	25	34.5	44	53.5	63	72.5	82	91.5	101	110.5	120	129.5	139	148.5
Total length of Rail (A)	60	60	80	80	100	100	120	120	140	140	160	160	180	180	180
Installation pitch (B)	50	50	70	70	90	90	110	110	130	130	150	150	170	170	170
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	158	167.5	177	186.5	196	205.5	215	224.5	234	243.5	253	262.5	272	281.5	291
Total length of Rail (A)	200	200	220	220	240	240	260	260	280	280	300	300	320	320	340
Installation pitch (B)	190	190	210	210	230	230	250	250	270	270	290	290	310	310	330

※When you use DAV4

Accessories

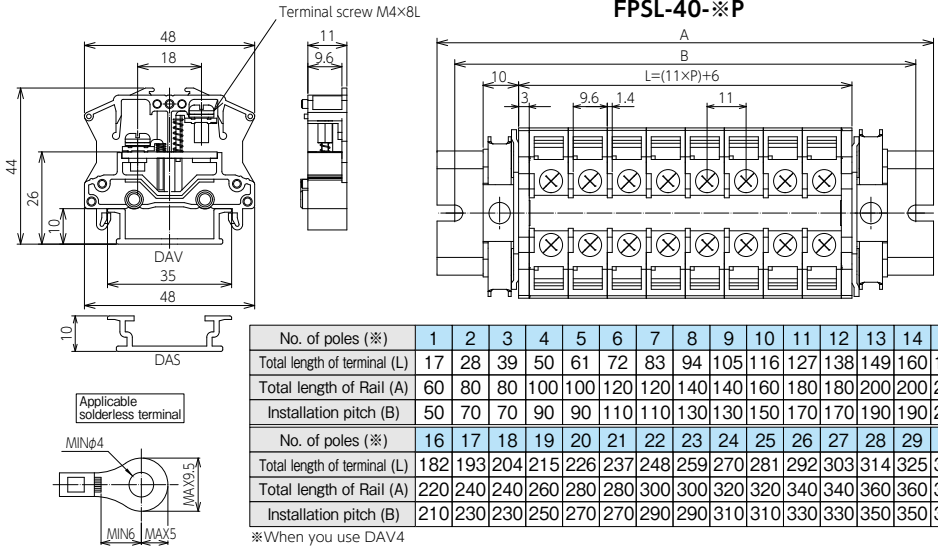
End plate	FPS-1E(2.3g)
Name plate	AM-10
Stopper	GTY18
Rail	DAV(DAS)

FPS-40

Rating

	JIS (IEC)	UL/cUL
Rated voltage	1000V	600V
Rated current	40A	35A
Applicable wire	3.5~5.5mm ²	AWG12~10

Terminal screw	M4×8L Pan head sems(±)
Tightening torque	1.2~1.8N·m
Mass	14g
Sales lot	50



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	17	28	39	50	61	72	83	94	105	116	127	138	149	160	171
Total length of Rail (A)	60	80	80	100	100	120	120	140	140	160	180	180	200	200	220
Installation pitch (B)	50	70	70	90	90	110	110	130	130	150	170	170	190	190	210
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	182	193	204	215	226	237	248	259	270	281	292	303	314	325	336
Total length of Rail (A)	220	240	240	260	280	280	300	300	320	320	340	340	360	360	380
Installation pitch (B)	210	230	230	250	270	270	290	290	310	310	330	330	350	350	370

※When you use DAV4

Accessories

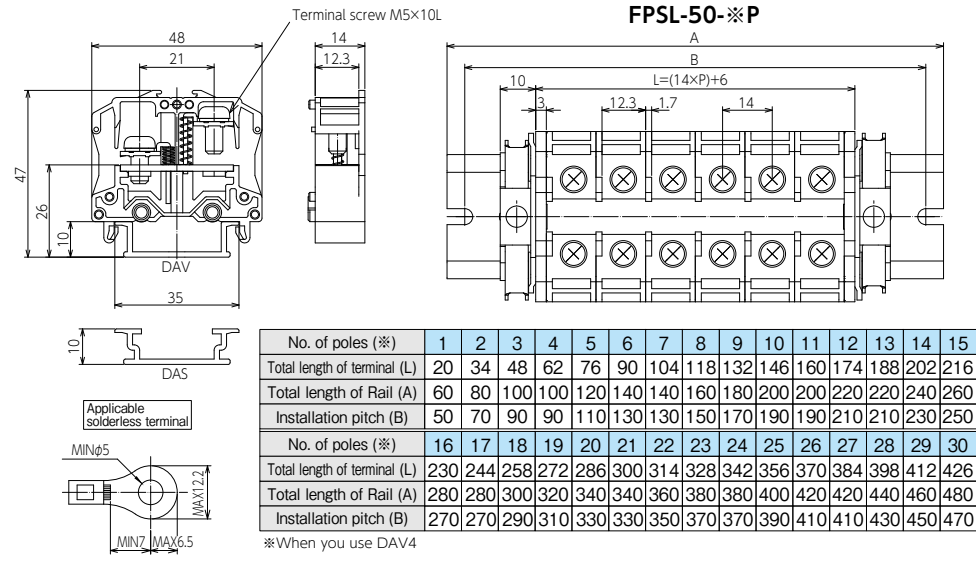
End plate	FPS-2E(2.7g)
Name plate	AM-10
Stopper	HDV-2
Rail	DAV(DAS)

Terminal screw	M5×10L Pan head sems(±)
Tightening torque	2.0~3.0N·m
Mass	21.8g
Sales lot	50



■ Accessories

End plate	FPS-3E (2.9g)
Name plate	AM-10
Stopper	HDV-2
Rail	DAV (DAS)



