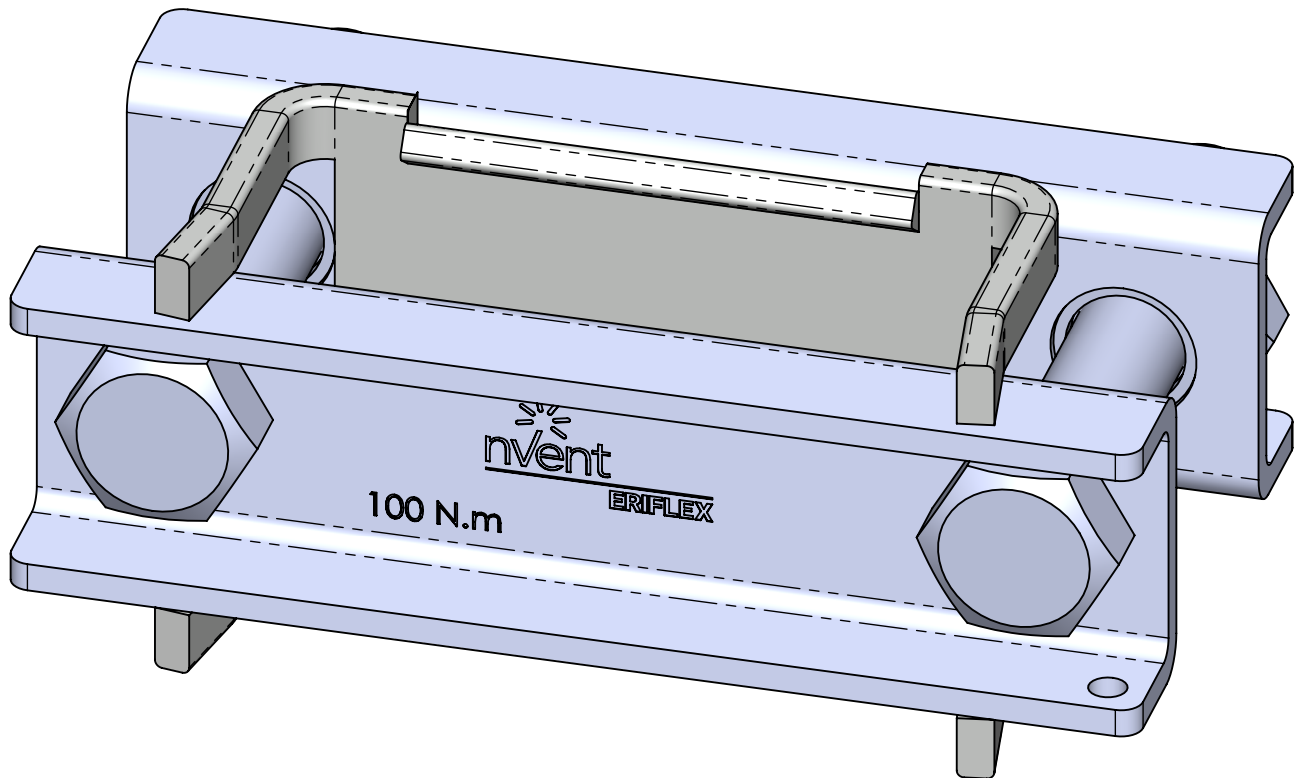


nVent ERIFLEX FLEXBUS HCBC CLAMP AND PLATE

Instruction Sheet



INSTRUCTION SHEET

nVent ERIFLEX FLEXBUS HCBC CLAMP AND PLATE FOR CONNECTION

1

EXAMPLE

4

24 mm

$T_q = 100 \text{ N.m}$
73.5 lb.ft

1.1

FLEXCLAMP63(508190)

FLEXCLAMP80(508191)

FLEXCLAMP100(508192)

FLEXCLAMP120(508193)

FLEXCLAMP160(508194)

2

!

