

ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



'Ojas Series' for Draw-Out Supervision Relays

ASHIDA has launched new series of Auxiliary Supervision 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-S Relays are specially designed Supervision Relays which supervise AC or DC auxiliary supply as well as trip circuit healthy condition.

Features:

- Contacts conform to IEC 60255 Duty: 1250VA
- High Speed Operation
- Simple & Reliable Design
- High speed tripping duties
- Single & Dual Elements in one Unit for AC/DC Supervision Relay
- Self Reset and Hand Reset Contacts are available (with Standard Flag & Reverse Flags for AC/DC Supervision and without Flag & Reverse Flag for Trip Circuit Supervision)
- Maximum 6 Contacts are available for AC/DC Supervision
- Maximum 3 Contacts are available for Trip Circuit Supervision
- Available in Case Size 2 & Case Size 4

**ASHIDA DRAW OUT ELECTRO MECHANICAL
SUPERVISION RELAYS****Supervision Relays are available in following Types:**

- 1) AC Supervision Relay
- 2) DC Supervision Relay
- 3) Trip Circuit Supervision Relay

Available Models in Supervision Relays:

AC Supervision Relay		DC Supervision Relay		Trip Circuit Supervision Relay
Single Element Relay	Double Element Relay	Single Element Relay	Double Element Relay	Triple Element Relay
ADE-S111 (Self Reset Contacts)	ADE-S121 (Self Reset Contacts)	ADE-S211 (Self Reset Contacts)	ADE-S221 (Self Reset Contacts)	ADE-S331
ADE-S112 (Hand Reset Contacts)	ADE-S122 (Hand Reset Contacts)	ADE-S212 (Hand Reset Contacts)	ADE-S222 (Hand Reset Contacts)	

AC Supervision Relay:

AC Supervision Relay is used for monitoring the AC Control Supply. For annunciation purpose DC Supply is used. The relay is available in single coil and double coil supervision of AC auxiliary supply circuits. In case of double coil, Coil 1 (C1) has AC Auxiliary Supply whereas Coil 2 (C2) has DC Auxiliary Supply.

DC Supervision Relay:

DC Supervision Relay is used for monitoring the DC Control Supply. For annunciation purpose AC Supply is used. The relay is available in single coil and double coil supervision of DC auxiliary supply circuits. In case of double coil, Coil 1 (C1) has DC Auxiliary Supply whereas Coil 2 (C2) has AC Auxiliary Supply.

Trip Circuit Supervision Relay:

Trip Circuit Supervision Relay is used for supervising the trip circuit of circuit breaker. If the trip circuit fails, flag indication is available which helps in supervising the healthy condition of the circuit. The relay supervises at pre-closed as well as post-closed conditions of circuit breaker. The relay is available in triple coil only.

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Technical Specifications:

Specifications	Particulars
Operational Indicator	Mechanical Standard Flag or Reverse Flag
Number of Contacts	2 Contacts (Applicable for Double Coil AC & DC Supervision Relay with Case Size 2 Only)
	4 Contacts (Not applicable for Trip Circuit Supervision Relay)
	6 Contacts (Not applicable for Trip Circuit Supervision Relay)
	3 Contacts (Applicable for Trip Circuit Supervision Relay Only)
Mounting	Flush Mounting (with Draw Out Type Cabinet)
Operating Time	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	1,250VA with maxima of 5A & 300V	7,500VA with maxima of 30A and 300V	1,250VA with maxima of 5A and 300V
DC	1,250W with maxima of 5A & 300V	7,500W with maxima of 30A and 300V	100W (Resistive) 50(W) Inductive with maxima of 5A and 300V

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	For 3 Contacts
2NO 1NO + 1NC 2NC	4NO 3NO + 1NC 2NO + 2NC 2C/O	6NO 4NO + 2NC 3NO + 3NC 2NO + 4NC 2NO + 2C/O 4C/O	3NO 2NO + 1NC 1NO + 2NC 3NC
Applicable for Double Element with Case Size 2 Only	Not Applicable for Trip Circuit Supervision Relay	Not Applicable for Trip Circuit Supervision Relay	Applicable for Trip Circuit Supervision Relay Only

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ADE-S

Contact Combinations available in Models along as per Case Size:

Normally Open Contact (NO)	Normally Close Contact (NC)	Change Over Contact (CO)	(Single Coil Relay) ADE-S111 ADE-S112 ADE-S211 ADE-S212	(Double Coil Relay) ADE-S121 ADE-S122 ADE-S221 ADE-S222	ADES331
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)	-
6	0	0	✓ (Case Size 2)	-	-
4	2	0	✓ (Case Size 2)	-	-
3	3	0	✓ (Case Size 2)	-	-
2	4	0	✓ (Case Size 2)	-	-
2	0	2	✓ (Case Size 2)	✓ (Case Size 4)	-
0	0	4	✓ (Case Size 2)	-	-
3	0	0	-	-	✓ (Case Size 4)
2	1	0	-	-	✓ (Case Size 4)
1	2	0	-	-	✓ (Case Size 4)
0	3	0	-	-	✓ (Case Size 4)

Type of Flags Available:

Following Types of Flags are available in Supervision Relays:

Standard Flag:

ADE-S 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 only for any AC/ DC Supervision Relay.

Reverse Flag:

ADE-S Relays are available with a Reverse flag. At normal conditions, when the coil is energized the flag is in reset condition. Whenever the coil is de-energized the flag drops. Reverse Flag can be made available only for models having Self Reset Contacts.

