

**protection**

circuit-breakers up to 63 A

# C60a circuit-breakers

4.5 kA, C curve

AS/NZS 4898



Approval No: N13634

## functions

The circuit-breakers combine the following functions:

- protection of circuits against short-circuit currents,
- protection of circuits against overload currents,
- control,
- isolation,

- protection of persons against indirect contact.

- C60a circuit-breakers are used in the domestic sectors where single phase fault levels are less than or equal to 4.5kA.

## description

### technical data C60a circuit-breakers

- power circuit
  - voltage rating: 240 V AC
  - number of cycles (O-C): 10 000
  - foolproof terminal design
    - moving barrier prevents incorrect cable insertion
    - cable strand centering guides ensure correct cable positions and strand grouping
  - isolation with positive contact indication
  - bistable din clip, simplifies disassembly
- environment
  - tropicalisation: treatment 2 (relative humidity: 95 % at 55 °C)
  - connection: tunnel terminals for the following cables:
    - up to 25A : 25mm<sup>2</sup> stranded
    - 32 to 63A : 35mm<sup>2</sup> stranded

## C curve

**utilisation**  
cables feeding conventional loads.

### technical data


- power circuit
  - tripping curves: the magnetic trip unit operates between 5 and 10 I<sub>n</sub>
  - breaking capacity
    - according to AS/NZS 4898 Icu ultimate breaking capacity (0-C0 cycle):

rating (A)	voltage (V)	breaking capacity Icu (A)
1...63	240	4500

## catalogue numbers



11357

type	rating (A)	catalogue number	width in mod. of 9 mm	quantity per box
<b>C curve C60a</b>				
1P 	6	<b>11354</b>	2	12
	10	<b>11355</b>	2	12
	16	<b>11356</b>	2	12
	20	<b>11357</b>	2	12
	25	<b>11339</b>	2	12
	32	<b>11358</b>	2	12
	40	<b>11359</b>	2	12
	50	<b>11360</b>	2	12
	63	<b>11361</b>	2	12

**protection**

circuit-breakers up to 63 A

# C60N circuit-breakers

6kA, C curve  
AS/NZS 4898



Approval No: N13634

## functions

The circuit-breakers combine the following functions:

- protection of circuits against short-circuit currents,
- protection of circuits against overload currents,
- control,

- isolation,
- protection of persons against indirect contact.

## description

### technical data common to C60N circuit breakers

- power circuit
  - voltage rating: 240/415 V AC
  - for 2P single phase 240/480V
  - I<sup>2</sup>t classification: 3
  - number of cycles (O-C): 20 000
  - foolproof terminal design
  - moving barrier prevents incorrect cable insertion
  - cable strand centering guides ensure correct cable positions and strand grouping
  - isolation with positive contact indication
  - bistable din clip, simplifies disassembly
- environment
  - tropicalisation: treatment 2 (relative humidity: 95 % at 55 °C)
  - connection: tunnel terminals for the following cables:
    - up to 25A : 16mm<sup>2</sup> flexible with cable end : 25mm<sup>2</sup> stranded
    - 32 to 63A : 25mm<sup>2</sup> flexible with cable end : 35mm<sup>2</sup> stranded

### C curve

**utilisation**  
cables feeding conventional loads.

### technical data

- power circuit
  - tripping curves: the magnetic trip units operate between 5 and 10 I<sub>n</sub>
  - breaking capacity according to AS/NZS 4898, I<sub>cu</sub> ultimate breaking capacity (O-CO cycle):

rating (A)	type	voltage (V)	breaking capacity I <sub>cu</sub> (A)
1...63	<b>1P</b>	240/415	6 000
	<b>2P</b>	415...480	6 000
	<b>3P</b>	415	6 000

## catalogue numbers



25804

type	rating (A)	catalogue number
------	------------	------------------

### C curve C60N

#### 1P



Width in mod of 9mm - 2

1	<b>25797</b>
2	<b>25798</b>
4	<b>25800</b>
6	<b>25801</b>
10	<b>25802</b>
16	<b>25803</b>
20	<b>25804</b>
25	<b>25805</b>
32	<b>25806</b>
40	<b>25807</b>
50	<b>25808</b>
63	<b>25809</b>

#### 2P



Width in mod of 9mm - 4

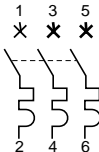
1	<b>25811</b>
2	<b>25812</b>
4	<b>25814</b>
6	<b>25815</b>
10	<b>25816</b>
16	<b>25817</b>
20	<b>25818</b>
25	<b>25819</b>
32	<b>25820</b>
40	<b>25821</b>
50	<b>25822</b>
63	<b>25823</b>

25818



25832

#### 3P



Width in mod of 9mm - 6

1	<b>25825</b>
2	<b>25826</b>
4	<b>25828</b>
6	<b>25829</b>
10	<b>25830</b>
16	<b>25831</b>
20	<b>25832</b>
25	<b>25833</b>
32	<b>25834</b>
40	<b>25835</b>
50	<b>25836</b>
63	<b>25837</b>

## protection

circuit-breakers up to 63 A

# C60H circuit-breakers

10kA, B, C and D curves

AS/NZS 4898



Approval No: N13634

## functions

The circuit-breakers combine the following functions:

- protection of circuits against short-circuit currents,
- protection of circuits against overload currents,
- control,

- isolation,
- protection of persons against indirect contact.