2-3

Cu, Al, Cu+Zn, Sn

PIN

USE FLEXCLAMP

25

PIN

2.1

FLEXPLATE50(508180)

50A 50B

FLEXPLATE100 (508181)

100A

100B 100C

FLEXPLATE50PE (508182)

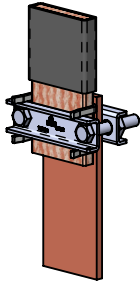
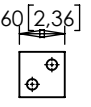
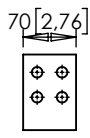
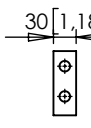
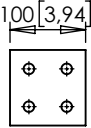
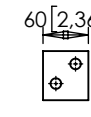
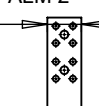
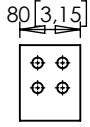
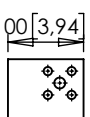
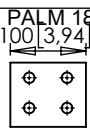
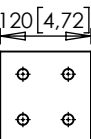
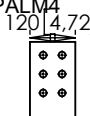
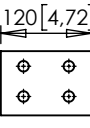
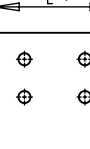
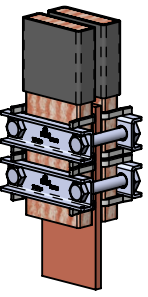
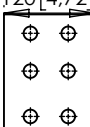
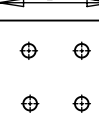
50A 50B

FLEXPLATE100PE (508183)

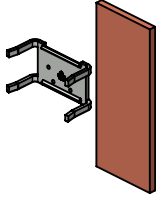
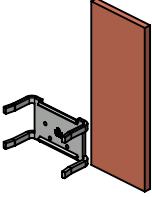
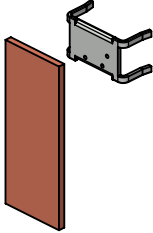
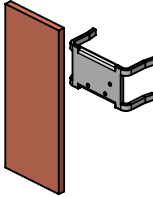
100A

100B 100C

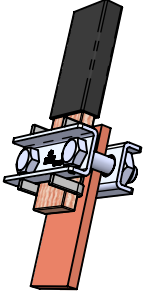
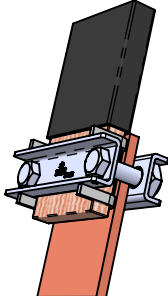
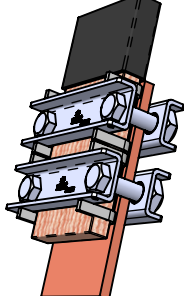
INSTRUCTION SHEET

Transformer type	In Transformer (A)	Typical usage for Oil Transformer				Typical usage for Dry/Cast resin Transformer				HCBC Clamp & Plate mounting
		Transformer palm dimensions (mm)	HCBC Clamp & Plate mounting per phase	Transformer palm dimensions (mm)	HCBC Clamp & Plate mounting per phase	Transformer palm dimensions (mm)	HCBC Clamp & Plate mounting per phase	Transformer palm dimensions (mm)	HCBC Clamp & Plate mounting per phase	
		EN 50387		DIN 42530		EN 50180		DIN 46206		
400 kVA	560	PALM 1		PALM 6		PALM 10 40 [1,57]	1pc FLEXCLAMP 63 1pc FLEXPLATE 50(PE)	PALM 15 30 [1,18]		
500 kVA	704	63 [2,48]	1pc FLEXCLAMP 63 1pc FLEXPLATE 50(PE)		1pc FLEXCLAMP 63 1pc FLEXPLATE 50(PE)	PALM 11		PALM 16	1pc FLEXCLAMP 63 1pc FLEXPLATE 50(PE)	
630 kVA	900						1pc FLEXCLAMP 80 1pc FLEXPLATE 50(PE)			
800 kVA	1120			PALM 7	1pc FLEXCLAMP 100 1pc FLEXPLATE 50(PE)			PALM 17		
										
