

**ABB ACSM1 Drive Push Thru Flange C, D and E - Frame information:**

**ABB ACSM1 Push Thru Flange Drive Part numbers:**

<b>ACSM1-04PS-024A-4</b>
<b>ACSM1-04PS-031A-4</b>
<b>ACSM1-04PS-040A-4</b>
<b>ACSM1-04PS-046A-4</b>
<b>ACSM1-04PS-060A-4</b>
<b>ACSM1-04PS-073A-4</b>
<b>ACSM1-04PS-090A-4</b>

<b>ACSM1-04PM-024A-4</b>
<b>ACSM1-04PM-031A-4</b>
<b>ACSM1-04PM-040A-4</b>
<b>ACSM1-04PM-046A-4</b>
<b>ACSM1-04PM-060A-4</b>
<b>ACSM1-04PM-073A-4</b>
<b>ACSM1-04PM-090A-4</b>

## ACSM1-04Px / Push through (Flange) variant

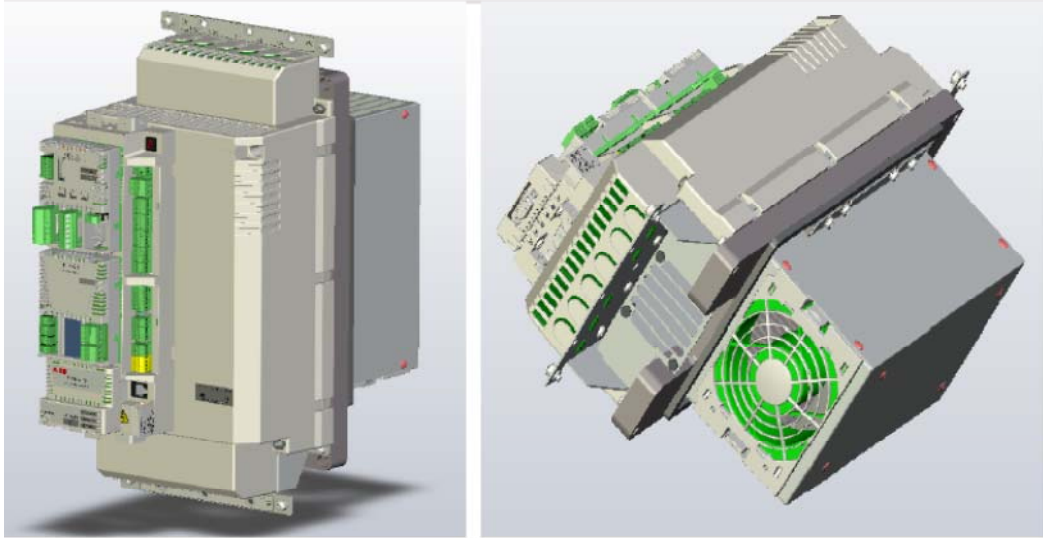
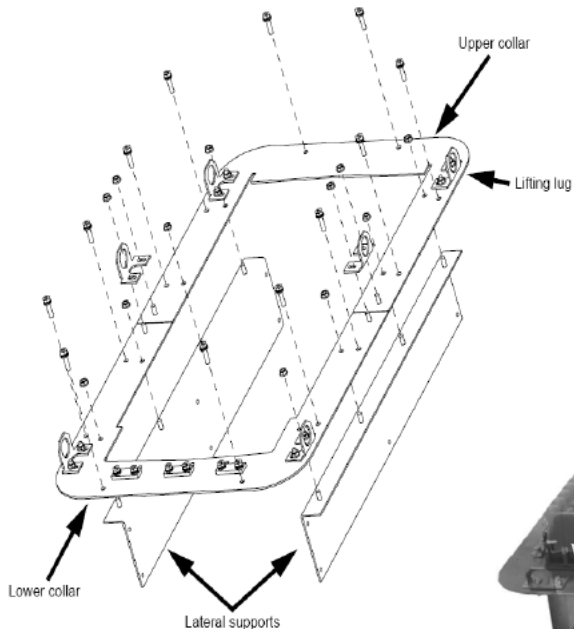