The Relay has the option of No Flag.

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In case of double coil AC/DC Supervision Relay following combinations of flags are available:

C1: Standard Flag & C2: Reverse Flag
C1: Standard Flag & C2: No Flag
C1: Reverse Flag & C2: Standard Flag
C1: Reverse Flag & C2: No Flag
C1: No Flag & C2: Standard Flag
C1: No Flag & C2: Reverse Flag

Auxiliary Supply:

Auxiliary Supply is available in AC/DC or combination of both for separate coils as per the application of the Relay.

Number of Coils	AC Supervision Relay	DC Supervision Relay	Trip Circuit Supervision Relay
Single Coil	5: 63.5VAC 6: 110VAC 7: 220VAC	1: 24-30VDC 2: 48-54VDC 3: 110-125VDC 4: 220-250VDC	NA
Double Coil	A: C1: 63.5VAC, C2: 24-30VDC / 48-54VDC	M: C1: 24-30VDC / 48-54VDC, C2: 63.5VAC	NA
	B: C1: 63.5VAC, C2: 110-125VDC / 220-250VDC	N: C1: 24-30VDC / 48-54VDC, C2: 110VAC / 220VAC	
	C: C1: 110VAC / 220VAC, C2: 24-30VDC / 48-54VDC	O: C1: 110-125VDC / 220-250VDC, C2: 63.5VAC	
	D: C1: 110VAC / 220VAC, C2: 110-125VDC / 220-250VDC	P: C1: 110-125VDC / 220-250VDC, C2: 110VAC / 220VAC	
Triple Coil	NA	NA	1: 24-30VDC 2: 48-54VDC 3: 110-125VDC 4: 220-250VDC 5: 63.5VAC 6: 110VAC 7: 220VAC