■ Rating

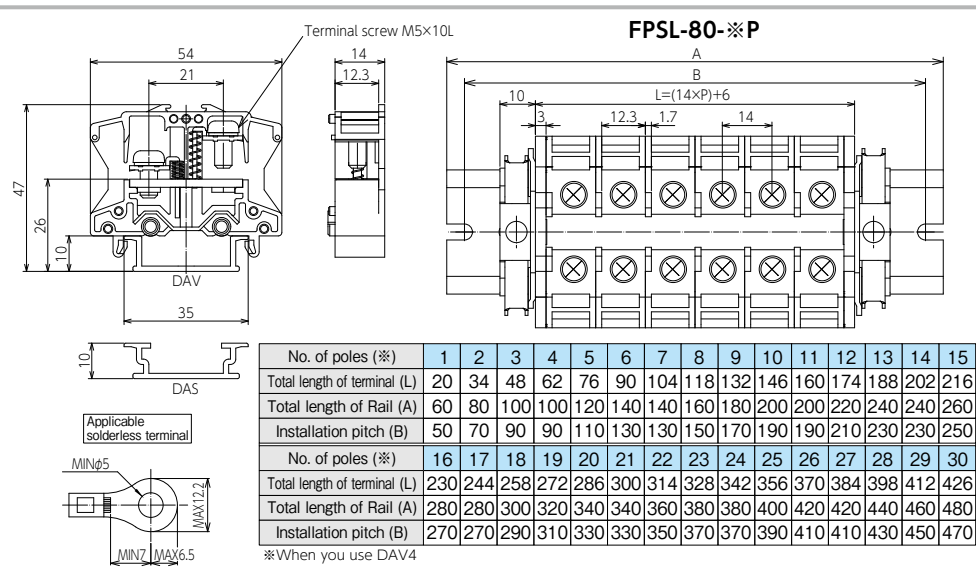
	JIS (IEC)	UL/cUL
Rated voltage	1000V	600V
Rated current	75A	68A
Applicable wire	5.5~14mm ²	AWG8~6

Terminal screw	M5×10L Pan head sems(±)
Tightening torque	2.0~3.0N·m
Mass	23.7g
Sales lot	50



■ Accessories

End plate	FPS-4E (3.2g)
Name plate	AM-10
Stopper	HDV-2
Rail	DAV (DAS)



■ Rating

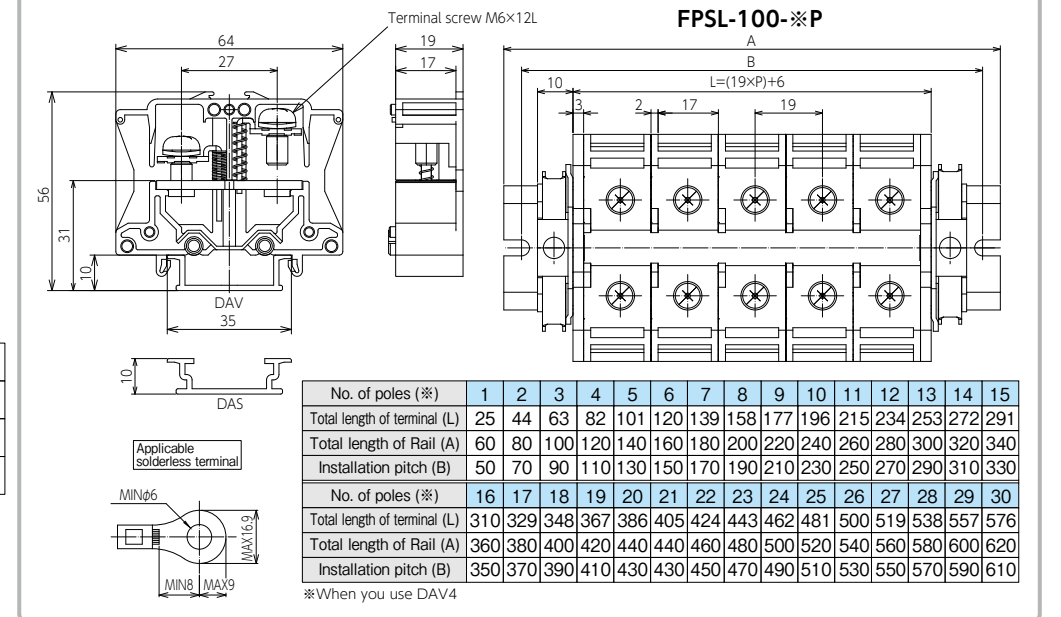
	JIS (IEC)	UL/cUL
Rated voltage	1000V	600V
Rated current	95A	95A
Applicable wire	8~22mm ²	AWG10~4

Terminal screw	M6×12L Pan head sems(±)
Tightening torque	2.5~3.7N·m
Mass	44.5g
Sales lot	20



■ Accessories

End plate	FPS-5E (4.6g)
Name plate	AM-10
Stopper	HDV-2
Rail	DAV (DAS)



FPS series, FPWS series
Applicable Short-bar

Terminal Block	Model No.			
	With insulation cover type		Non insulation cover type	
	Fork	Round	Fork	Round
FPS-10	☐ B7A-2/4/6/8/10/50	☐ BR7A-2/10/50	SB7A-2/4/6/8/10/50	SBR7A-2/10/50
FPS-20	☐ B8A-2/4/6/8/10/50	☐ BR8A-2/10/50	SB8A-2/4/6/8/10/50	SBR8A-2/10/50
FPS-20H	☐ B9.5-2/4/6/8/10/50	—	SB9.5-2/4/6/8/10/50	—
FPS-30	☐ B10-2/4/10	—	SB10-2/4/10/20	—
FPS-40	☐ B11-2/4/10	—	SB11-2/4/10/20	—
FPS-50	☐ B14-2/4/10	—	SB14-2/4/10/20	—
FPS-80	☐ B14-2/4/10	—	SB14-2/4/10/20	—
FPS-100	—	—	—	—
FPWS-10	☐ B7A-2/4/6/8/10/50	☐ BR7A-2/10/50	SB7A-2/4/6/8/10/50	SBR7A-2/10/50
FPWS-20	☐ B8A-2/4/6/8/10/50	☐ BR8A-2/10/50	SB8A-2/4/6/8/10/50	SBR8A-2/10/50