1000 kVA	1400	PALM 2	63 [2,48]			PALM 12				1pc FLEXCLAMP 100 1pc FLEXPLATE 100(PE)
			1pc FLEXCLAMP 100 1pc FLEXPLATE 100(PE)				1pc FLEXCLAMP 100 1pc FLEXPLATE 100(PE)			
1250 kVA	1750	PALM 3						PALM 18		1pc FLEXCLAMP 100 1pc FLEXPLATE 100(PE)
			2pc FLEXCLAMP 100 2pc FLEXPLATE 100(PE)	PALM 8	2pc FLEXCLAMP 120 2pc FLEXPLATE 100(PE)	PALM 13	2pc FLEXCLAMP 100 2pc FLEXPLATE 100(PE)			
1600 kVA	2253							PALM 19		2pc FLEXCLAMP 120 2pc FLEXPLATE 100(PE)
			2pc FLEXCLAMP 100 4pc FLEXPLATE 100(PE)			PALM 14				
2000 kVA	2816									2pc FLEXCLAMP 160 4pc FLEXPLATE 100(PE)
2500 kVA	3520	PALM 5		PALM 9				N/A	N/A	
			2pc FLEXCLAMP 100 4pc FLEXPLATE 100(PE)		2pc FLEXCLAMP 160 4pc FLEXPLATE 100(PE)					
3150 kVA	4435									

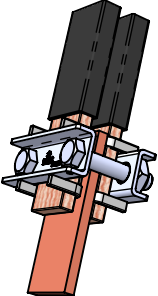
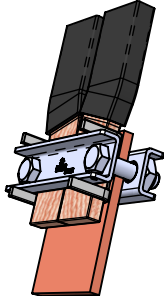
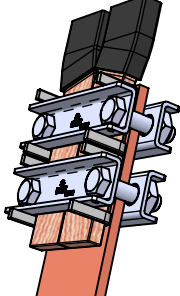
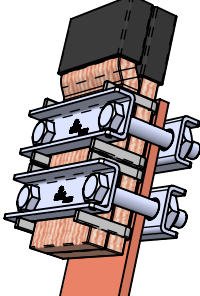
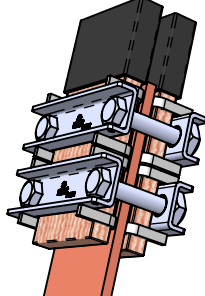
INSTRUCTION SHEET

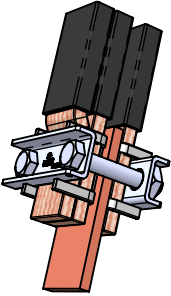
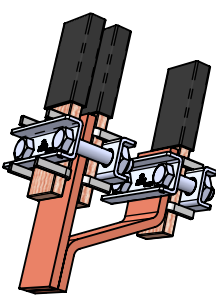
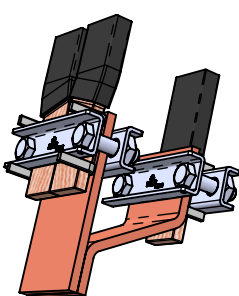
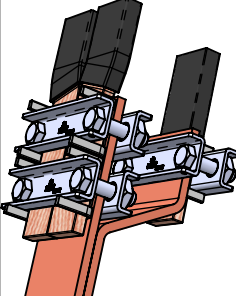
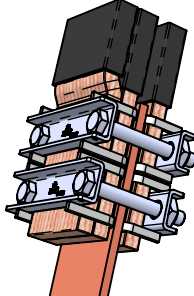
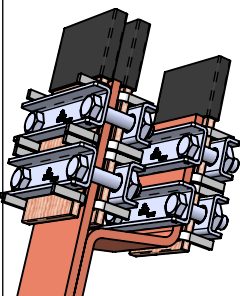
MOUNTING PIN				
PALM 1	50B	-	50B	-
PALM 2	100B or 100C			
PALM 3	100B	100C	100C	100B
PALM 4	100A			
PALM 5	100A			
PALM 6	50A	-	50A	-
PALM 7	50A or 100A			
PALM 8	100A			
PALM 9	100A			
PALM 10	50B	-	50B	-
PALM 11	50A	-	50A	-
PALM 12	100B or 100C			
PALM 13	100A			
PALM 14	100A			
PALM 15	50B	-	50B	-
PALM 16	50B	-	50B	-
PALM 17	50A or 100B	-	50A or 100C	-
PALM 18	100A			
PALM 19	100A			

