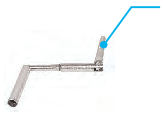
NA8

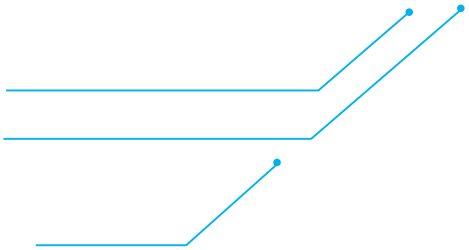
“ + ”

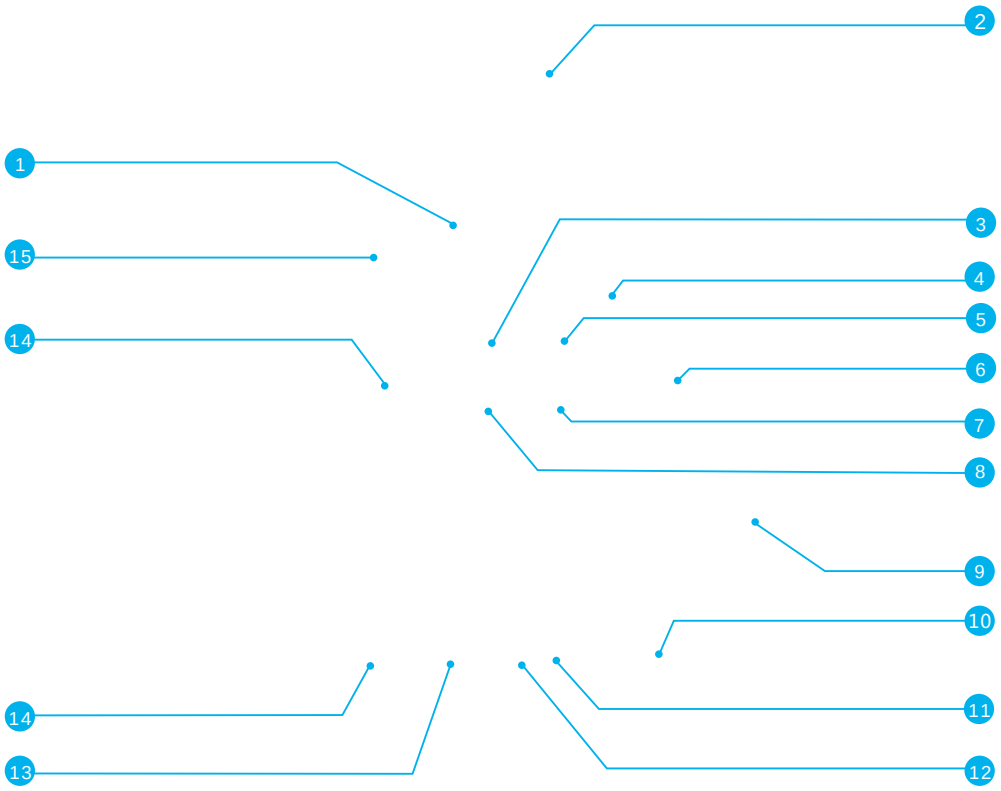
2015 94

30
140

NA8







1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	
8		16	

- A 1600 2500 3200 4000 7500
- N, H 2500
- Ue VAC 380/400/415 690
- 3 4
-
-

- NA8

  -5℃~+40℃

  -45℃~+70℃ M -20 ~+70 H P23
-

  -45 ~+70
- NA8
- □
- □
- □
- □
- NA8 EMC

  IEC/EN 60947-2 GB/T 14048.2 F
-

  IP20, IP00
- M

  L S I&G
- H

  M
- H +

  H

  ( )

  ( )

  ( )

  ( )

-
-
  NA8-1600
-
-
-
-
-
-
  1600
-
  1 1
  2 +1
-
  1 1 +2A
  2 +1 + 3A

NA8

		200	400	630	800	1000	1250	1600	2000	2500	3200	4000	5000	6300	7500
NA8-1600	N	■	■	■	■	■	■	■							
NA8-2500	N					■	■	■	■	■					
	H			■	■	■	■	■	■	■					
NA8-3200								■	■	■	■				
NA8-4000	H								■	■	■	■			
NA8-7500												■	■	■	■

NA8

NA8 - 1600 - N - 1600 - M / 3 - - D 230VAC OTHER

	1600	N	200	M	3		D	230VAC 230V		
	2500	H	400	H	4		F	400VAC 400V	KL	
	3200		630					110VDC 110V		
	4000		800					220VDC 220V		
	7500		1000							
			1250							
			1600							
			2000							
			2500							
			3200							
			4000							
			5000							
			6300							
			7500							

