

Discrete direct acting 2 port solenoid valve (general purpose valve)

B31-AB41 Series 
• NC (normally closed) type

AB42 Series 
• NO (normally open) type

Port size: Rc1/8 to Rc1/2

Δ

Common specifications

CE



## JIS symbol

AB31/41: NC (normally closed) type



### AB42: NO (normally open) type

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т		<u> </u>
	IN	

Item	Standard specifications	Optional sp	Optional specifications					
Working fluid	Air, low vacuum (1.33 x 10 <sup>2</sup> Pa (abs)), water, kerosene, oil (50 mm <sup>2</sup> /s or less)	Hot water	Steam					
Working pressure differential range MPa	0 to 5 (refer to max. working pressure differential in individual specifications. )							
Withstanding pressure (water) MPa	25							
Fluid temperature (Note 1) °C	-10 to 60	-10 to 90	-10 to 184					
Ambient temperature °C	-20 to 60	o 100						
Heat proof class	В	Н						
Atmosphere	Place free of corrosive gas and explosive gas							
Valve structure	Direct acting po	oppet structure						
Valve seat leakage cm3/min. (ANR)	0.2 or less (air)		300 or less (air)					
Mounting attitude	Free							
Body, sealant	Brass, nitrile rubber	Brass, ethylene propylene diene rubber Brass, PTFE						
body, sociant								

Note 1: No freezing

## Individual specifications

individual 3	poomoane	/10																
Item		Orifice			ing pre			· · ·	· /	Max. working	Rated				<u> </u>	Power consump	1	Wojaht
	Port size	(mm)	_	ir			Oil (50			pressure	voltage			Star			DC	(kg)
Model no.		()	AC	DC	AC	DC	AC	DC	AC	(MPa)		50 Hz	60 Hz	50 Hz	60 Hz	50/60 Hz		(1.9)
NC (normall	NC (normally closed) type																	
AB31-01 02-1		1.5	2.5	2.5	2.5	2.5	2.5	2.5	1.0									
-2		2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0									
-2 -3 -4	Rc1/8	3.0	1.0	0.5	0.7	0.5	0.5	0.5	0.7			12	10	17	14	5.2/3.8	11	0.35
-4	Rc1/4	3.5	0.6	0.4	0.5	0.4	0.4	0.4	0.5	]		12		11	14	5.2/5.0	(8.1) *5	0.55
-5		4.0	0.4	0.25	0.3	0.25	0.25	0.25	0.3	]								
-6		5.0	0.2	0.15	0.15	0.15	0.15	0.15	0.15	5	100 VAC							
AB41-02-1		1.5	5.0	4.0	4.5	4.0	4.0	4.0	1.0	5 (fluid; 1 for steam)	50/60 Hz							
		2.0	3.0	2.5	2.7	2.5	2.5	2.5	1.0	(1 IOI Stearin)	110 VAC							
-2 -3 -4 -5	]	3.0	1.5	0.9	1.3	0.9	0.9	0.9	1.0	]	60 Hz							0.43
-4	Rc1/4 Rc3/8	3.5	1.2	0.6	0.9	0.6	0.6	0.6	0.9	]							<b>11</b> (10.4) *5 (7) *7	(Rc1/4)
-5	1.00,0	4.0	1.0	0.5	0.7	0.5	0.5	0.5	0.7	]	200 VAC 50/60 Hz	18	15	29	24	6.7/5.7		0.45
-6	1	5.0	0.6	0.25	0.4	0.25	0.25	0.25	0.4		50/60 HZ							(Rc3/8)
-7	1	7.0	0.25	0.1	0.2	0.1	0.15	0.1	0.2	1	220 VAC							
AB41- <sup>03</sup> -8	Rc3/8 Rc1/2	10.0	0.1	0.05 (0.03) *8	0.1	0.05 (0.03) *8	0.05	0.05 (0.03) *8			60 Hz 12 VDC							0.54
NO (normall	y open) ty	ре									24 VDC							
AB42-02-1		1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.0		48 VDC							
-2		2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		100 VDC							0.50
-3		3.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2							15.5	(Rc1/4)
-4	Rc1/4 Rc3/8	3.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5 (fluid; 1 for steam)		22	18	35	29	8.7/6.7	(14)	
-5		4.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4									0.52
-6	]	5.0	0.25	0.25	0.25	0.25	0.25	0.25	0.25	]								(Rc3/8)
-7		7.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15									