 1 - **2.1** for equivalence 50A / 50B / 100A / 100B / 100C

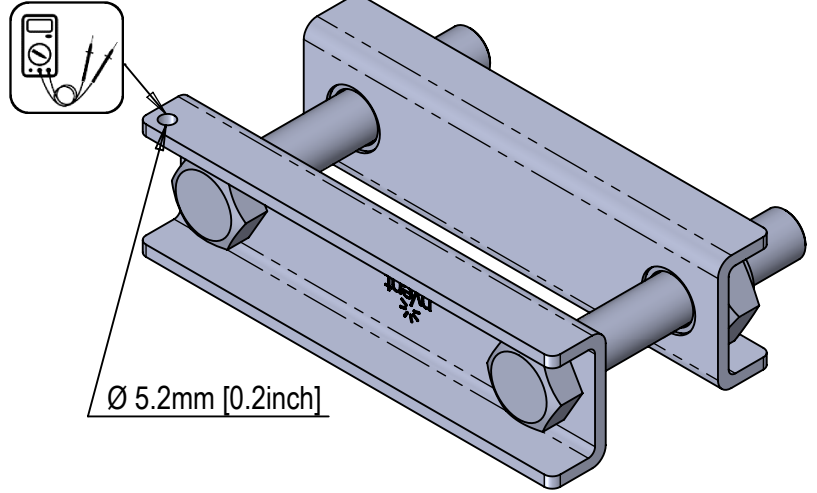
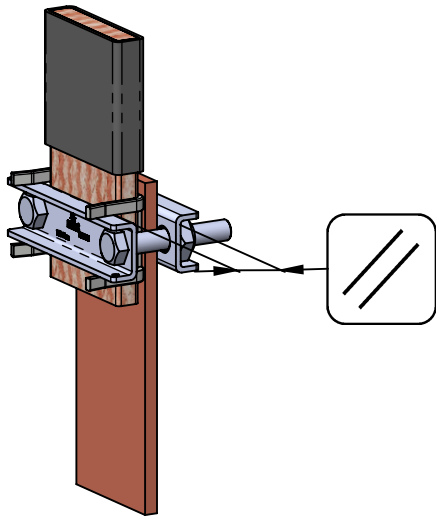
1 Flexbus Conductor per phase		
Flexbus conductor 220, 360, 545 and 640 mm ²	Flexbus conductor 800, 960 and 1280 mm ²	Flexbus conductor 1810 mm ²
1 x HCBC Clamp 63	1 x HCBC Clamp ≥ 100	2 x HCBC Clamp ≥ 100
1 x HCBC Plate 50	1 x HCBC Plate 100	2 x HCBC Plate 100
		

**Transformer palms or rigid bars
cross section to be determined in
function of the current to carry
and ambient temperature.**

2 Flexbus Conductors per phase				
Flexbus conductor 220, 360, 545 and 640 mm ²	Flexbus conductor 220 and 360 mm ²	Flexbus conductor 545 and 640 mm ²	Flexbus conductor 800, 960 mm ²	Flexbus conductor 800, 960, 1280 and 1810mm ²
1 x HCBC Clamp 63	1 x HCBC Clamp ≥ 100	2 x HCBC Clamp ≥ 100	2 x HCBC Clamp ≥ 100	2 x HCBC Clamp ≥ 100
2 x HCBC Plate 50	1 x HCBC Plate 100	2 x HCBC Plate 100	2 x HCBC Plate 100	4 x HCBC Plate 100
				