1 NA8-2500 N “N” H “H”

2 NA8-3200 NA8-7500 H "H"

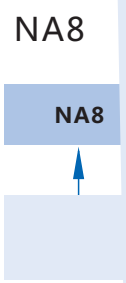
3

4 NA8-2500H-2000M/3 AC220: 2500 H 2000A M 3 220V

NA8

NA8 - 1600 - CC - 230VAC

	1600	CC	230VAC 230V
	2500	ST	400VAC 400V
	2500 7500	UVT	110VDC 110V
	3200 7500	MO	220VDC 220V
		UVTD	

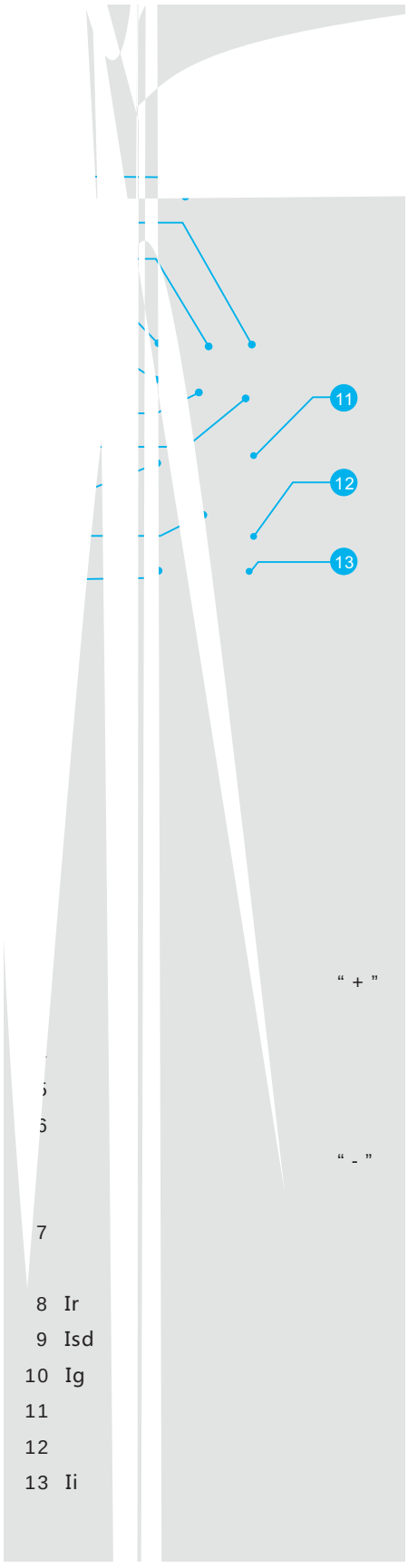

NA8
NA8

	3/4
Ue V	380/400/415 690
Ui V	1000
Uimp kV	12
Hz	50/60
mm	0
	GB/T 14048.2 IEC/EN 60947-2
	GB/T 14048.1 IEC 60664-1 N:3

A		
A		
kA rms VAC 50/60Hz	Icu	380/400V/415V 690V
kA rms VAC 50/60Hz	Ics	380/400V/415V 690V
kA rms VAC 50/60Hz	Icw 1s	380/400V/415V 690V
	Icw 3s	380/400V/415V 690V
kA peak VAC 50/60Hz	Icm	380/400V/415V 690V
MCR kA rms		
ms		
ms		
C/O		
		3P
× ×		4P
		3P
		4P

	k ^UJNSMM==							k ^UJORMM===							k ^UJPOMM==			
	200	400	630	800	1000	1250	1600	630	800	1000	1250	1600	2000	2500	1600	2000	2500	3200
	200	400	630	800	1000	1250	1600	630	800	1000	1250	1600	2000	2500	1600	2000	2500	3200
	N(400V)			**N(690V)**				**N(415V)**	**H (415V)**		**N(690V)**	**H (690V)**			**N(Q00V)**			
	55			30				90	85		50	65			100			
	42			25				80	85		50	65			100			
	B							B							B			
	42			25				65	85		50	65			85			
									50			50						
	121			63				176	176		105	121			176			
	10							16							26			
	20 30							20 30							20 30			
	30 40							30 40							30 40			
	20000							20000							20000			
	8000			3000				8000			4000				8000			
	■							■							■			
	320×254×258							367×370×357							402×422×330			
	320×324×258							367×461×357							402×537×335			
	351×282×352							431×375×478							431.5×435×456			
	351×352×352							431×470×478							431.5×550×456			

k ^UJQMMM					k ^UJTRMM							
1600	2000	2500	3200	4000	4000	5000	6300	7500				
1600	2000	2500	3200	4000	4000	5000	6300	3750				
H(QNRV)	**H(690V)**				**N(QQMV)**	**N(690V)**	**H(QQMV)**	**H(690V)**	**N(QQMV)**	**N(690V)**	**H(QQMV)**	**H(690V)**
100	85				135	100	150	100	135	100	150	100
100	85				135	100	135	100	135	100	150	100
B					B							
100	85				135	100	135	100	135	100	135	100
75	75				100	100	100	100	100	100	100	100
220	187				297	220	330	220	297	220	330	220
26					26							
20 30					20 30							
30 40					30 45							
10000					10000							
6000	3000				1500	1000						
■					■							
402×422×335												
402×537×335												
431.5×435×456					472×786×464							
431.5×550×456					472×1016×464							



- RMS
- RMS
  4
- 4
- $6I_R$
- M RMS 40% 150% 2%

I²t

1.5Ir								
2.0Ir								
6.0Ir								

N ---

I/Ir

t ---

t_R ---

±15%

1.0In ;