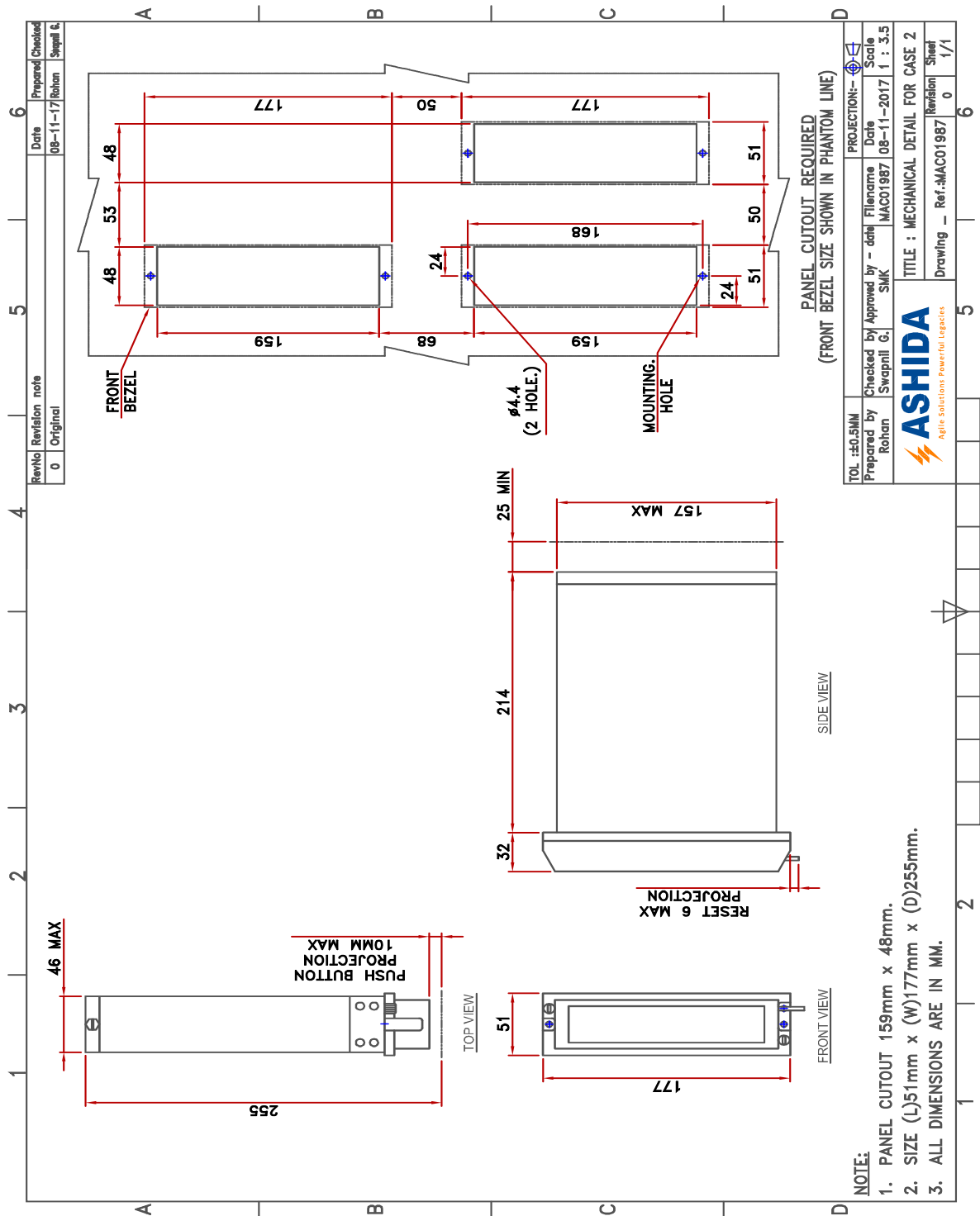
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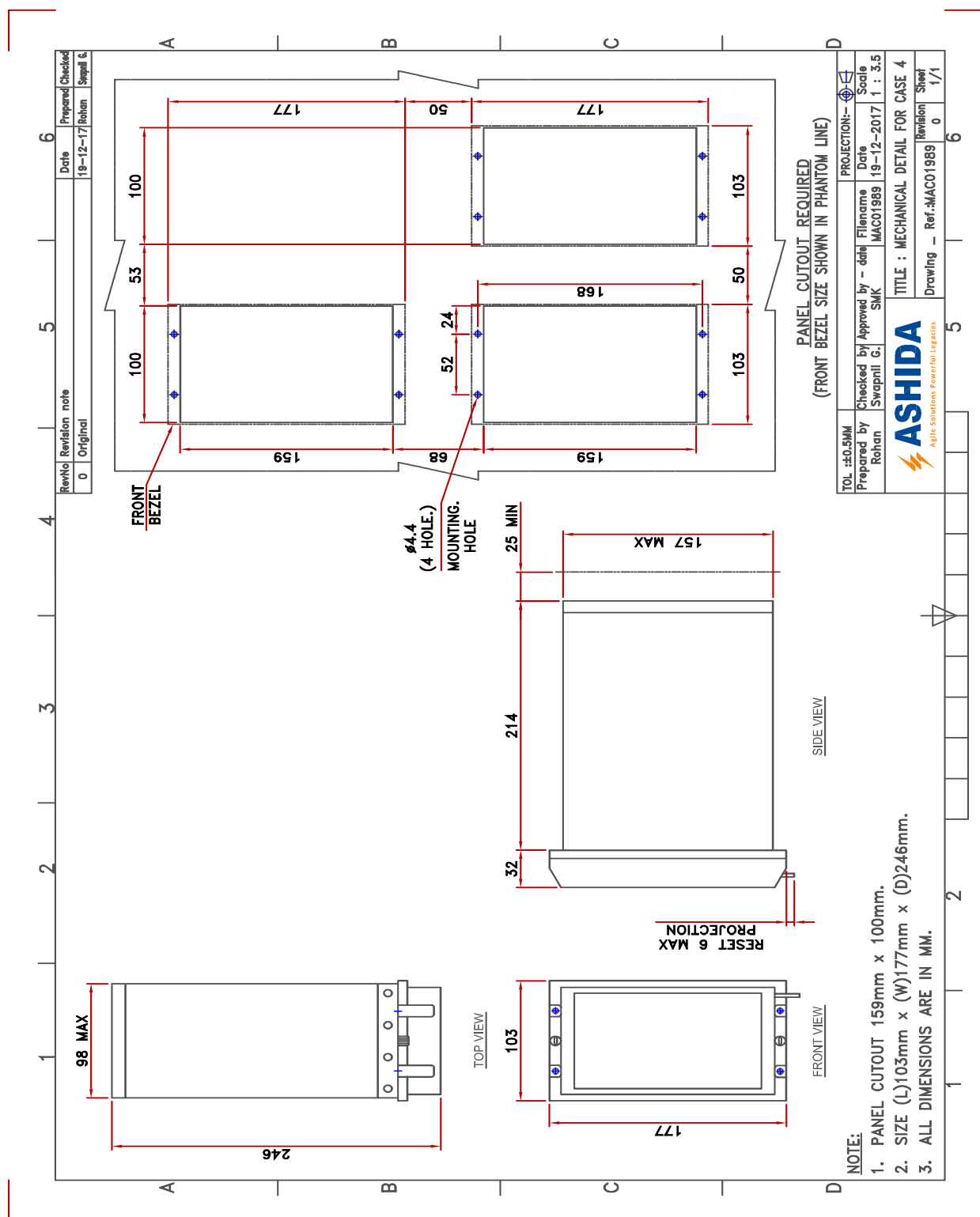
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2.	For Cabinet Type: Case Size 4	: MAC01989
3.	Back Terminal :	: ADE – SX100101
		: ADE – SX200101
		: ADE – SX300101

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

ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



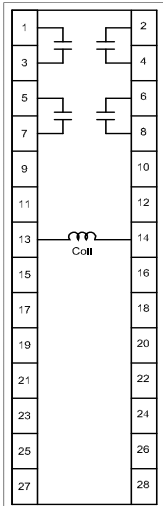


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SUPERVISION RELAYS**

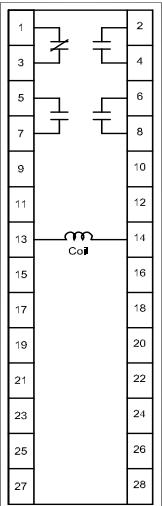


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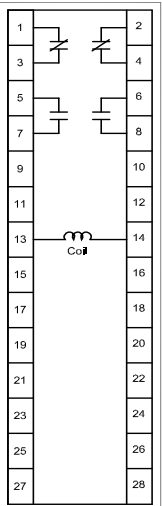
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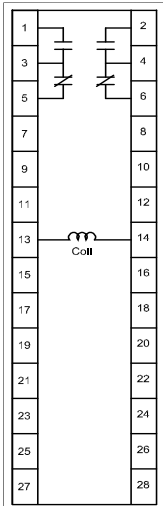
☐ Contacts: 3NO + 1NC