3 Flexbus Conductors per phase					
Flexbus conductor 220 and 360 mm ²	Flexbus conductor 220, 360, 545 and 640 mm ²	Flexbus conductor 220 and 360 mm ²	Flexbus conductor 545 and 640 mm ²	Flexbus conductor 800, 960 mm ²	Flexbus conductor 800, 960, 1280 and 1810mm ²
1 x HCBC Clamp 63	2 x HCBC Clamp 63	1 x HCBC Clamp ≥ 100 1 x HCBC Clamp ≥ 63	2 x HCBC Clamp ≥ 100 1 x HCBC Clamp ≥ 63	2 x HCBC Clamp ≥ 100	4 x HCBC Clamp ≥ 100
2 x HCBC Plate 50	3 x HCBC Plate 50	1 x HCBC Plate 100 1 x HCBC Plate 50	2 x HCBC Plate 100 1 x HCBC Plate 50	4 x HCBC Plate 100	6 x HCBC Plate 100
					

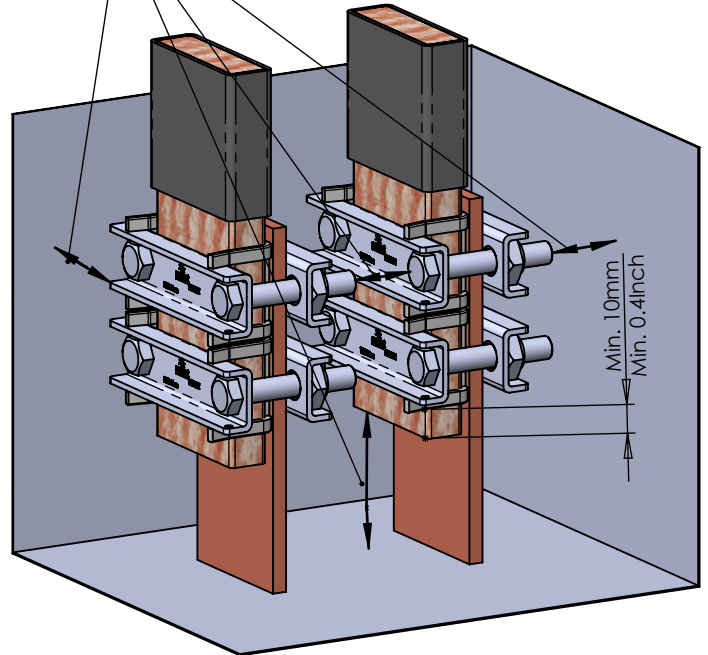
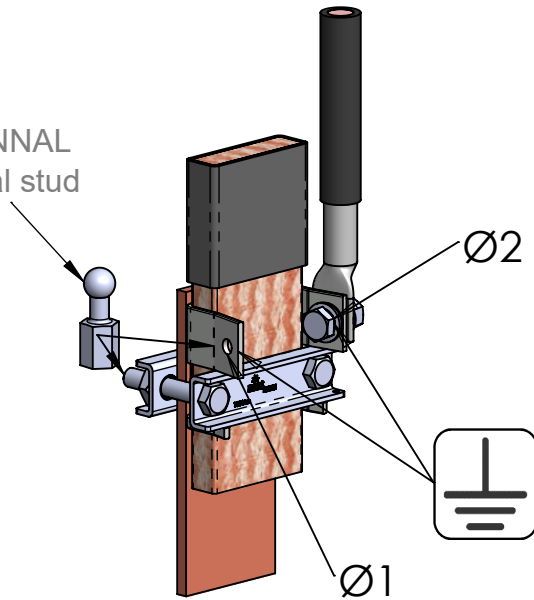
INSTRUCTION SHEET



	Ø1	Ø2
FLEXPLATE50PE	10.5 mm 0.39 inch	14.5 mm 0.55 inch
FLEXPLATE100PE	12.5 mm 0.47 inch	16.5 mm 0.63 inch

The minimum clearance distance is 14mm according IEC 61439-1 with air pollution degree 3.

OPTIONNAL
Terminal stud



WARNING:

1. nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at www.nVent.com and from your nVent customer service representative.
2. nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
3. All instructions must be completely followed to ensure proper and safe installation and performance.
4. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

SAFETY INSTRUCTIONS: All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.



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