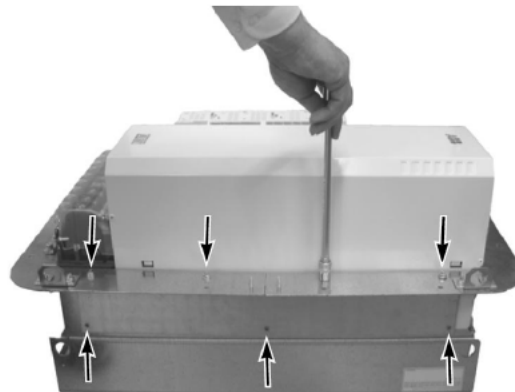
ABB offers a push-through or flange-mounted variant for the C - D Frames for occasions where the control side of the drive needs to be separately cooled from the power side. Having the cooling air circulating in a separate channel is necessary to avoid dusty or dirty air reaching the sensitive control side electronics, helping to extend the lifetime of the drive.



## ACSM1 Push-through C – D Frame Flange Mounting Kit



- Cooling air side of the drive (air flow and main losses) can be separated with push through installation
- IP20
- IP 54 heatsink



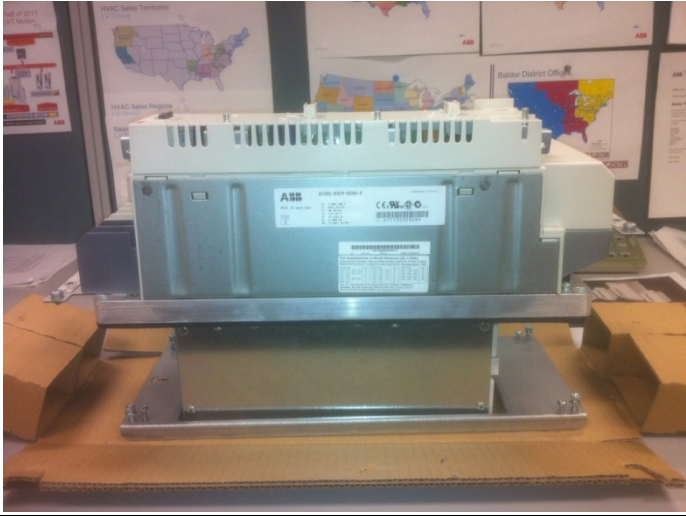
There is a heatsink and a fan inside the push through air duct that is attached on the cold plate drive.

Technically, it is also feasible to remove the fan inside the push through air duct and provide similar required air flow with some external fan.

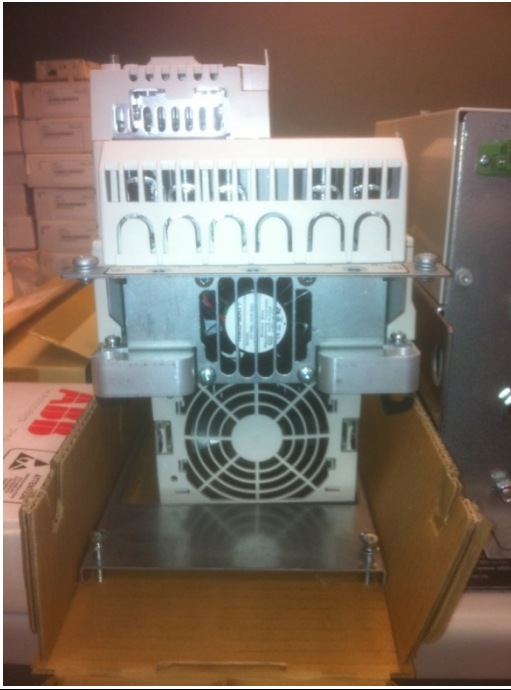
**ABB ACSM1 Push Thru Flange Drive top view:**



**ABB ACSM1 Push Thru Flange Drive side view:**



**ABB ACSM1 Push Thru Flange Drive bottom view:**



First angle projection. Original drawing made with Pro/ENGINEER. Set the correct scale factor when adding dimensions after DWG/DXF conversion.