\*1: The model numbers above show the basic port size (Rc) and orifice diameter. Refer to How to order for other combinations (e.g., for steam).

\*2: The port size symbol is 01 for Rc1/8 (6A), 02 for Rc1/4 (8A), 03 for Rc3/8 (10A) and 04 for Rc1/2 (15A).

\*3: Refer to DC column for the max. working pressure differential of coil with diode.

\*4: The voltage fluctuation must be within ±10% of the rated voltage. \*5: Power consumption of coil housing 2E/2G/2H is indicated.

\*6: When using with a low vacuum, vacuum the OUT port side.

\*7: Power consumption of coil housing 6C/6E/6G/6H is indicated.

\*8: The DC voltage of coil housing 2E/2G/2H and the max. working pressure differential of coil housing 6C/6G/6H are indicated.



## Optional specifications (fluid temperature, ambient temperature, valve seat leakage)

Sealant material	Fluoro	rubber	Ethylene propyle	ene diene rubber	PTFE		
Coil (heat proof class)	В	Н	В	Н	В	Н	
Fluid temperature (Note 1) °C	-10 to 60	-10 to 90	-10 to 60	-10 to 90	-10 to 60	-10 to 184	
Ambient temperature °C	-20 to 60	-20 to 100 (Note 2)	-20 to 60	-20 to 100 (Note 2)	-20 to 60	-20 to 100 (Note 2)	
Valve seat leakage cm3min. (ANR)		0.2 or le	ess (air)		300 or l	ess (air)	

Note 1: No freezing

Note 2: The range is -20 to 80°C when using the HP terminal box with indicator light for the coil housing.

## Flow characteristics

		Orifice	Flow characteristics					
Model no.	Port size	(mm)	C [dm3/(s.bar)]	b	Cv flow factor			
NC (normally closed) type								
AB31-81-1		1.5	0.29	0.53	0.1			
-2		2.0	0.53	0.52	0.15			
-3		3.0	1.1	0.52	0.31			
-4	Rc1/8	3.5	1.7	0.49	0.42			
	Rc1/8	5.5	(1.5)	(0.47)	(0.40)			
-5	KC1/4	4.0	2.1	0.48	0.54			
<b>.</b>		4.0	(1.9)	(0.47)	(0.48)			
-6		5.0	3.0	0.42	0.8			
-		5.0	(2.6)	(0.38)	(0.62)			
AB41-83-1		1.5	0.29	0.53	0.1			
-2		2.0	0.53	0.52	0.15			
-3		3.0	1.1	0.52	0.31			
-4		3.5	1.7	0.49	0.42			
	Rc1/4	5.5	(1.5)	(0.47)	(0.40)			
-5	Rc3/8	4.0	2.1	0.48	0.54			
-5	RC3/0	4.0	(1.9)	(0.47)	(0.48)			
-6		5.0	3.0	0.42	0.8			
<b>.</b>		5.0	(2.6)	(0.38)	(0.62)			
-7		7.0	4.8	0.29	1.0			
		7.0	(4.6)	.6) (0.37)				
AB41-%-8	Rc3/8	10.0	9.3	0.36	1.88			
	Rc1/2	10.0	(8.1)	(0.31)	(1.5)			
NO (normally open) type	r							
AB42-03-1		1.5	0.29	0.53	0.1			
-2		2.0	0.53	0.52	0.15			
-3		3.0	1.1	0.52	0.31			
-4		3.5	1.7	0.49	0.4			
-	Rc1/4	0.0	(1.5)	(0.47)	0.4			
-5	Rc3/8	4.0	2.1	0.48	0.47			
-	100/0		(1.9)	(0.47)	0.47			
-6		5.0	3.0	0.42	0.63			
• 		0.0	(2.6)	(0.38)	(0.62)			
-7		7.0	4.8	0.29	1.0			
•		7.0	(4.6)	(0.37)	(0.82)			

