

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



'Ojas Series' for Draw Out Auxiliary Relays

ASHIDA has launched new series of Auxiliary Relays. 'Ojas Series' is a premium series of Electro-Mechanical Relays having Draw Out facility. Draw Out cabinet makes these Relays easy to install and handle. ASHIDA Relays are known for reliability, performance and security. ASHIDA Auxiliary Relays are designed for all conditions and applications. Models are specifically designed to be best suited for electrical installations.

ADE-A Relays are specially designed low burden Relays for event recording, alarm, contact multiplication, interlocking etc.

Features:

- Contacts conform to IEC 60255 Duty: 1250VA
- Self Reset, Hand Reset and Self + Hand Reset Contacts are available (with Standard Flag or without Flag)
- Simple in construction
- Wide Voltage Range
- Available in Case Size 2 & Case Size 4
- Optional operation indicator
- Maximum 6 Contacts are available per coil

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Available Models in Auxiliary Relays:

Single Element Relay	Double Element Relay
ADE-AX11 (Self Reset Contacts)	ADE-AX21 (Self Reset Contacts)
ADE-AX12 (Self + Hand Reset Contacts)	ADE-AX22 (Self + Hand Reset Contacts)
ADE-AX13 (Hand Reset Contacts)	ADE-AX23 (Hand Reset Contacts)

Operational Limits:

Voltage Rating	Operational Limits (V)
24 – 30 VDC	19.2 – 36
48 – 54 VDC	38.4 – 64.8
110 – 125 VDC	88.0 – 150.0
110 VAC	88.0 – 132.0
220 – 250 VDC	176.0 – 300.00
220 VAC	176.0 – 264.00



*ADE-A Relays with Single Coil & Double Coil in
Case Size 2*

Technical Specifications:

The Relay has following three Contact Reset types Self Reset, Self + Hand Reset and Hand Reset with Standard or No Flag. The Relay is available in two Case Size Types i.e. Case Size 2 & Case Size 4. Either 4 Contacts or 6 Contacts are available per coil. In case of double coil in Case Size 2, maximum 2 Contacts can be provided per coil. The Operating Time of the relay is 25 – 30 ms depending upon the number of contacts and relay type.

Contact Rating:

	Make and Carry	Make and Carry For 3 Sec.	Break
AC	1250VA with max. of 5A & 300 Volts	7500VA with max. of 30A & 300 Volts	1250VA with max. of 5A & 300 Volts
DC	1250W with max. of 5A & 300 Volts	7500VA with max. of 30A & 300 Volts	100W Resistive, 50W Inductive with 5A / 300V

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Operating Conditions:

Specification	Particulars
Relative Humidity	Humidity (RH) 95% maximum
Operating temperature range	-25 °C to +65 °C
Storage temperature range	-25 °C to +70 °C.

Available Contact Combinations:

For 2 Contacts	For 4 Contacts	For 6 Contacts
2NO	4NO	6NO
1NO + 1NC	3NO + 1NC	4NO + 2NC
2NC	2NO + 2NC	3NO + 3NC
	1NO + 3NC	2NO + 4NC
	4NC	
<i>Only applicable for Double Element with Case Size 2</i>	<i>Applicable for Single Element in Case Size 2 & Case Size 4</i>	<i>Applicable for Single Element in Case Size 2 & Case Size 4</i>
	<i>Applicable for Double Element in Case Size 4</i>	<i>Applicable for Double Element in Case Size 4</i>

Contact Combinations available in Models along with Case Size:

Contact Combination for Self Reset Contact Type & Hand Reset Contact Type:

Normally Open Contact (NO)	Normally Close Contact (NC)	Change Over Contact (CO)	ADE-AX11 ADE-AX13	ADE-AX21 ADE-AX23
2	0	0	-	✓ (Case Size 2)
1	1	0	-	✓ (Case Size 2)
0	2	0	-	✓ (Case Size 2)
4	0	0	✓ (Case Size 2)	✓ (Case Size 4)
3	1	0	✓ (Case Size 2)	✓ (Case Size 4)
2	2	0	✓ (Case Size 2)	✓ (Case Size 4)
0	0	2	✓ (Case Size 2)	✓ (Case Size 4)

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6	0	0	✓ (Case Size 2)	✓ (Case Size 4)
4	2	0	✓ (Case Size 2)	✓ (Case Size 4)
3	3	0	✓ (Case Size 2)	✓ (Case Size 4)
2	4	0	✓ (Case Size 2)	✓ (Case Size 4)
2	0	2	✓ (Case Size 2)	✓ (Case Size 4)
0	0	4	✓ (Case Size 2)	✓ (Case Size 4)

Contact Combination for Self Reset + Hand Reset Contact Type:

Model Numbers of Auxiliary Relays for Self Reset + Hand Reset Type of Contacts have Contact Combinations as follows:

Model Numbers	SR + HR Contact Combinations
ADE-AX12 (Single Coil) ADE-AX22 (Double Coil)	2NO SR + 2NO HR
	2NO SR + (1NO + 1NC) HR
	(1NO + 1NC) SR + 2NO HR
	(1NO + 1NC) SR + (1NO + 1NC) HR

Type of Flags Available:

Standard Flag:

ADE-A Relays are available with a Standard hand-reset flag which drops upon operation of the relay. When the relay is reset, the flag stays in the operated state indicating that a fault has occurred. Standard Flag can be made available for any type of ADE-A model.