☐ Contacts: 2NO + 2NC



☐ Contacts: 2CO



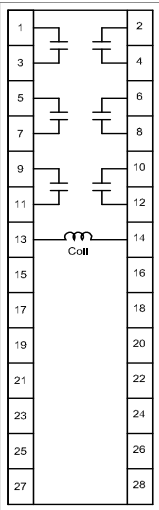
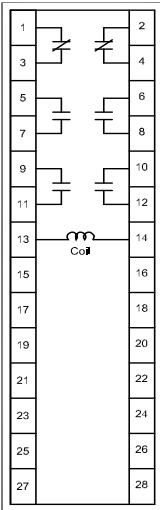
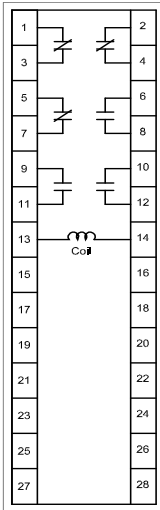
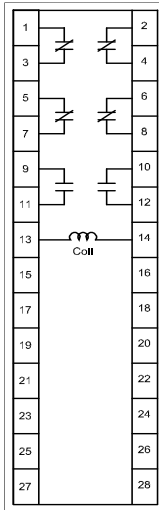
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Perpaed by JD	Checked by AG	Approved by – date SMK	Filename ADE–SX100101	Date 20.03.2018	Scale NTS	

 <p>ASHIDA Agile Solutions Powerful Legacies</p>	TITLE : ADE–SX1 Back Terminal Details		
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**ASHIDA DRAW OUT ELECTRO MECHANICAL
SUPERVISION RELAYS**



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RevNo	Revision note	Date	Signature

<input type="checkbox"/> Contacts: 6NO 	<input type="checkbox"/> Contacts: 4NO + 2NC 	<input type="checkbox"/> Contacts: 3NO + 3NC 	<input type="checkbox"/> Contacts: 2NO + 4NC 
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Perpaed by JD	Checked by AG	Approved by – date SMK	Filename ADE–SX100101
		Date 20.03.2018	Scale NTS

	TITLE : ADE–SX1 Back Terminal Details
ASHIDA Agile Solutions Powerful Legacies	Drawing_ Ref. ADE–SX100101
	Edition 01 Sheet 2 OF 4

ASHIDA DRAW OUT ELECTRO MECHANICAL

SUPERVISION RELAYS

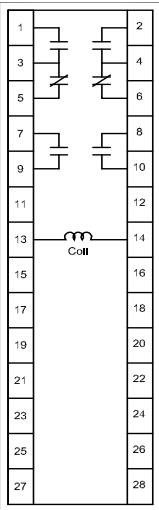


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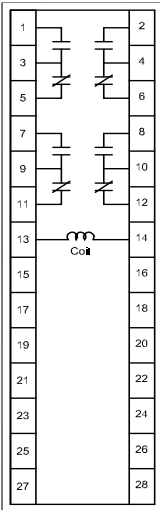
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Contacts: 2NO + 2CO



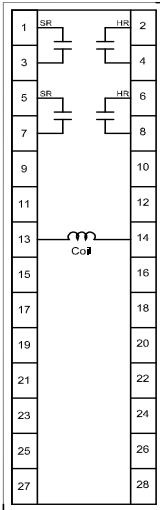
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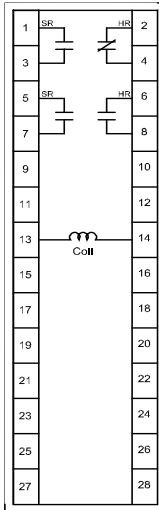
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Contacts: 2NO SR + 2NO HR



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Contacts: 2NO SR + (1NO+1NC) HR

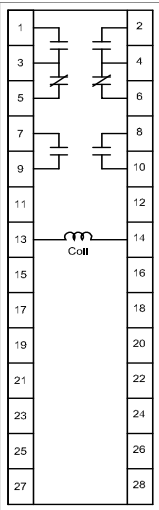


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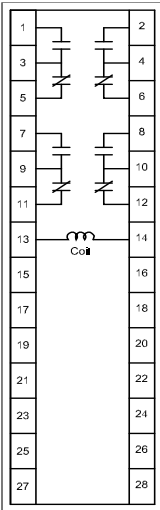
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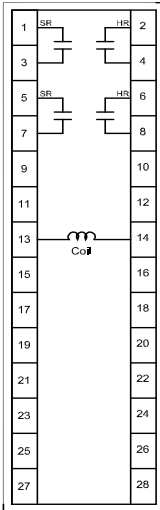
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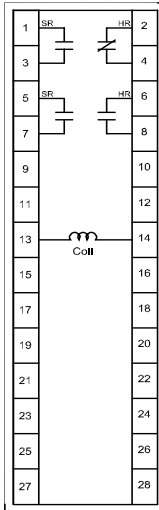
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Contacts: 2NO SR + 2NO HR



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Contacts: 2NO SR + (1NO+1NC) HR