□ = Color code : [B] : Black , [G] : Green , [O] : Orange
Red character part : Put the No. of poles. (ex. BB8A-4)



Joint plate

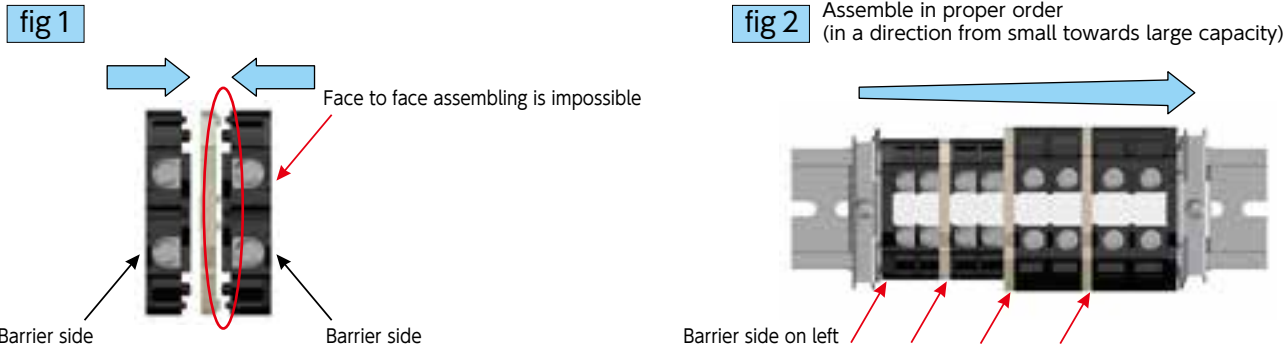
You can use separation for same capacity and insulation for different capacity.
※ Check following **operating suggestions** when you use joint plate.
※ FPWS series are not used joint plate.



Model No.	Materials	Base size	Using position	Weight
FPS-1J	modified PPE (UL94V-0)	FPS-10,20,20H	Assemble of FPS-10,FPS-20 and FPS-20H / use separation for same capacity and insulation for different capacity	2.0g
FPS-2J		FPS-30,40	Assemble of FPS-30 or 40 and FPS-10, 20 or20H / use separation for same capacity and insulation for different capacity	2.6g
FPS-3J		FPS-50	Assemble of FPS-50 and FPS-10, 20, 20H, 30 or 40 / use separation for same capacity and insulation for different capacity	2.7g
FPS-4J		FPS-80	Assemble of FPS-80 and FPS-10, 20, 20H, 30, 40 or 50 / use separation for same capacity and insulation for different capacity	2.9g
FPS-5J		FPS-100	Assemble of FPS-100 and FPS-10, 20, 20H, 30, 40, 50 and 80 / use separation for same capacity and insulation for different capacity	6.4g

Operating suggestions

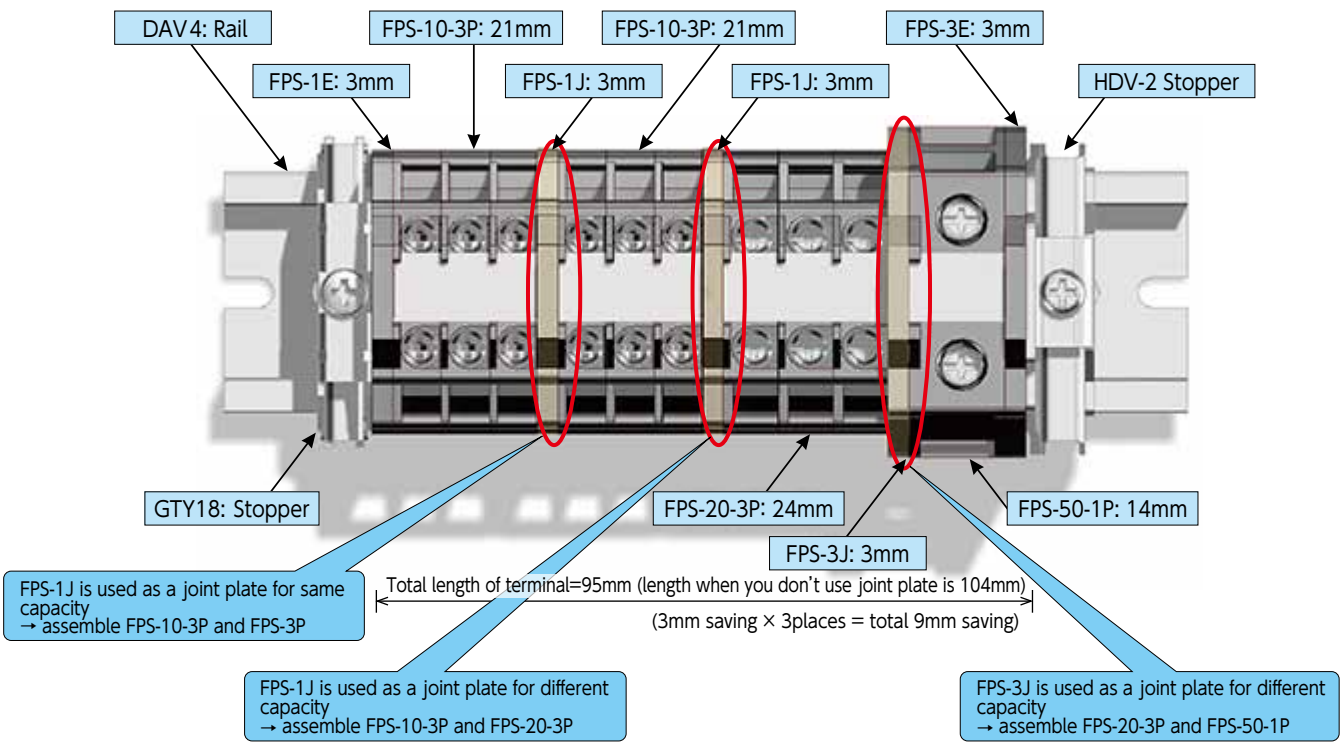
- Assemble flat surface of joint plate in towards electrode side of terminal block.
- Barrier side of every capacity terminal block should be taken a direction.(Face-to-face assembling is impossible.) (Fig.1)
- Assemble in proper order (in a direction from small towards large capacity) when you assemble different capacity terminal block.