The Relay has the option of No Flag.

Applications:

- Contact Multiplication of Protection Relay
- Low Burden Sensitive Relay
- Alarm, Control, Indications and other Auxiliary Duties in AC and DC system

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AUXILIARY RELAYS IN CASE SIZE 2 & CASE SIZE 4 CABINETS



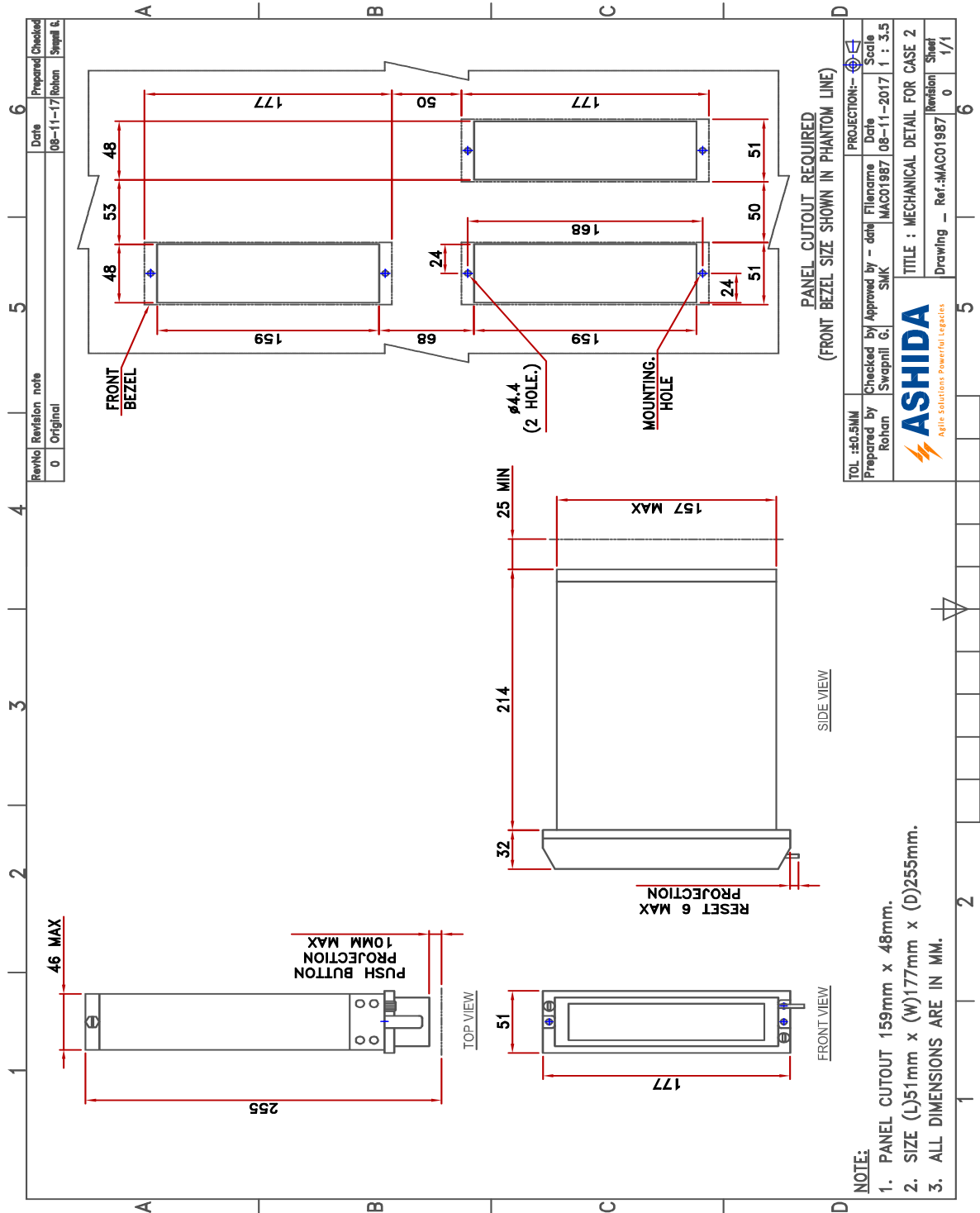
Drawing References:

1.	For Cabinet Type: Case Size 2	: MAC01987
2.	For Cabinet Type: Case Size 4	: MAC01989
3.	Back Terminal :	: ADE – AX100101
		: ADE – AX200201

