

CFI. | Double hinges for profiles

Technopolymer



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MATERIAL

Glass-fibre reinforced polyamide based (PA) technopolymer, black or grey colour RAL 7040 (C33), matte finish.

ROTATING PINS

Nickel-plated steel.

STANDARD EXECUTION

Pass-through holes for M6 countersunk head screws.

TECHNOPOLYMER CENTRING INSERTS (SUPPLIED)

For profiles with slot dimensions from 6 to 12 mm.

FEATURES AND APPLICATIONS

This type of hinge is recommended when, for example, one central frame is connected with two lateral doors. It can be used with aluminium profiles from 30 up to 60 mm, also combining different dimensions.

ROTATION ANGLE (APPROXIMATE VALUE)

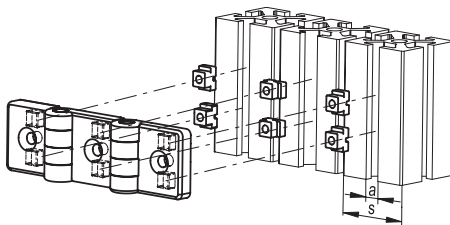
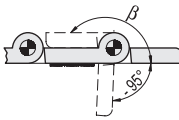
Max 260°/275° (-95° and +165°/180° being 0° the condition where the two interconnected surfaces are on the same plane).

Do not exceed the rotation angle limit so as not to prejudice the hinge mechanical performance.

To choose the convenient type and the right number of hinges for your application, see the Guidelines (see page 1448).

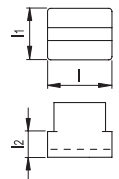


FM design

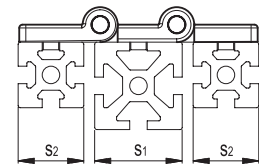
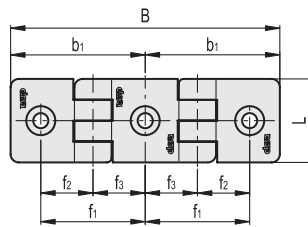
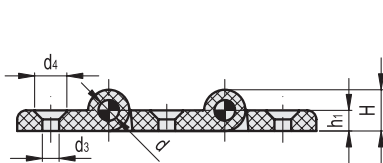


| Profile dimension | | Insert orientation | Insert colour |
|-------------------|----|--------------------|---------------|
| s | a | | |
| 30 | 6 | | Light grey |
| | 8 | | |
| 40÷45 | 8 | | Dark grey |
| | 10 | | |
| 50÷60 | 10 | | Black |
| | 12 | | |

| Centring inserts | | | |
|------------------|----|----|------------|
| Dimensions | | | Colour |
| l | l1 | l2 | |
| 8 | 6 | 2 | Light grey |
| 10 | 8 | 4 | Dark grey |
| 12 | 10 | 5 | Black |



| Resistance tests | AXIAL STRESS | | RADIAL STRESS | | 90° ANGLED STRESS | |
|-------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|---------------------------------|-----------------------------|
| | Maximum working load Ea [N] | Load at breakage Ra [N] | Maximum working load Er [N] | Load at breakage Rr [N] | Maximum working load E90 [N] | Load at breakage R90 [N] |
| CFI.30-30/30 SH-6 | 440 | 2570 | 1850 | 3710 | 300 | 1700 |
| CFI.30-40/40 SH-6 | 320 | 2280 | 1750 | 3490 | 220 | 870 |
| CFI.40-30/30 SH-6 | 320 | 2280 | 1750 | 3490 | 220 | 870 |
| CFI.40-40/40 SH-6 | 320 | 2280 | 1750 | 3490 | 220 | 870 |
| CFI.45-30/30 SH-6 | 240 | 2150 | 1760 | 3520 | 190 | 780 |
| CFI.45-40/40 SH-6 | 240 | 2150 | 1750 | 3490 | 190 | 780 |
| CFI.45-45/45 SH-6 | 240 | 2150 | 1760 | 3520 | 190 | 780 |
| CFI.60-30/30 SH-6 | 280 | 1510 | 1600 | 3190 | 180 | 850 |
| CFI.60-40/40 SH-6 | 280 | 1510 | 1600 | 3190 | 180 | 850 |
| CFI.60-45/45 SH-6 | 240 | 1510 | 1600 | 3190 | 180 | 780 |



Conversion Table

1 mm = 0.039 inch

| L | |
|----|------|
| mm | inch |
| 36 | 1.42 |

CFI.