6Ir ; 2s

1.0In 2s(6Ir) I=1.8In t

N=1.8In/1.0In=1.8

$t=(6/1.8)^2\times2=22.2s$

<0.85Isd

>1.15Isd

Isd 1.5Ir~10Ir+OFF tsd 0.1~0.4s

Isd<I≤10Ir		I£ s7 - °
1≥1.1Isd		

<0.85Ii

>1.15 Ii

2In~15In+OFF

≤100ms

12In

<0.9Ig

>1.1Ig

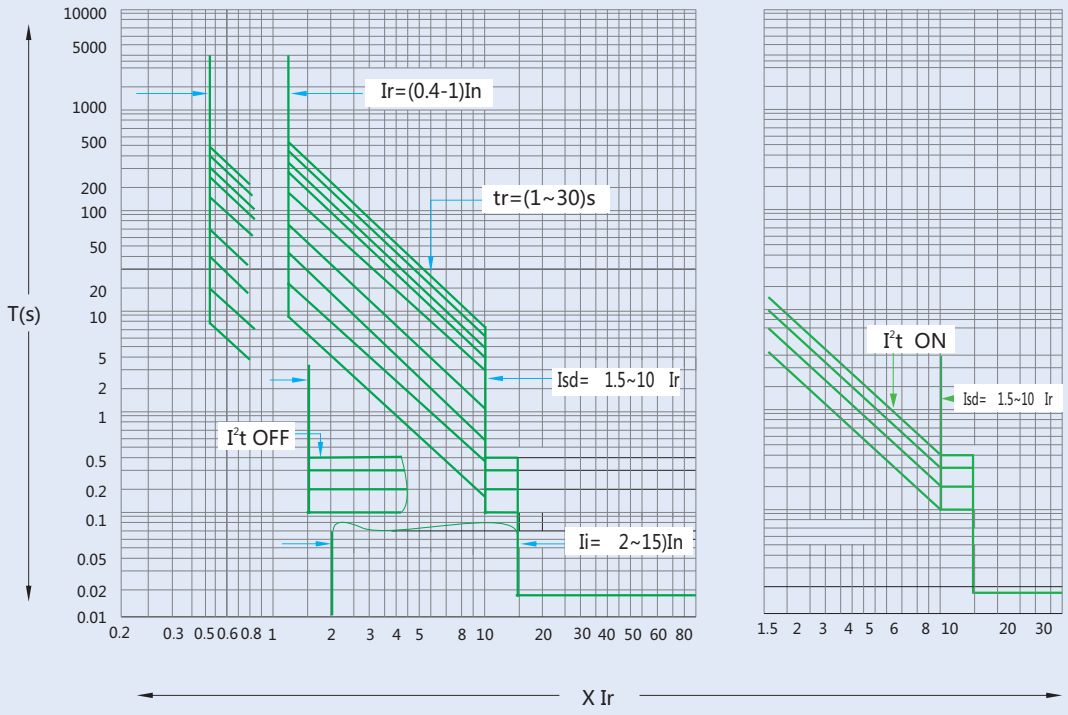
s	0.1	0.2	0.3	0.4
s				
s				

1

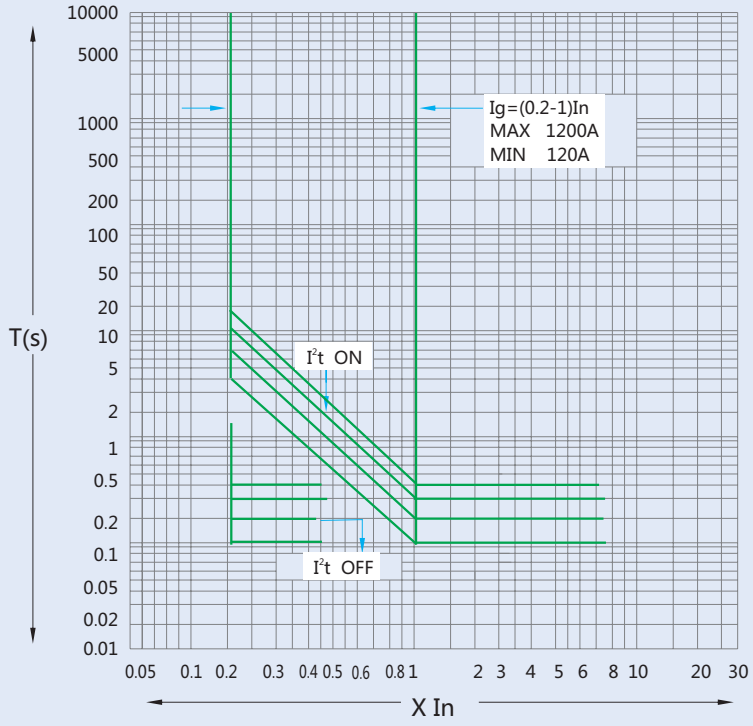
/

I_G —

1600
2500
≥3200


T(s)
10000
5000
1000
500
200
100
50
20
10
5
2
1
0.5
0.2
0.1
0.05
0.02
0.01
0.2 0.3 0.5 0.6 0.8 1 2 3 4 5 8 10 20 30 40 50 60 80
Ir=(0.4-1)In
tr=(1~30)s
Isd= 1.5~10 Ir
I²t OFF
Ii= 2~15)In
I²t ON
Isd= 1.5~10 Ir
1.5 2 3 4 5 6 8 10 20 30
X Ir