Rail-mounting mixed assembly terminal block

Please contact us if you request the products.

Example of rail-mounting mixed assembly terminal block



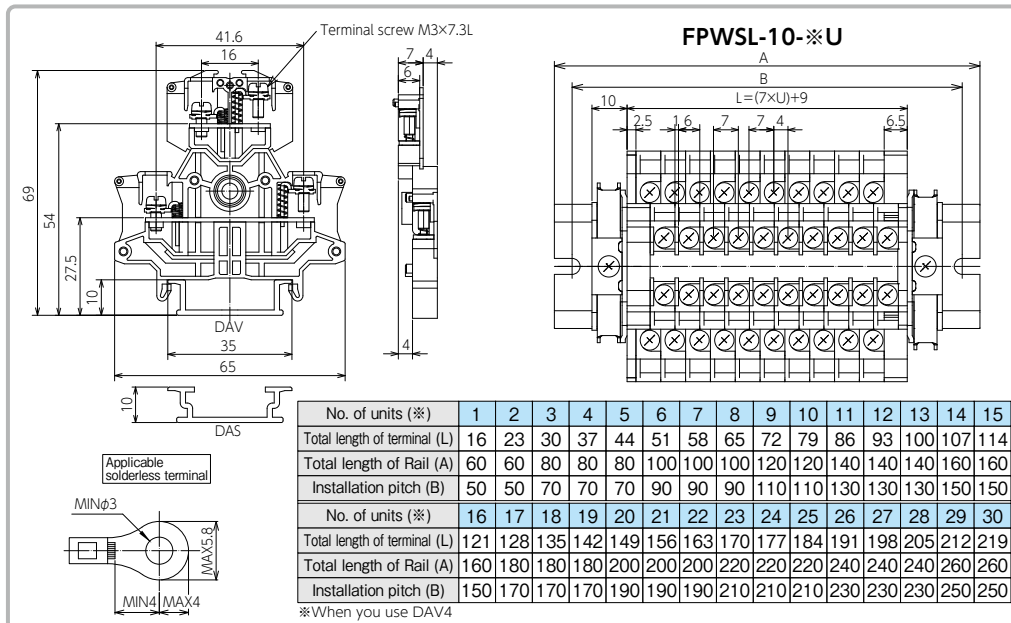
You can set just only one joint plate between each capacity.
You can use as a separation for same capacity and insulation for different capacity.
Side plate ×2 ⇒ Joint plate ×1 ... 3mm saving per place

FPWS-10

■ Rating

	JIS(IEC)	UL/cUL
Rated voltage	600V	600V
Rated current	15A	16A
Applicable wire	0.75~1.25mm ²	AWG20~16

Terminal screw	M3×7.3L Pan head sems(±)
Tightening torque	0.5~1.2N·m
Mass	15.6g
Sales lot	50



■ Accessories

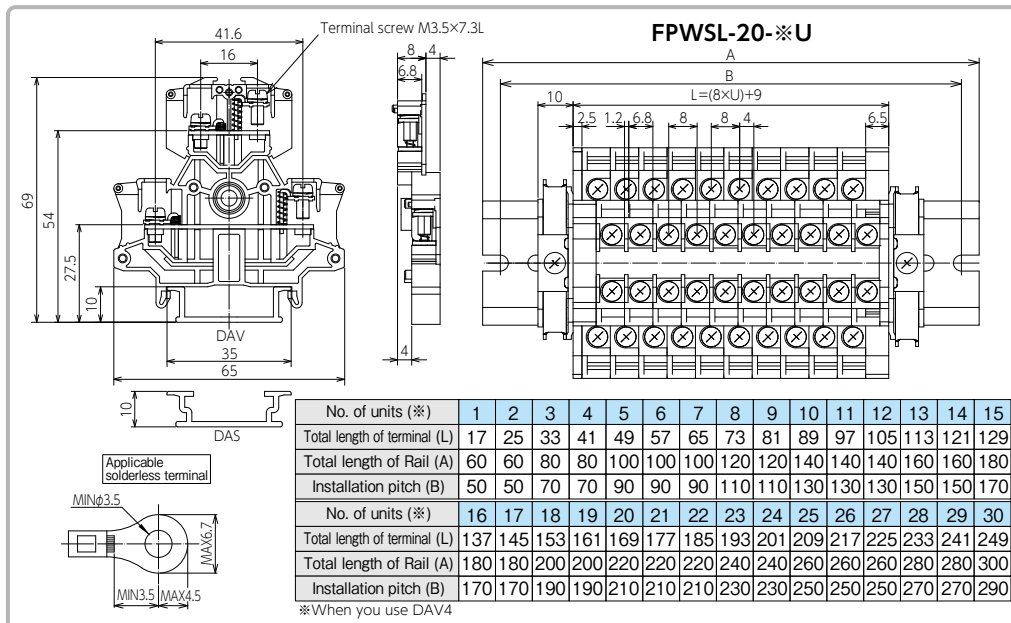
End plate	FPWS-1E (13.5g)
Name plate	M-1LE
Stopper	HDV-4
Rail	DAV (DAS)

FPWS-20

■ Rating

	JIS (IEC)	UL/cUL
Rated voltage	800V	600V
Rated current	22A	20A
Applicable wire	1.25~2mm ²	AWG18~14

Terminal screw	M3.5×7.3L Pan head sems(±)
Tightening torque	0.8~1.4N·m
Mass	18.1g
Sales lot	50