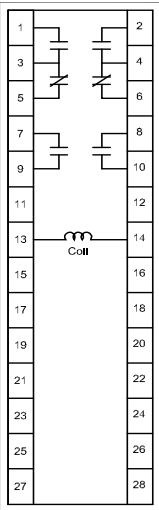


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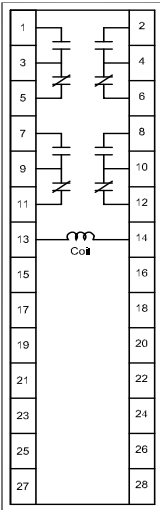
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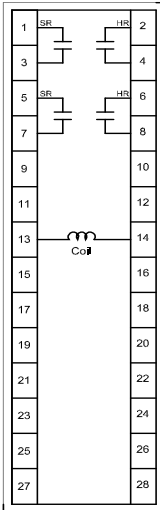
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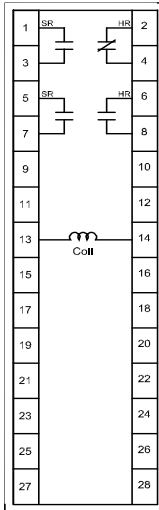
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Contacts: 2NO SR + 2NO HR



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Contacts: 2NO SR + (1NO+1NC) HR

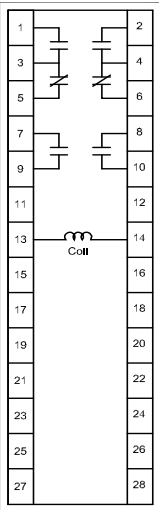


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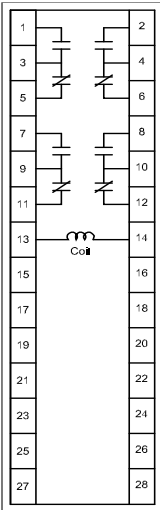
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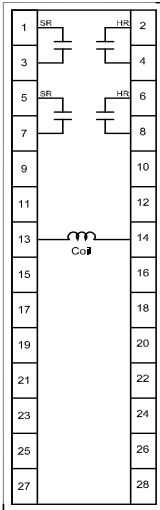
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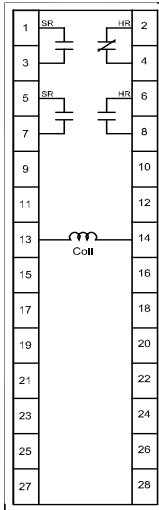
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Contacts: 2NO SR + 2NO HR



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Contacts: 2NO SR + (1NO+1NC) HR

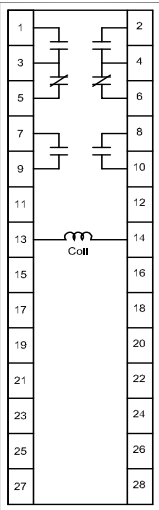


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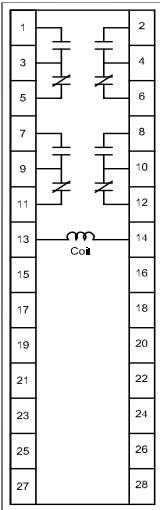
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Contacts: 2NO + 2CO



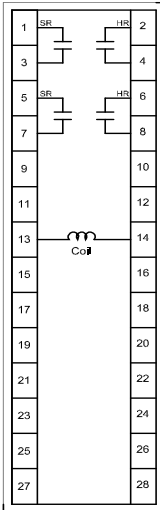
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Contacts: 4CO



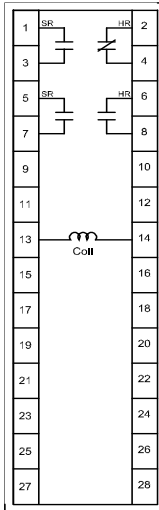
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Contacts: 2NO SR + 2NO HR



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Contacts: 2NO SR + (1NO+1NC) HR



E

F

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TITLE : ADE–SX1 Back Terminal Details

Drawing_ Ref. ADE–SX100101

Edition
01

Sheet
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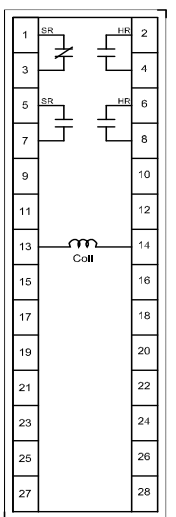
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ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS

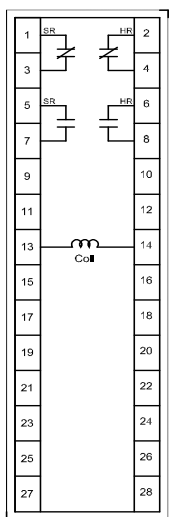


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☐ Contacts: (1NO+1NC)
SR + 2NO HR



☐ Contacts: (1NO+1NC)
SR + (1NO+1NC) HR



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Perpaed by JD	Checked by AG	Approved by – date SMK	Filename ADE–SX100101
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TITLE : ADE–SX1 Back Terminal Details

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**ASHIDA DRAW OUT ELECTRO MECHANICAL
SUPERVISION RELAYS**



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RevNo	Revision note	Date	Signature

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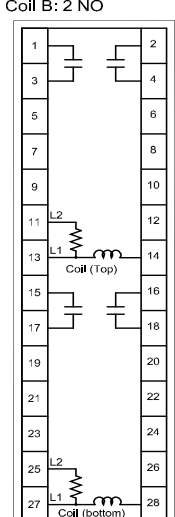
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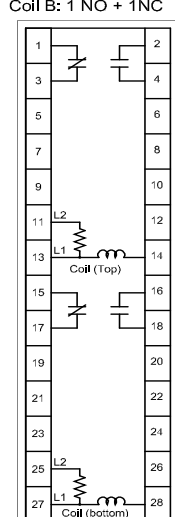
Contacts :
Coil A: 2 NO
Coil B: 2 NO



Note :- L2 is not applicable for relay with single supply.