( )


T(s)
10000
5000
1000
500
200
100
50
20
10
5
2
1
0.5
0.2
0.1
0.05
0.02
0.01
0.05 0.1 0.2 0.3 0.4 0.5 0.6 0.8 1 2 3 4 5 6 8 10 20 30
Ig=(0.2-1)In
MAX 1200A
MIN 120A
I²t ON
I²t OFF
X In

KL

3

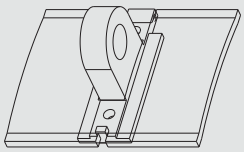
(1S1S)

(2S1S)

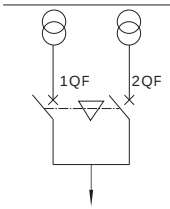
(3S2S)

PL

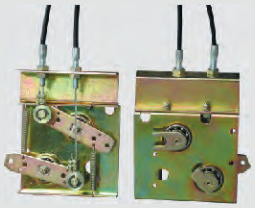
ILK



2



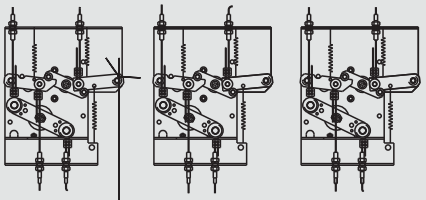
1QF	2QF
0	0
0	1
1	0

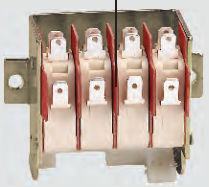


a. R120mm

b.

ILK-3/4





OF		
		4CO
		A / V
	VAC AC-15	1.3/240 0.75/415
	VDC DC-13	0.55/220 0.27/110

CD-CE-CT		
		1CO/3
		A / V
	VAC AC-15	1.3/240 0.75/415
	VDC DC-13	0.55/220 0.27/110

		1CO
		A / V
	VAC AC-15	1.3/240 0.75/415
	VDC DC-13	0.55/220 0.27/110

		1NO
		A / V
	VAC AC-15	1.3/240 0.75/415
	VDC DC-13	0.55/220 0.27/110

[1] CO 1 1

[2] NO NC

1600 MO 2500~7500 MO

1600 CC&ST

2500~7500 CC&ST

MO

	VAC 50/60HZ	220/230/240 380/400/415
	VDC	110 220
		0.85-1.1Us
VA W		1600:75W 2500:85W 3200:150W 4000 7500:180W
		≤1min
		≤7s
		≤2 /min

CC ST

CC

CC

		CC
	VAC 50/60HZ	220/230/240
		380/400/415
	VDC	220,110
		0.85-1.1Us
VA W	AC	400VA
	DC	1600 380W 2500~7500 130W
		30ms-45ms

ST

ST

		ST
	VAC 50/60HZ	220/230/240
		380/400/415
	VDC	220,110
		0.70-1.1Us
VA W	AC	400VA
	DC	1600 380W 2500~7500 130W
		25ms-35ms

1600 UVT 2500~7500 UVT

UVT)

如果供 35% 到 70% 之间的一个值， 此脱扣线圈引起断路器瞬时断开。 如果 UVT脱扣线圈未被供电， 无论 或 ， 只有 UVT脱扣线圈的供电电压达到额定电压的 85% 才允许将断路器合闸。

	VAC 50/60HZ		220/230/240 380/400/415
	VDC		–
		0.35-0.7Ue	0.35-0.7Ue
		0.85Ue	0.85-1.1Ue
: W			1600 220W/15W 2500~7500 220W/13W

/

UVTD

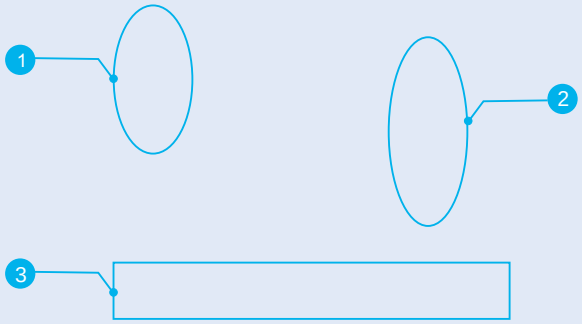
UVT UVT

	VAC 50/60HZ		
		0.35-0.7Ue	
		0.85Ue	
: VA	1600 20VA 2000~7500 : 48VA		
	1s 5s,		

NA8-1600 2500 7500

2A

CD-1 2A - -



	,
	S1 S2 ,OFF
S1	S1 S1
S2	S2 S2
	S1 S2
	S1 S2 OFF

2A

1

2 400V-480V

3 280V-360V

4 T1 T2 T3 T4 0.5-64S 0.5S

5

6

7

8

9

10 ( )

11

12

13

14

15

16

17 130%Ue

S1	S2
1	0
0	0
0	1

Î ح ر ʁ Ð ⁺ . 0 ɪ

NA8-1600

	200A		400A		630A		800A		1000A		1250A		1600A	
40°	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45°	-	-	-	-	-	-	-	-	-	-	-	-	1550	-
50°	-	-	-	-	-	-	-	-	-	-	-	-	1500	1550
55°	-	-	-	-	-	-	-	-	950	950	1150	1200	1450	1500
60°	-	-	-	-	550	580	700	700	900	900	1050	1100	1350	1450