\*1: Effective sectional area S and sonic conductance C are converted as S  $\approx 5.0$  x C.

\*2: Values shown in ( ) are for stainless steel body.

APK/ ADK For dry air Explosion proof HVB/ HVL SAB/ SVB NP/NAP/ NVP CHB/G MXB/G Other G.P. systems PD/FAD/ PJ CVE/ CVSE CPE/ CPD Medical analysis Custom order

HNB/G

USB/G

FAB/G

FGB/G

FWB/G FHB FLB AB AG AP/ AD

# AB31/41/42 Series

How to order

**AB31** AB41 Model no.

•	NC	(normally	closed)	type

	<b>G</b>	Manual overri	de (loc	king) 🕻	Surge suppre	essor				Model n		10.		
		Ø١	loun	ting pl	ate 🛈 Copp	er and PTF	E free			<b>AR31</b>	AB41	AB4		
		Symb	ol	De	escriptions Symbol		Description	s Symbol	Descriptions			Low pressure large flow rate		
A Port size	1	(A) Po	rt si	ze										
		01			Rc1/8	1G	G1/8	1N	1/8NPT	•				
		02			Rc1/4	2G	G1/4	2N	1/4NPT	•	•	_		
		03			Rc3/8	3G	G3/8	3N	3/8NPT		•	•		
		04			Rc1/2	4G	G1/2	4N	1/2NPT			•		
BOrit		BOri	fice											
BOU	lice	1 Ø1			5		•	•						
		2		ø2						•	•			
		<b>3</b> Ø3								•	•			
		4 Ø3.5 5 Ø4												
		5	•	•										
		6												
		7				•								
		8	8 Ø10											
		© Body/sealant combination												
	Body/sealant     combination			Body	Sealar		Treatment		emarks					
	*1	Blank	Std.	azuc	Nitrile rubber Fluoro rubber			Air, water, low vacu	•	•	•			
	*2	В		Brass or bronze			-		erosene (up to 90°C *2)	•	•	•		
	*3	С		3SS (	PTFE			Steam (up to		•	•			
	*4	V			Fluoro rubl		Vacuum inspection	Medium vacu	-	•	•	•		
	*5 *6	D		teel	Nitrile rubb	-			um, kerosene (up to 60°C)	•	•	•		
	*7	E		Stainless steel	Fluoro rubl	ber	-		erosene (up to 90°C *2)	•	•	•		
		F	5	ainle	PTFE			Steam (up to	,	•	•	_		
		w	Option	ŝ	Fluoro rubl		Vacuum inspection	Medium vacu	-	•	•	•		
		н			Nitrile rubb	-			um, kerosene (up to 60°C)	•	•	•		
		J		Brass	Fluoro rubl	ber			erosene (up to 90°C *2)	•	•	•		
		ĸ		ā	PTFE			Steam (up to	,	•	•	_		
		P			Ethylene propyle			Hot water (up		•	•	•		
		L		steel	Nitrile rubb	-	Oil free	Air, water, low vacuum, kerosene (up to 60°C		•	•	•		
		M		SSS (	Fluoro rubber			Air, low vacuum, k	•	•	•			
		N R		Stainless s	PTFE Ethylene propylene diene rubber			Steam (up to Hot water (up		•	•	-		
			1 I	S	I ⊢mviene propyle	ne diene runher		Hot water (ur	D TO 90 C *2)					

## <Example 1 of model number>

#### AB31-02-3-AC100V Model no.: AB31

Refer to the following page for details on the coil housing, other options and voltage, etc.