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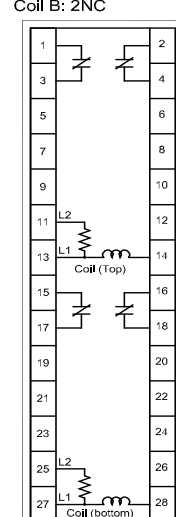
Contacts :
Coil A: 1 NO + 1NC
Coil B: 1 NO + 1NC



Note :- L2 is not applicable for relay with single supply.


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Contacts :
Coil A: 2NC
Coil B: 2NC



Note :- L2 is not applicable for relay with single supply.

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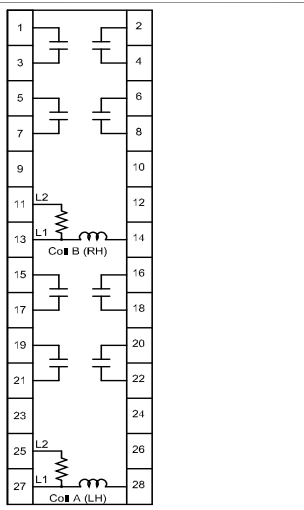
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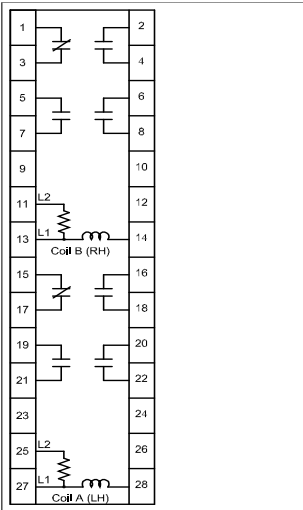
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☐ Contacts :
Coil A: 4NO
Coil B: 4NO




Note :- L2 is not applicable for relay with single supply.

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



Note :- L2 is not applicable for relay with single supply.

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Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-SX200101
		Date 20.03.2018	Scale NTS

	<p>TITLE : ADE-SX2 Back Terminal Details</p>
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	<p>Edition 01 Sheet 2 OF 4</p>

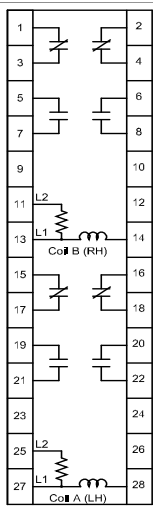
ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



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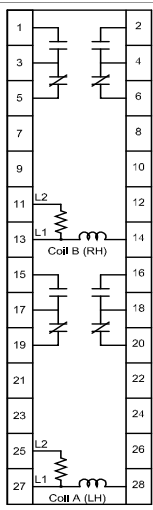
Contacts :
Coil A: 2NO + 2NC
Coil B: 2NO + 2NC



Note :- L2 is not applicable for relay with single supply.


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Contacts :
Coil A: 2CO
Coil B: 2CO



Note :- L2 is not applicable for relay with single supply.

Dim: MM	TOL :	FINISH:	MATERIAL:
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		Date 20.03.2018	Scale NTS

 <p>Agile Solutions Powerful Legacies</p>	<p>TITLE : ADE-SX2 Back Terminal Details</p> <p>Drawing_ Ref. ADE-SX200101</p>
	<p>Edition 01</p> <p>Sheet 3 OF 4</p>

ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS

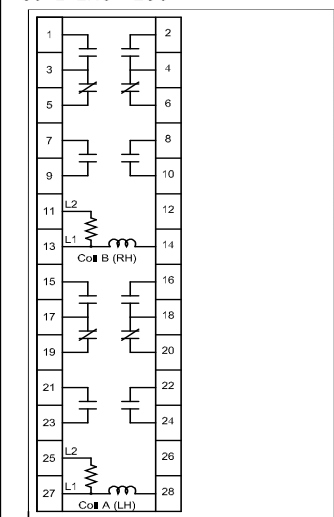


ADE-S

1	2	3	4
RevNo	Revision note	Date	Signature

A

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



Note :- L2 is not applicable for relay with single supply

A

B

B

C

C

D


D

E

E

F

Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-SX200101 Date 20.03.2018 Scale NTS



ASHIDA

Agile Solutions Powerful Legacies

TITLE : ADE-SX2 Back Terminal Details

Drawing_ Ref. ADE-SX200101	Edition 01	Sheet 4 OF 4
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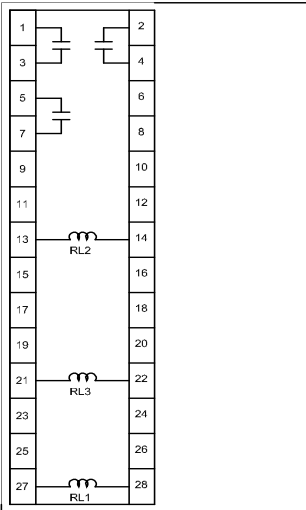
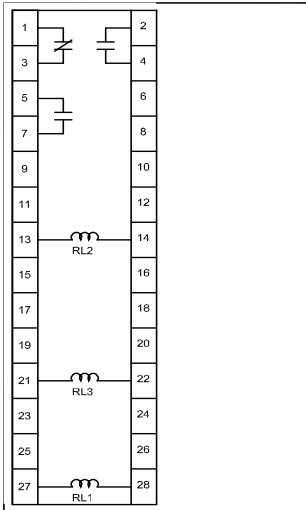
F