NA8-2500

	630A		800A		1000A		1250A		1600A		2000A		2500A	
40°	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45°	-	-	-	-	-	-	-	-	-	-	1900	-	2400	2400
50°	-	-	-	-	-	-	-	-	1500	1550	1850	1900	2300	2300
55°	-	-	-	-	-	-	-	-	1400	1450	1800	1800	2200	2200
60°	-	-	-	-	-	-	-	-	1300	1350	1700	1700	2100	2100

NA8-3200

	1600A		2000A		2500A		3200A	
40°	-	-	-	-	-	-	-	-
45°	-	-	-	-	-	-	-	-
50°	-	-	-	-	-	-	3100	-
55°	-	-	-	-	2450	-	3000	3050
60°	-	-	-	-	2350	2400	2900	2950

NA8-4000

	2000A		2500A		3200A		4000A	
40°	-	-	-	-	-	-	-	-
45°	-	-	-	-	-	-	3800	3850
50°	-	-	-	-	3100	-	3600	3650
55°	-	-	2450	-	3000	3050	3400	3450
60°	1900	1950	2350	2400	2900	2950	3200	3250

NA8-7500

	4000A		5000A		6300A		7500A	
40°	-	-	-	-	/	-	/	-
45°	-	-	-	-	/	6100	/	7000
50°	-	-	4700	4800	/	6000	/	6550
55°	3900	3900	4600	4650	/	5500	/	6050
60°	3800	3800	4400	4500	/	5200	/	5650

“ - ” “ / ”

6
10002
12

mkV
m 40 Ie=In 40 Ie≠In Ie In

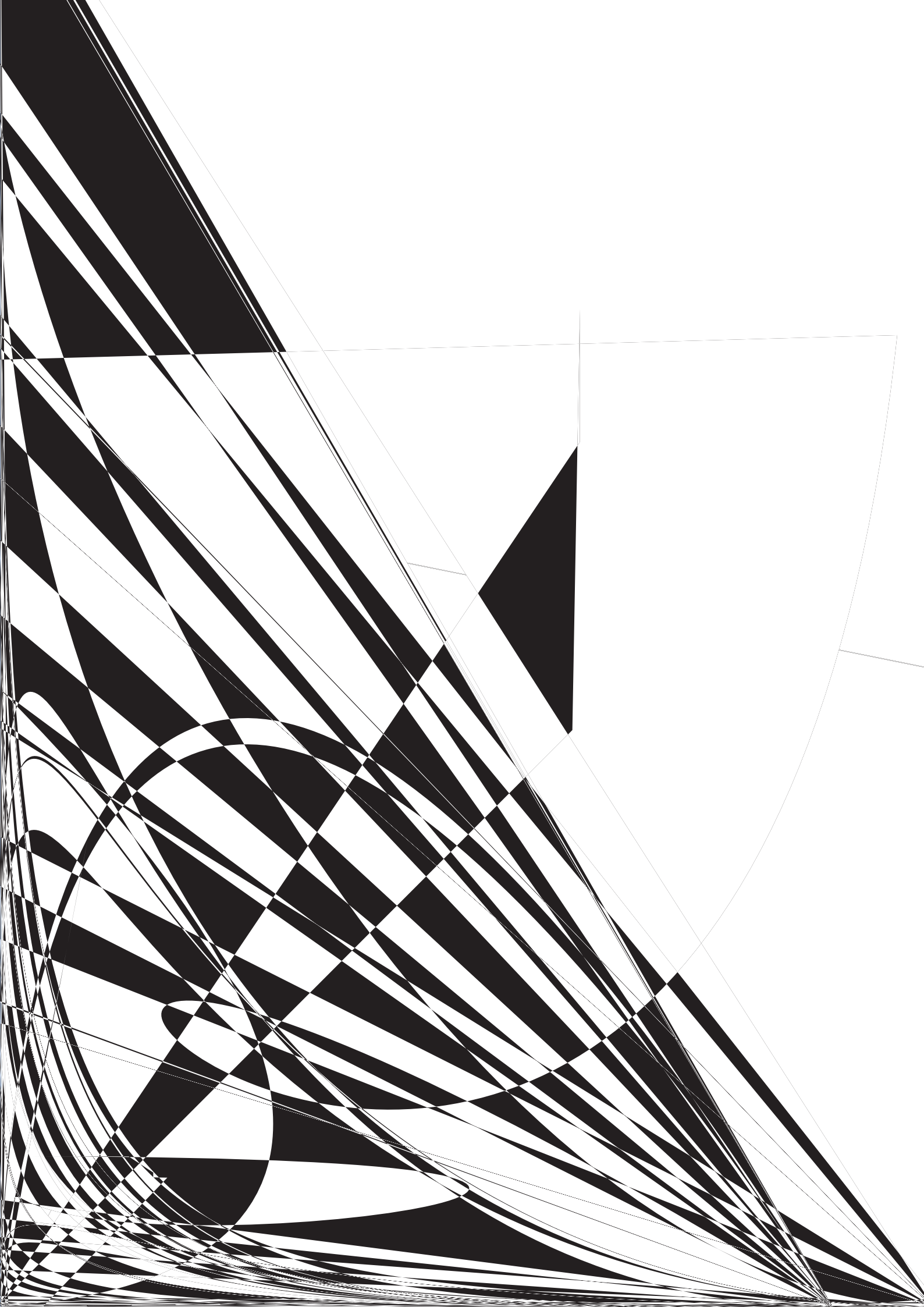
m		2000	3000	4000	5000
kV	Uimp	12	10	8.5	7.5
V	Ui	1000	800	700	600
V		2200	1955	1760	1600
V	Ue	690	580	500	400

