Harborview Data Centre - ACB Test List - 2026

Report Generated: 19/04/2026

Harborview Data Centre

EQ Solves

SYD-ACB-01

Site	Harborview Data Centre	**Asset**	SYD-ACB-01
Location	MSB Room — Level B1	**ID**	HBV-MSB-CB01
Job Plan	E1.25 — Low Voltage Air Circuit Breaker		

SYD-ACB-01 - Circuit Breaker Details

Attribute	Value	Attribute	Value
Brand	Schneider	**Short-Time Tripping Delay - tsd**	
Breaker Type	Masterpact MTZ2	**Instantaneous Pickup - Ii**	
Serial No	ACB-2024-001	**Instantaneous Pickup - Isd**	
Performance Level		**Earth-Fault Pickup - Ig**	
Protection Unit Fitted		**Earth-Fault Pickup - tg**	
Trip Unit Model		**Earth-Fault Pickup - IΔn**	
Number of Poles		**Earth-Leakage Tripping Delay - Δt**	
Current Rating		**Motor Charge**	
Fixed / Withdrawable		**Shunt Trip (MX1)**	
Long Time - Ir		**Shunt Close (XF)**	
Long Time Delay - tr		**Undervoltage (MN)**	
Short-Time Pickup - Isd		**Second Shunt Trip**	

SYD-ACB-01 - Visual / Functional Test Results

Name	Result
Operation Counter - Before	1247
Castle Key Fitted	Yes
Functioning of the safety shutters (De-energised ONLY)	OK

Name	Order	ACB Checklist Section	Result	Comment
General Condition	10	Visual Inspection	Pass	Good
Condition of connection pads (flags)	20	Visual Inspection	Pass	OK
Main contact wear	30	Visual Inspection	Pass	Within tolerance
Condition of the ARC chute	40	Visual Inspection	Pass	OK
Connection pads degreasing	50	Mechanical / Active parts degreasing	Pass	Complete
Castel key operational	60	Device Functional	Pass	OK

		Check		
Functioning of the operational counter	70	Device Functional Check	Pass	OK
Functioning of OF Status contacts	80	Device Functional Check	Pass	OK
Functioning of the XF (Close coil) at minimum voltage	90	Device Functional Check	Pass	OK
Complete closing of device	100	Device Functional Check	Pass	OK
Functioning of the MX (Shunt trip) at minimum voltage	110	Device Functional Check	Pass	OK
Functioning of the MX2 (Shunt trip) at minimum voltage	115	Device Functional Check	N/A	
Functioning of the pre-tripping system	120	Device Functional Check	Pass	OK
Functioning of the MN Undervoltage coil at minimum voltage	130	Device Functional Check	Pass	OK
Functioning of the MCH motor charge at minimum voltage	140	Device Functional Check	Pass	OK
Manual charge test	150	Device Functional Check	Pass	OK
Manual closing test	160	Device Functional Check	Pass	OK
Manual opening test	170	Device Functional Check	Pass	OK
Pull test on auxiliary wiring	180	Auxiliaries Check	Pass	OK
Apply service sticker with date of service	190	Device Racking In	Pass	Applied
Connection pads greasing	200	Mechanical / Active parts greasing	Pass	Complete
Connecting clusters and cluster supports greasing	210	Mechanical / Active parts greasing	Pass	Complete
Position locking / racking into position	220	Device Racking In	Pass	OK
Observation of racking mechanism into cradle	230	Device Racking In	Pass	OK
Change battery of protection unit	240	Device Functional Check	N/A	
Replace battery	250	Device Functional Check	N/A	
Additional information / items to be actioned	260	Overall	N/A	Routine service complete

SYD-ACB-01 - Electrical Testing

Main Contact Resistance — All results are in MicroOhms

Red Phase	Blue Phase	White Phase
Red Phase: 42	Blue Phase: 43	White Phase: 44

Insulation Resistance - Closed

Red > White: >1000	Red > Earth: >1000	Blue > Neutral: >1000
Red > Blue: >1000	White > Earth: >1000	Red > Neutral: >1000
White > Blue: >1000	Blue > Earth: >1000	White > Neutral: >1000

Insulation Resistance - Open

Red > Red: >1000	White > White: >1000
Blue > Blue: >1000	Neutral > Neutral: >1000

Carry Out Secondary Injection Test Using Software: Test complete - within spec
Operation Counter - After: 1251

SYD-ACB-01 - Protection Test Results

Protections	Current Levels (A)	Trip Time (s)	Minimum trip time	Maximum trip time	Pass / Fail
Short time	4000 A / 200 ms				Pass
Instantaneous	12000 A				Pass
Long time	2500 A / 12 s				Pass