Port size:	Rc1/4
Orifice:	ø3
• • • • • • • • • • • •	

dicated with 
in the above table are available.

ø3	The combinations ind
Body - brass,	sealant - nitrile rubber
Grommet lead	wire
Blank	
100 VAC 50/6	0Hz, 110 VAC 60Hz
	Body - brass, Grommet lead Blank

## <Example 2 of model number>

# AB41-02-3-AC100V

Model no.: AB41	
A Port size:	Rc1/4
B Orifice:	ø3
Body/sealant combination:	Body - brass, sealant - nitrile rubber
Coil housing:	Grommet lead wire
Manual override (locking):	Selected
🕒 to 🕕:	Blank
Surge suppressor:	Selected
Rated voltage:	100 VAC 50/60Hz, 110 VAC 60Hz

## A Note on model no. selection

Note on O

- \*1: Leave blank for standard. However, to select options in (1) to (1), indicate 0 for ©.
- \*2: When 4A, 4M or 4N is selected for D.
- \*3: The body for the low pressure large flow rate AB41-03-8 is bronze (standard) or stainless steel (optional).
- \*4: For option symbols V and W, vacuum is inspected at "leakage amount: 1.33 x 10<sup>-6</sup> Pa·m<sup>3</sup>/s or less".
- When  $\bigcirc$  of the low pressure large flow rate AB41- $^{03}_{04}$ -8 is V or W, \*5: DC voltage is not available.
- \*6: The ethylene propylene diene rubber seal combination (© P/R) cannot be used with air. (Compressed air contains oil, and ethylene propylene diene rubber is not oil-resistant. )
- When C is C, F, K, P, N or R, the coil housings D 6C, 6E, 6G \*7: and 6H cannot be selected.



For O to O, the combinations indicated with symbols can be manufactured. Note that if options (E) to (1) are not required, no symbol is indicated