■ Accessories

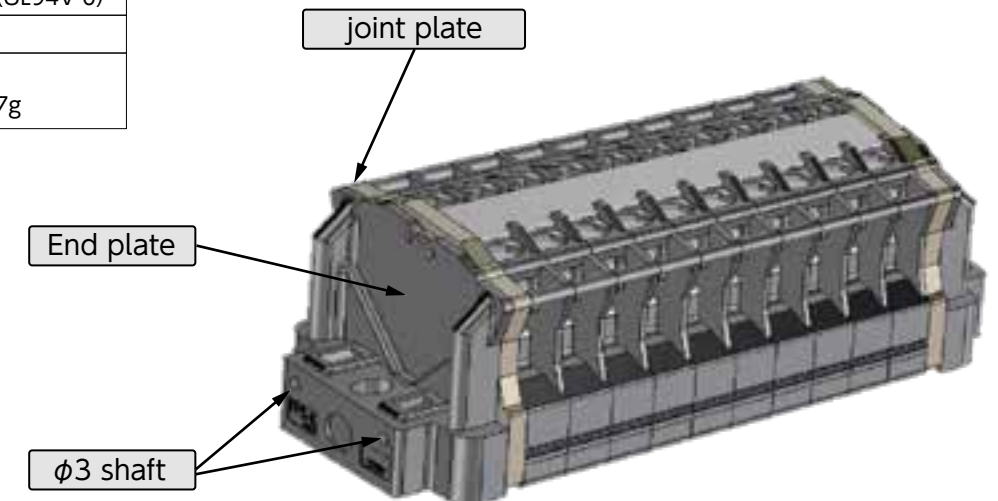
End plate	FPWS-1E(13.5g)
Name plate	M-1LE
Stopper	HDV-4
Rail	DAV(DAS)

Direct-mounting assembly terminal block

※We assemble terminal blocks with your request poles and make the shipment here.

Materials

End plate	modified PPE(UL94V-0)
Spring	SUS
Mass	FPS-K: 4.9g FPS-100K:16.7g



FPSK-10-※P

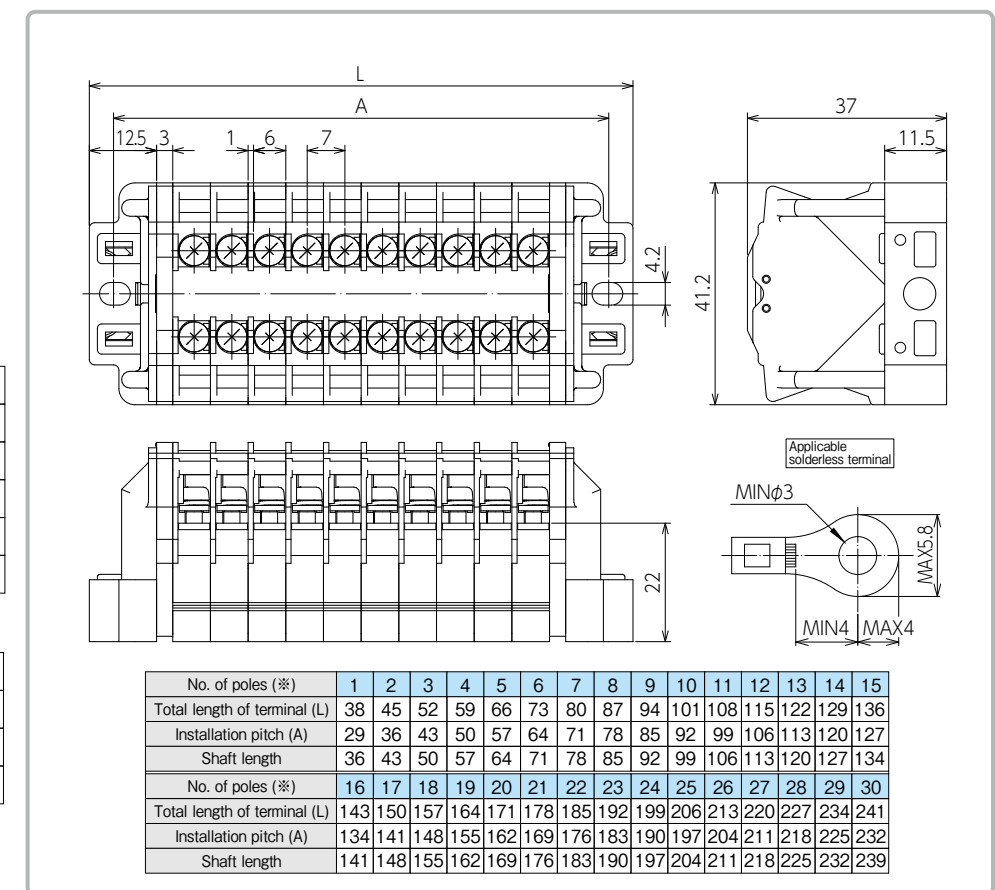


■ Rating

Rated voltage	800V
Rated current	15A
Applicable wire	0.75~1.25mm ²
Terminal screw	M3×7.3L Pan head sems(s
Tightening torque	0.5~1.2N·m
No. of poles	1~30P