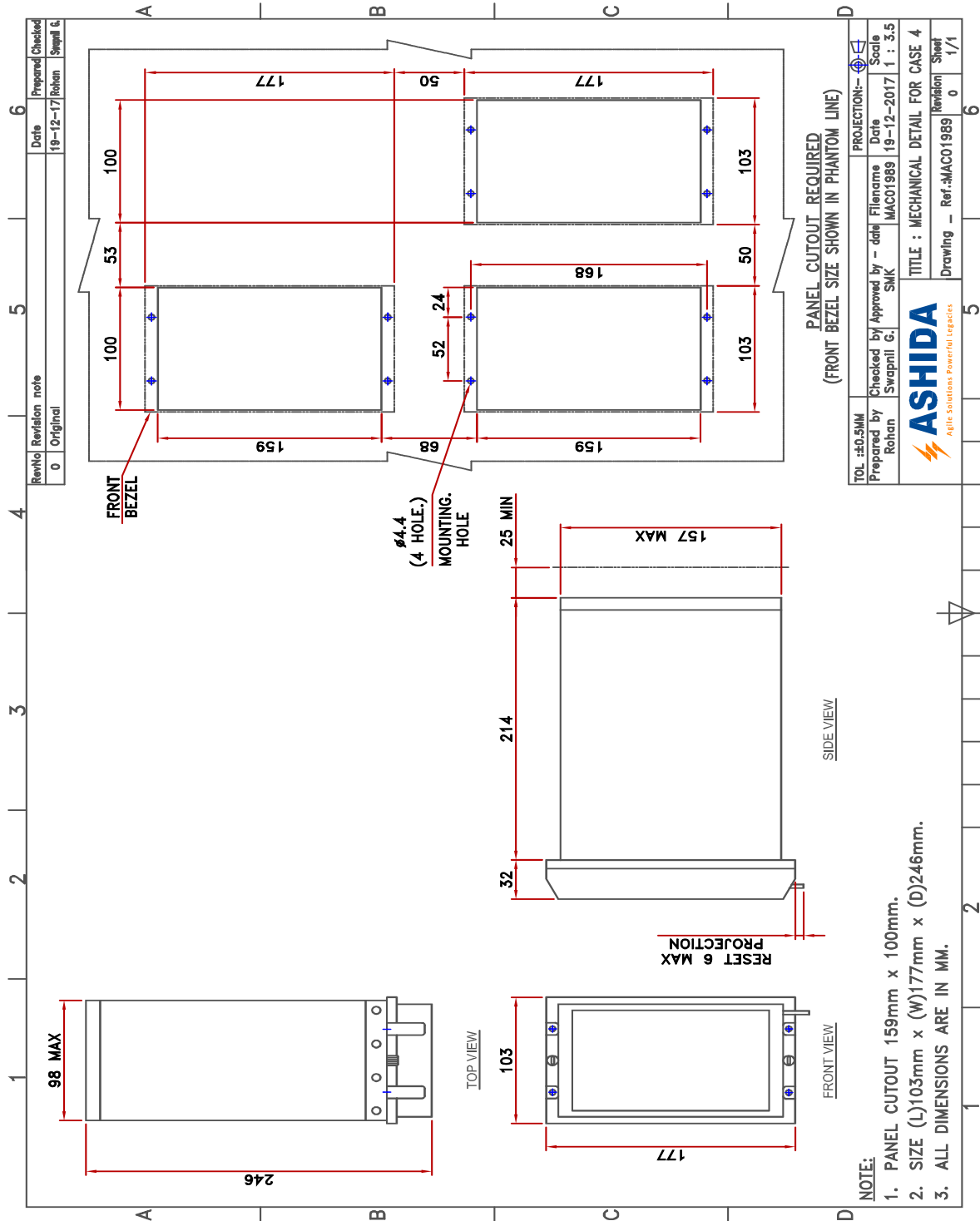
Typical Tests Information:

Sr. No.	Tests	Standard
1.	Dielectric Test	IEC 60255-27:2013
2.	Insulation Test	IEC 60255-27:2013
3.	Impulse Test	IEC 60255-27:2013
4.	Relay Characteristics & performance Test	IEC 60255-1:2009
5.	Rated Burden Test	IEC 60255-1:2009

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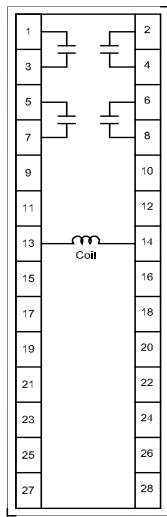
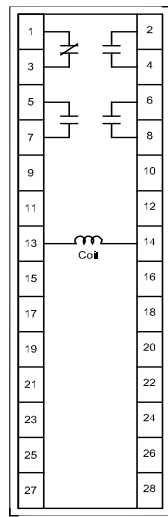
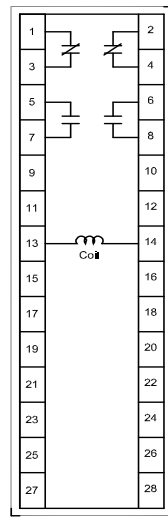
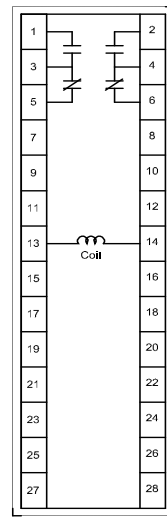
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1	2	3	4
RevNo	Revision note	Date	Signature

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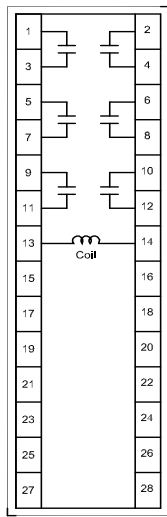
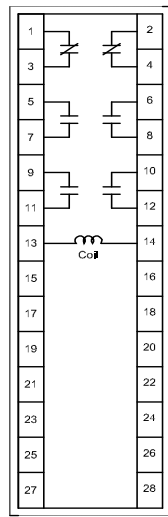
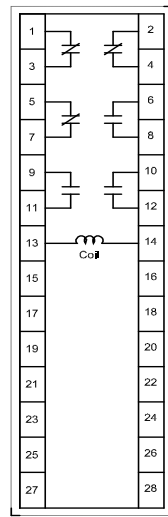
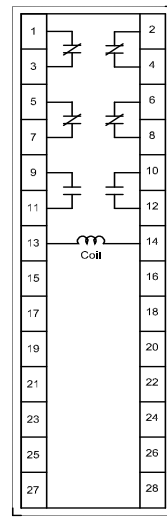
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 Agile Solutions Powerful Legacies	TITLE : ADE-AX1 Back Terminal Details		
Drawing_ Ref. ADE-AX100101	Edition 01	Sheet 1 OF 4	