	Coil housi	ing		9		G	Other of	options	5				J Rated voltage	HNE
escrip	otions			Manual override (locking)	Mounting plate	(Marii	le gland ine cable A-15b	e gland)		luit pipe)	Surge suppressor	Copper and PTFE free	Descriptions	USE
ank 🖁	·	et lead wi											100 VAC, 200 VAC	
E G	DIN tern	minal box minal box	(Pg11)	A	в						s	P6	100 VAC, 200 VAC 12 VDC, 24 VDC, 48 VDC, 100 VDC	FGI
H	DIN term		small light (Pg11)	<b> </b> '	<u> </u>					н	<u> </u>	<u> </u>	100 VAC, 200 VAC, 24 VDC	FVE
A		Lead wi		{					G	Н			100 VAC, 200 VAC	FW
M	Open	UD tormine	ninal box (G1/2)								s	P6	12 VDC, 24 VDC, 48 VDC, 100 VDC	
N Bl	frame type	·	al box + light (G1/2)	Α	В	D	E	F			3	FO	100 VAC, 200 VAC, 12 VDC, 24 VDC, 100 VDC	FH
J			(IP65 or equivalent) (G1/2)	1									100 VAC, 200 VAC, 12 VDC, 24 VDC, 48 VDC, 100 VDC	
A	<u> </u>	,	ight (IP65 or equivalent) (G1/2)	<u> </u>	<u> </u>	-		_	G	н	s	+	100 VAC, 200 VAC, 12 VDC, 24 VDC, 100 VDC	FLE
_	Open fromo tuno	Lead wi			в		-	T	6	<u> </u>	5	De	100 1/40 200 1/40	
Dotion N			ninal box (G1/2)	Α	в	D	E	F				P6	100 VAC, 200 VAC	AB
-	harper		al box + light (G1/2)	<u> </u> '		-			G	н		<u> </u>		
A		Lead wi		{					6	п	-			AG
M	Open		ninal box (G1/2)	1, '								P6	1001/10 0001/100	AP
N	(diode integrated)		al box + light (G1/2)	Α	В	D	E	F				PO	100 VAC, 200 VAC	AD
il J	(abao mogracovy	in winner even	(IP65 or equivalent) (G1/2)	{										AP
-			ight (P65 or equivalent) (G1/2)	<u> </u>	──	-		L				4		AD
C E		et lead wi		1									12 VDC, 24 VDC	For
		minal box minal box	. ,	Α	в						S	P6	12 VDC, 24 VDC	dry
G H			(Pg11) 7W nall light (Pg11) 7W	1						н	4		24 VDC	Exp
											Refer	to the	e following precautions for $\textcircled{D}$ to $\textcircled{O}$ .	HVI HVI SAI
ank 6C		0	Grommet lead	d wire (	300 mn	n				G H		to	● Conduit ● G (CTC19) ● H (G1/2)	SV NP/ NVI
E G H	120		DIN terminal						_			mode	el no. selection	CH MX
SE SG				DOX					No	ote on	D			Othe
SH									*8:				he standard coil housing. However, to select	syst
BA	120		<ul> <li>Open frame t grommet lead</li> </ul>	type	200 mm					options in (E) to (), indicate 00 for (D). 9: 5A, 5M, 5N, 5I and 5J are coils for which AC power is converted to DC with a diode.				
4A 5A	11.00	0	<ul> <li>4A (heat proc</li> </ul>	of class	sH)	4			*10		coil fo nation.	r steam	m is available for AB41. Contact CKD for more	CV CV
SA		-	<ul> <li>5A (diode inte</li> </ul>	egrateu	1)				*11	1: 6C, 6E	E, 6G o	or 6H ca	an be selected for only AB41.	CP
							=		*12	2: The c	coil ho	usings	6C, 6E and 6G are 12 VDC and 24 VDC	CP
M N		-								dedica	ated. or	H is 24	VDC dedicated.	Me
M			<ul> <li>Open frame H</li> <li>4M, 4N (heat</li> </ul>						N	lote on (	🔁 to 🗲	D		Me ana
N M			<ul> <li>5M, 5N (diode</li> </ul>			)							A) is not available for the low pressure large flow rate AB41-8-8.	Cu
N									*14	4: When	© is C,	, F, K, N,	I, V or W, the manual override (E A) is not available.	orc
31 3J 51 5J		1	● Open frame H (IP65 or equiv ● 5I, 5J (diode i	ivalent)			<ul> <li>*14: When © is C, F, K, N, V or W, the manual override (Ê A) is not available.</li> <li>*15: Select one among D, E, F, G and H for ©.</li> <li>*16: The surge suppressor is an accessory for the lead wire coil. When selecting a coil with terminal box, the surge suppressor is mounted in the terminal box.</li> <li>*17: As standard, the surge suppressor is mounted in the coil with diode and the 24 VDC coil (<sup>®</sup>) 2H/6H), so the surge suppressor</li> </ul>						D, E, F, G and H for (©). is an accessory for the lead wire coil. When selecting a the surge suppressor is mounted in the terminal box. urge suppressor is incorporated in the coil with	
	efer tr		a 122 for co	oile	مامد	tion	]			3: (1) P6 9: Tropic rust. C	is avail calization Contact	ilable or on (rust- CKD for	-proof coating) is available as a measure against proof coating) is available as a measure against or more information. alization is not available when the manual override	

Refer to page 122 for coil selection.