- Assemble fan (4) to FAN FASTENER (5). Assemble WIRE HARNESS (11) to fan cable. Push fan wire to snap and make sure that blowing direction is inside to frame.
- Assemble FRAME (6) to HEAT SINK (9) with four COMBISCREWS (3).
- Assemble fan assembly to FRAME (6). Make sure that all snaps are fixed correctly.
- Add ASSEMBLY PLATE(1) four GASKET TAPES(7,8) and eight screws (2,10) to kit.

PRNO	QTY	MFP CODE	NAME / TITLE.1	TECH. DESC / TITLE.2	PRODUCT or TYPECODE / TITLE.3	WEIGHT kg
11	1	3AUA0000062447	WIRE HARNESS	FRAME C AND D PUSH THROUGH FAN CABLE	ACSM1	0.02
10	4		MACHINE SCREW	ISO7045 (DIN7985)	M4X20 POZ	0.00
9	1	3AUA0000066369	HEAT SINK	FRAME C PUSH THROUGH	ACSM1	1.62
8	2	3AUA00000668912	GASKET TAPE	MIDDLE GASKET FRAME C	CUBANELLE	0.11
7	2	3AUA00000669553	GASKET TAPE	SIDE GASKET	CUBANELLE	0.14
6	1	3AUA00000669554	FRAME	FRAME C PUSH THROUGH ASSEMBLY	ACSM1	1.07
5	1	64424033	FASTENER	PC/ABS PLASTIC FAN FASTENER	ACS801 R3	0.04
4	1	3AUA0000067380	FAN (AXIAL)	JPT-CI FAN SPECIFICATION	ACSM1	
3	4	68343097	COMBISCREW	DIN6900 (ISO10644) DIN6905+6902A DIN7985 8.8 ZN	M4X8 TORX T20	0.00
2	4	64161768	COMBISCREW	DIN6900 (ISO10644) DIN6905+6902A DIN7985 8.8 DeIFaKL100 + VH 301 GZ	M5X25 POZ	0.00
1	1	3AUA0000067045	ASSEMBLY PLATE	FRAME C PUSH THROUGH ASSEMBLY	CUBANELLE	0.39

Initial Approver:	Prepared	T. KOIVUNIEMI	14-SEP-09	Title	ASSEMBLY DRAWING	Doc. des.	ASSEMBLY DRAWING	Scale	1:1	Form	A4	EN	
Customer	Check	J. HAKALA	09-MAR-10	Title	FRAME C	Resp. dept.	EJO	Rev. ind.	A (AP)	Lang.	EN	Sheet	1
Cust. Doc. No.	Project name	CUBANELLE		Doc. No.	3AUA0000067383	Long.	EN	Sheet	1	Total	1		
ADD Ref. No.	Weight kg	3.81		<b>ABB DRIVES</b>									



3aua0000067  
383 Frame C F

First angle projection. Original drawing made with Pro/ENGINEER. Set the correct scale factor when adding dimensions after DWG/DXF conversion.

1. Assemble fan (4) to FAN FASTENER (5). Assemble WIRE HARNESS (11) to fan cable. Push fan wire to snap and make sure that blowing direction is inside to frame.
2. Assemble FRAME (6) to HEAT SINK (9) with four COMBISCREWS (3).
3. Assemble fan assembly to FRAME (6). Make sure that all snaps are fixed correctly.
4. Add ASSEMBLY PLATE(1) four GASKET TAPES(7,8) and eight screws (2,10) to kit.