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4
RevNo	Revision note	Date	Signature

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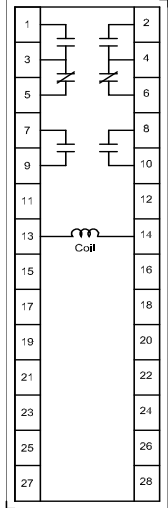
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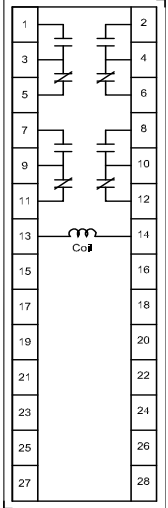
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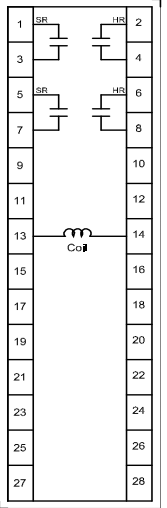


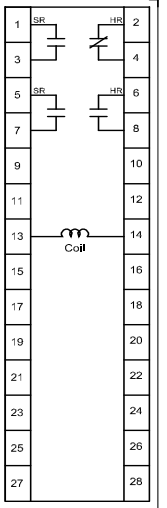
RevNo	Revision note	Date	Signature	Checked


A
B
C
D
E
F

☐ Contacts: 2NO + 2CO


☐ Contacts: 4CO


☐ Contacts:
2NO SR + 2NO HR


☐ Contacts: 2NO SR +
(1NO+1NC) HR


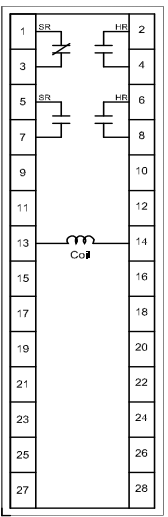
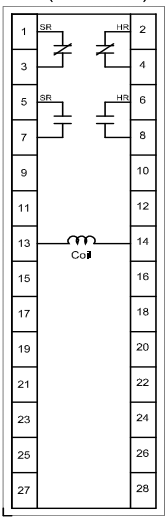
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		Drawing_ Ref. ADE-AX100101	Edition 01 Sheet 3 OF 4

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4


ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



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RevNo	Revision note	Date	Signature

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	Edition 01 Sheet 4 OF 4

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



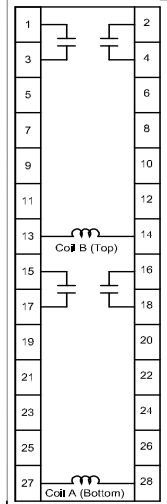
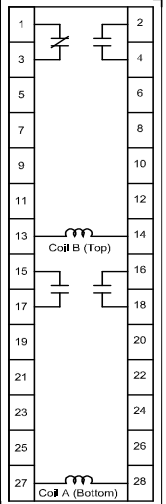
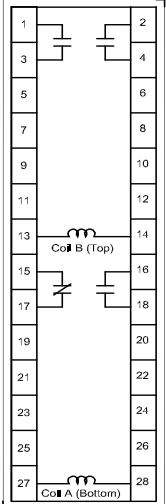
1	2	3	4
RevNo	Revision note	Date	Signature

A

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 2 NO

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 1 NO + 1 NC

☐
 Contacts :
 Coil A: 1 NO + 1 NC
 Coil B: 2 NO

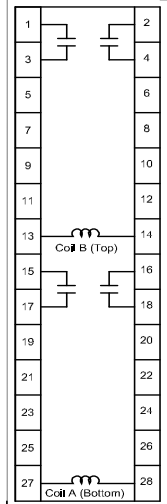
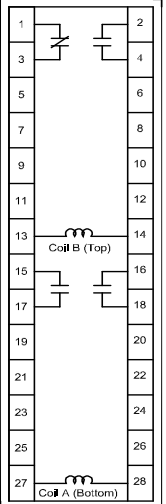
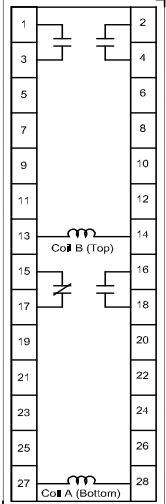
A

B

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 2 NO

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 1 NO + 1 NC

☐
 Contacts :
 Coil A: 1 NO + 1 NC
 Coil B: 2 NO

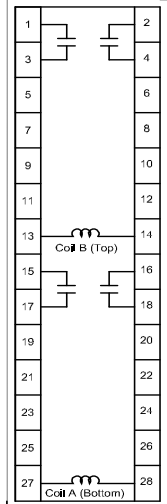
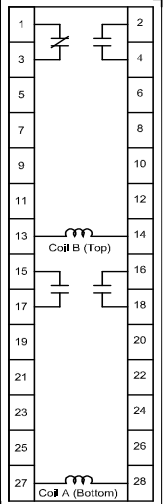
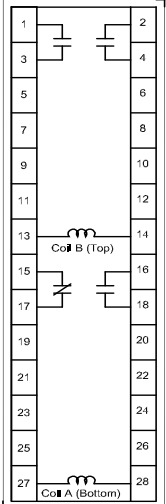
B