■ Accessories

End plate	FPS-K
Joint plate	FPS-1J
Shaft	SF3
Name plate	AM-10



FPSK-20-※P

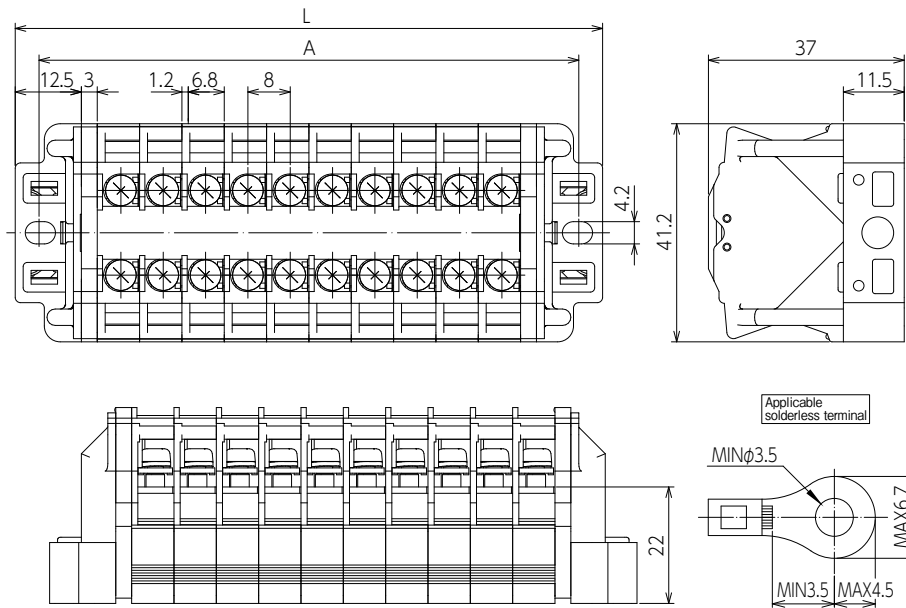


Rating

Rated voltage	800V
Rated current	22A
Applicable wire	1.25~2mm ²
Terminal screw	M3.5×7.3L Pan head sems(±)
Tightening torque	0.8~1.4N·m
No. of poles	1~30P

Accessories

End plate	FPS-K
Joint plate	FPS-1J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	39	47	55	63	71	79	87	95	103	111	119	127	135	143	151
Installation pitch (A)	30	38	46	54	62	70	78	86	94	102	110	118	126	134	142
Shaft length	37	45	53	61	69	77	85	93	101	109	117	125	133	141	149
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	159	167	175	183	191	199	207	215	223	231	239	247	255	263	271
Installation pitch (A)	150	158	166	174	182	190	198	206	214	222	230	238	246	254	262
Shaft length	157	165	173	181	189	197	205	213	221	229	237	245	253	261	269

FPSK-20H-※P

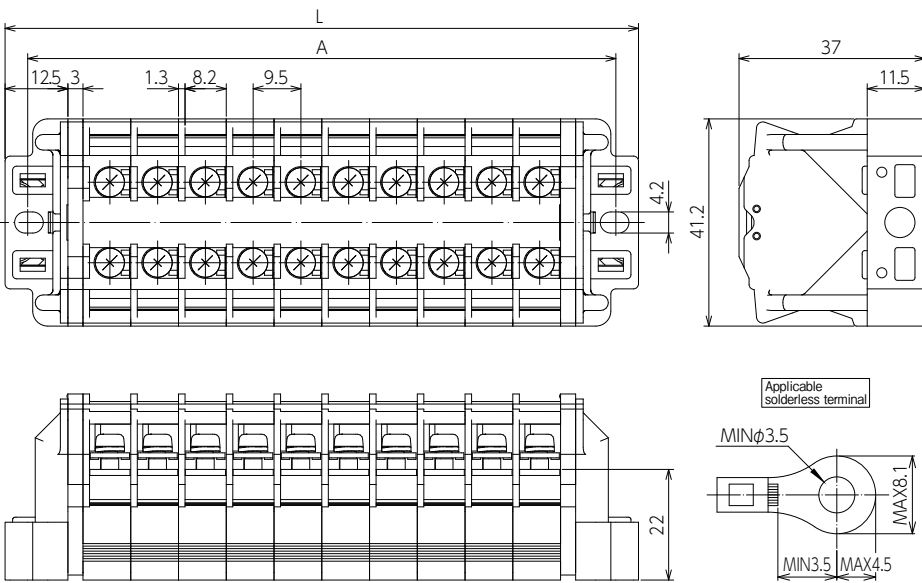


Rating

Rated voltage	800V
Rated current	22A
Applicable wire	1.25~2mm ²
Terminal screw	M3.5×7.3L Pan head sems(±)
Tightening torque	0.8~1.4N·m
No. of poles	1~20P

Accessories

End plate	FPS-K
Joint plate	FPS-1J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	405	50	59.5	69	78.5	88	97.5	107	116.5	126	135.5	145	154.5	164	173.5
Installation pitch (A)	31	41	50	60	69	79	88	98	107	117	126	136	145	155	164
Shaft length	38	48	57	67	76	86	95	105	114	124	133	143	152	162	171
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	183	192.5	202	211.5	221										
Installation pitch (A)	174	183	193	202	212										
Shaft length	181	190	200	209	219										

FPSK-30-※P

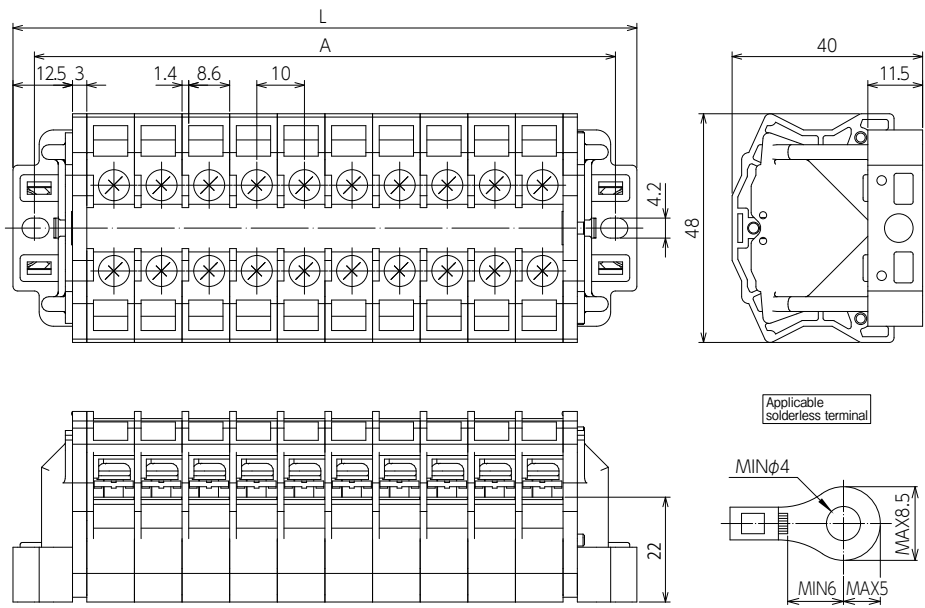


Rating

Rated voltage	1000V
Rated current	30A
Applicable wire	2~3.5mm ²
Terminal screw	M4×8L Pan head sems(±)
Tightening torque	1.2~1.8N·m
No. of poles	1~20P