SYD-ACB-02

Site	Harborview Data Centre	**Asset**	SYD-ACB-02
Location	MSB Room — Level B1	**ID**	HBV-MSB-CB02
Job Plan	E1.25 — Low Voltage Air Circuit Breaker		

SYD-ACB-02 - Circuit Breaker Details

Attribute	Value	Attribute	Value
Brand	Schneider	**Short-Time Tripping Delay - tsd**	
Breaker Type	Masterpact MTZ2	**Instantaneous Pickup - Ii**	
Serial No	ACB-2024-002	**Instantaneous Pickup - Isd**	
Performance Level		**Earth-Fault Pickup - Ig**	
Protection Unit Fitted		**Earth-Fault Pickup - tg**	
Trip Unit Model		**Earth-Fault Pickup - IΔn**	
Number of Poles		**Earth-Leakage Tripping Delay - Δt**	
Current Rating		**Motor Charge**	
Fixed / Withdrawable		**Shunt Trip (MX1)**	
Long Time - Ir		**Shunt Close (XF)**	
Long Time Delay - tr		**Undervoltage (MN)**	
Short-Time Pickup - Isd		**Second Shunt Trip**	

SYD-ACB-02 - Visual / Functional Test Results

Name	Result
Operation Counter - Before	1247
Castle Key Fitted	Yes
Functioning of the safety shutters (De-energised ONLY)	OK

Name	Order	ACB Checklist Section	Result	Comment
General Condition	10	Visual Inspection	Pass	Good
Condition of connection pads (flags)	20	Visual Inspection	Pass	OK
Main contact wear	30	Visual Inspection	Pass	Within tolerance
Condition of the ARC chute	40	Visual Inspection	Pass	OK
Connection pads degreasing	50	Mechanical / Active parts degreasing	Pass	Complete
Castel key operational	60	Device Functional	Pass	OK

		Check		
Functioning of the operational counter	70	Device Functional Check	Pass	OK
Functioning of OF Status contacts	80	Device Functional Check	Pass	OK
Functioning of the XF (Close coil) at minimum voltage	90	Device Functional Check	Pass	OK
Complete closing of device	100	Device Functional Check	Pass	OK
Functioning of the MX (Shunt trip) at minimum voltage	110	Device Functional Check	Pass	OK
Functioning of the MX2 (Shunt trip) at minimum voltage	115	Device Functional Check	N/A	
Functioning of the pre-tripping system	120	Device Functional Check	Pass	OK
Functioning of the MN Undervoltage coil at minimum voltage	130	Device Functional Check	Pass	OK
Functioning of the MCH motor charge at minimum voltage	140	Device Functional Check	Pass	OK
Manual charge test	150	Device Functional Check	Pass	OK
Manual closing test	160	Device Functional Check	Pass	OK
Manual opening test	170	Device Functional Check	Pass	OK
Pull test on auxiliary wiring	180	Auxiliaries Check	Pass	OK
Apply service sticker with date of service	190	Device Racking In	Pass	Applied
Connection pads greasing	200	Mechanical / Active parts greasing	Pass	Complete
Connecting clusters and cluster supports greasing	210	Mechanical / Active parts greasing	Pass	Complete
Position locking / racking into position	220	Device Racking In	Pass	OK
Observation of racking mechanism into cradle	230	Device Racking In	Pass	OK
Change battery of protection unit	240	Device Functional Check	N/A	
Replace battery	250	Device Functional Check	N/A	
Additional information / items to be actioned	260	Overall	N/A	Routine service complete

SYD-ACB-02 - Electrical Testing

Main Contact Resistance — All results are in MicroOhms

Red Phase	Blue Phase	White Phase
Red Phase: 41	Blue Phase: 44	White Phase: 45

Insulation Resistance - Closed

Red > White: >1000	Red > Earth: >1000	Blue > Neutral: >1000
Red > Blue: >1000	White > Earth: >1000	Red > Neutral: >1000
White > Blue: >1000	Blue > Earth: >1000	White > Neutral: >1000

Insulation Resistance - Open

Red > Red: >1000	White > White: >1000
Blue > Blue: >1000	Neutral > Neutral: >1000

Carry Out Secondary Injection Test Using Software: Test complete - within spec
Operation Counter - After: 1251

SYD-ACB-02 - Protection Test Results

Protections	Current Levels (A)	Trip Time (s)	Minimum trip time	Maximum trip time	Pass / Fail
Short time	4000 A / 200 ms				Pass
Instantaneous	12000 A				Pass
Long time	2500 A / 12 s				Pass