C

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 2 NO

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 1 NO + 1 NC

☐
 Contacts :
 Coil A: 1 NO + 1 NC
 Coil B: 2 NO

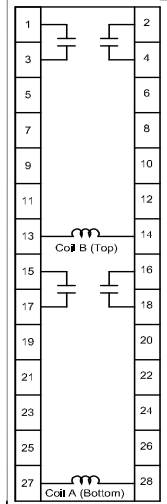
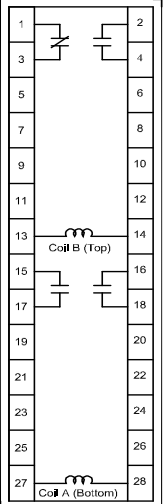
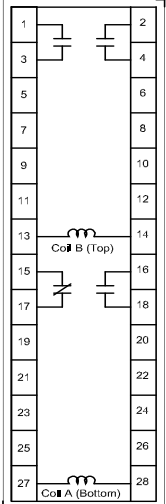
C

D

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 2 NO

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 1 NO + 1 NC

☐
 Contacts :
 Coil A: 1 NO + 1 NC
 Coil B: 2 NO

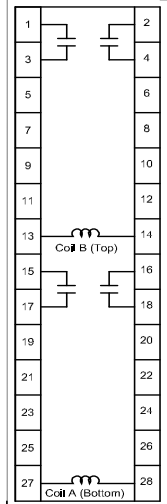
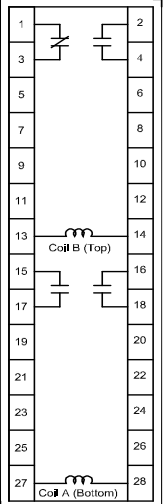
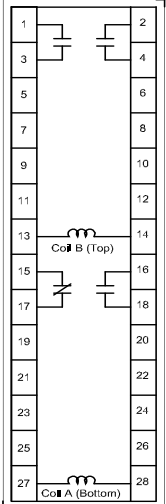
D

E

☐
 Contacts :
 Coil A: 2 NO
 Coil B: 2 NO


☐
 Contacts :
 Coil A: 2 NO
 Coil B: 1 NO + 1 NC

☐
 Contacts :
 Coil A: 1 NO + 1 NC
 Coil B: 2 NO

E

F

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		Drawing_ Ref. ADE-AX200102	Edition 03
		Sheet 1 OF 12	

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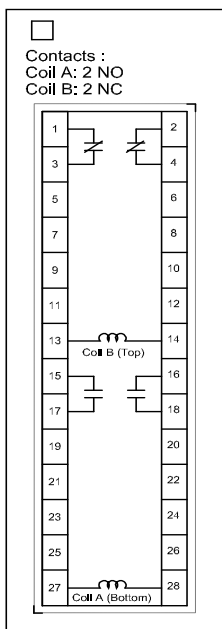
ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



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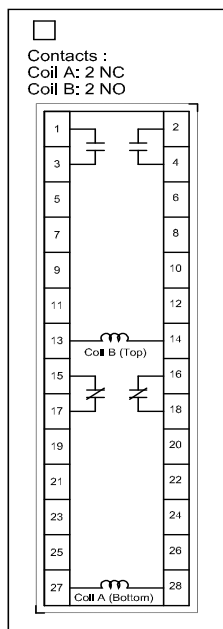
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Contacts :
Coil A: 2 NO
Coil B: 2 NC



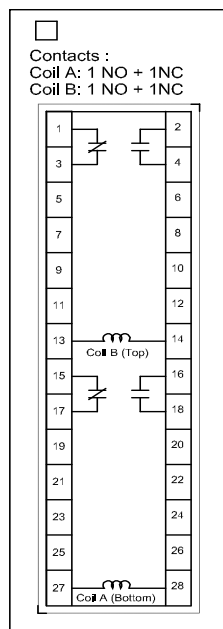
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Contacts :
Coil A: 2 NC
Coil B: 2 NO




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Contacts :
Coil A: 1 NO + 1NC
Coil B: 1 NO + 1NC



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Agile Solutions Powerful Legacies

TITLE : ADE-AX2 Back Terminal Details

Drawing_ Ref. ADE-AX200102	Edition 03	Sheet 2 OF 12
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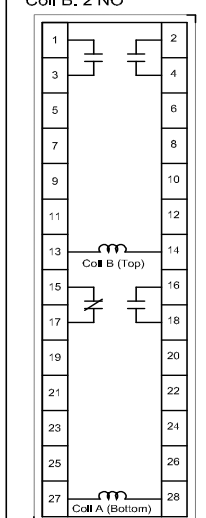
ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



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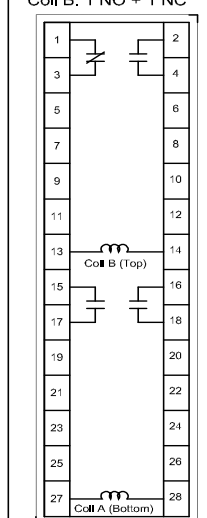
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Contacts :
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Coil B: 2 NO