## description

### technical data common to C60H circuit-breakers

- power circuit
- voltage rating: 240/415 V AC
- breaking capacity
  - according to AS/NZS 4898,
  - lcv ultimate breaking capacity (O-CO cycle):

rating (A)	type	voltage (V)	break. cap. lcu (A)
1...63	<b>1P, 2P</b>	240/415	10 000
	<b>3P, 4P</b>	415...480	10 000

- I<sup>2</sup>t classification: 3
- foolproof terminal design
  - moving barrier prevents incorrect cable insertion
  - cable strand centering guides ensure correct cable positions and strand grouping
- isolation with positive contact indication
- bistable din clip, simplifies disassembly
- isolation with positive contact indication: opening is indicated by a green strip on the device operating handle. This indicator shows opening of all the poles
- number of cycles (O-C): 20 000

- environment
- tropicalisation: treatment 2 (relative humidity: 95 % at 55 °C)
- connection: tunnel terminals for the following cables:
  - up to 25A :16mm<sup>2</sup> flexible with cable end; 25mm<sup>2</sup> stranded
  - 32 to 63A :25mm<sup>2</sup> flexible with cable end; 35mm<sup>2</sup> stranded

## B curve

### utilisation

when there are small inrush currents (generators, long cables).

### technical data

- power circuit
- tripping curve: the magnetic trip units operate between 3 and 5 In.

## C curve

### utilisation

cables feeding conventional loads.

### technical data

- power circuit
- tripping curve: the magnetic trip units operate between 5 and 10 In.

## D curve

### utilisation

loads with a high inrush current (motors, transformers).

### technical data

- power circuit
- tripping curve: the magnetic trip units operate between 10 and 14 In.

**protection**

circuit-breakers up to 63 A

# C60H circuit-breakers

10kA, B, C and D curve  
AS/NZS 4898



Approval No: N13634

## catalogue numbers



25845







25857



25871



25883

type	rating (A)	B Curve	C Curve	D Curve
<b>C60H</b>				
1P 	1	<u>25839</u>	<u>25639</u>	<u>25695</u>
	2	<u>25840</u>	<u>25640</u>	<u>25696</u>
	4	<u>25841</u>	<u>25642</u>	<u>25698</u>
	6	<u>25842</u>	<u>25643</u>	<u>25699</u>
	10	<u>25843</u>	<u>25644</u>	<u>25700</u>
	16	<u>25844</u>	<u>25645</u>	<u>25701</u>
	20	<u>25845</u>	<u>25646</u>	<u>25702</u>
	25	<u>25846</u>	<u>25647</u>	<u>25703</u>
	32	<u>25847</u>	<u>25648</u>	<u>25704</u>
	40	<u>25848</u>	<u>25649</u>	<u>25705</u>
	50	<u>25849</u>	<u>25651</u>	<u>25707</u>
	63	<u>25850</u>	<u>25652</u>	<u>25708</u>
	2P 	1	<u>25852</u>	<u>25653</u>
2		<u>25853</u>	<u>25654</u>	<u>25710</u>
4		<u>25854</u>	<u>25656</u>	<u>25712</u>
6		<u>25855</u>	<u>25656</u>	<u>25713</u>
10		<u>25856</u>	<u>25658</u>	<u>25714</u>
16		<u>25857</u>	<u>25659</u>	<u>25715</u>
20		<u>25858</u>	<u>25660</u>	<u>25716</u>
25		<u>25859</u>	<u>25661</u>	<u>25717</u>
32		<u>25860</u>	<u>25662</u>	<u>25718</u>
40		<u>25861</u>	<u>25663</u>	<u>25719</u>
50		<u>25862</u>	<u>25665</u>	<u>25721</u>
63		<u>25863</u>	<u>25666</u>	<u>25722</u>
3P 		1	<u>25865</u>	<u>25667</u>
	2	<u>25866</u>	<u>25668</u>	<u>25724</u>
	4	<u>25867</u>	<u>25670</u>	<u>25726</u>
	6	<u>25868</u>	<u>25671</u>	<u>25727</u>
	10	<u>25869</u>	<u>25672</u>	<u>25728</u>
	16	<u>25870</u>	<u>25673</u>	<u>25729</u>
	20	<u>25871</u>	<u>25674</u>	<u>25730</u>
	25	<u>25872</u>	<u>25675</u>	<u>25731</u>
	32	<u>25873</u>	<u>25676</u>	<u>25732</u>
	40	<u>25874</u>	<u>25677</u>	<u>25733</u>
	50	<u>25875</u>	<u>25679</u>	<u>25735</u>
	63	<u>25876</u>	<u>25680</u>	<u>25736</u>
	4P 	1	<u>25878</u>	<u>25007</u>
2		<u>25879</u>	<u>25008</u>	<u>25212</u>
4		<u>25880</u>	<u>25010</u>	<u>25214</u>
6		<u>25881</u>	<u>25011</u>	<u>25215</u>
10		<u>25882</u>	<u>25012</u>	<u>25216</u>
16		<u>25883</u>	<u>25013</u>	<u>25217</u>
20		<u>25884</u>	<u>25014</u>	<u>25218</u>
25		<u>25885</u>	<u>25015</u>	<u>25219</u>
32		<u>25886</u>	<u>25016</u>	<u>25220</u>
40		<u>25887</u>	<u>25017</u>	<u>25221</u>
50		<u>25888</u>	<u>25018</u>	<u>25222</u>
63		<u>25889</u>	<u>25019</u>	<u>25223</u>