### Note on J

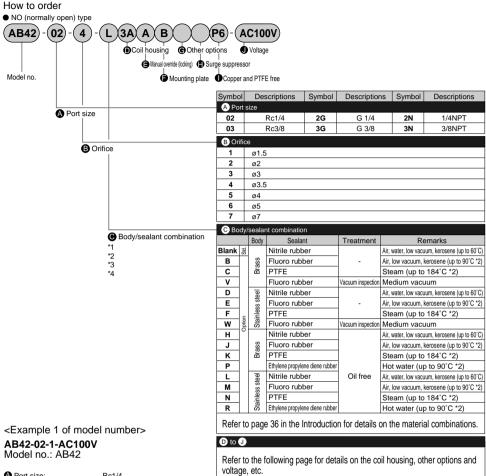
\*20: 100 VAC coil is compatible with 100 VAC 50/60 Hz and 110 VAC 60 Hz, and 200 VAC coil is compatible with 200 VAC 50/60 Hz and 220 VAC 60 Hz. Note that the coils D 5A/5M/5N/5I/5J can be used only with 100 VAC 50/60 Hz or 200 VAC 50/60 Hz.

Note that the tropicalization is not available when the manual override option A and the coil option 6C/6E/6G/6H are selected.

- \*21: For voltages other than above, consult with CKD.
- \*22: The lead wire is available in the standard 300 mm length, and 500 mm, 1000 mm, 2000 mm and 3000 mm lengths. Contact CKD for more information.



# AB31/41/42 Series



Port size:	Rc1/4
Orifice:	ø1.5
Body/sealant com	bination:

	Body - brass, sealant - nitrile rubber
Coil housing:	Grommet lead wire
🕒 to 🕕:	Blank
Rated voltage:	100 VAC 50/60Hz, 110 VAC 60Hz

## <Example 2 of model number>

## AB42-03-6-000AS-AC100V Model no.: AB42

A Port size:	Rc3/8
B Orifice:	ø5
Body/sealant combination	:
	Body - brass, sealant - nitrile rubber
Coil housing:	Grommet lead wire
Manual override (locking):	Selected
<b>() ()</b> :	Blank
Surge suppressor:	Selected
Rated voltage:	100 VAC 50/60Hz, 110 VAC 60Hz

### A Note on model no. selection

#### Note on O

- \*1: Leave blank for standard. However, to select options in 0 to 0, indicate 0 for 0.
- \*2: When 4A, 4M or 4N is selected for D.
- \*3: For option symbols V and W, vacuum is inspected at "leakage amount: 1.33 x 10<sup>-6</sup> Pa·m<sup>3</sup>/s or less".
- \*4: The ethylene propylene diene rubber seal combination (© P/R) cannot be used with air. (Compressed air contains oil, and ethylene propylene diene rubber is not oil-resistant.)



# AB31/41/42 Series

HNB/G

For D to D, the combinations indicated with symbols can be manufactured. Note that if options (E) to (1) are not required, no symbol is indicated.