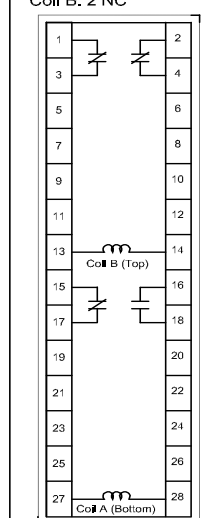
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Contacts :
Coil A: 2 NO
Coil B: 1 NO + 1 NC




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Contacts :
Coil A: 1 NO + 1 NC
Coil B: 2 NC



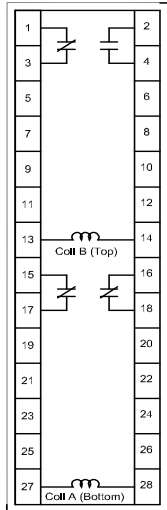
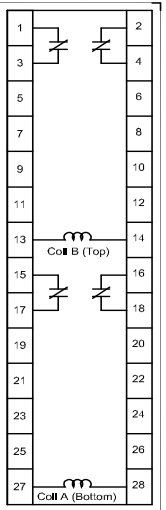
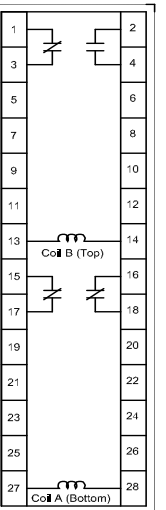
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 <p>ASHIDA Agile Solutions Powerful Legacies</p>	TITLE : ADE-AX2 Back Terminal Details		
	Drawing_ Ref. ADE-AX200102	Edition 03	Sheet 3 OF 12


**ASHIDA DRAW OUT ELECTRO MECHANICAL
AUXILIARY RELAYS**



1	2	3	4
RevNo	Revision note	Date	Signature

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ASHIDA Agile Solutions Powerful Legacies	Drawing_ Ref. ADE-AX200102	Edition 03	Sheet 4 OF 12

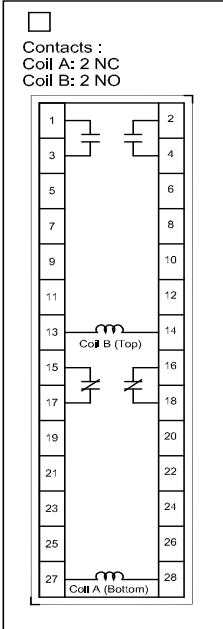
ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



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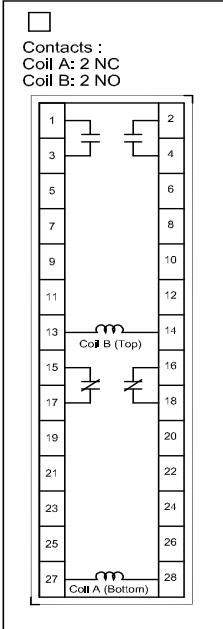
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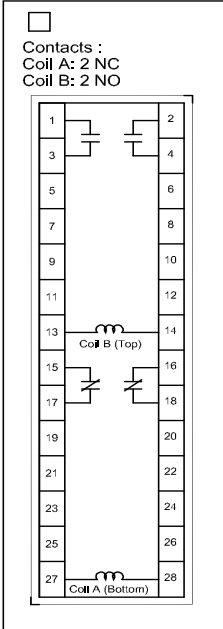
A

B



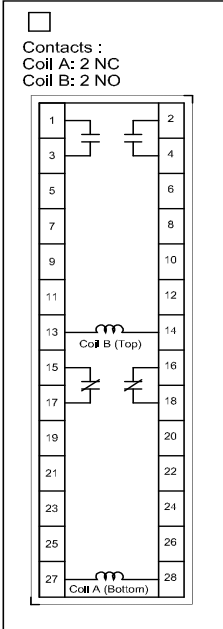
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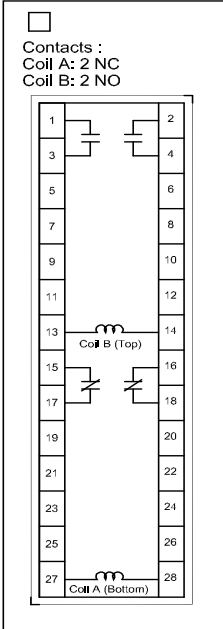
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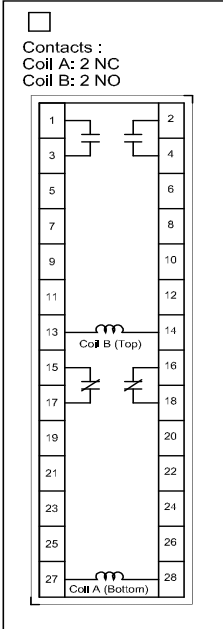
D

E




E

F



F

Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by -- date SMK	Filename ADE-AX200102 Date 24.10.2018 Scale NTS

 ASHIDA Agile Solutions Powerful Legacies	TITLE : ADE-AX2 Back Terminal Details Drawing_ Ref. ADE-AX200102 Edition 03 Sheet 5 OF 12
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ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4	
RevNo	Revision note	Date	Signature	Checked