ASHIDA DRAW OUT ELECTRO MECHANICAL


SUPERVISION 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 : 3 NO </div> 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="checkbox"/> Contacts : 2NO + 1NC </div> 
--	--

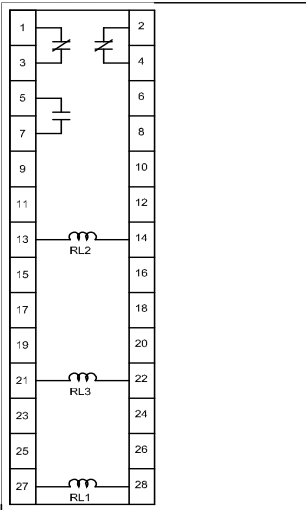
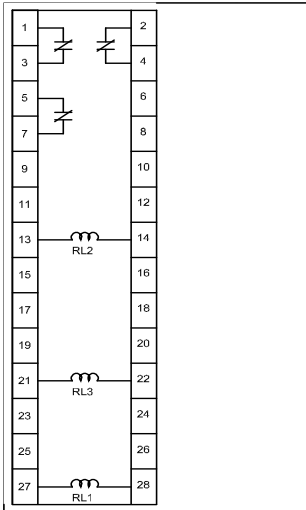
Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-SX300101 Date 08.08.2018 Scale NTS

 ASHIDA Agile Solutions Powerful Legacies	TITLE : ADE-SX3 Back Terminal Details Drawing_ Ref. ADE-SX300101
	Edition 01 Sheet 1 OF 3


ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION 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 : 1NO + 2NC </div> 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <input type="checkbox"/> Contacts : 3NC </div> 
---	--

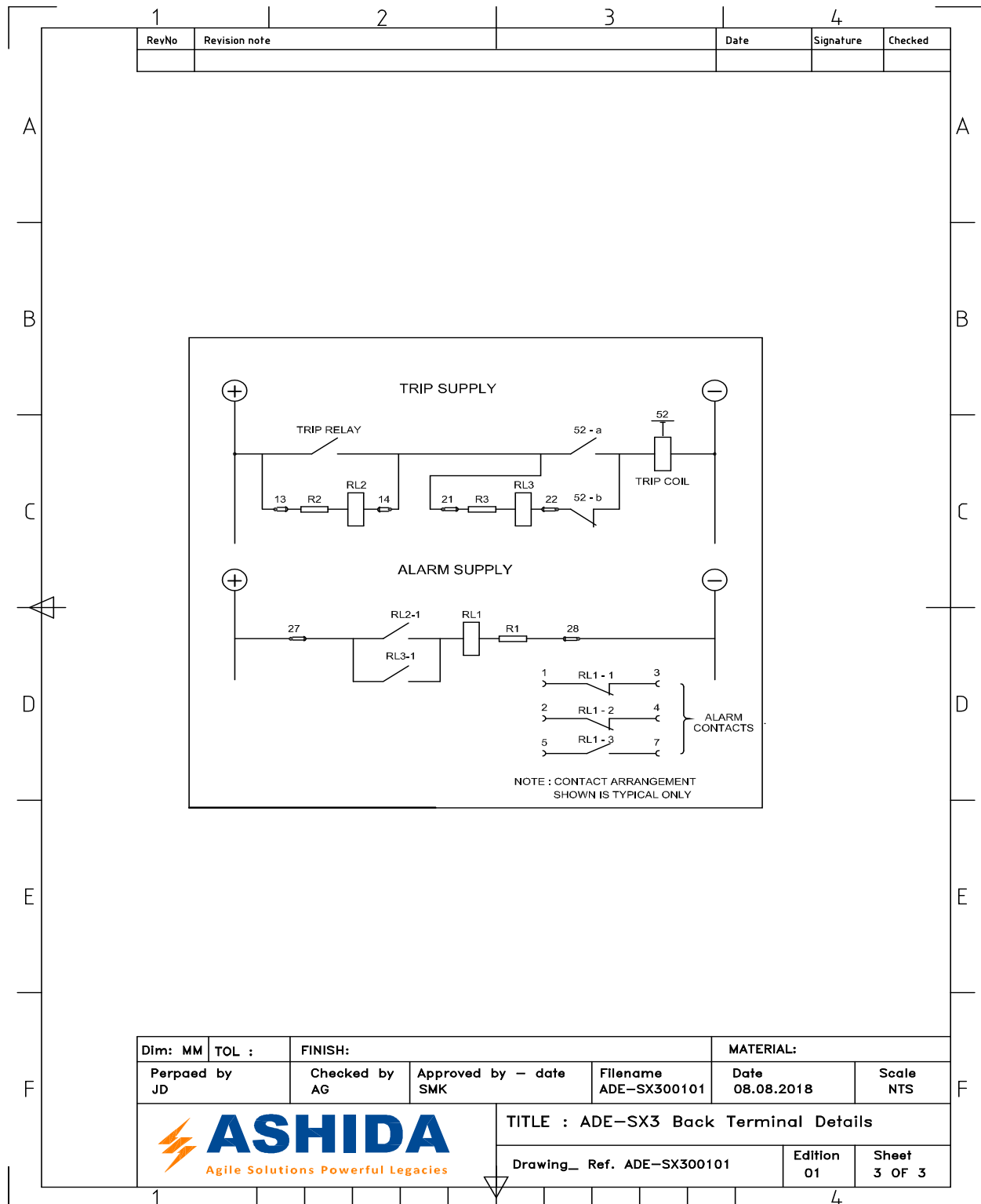
Dim: MM	TOL :	FINISH:	MATERIAL:
Perpaed by JD	Checked by AG	Approved by - date SMK	Filename ADE-SX300101 Date 08.08.2018 Scale NTS