Accessories

End plate	FPS-K
Joint plate	FPS-2J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	41	51	61	71	81	91	101	111	121	131	141	151	161	171	181
Installation pitch (A)	32	42	52	62	72	82	92	102	112	122	132	142	152	162	172
Shaft length	39	49	59	69	79	89	99	109	119	129	139	149	159	169	179
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	191	201	211	221	231										
Installation pitch (A)	182	192	202	212	222										
Shaft length	189	199	209	219	229										

FPSK-40-※P

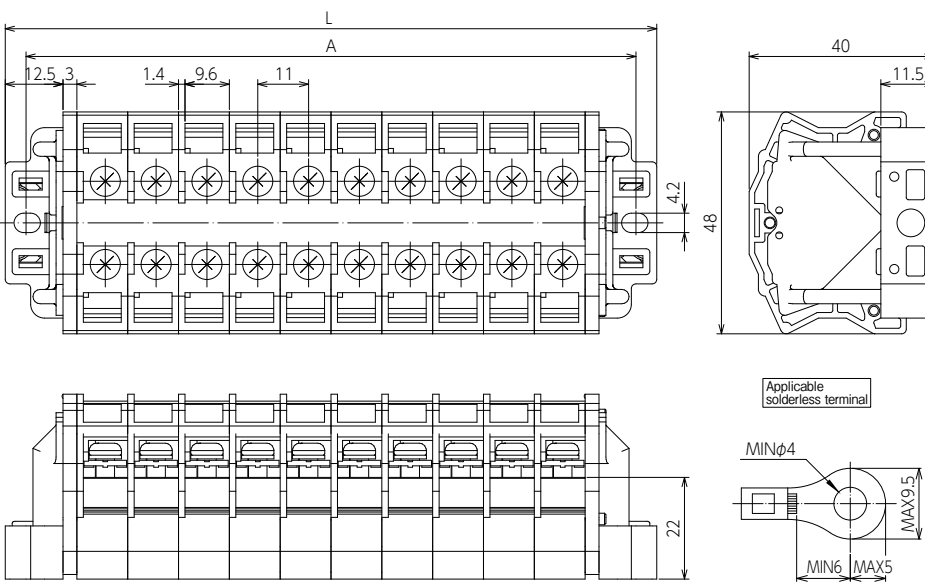


Rating

Rated voltage	1000V
Rated current	40A
Applicable wire	3.5~5.5mm ²
Terminal screw	M4×8L Pan head sems(±)
Tightening torque	1.2~1.8N·m
No. of poles	1~20P

Accessories

End plate	FPS-K
Joint plate	FPS-2J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total length of terminal (L)	42	53	64	75	86	97	108	119	130	141	152	163	174	185	196
Installation pitch (A)	33	44	55	66	77	88	99	110	121	132	143	154	165	176	187
Shaft length	40	51	62	73	84	95	106	117	128	139	150	161	172	183	194
No. of poles (※)	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Total length of terminal (L)	207	218	229	240	251										
Installation pitch (A)	198	209	220	231	242										
Shaft length	205	216	227	238	249										

FPSK-50-※P

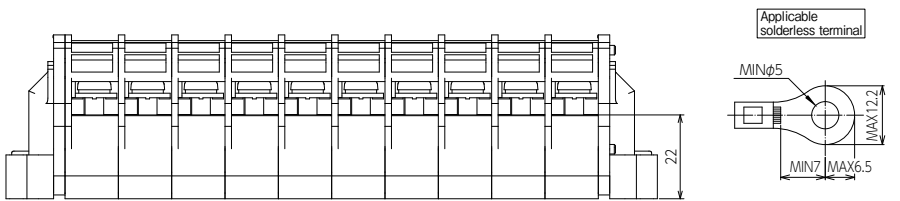
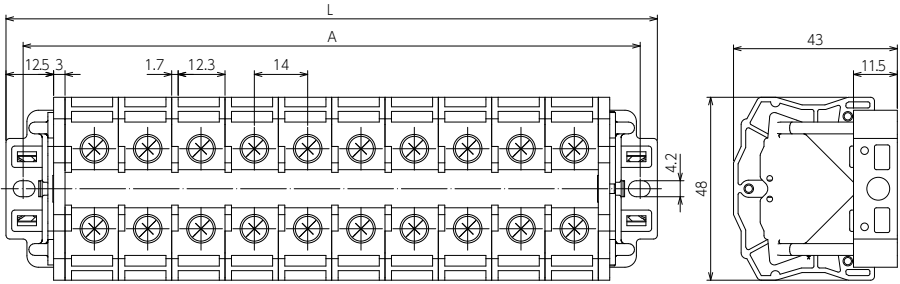


Rating

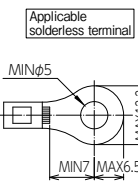
Rated voltage	1000V
Rated current	50A
Applicable wire	5.5~8mm ²
Terminal screw	M5×10L Pan head sems(±)
Tightening torque	2.0~3.0N·m
No. of poles	1~12P

Accessories

End plate	FPS-K
Joint plate	FPS-3J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12
Total length of terminal (L)	45	59	73	87	101	115	129	143	157	171	185	199
Installation pitch (A)	36	50	64	78	92	106	120	134	148	162	176	190
Shaft length	43	57	71	85	99	113	127	141	155	169	183	197