A
A

B
B

C
C

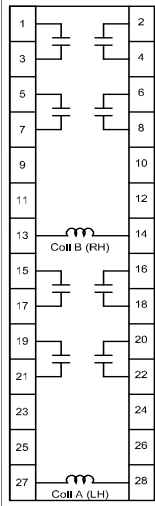
D
D

E
E

F
F

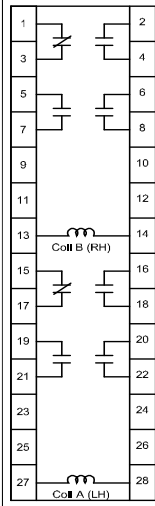
☐

Contacts :
Coil A: 4NO
Coil B: 4NO




☐

Contacts :
Coil A: 3NO + 1NC
Coil B: 3NO + 1NC



Dim: MM	TOL :	FINISH:			MATERIAL:	
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-AX200102	Date 24.10.2018	Scale NTS	

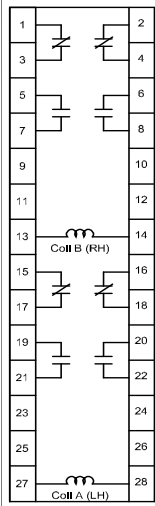
 ASHIDA Agile Solutions Powerful Legacies	TITLE : ADE-AX2 Back Terminal Details		
	Drawing_ Ref. ADE-AX200102	Edition 03	Sheet 6 OF 12

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS

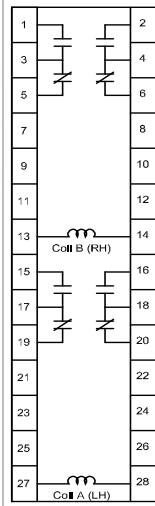


1	2	3	4
RevNo	Revision note	Date	Signature


☐ Contacts :
Coil A: 2NO + 2NC
Coil B: 2NO + 2NC



☐ Contacts :
Coil A: 2CO
Coil B: 2CO



Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by -- date SMK	Date 24.10.2018 Scale NTS


ASHIDA
 Agile Solutions Powerful Legacies

TITLE : ADE-AX2 Back Terminal Details

Drawing_ Ref. ADE-AX200102	Edition 03	Sheet 7 OF 12
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ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4	
RevNo	Revision note	Date	Signature	Checked

A
A

B
B

C
C

D
D

E
E

F
F

☐


Contacts :
Coil A: 6NO
Coil B: 6NO

1		2	
3		4	
5		6	
7		8	
9		10	
11		12	
13			14
15		16	
17		18	
19		20	
21		22	
23		24	
25		26	
27			28

☐

Contacts :
Coil A: 4NO + 2NC
Coil B: 4NO + 2NC

1		2	
3		4	
5		6	
7		8	
9		10	
11		12	
13			14
15		16	
17		18	
19		20	
21		22	
23		24	
25		26	
27			28

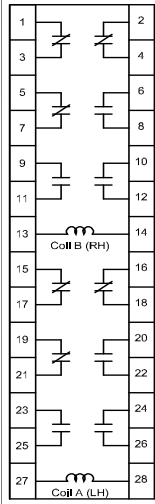
Dim: MM	TOL :	FINISH:	MATERIAL:	
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-AX200102	Date 24.10.2018
 ASHIDA Agile Solutions Powerful Legacies			TITLE : ADE-AX2 Back Terminal Details	
			Drawing_ Ref. ADE-AX200102	Edition 03

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS

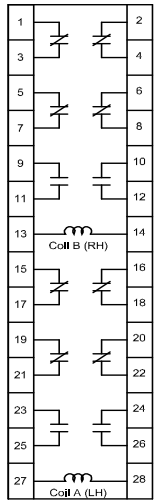


1	2	3	4
RevNo	Revision note	Date	Signature


☐ Contacts :
Coil A: 3NO + 3NC
Coil B: 3NO + 3NC



☐ Contacts :
Coil A: 2NO + 4NC
Coil B: 2NO + 4NC



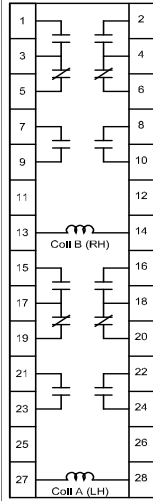
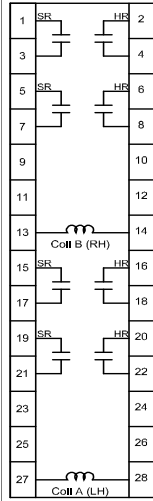
Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-AX200102 Date 24.10.2018 Scale NTS

 <p>ASHIDA Agile Solutions Powerful Legacies</p>	TITLE : ADE-AX2 Back Terminal Details Drawing_ Ref. ADE-AX200102 Edition 03 Sheet 9 OF 12
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ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4
RevNo	Revision note	Date	Signature

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="checkbox"/> Contacts : Coil A: 2NO + 2CO Coil B: 2NO + 2CO </div> 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="checkbox"/> Contacts : Coil A: 2NO SR + 2NO HR Coil B: 2NO SR + 2NO HR </div> 
---	--

Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-AX200102 Date 24.10.2018 Scale NTS

 ASHIDA Agile Solutions Powerful Legacies	TITLE : ADE-AX2 Back Terminal Details Drawing_ Ref. ADE-AX200102
	Edition 03 Sheet 10 OF 12

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4
RevNo	Revision note	Date	Signature