METRIC

| Code | Description | s1 | s2 | L | B | f1 ±0.25 | f2 | f3 | H | h1 | b1 | d | d3 | d4 | β | C# [Nm] | ⚖ |
|--------|-------------------|----|----|----|-----|----------|------|------|----|----|------|---|-----|------|------|------------|----|
| 424111 | CFI.30-30/30 SH-6 | 30 | 30 | 36 | 89 | 35 | 17.5 | 17.5 | 16 | 8 | 44.5 | 8 | 6.5 | 12.5 | 180° | 5 | 59 |
| 424121 | CFI.30-40/40 SH-6 | 30 | 40 | 36 | 109 | 40 | 22.5 | 17.5 | 16 | 8 | 54.5 | 8 | 6.5 | 12.5 | 165° | 5 | 63 |
| 424211 | CFI.40-30/30 SH-6 | 40 | 30 | 36 | 99 | 40 | 17.5 | 22.5 | 16 | 8 | 49.5 | 8 | 6.5 | 12.5 | 180° | 5 | 62 |
| 424221 | CFI.40-40/40 SH-6 | 40 | 40 | 36 | 119 | 45 | 22.5 | 22.5 | 16 | 8 | 59.5 | 8 | 6.5 | 12.5 | 180° | 5 | 66 |
| 424311 | CFI.45-30/30 SH-6 | 45 | 30 | 36 | 104 | 42.5 | 17.5 | 25 | 16 | 8 | 52 | 8 | 6.5 | 12.5 | 180° | 5 | 63 |
| 424321 | CFI.45-40/40 SH-6 | 45 | 40 | 36 | 124 | 47.5 | 22.5 | 25 | 16 | 8 | 62 | 8 | 6.5 | 12.5 | 180° | 5 | 67 |
| 424331 | CFI.45-45/45 SH-6 | 45 | 45 | 36 | 134 | 50 | 25 | 25 | 16 | 8 | 67 | 8 | 6.5 | 12.5 | 180° | 5 | 69 |
| 424411 | CFI.60-30/30 SH-6 | 60 | 30 | 36 | 119 | 50 | 17.5 | 32.5 | 16 | 8 | 59.5 | 8 | 6.5 | 12.5 | 180° | 5 | 67 |
| 424421 | CFI.60-40/40 SH-6 | 60 | 40 | 36 | 139 | 55 | 22.5 | 32.5 | 16 | 8 | 69.5 | 8 | 6.5 | 12.5 | 180° | 5 | 71 |
| 424431 | CFI.60-45/45 SH-6 | 60 | 45 | 36 | 149 | 57.5 | 25 | 32.5 | 16 | 8 | 74.5 | 8 | 6.5 | 12.5 | 180° | 5 | 73 |

CFI-C33

| Code | Description | s1 | s2 | L | B | f1 ±0.25 | f2 | f3 | H | h1 | b1 | d | d3 | d4 | β | C# [Nm] | ⚖ |
|------------|-----------------------|----|----|----|-----|----------|------|------|----|----|------|---|-----|------|------|------------|----|
| 424111-C33 | CFI.30-30/30 SH-6-C33 | 30 | 30 | 36 | 89 | 35 | 17.5 | 17.5 | 16 | 8 | 44.5 | 8 | 6.5 | 12.5 | 180° | 5 | 59 |
| 424121-C33 | CFI.30-40/40 SH-6-C33 | 30 | 40 | 36 | 109 | 40 | 22.5 | 17.5 | 16 | 8 | 54.5 | 8 | 6.5 | 12.5 | 180° | 5 | 63 |
| 424211-C33 | CFI.40-30/30 SH-6-C33 | 40 | 30 | 36 | 99 | 40 | 17.5 | 22.5 | 16 | 8 | 49.5 | 8 | 6.5 | 12.5 | 180° | 5 | 62 |
| 424221-C33 | CFI.40-40/40 SH-6-C33 | 40 | 40 | 36 | 119 | 45 | 22.5 | 22.5 | 16 | 8 | 59.5 | 8 | 6.5 | 12.5 | 180° | 5 | 66 |
| 424311-C33 | CFI.45-30/30 SH-6-C33 | 45 | 30 | 36 | 104 | 42.5 | 17.5 | 25 | 16 | 8 | 52 | 8 | 6.5 | 12.5 | 180° | 5 | 63 |
| 424321-C33 | CFI.45-40/40 SH-6-C33 | 45 | 40 | 36 | 124 | 47.5 | 22.5 | 25 | 16 | 8 | 62 | 8 | 6.5 | 12.5 | 180° | 5 | 67 |
| 424331-C33 | CFI.45-45/45 SH-6-C33 | 45 | 45 | 36 | 134 | 50 | 25 | 25 | 16 | 8 | 67 | 8 | 6.5 | 12.5 | 180° | 5 | 69 |
| 424411-C33 | CFI.60-30/30 SH-6-C33 | 60 | 30 | 36 | 119 | 50 | 17.5 | 32.5 | 16 | 8 | 59.5 | 8 | 6.5 | 12.5 | 180° | 5 | 67 |
| 424421-C33 | CFI.60-40/40 SH-6-C33 | 60 | 40 | 36 | 139 | 55 | 22.5 | 32.5 | 16 | 8 | 69.5 | 8 | 6.5 | 12.5 | 180° | 5 | 71 |
| 424431-C33 | CFI.60-45/45 SH-6-C33 | 60 | 45 | 36 | 149 | 57.5 | 25 | 32.5 | 16 | 8 | 74.5 | 8 | 6.5 | 12.5 | 180° | 5 | 73 |

Suggested tightening torque for assembly screws.