## protection

circuit breakers up to 125A

# C120N circuit-breakers

10kA, B, C curves - AS/NZS 4898

10kA, D curve AS 3947-2

## function

The circuit-breakers combine the following functions:

- protection of circuits against short circuit currents,
- protection of circuits against overload currents,
- control,

- isolation,
- protection of persons against indirect contact.

## description

### Technical data common to C120N circuit breakers

- power circuit
- current rating: 63 to 125 A
- voltage rating 415 V AC
- insulation voltage  $U_i$ : 500 V
- impulse withstand voltage  $U_{imp}$ : 6 kV
- breaking capacity:
  - according to AS/NZS 4898 Icu ultimate breaking capacity (O-CO cycle)

type	voltage (V)	breaking cap. Icu (A)
<b>1, 2, 3, 4P</b>	240/415	10000

- according to AS3947-2 Icu ultimate breaking capacity (O-CO cycle)

type	voltage (V)	breaking cap. Icu (kA)
<b>1P</b>	240	10
	415	3
<b>2, 3, 4P</b>	400...415	10

- mechanical durability:
  - 20000 cycles (O-C)
- electrical durability:
  - 63 A: 10000 cycles (O-C)
  - 80...125 A: 5000 cycles (O-C)
- $I^2t$  classification: 3
- isolation with positive contact indication: opening is indicated by a green strip on the device operating handle. This indicator shows opening of all the poles
- foolproof terminal design
  - moving barrier prevents incorrect cable insertion
  - cable strand centering guides ensure correct cable positions and strand grouping
- bistable din clip: simplifies disassembly
- 63 to 125A:
  - up to 35mm<sup>2</sup> flexible with cable end
  - up to 50mm<sup>2</sup> stranded

## B curve



Approval No:Q00542

### utilisation

when there are small inrush currents (generators, long cables).

### technical data

- power circuit
- tripping curve: the magnetic trip units operate between 3 and 5 In.

## C curve



Approval No:Q00542

### utilisation

cables feeding conventional loads.

### technical data

- power circuit
- tripping curve: the magnetic trip units operate between 5 and 10 In.

## D curve - For industrial use only

### utilisation

loads with a high inrush current (motors, transformers).

### technical data








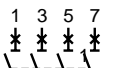
- power circuit
- tripping curve: the magnetic trip units operate between 10 and 14 In.

# C120N circuit-breakers

10kA, B, C curves - AS/NZS 4898

10kA, D curve AS 3947-2

## catalogue numbers

type	rating (A)	B Curve	C Curve	D Curve
<b>B curve C120N</b>				
 <p>1P</p> <p>1</p>  <p>2</p>	63	<b>18340</b>	<b>18356</b>	<b>18378</b>
	80	<b>18341</b>	<b>18357</b>	<b>18379</b>
	100	<b>18342</b>	<b>18358</b>	<b>18380</b>
	125	<b>18343</b>	<b>18359</b>	<b>18381</b>
	Width in mod of 9mm - 3			
 <p>2P</p> <p>1 3</p>  <p>2 4</p>	63	<b>18344</b>	<b>18360</b>	<b>18382</b>
	80	<b>18345</b>	<b>18361</b>	<b>18383</b>
	100	<b>18346</b>	<b>18362</b>	<b>18384</b>
	125	<b>18347</b>	<b>18363</b>	<b>18385</b>
	Width in mod of 9mm - 6			
 <p>3P</p> <p>1 3 5</p>  <p>2 4 6</p>	63	<b>18348</b>	<b>18364</b>	<b>18386</b>
	80	<b>18349</b>	<b>18365</b>	<b>18387</b>
	100	<b>18350</b>	<b>18367</b>	<b>18388</b>
	125	<b>18351</b>	<b>18369</b>	<b>18389</b>
	Width in mod of 9mm - 9			
 <p>4P</p> <p>1 3 5 7</p>  <p>2 4 6 8</p>	63	<b>18352</b>	<b>18371</b>	<b>18390</b>
	80	<b>18353</b>	<b>18372</b>	<b>18391</b>
	100	<b>18354</b>	<b>18374</b>	<b>18392</b>
	25	<b>18355</b>	<b>18377</b>	<b>18393</b>
	Width in mod of 9mm - 12			