)	С	oil housir	ng		9	9			options			0	U	J Rated voltage	ι
escr	ipti	tions			Manual override locking)	Mounting plate	(Mari	le glan ne cable	gland)		uit pipe)	Surge suppressor	Copper and PTFE free	Descriptions	-
					Manual o (locking)	Moun	A-15a	A-15b	A-15c	CTC19	G1/2	Surge	Copper		I
_	nk 😸 Grommet lead wire				_									100 VAC, 200 VAC	
E			I terminal box (G1/2)			в						s	P6	100 VAC, 200 VAC	
G H	DIN terminal box (Pg11) DIN terminal box + small light (Pg11)							<u> </u>	н			12 VDC, 24 VDC, 48 VDC, 100 VDC 100 VAC, 200 VAC, 24 VDC			
A		Direction	Lead v							G	н			100 VAC, 200 VAC, 24 VDC	
м		HP te		minal box (G1/2)		в	D		F		1	s	P6	12 VDC, 24 VDC, 48 VDC, 100 VDC	
N	fran	Open frame type	HP terminal box (IP65 or equivalent) (G1/2)					Е						100 VAC, 200 VAC, 12 VDC, 24 VDC, 100 VDC	
I								-						100 VAC, 200 VAC, 12 VDC, 24 VDC, 48 VDC, 100 VDC	1
J A	Option		Lead v	+ light (IP65 or equivalent) (G1/2) wire				I	<u> </u>	G	н	s		100 VAC, 200 VAC, 12 VDC, 24 VDC, 100 VDC	
N N		Open frame type		minal box (G1/2)	Α	в	-	- I	-	6	П	3	P6	100 VAC, 200 VAC	1
N		(heat proof class H)		inal box + light (G1/2)			D	E	F					100 0.00, 200 0.00	- 1
4			Lead v							G	Н				
M		Open		minal box (G1/2)									P6		-
N il		frame type (diode integrated)		inal box + light (G1/2) ox (IP65 or equivalent) (G1/2)	A	В	D	E	F				P6	100 VAC, 200 VAC	
J				+ light (IP65 or equivalent) (G1/2)											
												Refer	to the	following precautions for D to J.	
	-		1.00									-			
ink				• Comment land	، مداری او	200	_			0	3	Sel.	1	Conduit	-
	9		9	<ul> <li>Grommet lea</li> </ul>	a wire	300 mr	n			H	-		FO	● G (CTC19) ● H (G1/2)	
			-												
		-	2.25												
E G		-		<ul> <li>DIN terminal</li> </ul>	hox										
H				• Birt tormina	DON										-
															-
	í,	-		Open frame	hino										
A	1		-	grommet lea	d wire 3	300 mn	n			Â	Note	on r	node	el no. selection	-
A	1	-	0	<ul> <li>4A (heat pro</li> <li>5A (diode int</li> </ul>						N	ote on	Đ			_
	_		_							*5:	Leave	blank	for the	standard coil housing. However, to select options	
M N			_							*6.				00 for <sup>(</sup> ). 5J are coils for which AC power is converted to	-
M				<ul> <li>Open frame</li> <li>4M, 4N (heat</li> </ul>	t proof o	class H	) )			0.	DC w	ith a die	ode.	so are consitor which he power is convented to	
M			Ψ.	<ul> <li>5M, 5N (diod</li> </ul>	e integ	rated)				N	ote on	<b>B</b> to	0		
N										*7:				K, N, V or M, the manual override ( A) is not	-
81			-							*8:	availa		mong	D, E, F, G and H for ⑥.	
ij ij				<ul> <li>Open frame (IP65 or equ</li> </ul>	ivalent)		x			*9:	The s	urge sup	pressor	is an accessory for the lead wire coil. When selecting	-
J				<ul> <li>5I, 5J (diode</li> </ul>	integra	ted)				*10				x, the surge suppressor is mounted in the terminal box. urge suppressor is incorporated in the coil with	
										10	diode	and t	he 24	VDC coil (D 2H), so the surge suppressor	
										*11				e selected. Inly when (C) is L.	
* Refer to page 122 for coil selection.						*11: ① P6 is available only when $\hat{\mathbb{C}}$ is L. *12: Tropicalization (rust-proof coating) is available as a measure									
				-										ct CKD for more information. vicalization is not available when the manual	
														selected.	
										N	ote on	0			
							*13				mpatible with 100 VAC 50/60 Hz and 110 VAC				
														C coil is compatible with 200 VAC 50/60 Hz and Note that the coils  (i) 5A/5M/5N/5I/5J can be	
														VAC 50/60 Hz or 200 VAC 50/60 Hz.	

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more information.

 \*13: 100 VAC coil is compatible with 100 VAC 50/60 Hz and 110 VAC 60 Hz, and 200 VAC coil is compatible with 200 VAC 50/60 Hz and 220 VAC 60 Hz. Note that the coils (i) 5A/5M/5N/5/5/ can be used only with 100 VAC 50/60 Hz or 200 VAC 50/60 Hz.
 \*14: For voltages other than above, consult with CKD. \*15: The lead wire is available in the standard 300 mm length, and 500 mm, 1000 mm, 2000 mm and 3000 mm lengths. Contact CKD for