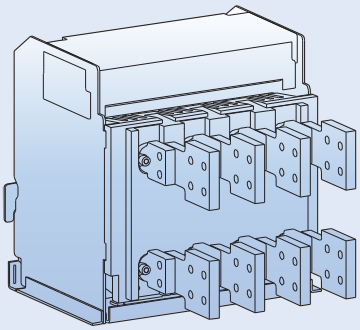
m	Ie
2000	1.0Ie
2500	0.93Ie
3000	0.88Ie
3500	0.83Ie
4000	0.78Ie
4500	0.73Ie
5000	

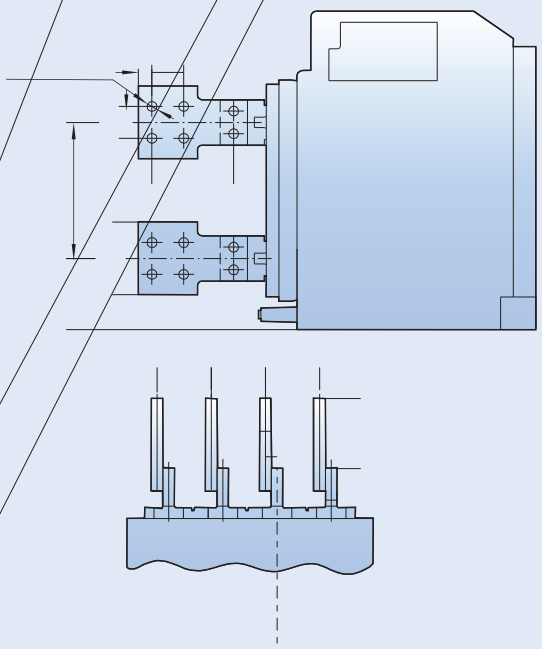
40 Ie=In 40 Ie≠In Ie In

In 50/60Hz 。

	A	W	W
1600A	200	115	45
	400	140	80
	630	161	100
	800	215	110
	1000	230	120
	1250	250	130
	1600	460	220
2500A	630	58.6	26.4
	800	73.7	36.6
	1000	172	78
	1250	268	122
	1600	440	200
	2000	530	262
	2500	600	312
3200A	1600	390	170
	2000	470	250
	2500	550	280
	3200	670	420
4000A	2000	470	250
	2500	550	280
	3200	670	420
	4000	1047	656
7500A	4000	550	-
	5000	590	-
	6300	950	-
	7500	1500	-