FPSK-80-※P

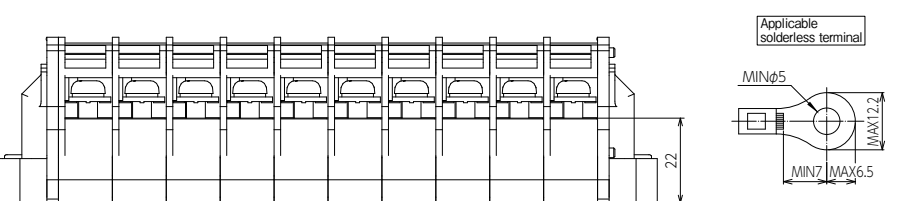
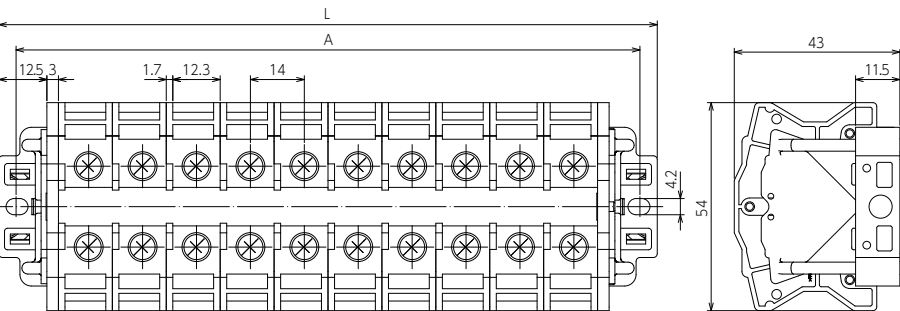


Rating

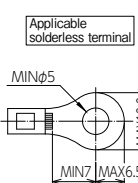
Rated voltage	1000V
Rated current	75A
Applicable wire	5.5~14mm ²
Terminal screw	M5×10L Pan head sems(±)
Tightening torque	2.0~3.0N·m
No. of poles	1~12P

Accessories

End plate	FPS-K
Joint plate	FPS-4J
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10	11	12
Total length of terminal (L)	45	59	73	87	101	115	129	143	157	171	185	199
Installation pitch (A)	36	50	64	78	92	106	120	134	148	162	176	190
Shaft length	43	57	71	85	99	113	127	141	155	169	183	197



FPSK-100-※P

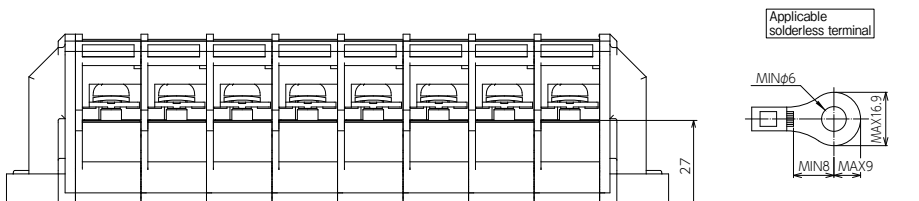
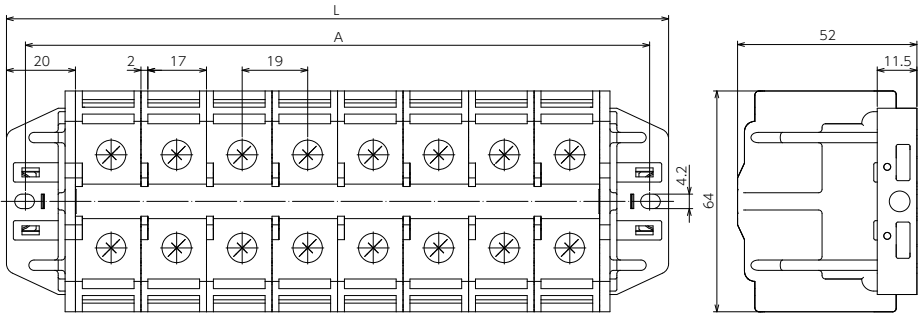


Rating

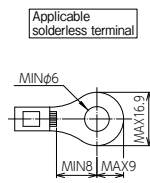
Rated voltage	1000V
Rated current	95A
Applicable wire	8~22mm ²
Terminal screw	M6×12L Pan head sems(±)
Tightening torque	2.5~3.7N·m
No. of poles	1~10P

Accessories

End plate	FPS-100K
Shaft	SF3
Name plate	AM-10



No. of poles (※)	1	2	3	4	5	6	7	8	9	10
Total length of terminal (L)	59	78	97	116	135	154	173	192	211	230
Installation pitch (A)	48	67	86	105	124	143	162	181	200	219
Shaft length	57	76	95	114	133	152	171	190	209	228



FPSK series
Applicable Short-bar



Terminal Block	Model No.			
	With insulation cover type		Non insulation cover type	
	Fork	Round	Fork	Round
PSK-10-※P	□B7A-2/4/6/8/10/50	□BR7A-2/10/50	SB7A-2/4/6/8/10/50	SBR7A-2/10/50
FPSK-20-※P	□B8A-2/4/6/8/10/50	□BR8A-2/10/50	SB8A-2/4/6/8/10/50	SBR8A-2/10/50
FPSK-20H-※P	□B9.5-2/4/6/8/10/50	—	SB9.5-2/4/6/8/10/50	—
FPSK-30-※P	□B10-2/4/10	—	SB10-2/4/10/20	—
FPSK-40-※P	□B11-2/4/10	—	SB11-2/4/10/20	—
FPSK-50-※P	□B14-2/4/10	—	SB14-2/4/10/20	—
FPSK-80-※P	□B14-2/4/10	—	SB14-2/4/10/20	—
FPSK-100-※P	—	—	—	—

□= Color code of insulation cover : [B] : Black , [G] : Green , [O] : Orange
Red character part : Put the No. of poles. (ex. BB8A-4)

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