SYD-ACB-03

Site	Harborview Data Centre	**Asset**	SYD-ACB-03
Location	Generator Room — Level B1	**ID**	HBV-GEN-CB01
Job Plan	E1.25 — Low Voltage Air Circuit Breaker		

SYD-ACB-03 - Circuit Breaker Details

Attribute	Value	Attribute	Value
Brand	ABB	**Short-Time Tripping Delay - tsd**	
Breaker Type	Emax E2.2	**Instantaneous Pickup - Ii**	
Serial No	ACB-2024-003	**Instantaneous Pickup - Isd**	
Performance Level		**Earth-Fault Pickup - Ig**	
Protection Unit Fitted		**Earth-Fault Pickup - tg**	
Trip Unit Model		**Earth-Fault Pickup - IΔn**	
Number of Poles		**Earth-Leakage Tripping Delay - Δt**	
Current Rating		**Motor Charge**	
Fixed / Withdrawable		**Shunt Trip (MX1)**	
Long Time - Ir		**Shunt Close (XF)**	
Long Time Delay - tr		**Undervoltage (MN)**	
Short-Time Pickup - Isd		**Second Shunt Trip**	

SYD-ACB-03 - Visual / Functional Test Results

Name	Result
Operation Counter - Before	1247
Castle Key Fitted	Yes
Functioning of the safety shutters (De-energised ONLY)	OK

Name	Order	ACB Checklist Section	Result	Comment
General Condition	10	Visual Inspection	Pass	Good
Condition of connection pads (flags)	20	Visual Inspection	Pass	OK
Main contact wear	30	Visual Inspection	Fail	Excessive wear on Red phase
Condition of the ARC chute	40	Visual Inspection	Pass	OK
Connection pads degreasing	50	Mechanical / Active parts degreasing	Pass	Complete

Castel key operational	60	Device Functional Check	Pass	OK
Functioning of the operational counter	70	Device Functional Check	Pass	OK
Functioning of OF Status contacts	80	Device Functional Check	Pass	OK
Functioning of the XF (Close coil) at minimum voltage	90	Device Functional Check	Pass	OK
Complete closing of device	100	Device Functional Check	Pass	OK
Functioning of the MX (Shunt trip) at minimum voltage	110	Device Functional Check	Pass	OK
Functioning of the MX2 (Shunt trip) at minimum voltage	115	Device Functional Check	N/A	
Functioning of the pre-tripping system	120	Device Functional Check	Pass	OK
Functioning of the MN Undervoltage coil at minimum voltage	130	Device Functional Check	Pass	OK
Functioning of the MCH motor charge at minimum voltage	140	Device Functional Check	Pass	OK
Manual charge test	150	Device Functional Check	Pass	OK
Manual closing test	160	Device Functional Check	Pass	OK
Manual opening test	170	Device Functional Check	Pass	OK
Pull test on auxiliary wiring	180	Auxiliaries Check	Pass	OK
Apply service sticker with date of service	190	Device Racking In	Pass	Applied
Connection pads greasing	200	Mechanical / Active parts greasing	Pass	Complete
Connecting clusters and cluster supports greasing	210	Mechanical / Active parts greasing	Pass	Complete
Position locking / racking into position	220	Device Racking In	Pass	OK
Observation of racking mechanism into cradle	230	Device Racking In	Pass	OK
Change battery of protection unit	240	Device Functional Check	N/A	
Replace battery	250	Device Functional Check	N/A	
Additional information / items to be actioned	260	Overall	N/A	Red phase main contact to be replaced - defect raised

SYD-ACB-03 - Electrical Testing

Main Contact Resistance — All results are in MicroOhms

Red Phase	Blue Phase	White Phase

Red Phase: 71	Blue Phase: 45	White Phase: 46

Insulation Resistance - Closed

Red > White: >1000	Red > Earth: >1000	Blue > Neutral: >1000
Red > Blue: >1000	White > Earth: >1000	Red > Neutral: >1000
White > Blue: >1000	Blue > Earth: >1000	White > Neutral: >1000

Insulation Resistance - Open

Red > Red: >1000	White > White: >1000
Blue > Blue: >1000	Neutral > Neutral: >1000

Carry Out Secondary Injection Test Using Software: Test complete - within spec
Operation Counter - After: 1251

SYD-ACB-03 - Protection Test Results

Protections	Current Levels (A)	Trip Time (s)	Minimum trip time	Maximum trip time	Pass / Fail
Short time	4000 A / 200 ms				Pass
Instantaneous	12000 A				Pass
Long time	2500 A / 12 s				Pass