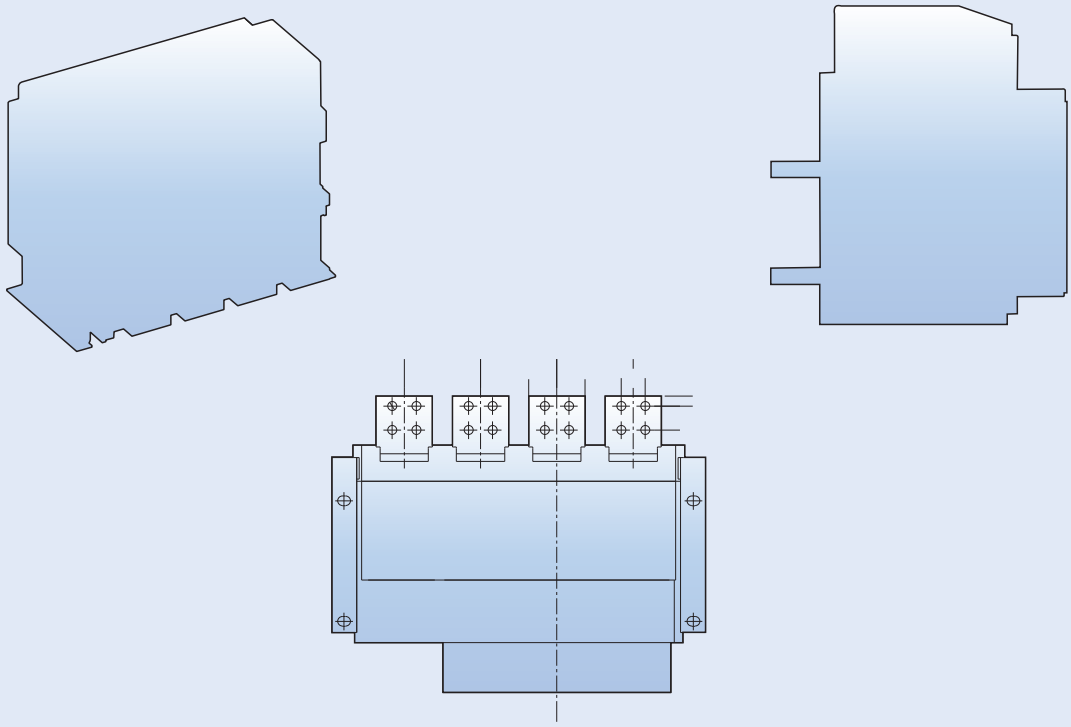


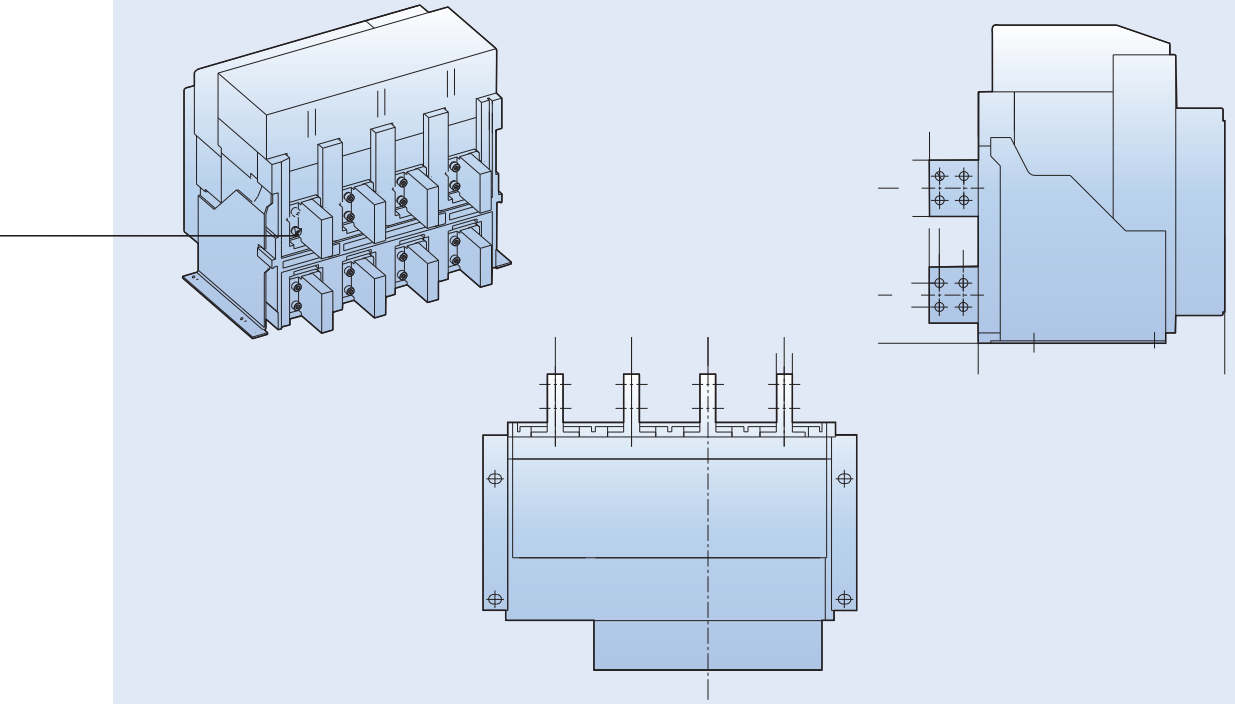


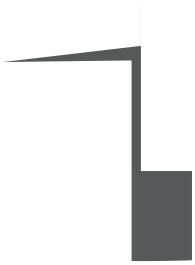


单位:mm

In(A)	A	B	D
200~800	10	10	10
1000~1600	15		

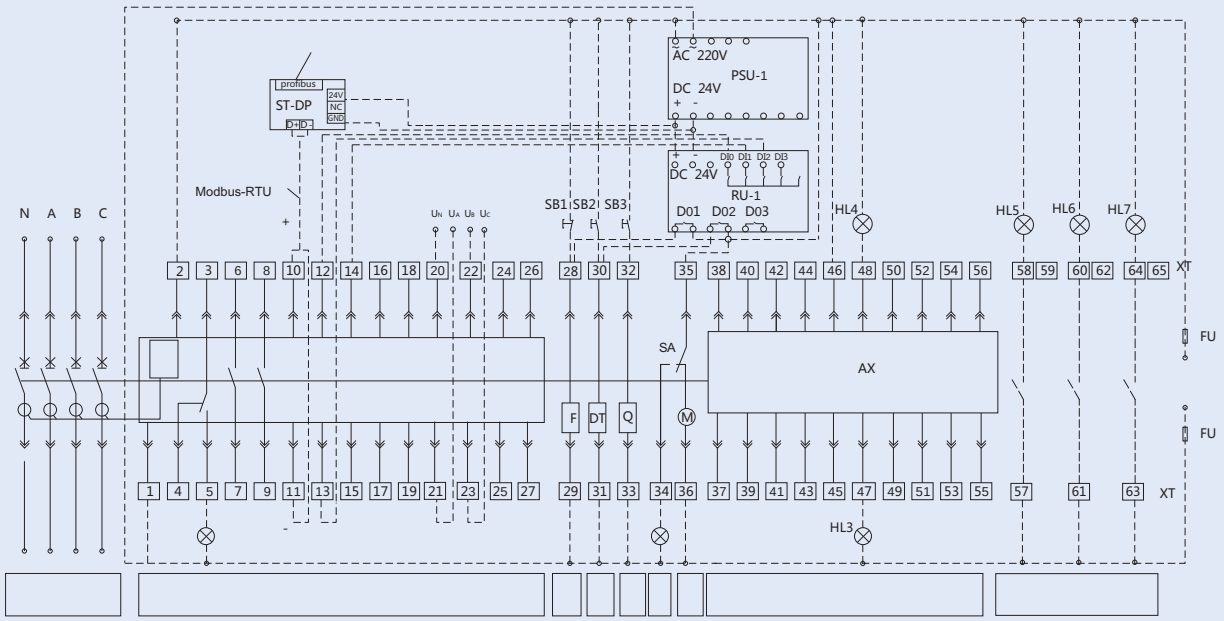






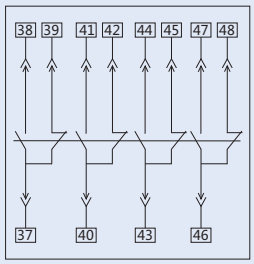
60.5

NA8-1600 H

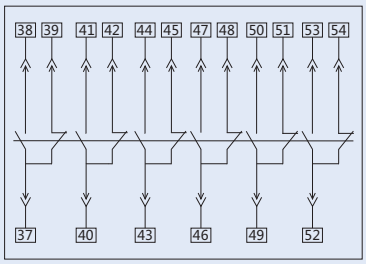


AX

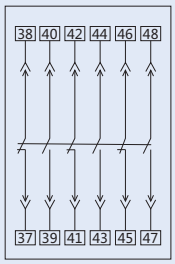
C04



C06



N3



F— DT— Q— M—
SA— XT— AX— SB1—
SB2— SB3— HL1— HL2—
HL3— HI4— HI5 7—
FU— 6A
1# 2# AC220/380V 1# 2#
DC220/110V 24V 1# 2#
3# 5# 3
6# 9# ,
10# 11# H
12# 15# 3 RU-1
H :12# 13# 12#
14# 12# 15#

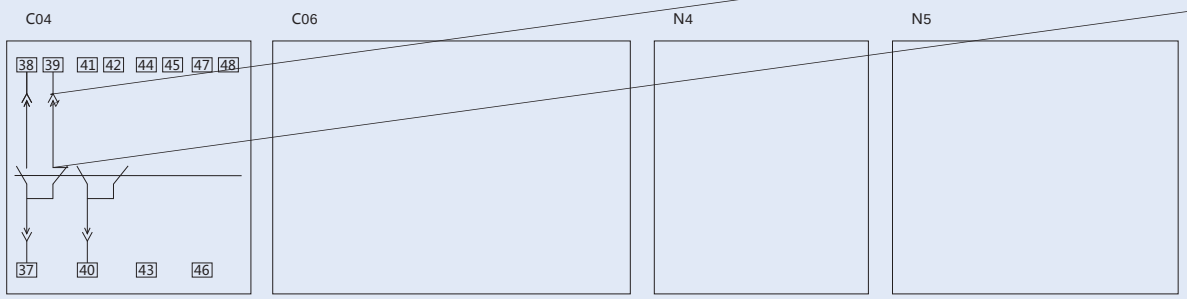
20# 23# 20# N 21# A
22# B 23# C
24# 25# N

28# 29# 30# 31# 32# 33#
34# 36#
37# 56#
4 6
57# 65#

ST-DP DP Modbus-RTU ST-DP
Profibus-DP ST-DP Modbus-RTU
Profibus-DP
RU-1

NA8-2500 7500 H

AX



	NA8-1600		NA8-2500		NA8-3200		NA8-4000		NA8-7500
	■	■	■	■	■	■	■	■	■
		■		■		■		■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
4CO	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■

	NA8-1600		NA8-2500		NA8-3200		NA8-4000		NA8-7500
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
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		■		■		■		■	■
		■	■	■	■	■	■	■	■
	■	■		■		■		■	■
		■		■		■		■	■
6CO		■	■	■	■	■	■	■	■
3NO+3NC	■	■							
4NO+4NC	■		■	■	■	■	■	■	■
5NO+5NC			■	■	■	■	■	■	■
		■		■		■		■	■
		■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	■							■	■

NA8-1600-ILK2NA8-1600-ILK2F NA8-2500 4000-ILK2F NA8 CD-1-3A-8M CD-1-3AMS1 S2 2 4M

NA8-2500 7500-ILK3NA8-2500 4000-ILK3F

NA8 CD-1-3A-16M
NA8 CD-1-3A-8M
NA8-2500 4600 2 ( )NA8 CD-1-3A-4M

NA8-2500-ILK2F 4600-ILK2F 7500-ILK2F

1 NA8 : , 2 : (CRM)

0.7M 1.2M) CD-1 2M 4M
8M 16M
ATSA NA8 ATSA
1
1600 3