ITEM NO.	QTY	MRP CODE	NAME / TITLE.1	TECH. DESC / TITLE.2	PRODUCT or TYPECODE / TITLE.3	WEIGHT kg
11	1	3AUA0000062447	WIRE HARNESS	FRAME C AND D PUSH THROUGH FAN CABLE	ACSM1	0.02
10	4		MACHINE SCREW	ISO7045 (DIN7985)	M4X20 POZ	0.00
9	1	3AUA0000066542	HEAT SINK	FRAME D PUSH THROUGH	ACSM1	2.53
8	2	3AUA0000060953	GASKET TAPE	SIDE GASKET	CUBANELLE	0.14
7	2	3AUA0000059799	GASKET TAPE	MIDDLE GASKET FRAME D	CUBANELLE	0.12
6	1	3AUA0000059798	FRAME	FRAME D PUSH THROUGH ASSEMBLY	ACSM1	1.53
5	1	68646138	FAN FASTENER	FAN SIZE 120X120MM	ACSM1	0.05
4	1	3AUA0000067376	FAN (AXIAL)	JPT-D1 FAN SPECIFICATION	120X120X38MM	0.23
3	4	68343097	COMBISCREW	DIN6900 (ISO10644) DIN6905+6902A DIN1985 8.8 ZN	M4X8 TORX T20	0.00
2	4	64161768	COMBISCREW	DIN6900 (ISO10644) DIN6905+6902A DIN1985 8.8 Delta KL100 + VH 301 GZ	M5X25 POZ	0.00
1	1	3AUA0000067049	ASSEMBLY PLATE	FRAME D PUSH THROUGH ASSEMBLY	CUBANELLE	0.45

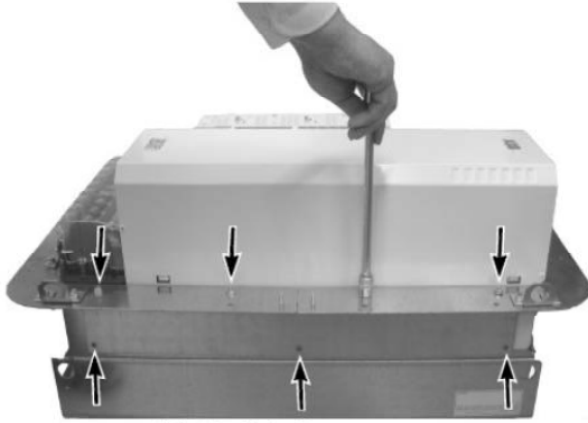
3AUA0000067354	Initial Approval	Prepared T. KOIVUNIEMI	11-SEP-09	Doc. des. ASSEMBLY DRAWING	Scale 1:5	Form A4	Weight 5.37
3AUA0000067354	Customer	Check J. HAKALA	09-MAR-10	Title ASSEMBLY DRAWING	Resp. dept. EJO	Rev. ind. A (AP)	Lang. EN
	Cust. Doc. No.	Appr. J. SAVOLAINEN	09-MAR-10	Project name CUBANELE	Doc. No. 3AUA0000067354		Sheet 1
	ABB Ref. No.			ABB DRIVES			Total 1



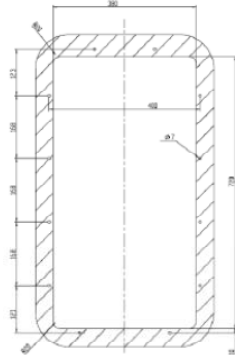
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354 Frame D F

**Internal PN #: 68725305 – Field Mounting Kit Accessory**

## ACSM1 Push-through E Frame Flange Mounting Kit Option



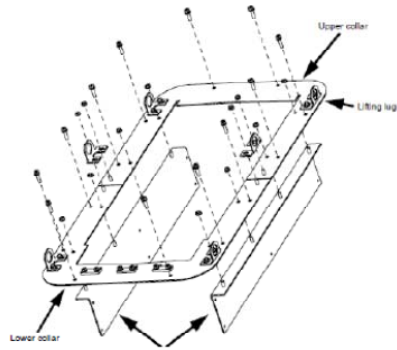
Hole dimensions for push-through mounting



### Push-through mounting

An installation kit is available for push-through mounting. The kit enables the installation of the drive module in the wall of a cooling air duct so that part of the module protrudes into the duct.

Keep the screws removed during the procedure – they will later be used to fasten the push-through mounting parts.



**See ACSM1 E Frame Hardware Manual for installation**