A
A

B
B

C
C

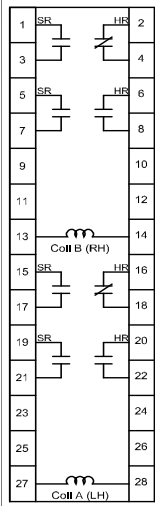
D
D

E
E

F
F

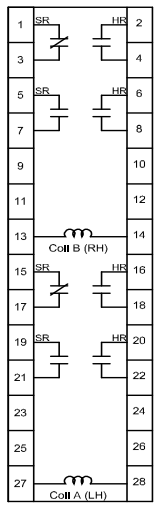
☐


Contacts :
Coil A: 2NO SR + (1NO+1NC) HR
Coil B: 2NO SR + (1NO+1NC) HR



☐

Contacts :
Coil A: (1NO+1NC) SR + 2NO HR
Coil B: (1NO+1NC) SR + 2NO HR

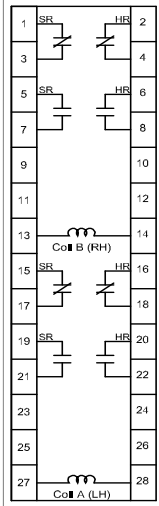



Dim: MM	TOL :	FINISH:	MATERIAL:	
Perpaed by JD	Checked by AG	Approved by -- date SMK	Filename ADE-AX200102	Date 24.10.2018
 ASHIDA Agile Solutions Powerful Legacies			TITLE : ADE-AX2 Back Terminal Details	
			Drawing_ Ref. ADE-AX200102	Edition 03

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



1	2	3	4
RevNo	Revision note	Date	Signature

A	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;"> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Contacts : Coil A: (1NO+1NC) SR + (1NO+1NC) HR Coil B: (1NO+1NC) SR + (1NO+1NC) HR </div> <div>  </div> </div> </div>	A
B		B
C		C
D		D
E		E
F		F

Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-AX200102 Date 24.10.2018 Scale NTS
 ASHIDA Agile Solutions Powerful Legacies		TITLE : ADE-AX2 Back Terminal Details Drawing_ Ref. ADE-AX200102	
		Edition 03	Sheet 12 OF 12

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS


Model Selection Guide - Auxiliary Relays (ADE-A)

	1 to 3	4	5	6	7	8	9	10	11	12	13	14	15
Model	ADE -												
Ashida Draw out Electro Mechanical													
Relay Type													
Auxiliary		A											
Sub Class													
Not Applicable			X										
No of Operating Coils													
Single Coil				1									
Double Coil				2									
Type of Contact Reset													
Self Reset					1								
Self + Hand Reset (only for 4 Contacts) (Change Over Contacts NA)					2								
Hand Reset (Up To 2 Change Over Contacts Only)					3								
Type of Flag													
Standard Flag					1								
No Flag					3								
Aux Supply													
24-30 VDC							1						
48-54 VDC							2						
110-125 VDC							3						
220-250 VDC							4						
110 VAC							6						
220 VAC							7						
Burden													
Not Applicable								X					
No of Contacts per Coil													
2 Contacts (Applicable for Double Element with Case Size 2 Only)									A				
4 Contacts									B				
6 Contacts									C				
Case Size													
Case 2										2			
Case 4										4			
Contact Combination - First Coil													
2NO (Applicable for Double Element with Case Size 2 Only)											A		
1NO+1NC (Applicable for Double Element with Case Size 2 Only)											B		
2NC (Applicable for Double Element with Case Size 2 Only)											C		
4NO											D		

ASHIDA DRAW OUT ELECTRO MECHANICAL AUXILIARY RELAYS



3NO+1NC	E	
2NO+2NC	F	
2CO (NA for Self + Hand Contact Reset)	G	
6NO	H	
4NO+2NC	I	
3NO+3NC	J	
2NO+4NC	K	
2NO+2C/O (NA for Hand Reset and Self + Hand Contact Reset)	L	
4C/O (NA for Hand Reset and Self + Hand Contact Reset)	M	
2NO SR + 2NO HR (Only for SR + HR Contact Reset Combination)	N	
2NO SR + (1NO + 1NC) HR (Only for SR + HR Contact Reset Combination)	O	
(1NO + 1NC) SR + 2NO HR (Only for SR + HR Contact Reset Combination)	P	
(1NO + 1NC) SR + (1NO + 1NC) HR (Only for SR + HR Contact Reset Combination)	Q	
Contact Combination - Second Coil		
2NO (Applicable for Double Element with Case Size 2 Only)	A	
1NO+1NC (Applicable for Double Element with Case Size 2 Only)	B	
2NC (Applicable for Double Element with Case Size 2 Only)	C	
4NO	D	
3NO+1NC	E	
2NO+2NC	F	
2CO (NA for Self + Hand Contact Reset)	G	
6NO	H	
4NO+2NC	I	
3NO+3NC	J	
2NO+4NC	K	
2NO+2C/O (NA for Hand Reset and Self + Hand Contact Reset)	L	
4C/O (NA for Hand Reset and Self + Hand Contact Reset)	M	
2NO SR + 2NO HR (Only for SR + HR Contact Reset Combination)	N	
2NO SR + (1NO + 1NC) HR (Only for SR + HR Contact Reset Combination)	O	
(1NO + 1NC) SR + 2NO HR (Only for SR + HR Contact Reset Combination)	P	
(1NO + 1NC) SR + (1NO + 1NC) HR (Only for SR + HR Contact Reset Combination)	Q	
NA	X	
Contact Combination - Third Coil		
NA		X

**ASHIDA DRAW OUT ELECTRO MECHANICAL
AUXILIARY RELAYS****ADE-A****ASHIDA ELECTRONICS PVT LTD.****All rights reserved.**

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