 <h2 style="margin: 0;">ASHIDA</h2> <p style="margin: 0; font-size: small;">Agile Solutions Powerful Legacies</p>	TITLE : ADE-SX3 Back Terminal Details <hr/> <div style="display: flex; justify-content: space-between;"> Drawing_ Ref. ADE-SX300101 <div style="text-align: right;"> Edition 01 Sheet 2 OF 3 </div> </div>
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ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



ADE-S



ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



ADE-S

Model Selection Guide - AC & DC Supervision Relays (ADE-S)

	1 to 3	4	5	6	7	8	9	10	11	12	13	14	15
Model	ADE -												
Ashida Drawout Electro Mechanical													
Relay Type													
Supervision	S												
Sub Class													
AC Supervision		1											
DC Supervision		2											
No of Operating Coils													
Single Coil			1										
Double Coil			2										
Type of Contact Reset													
Self Reset					1								
Hand Reset					2								
Type of Flag													
Standard Flag					1								
Reverse Flag					2								
No Flag					3								
C1: Standard Flag & C2: Reverse Flag					4								
C1: Standard Flag & C2: No Flag					5								
C1: Reverse Flag & C2: Standard Flag					6								
C1: Reverse Flag & C2: No Flag					7								
C1: No Flag & C2: Standard Flag					8								
C1: No Flag & C2: Reverse Flag					9								
Aux Supply													
For Single Coil AC & DC Supervision													
24-30 VDC (Only for DCS)							1						
48-54 VDC (Only for DCS)							2						
110-125 VDC (Only for DCS)							3						
220-250 VDC (Only for DCS)							4						
63.5VAC (Only for ACS)							5						
110VAC (Only for ACS)							6						
220VAC (Only for ACS)							7						
For Double Coil AC Supervision													
C1: 63.5VAC, C2: 24-30VDC/48-54VDC							A						
C1: 63.5VAC, C2: 110-125VDC/220-250VDC							B						
C1: 110VAC/220VAC, C2: 24-30VDC/48-54VDC							C						
C1: 110VAC/220VAC, C2: 110-125 VDC/220-250VDC							D						
For Double Coil DC Supervision													
C1: 24-30VDC/48-54VDC, C2: 63.5VAC							M						
C1: 24-30VDC/48-54VDC, C2: 110VAC/220VAC							N						
C1: 110-125VDC/220-250VDC, C2: 63.5VAC							O						
C1: 110-125VDC/220-250VDC, C2: 110VAC/220VAC							P						

ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



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	
3NO+1NC				E	
2NO+2NC				F	
2C/O (Not Applicable for Hand Reset Contacts)				G	
6NO (Not Applicable for Double Coil)				H	
4NO+2NC (Not Applicable for Double Coil)				I	
3NO+3NC (Not Applicable for Double Coil)				J	
2NO+4NC (Not Applicable for Double Coil)				K	
2NO+2C/O (Not Applicable for Hand Reset Contacts)				L	
4 C/O (Not Applicable for Hand Reset Contacts & Double coil)				M	
NA				X	
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	
2C/O (Not Applicable for Hand Reset Contacts)				G	
6NO (Not Applicable for Double Coil)				H	
4NO+2NC (Not Applicable for Double Coil)				I	
3NO+3NC (Not Applicable for Double Coil)				J	
2NO+4NC (Not Applicable for Double Coil)				K	
2NO+2C/O (Not Applicable for Hand Reset Contacts)				L	
4 C/O (Not Applicable for Hand Reset Contacts & Double coil)				M	
NA				X	
Contact Combination-Third Coil Relay					
NA					X

ASHIDA DRAW OUT ELECTRO MECHANICAL SUPERVISION RELAYS



ADE-S

Model Selection Guide - Trip Circuit Supervision Relays (ADE-S)

	1 to 3	4	5	6	7	8	9	10	11	12	13	14	15
Model	ADE -												
Ashida Drawout Electro Mechanical													
Relay Type													
Supervision	S												
Sub Class													
Trip Circuit Supervision	3												
No of Operating Coils													
Triple Coil	3												
Type of Contact Reset													
Self Reset	1												
Type of Flag													
No Flag	1												
Reverse Flag	2												
Aux Supply													
24-30 VDC	1												
48-54 VDC	2												
110-125 VDC	3												
220-250 VDC	4												
63.5VAC	5												
110VAC	6												
220VAC	7												
Burden													
Not Applicable	X												
No of Contacts per Coil													
3 Contacts	D												
Case Size													
Case 4	4												
Contact Combination-First Coil													
NA	X												
Contact Combination-Second Coil													
NA	X												
Contact Combination-Three Coil Relay													
3NO													A
2NO+1NC													B
1NO+2NC													C
3NC													D
NA													X

ASHIDA DRAW OUT ELECTRO MECHANICAL
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