



Product designation	Power contactor		
Product type designation	B115		
<b>Contact characteristics</b>			
Number of poles	Nr.	4	
Rated insulation voltage Ui IEC/EN	V	1000	
Rated impulse withstand voltage Uimp	kV	8	
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		A	160
Operational current Ie			
	AC-1 ( $\leq 40^{\circ}\text{C}$ )	A	160
	AC-1 ( $\leq 55^{\circ}\text{C}$ )	A	150
	AC-1 ( $\leq 70^{\circ}\text{C}$ )	A	110
	AC-3 ( $\leq 440\text{V} \leq 55^{\circ}\text{C}$ )	A	110
	AC-4 (400V)	A	47
Rated operational power AC-1 ( $T \leq 40^{\circ}\text{C}$ )			
	230V	kW	57
	400V	kW	98
	500V	kW	129
	690V	kW	173
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 1 poles in series			
	75V	A	160
	110V	A	100
	220V	A	—
	330V	A	—
	460V	A	—
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 2 poles in series			
	75V	A	160
	110V	A	130
	220V	A	100
	330V	A	—
	460V	A	—
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 3 poles in series			
	75V	A	160
	110V	A	130
	220V	A	130
	330V	A	100
	460V	A	—
IEC max current Ie in DC1 with $L/R \leq 1\text{ms}$ with 4 poles in series			
	75V	A	160
	110V	A	130
	220V	A	130
	330V	A	130
	460V	A	100

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 1 poles in series

75V	A	140
110V	A	70
220V	A	—
330V	A	—
460V	A	—

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 2 poles in series

75V	A	140
110V	A	100
220V	A	80
330V	A	—
460V	A	—

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 3 poles in series

75V	A	140
110V	A	120
220V	A	100
330V	A	80
460V	A	—

IEC max current  $I_e$  in DC3-DC5 with  $L/R \leq 15\text{ms}$  with 4 poles in series

75V	A	140
110V	A	120
220V	A	120
330V	A	120
460V	A	80

Short-time allowable current for 10s (IEC/EN60947-1) A 1100

Protection fuse

gG (IEC)	A	200
aM (IEC)	A	125

Making capacity (RMS value) A 1300

Breaking capacity at voltage

440V	A	1300
500V	A	1100
690V	A	880

Resistance per pole (average value) m? 0.3

Power dissipation per pole (average value)

I <sub>th</sub>	W	7.7
AC3	W	4

Tightening torque for terminals

min	Nm	10
max	Nm	10
min	lbin	7.4
max	lbin	7.4

Max number of wires simultaneously connectable Nr. 2

Conductor section

AWG/Kcmil	max	2/0
Power terminal protection according to IEC/EN 60529		IP00

Mechanical features

Operating position

normal allowable	Vertical plan ±30°
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Fixing

Screw
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Weight

g 6250
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Conductor section

AWG/kcmil conductor section

max 2/0

**Operations**

Mechanical life

cycles 10000000

Electrical life

cycles 1100000

**Safety related data**

Performance level B10d according to EN/ISO 13489-1

rated load	cycles	1100000
mechanical load	cycles	10000000

Mirror contacts according to IEC/EN 609474-4-1

yes

EMC compatibility

yes

**AC coil operating**

Rated AC voltage at 50/60Hz

V 48

AC operating voltage

of 50/60Hz coil powered at 50Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

of 50/60Hz coil powered at 60Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

of 60Hz coil powered at 60Hz  
pick-up

min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz

in-rush	VA	300
holding	VA	10

of 50/60Hz coil powered at 60Hz

in-rush	VA	300
holding	VA	10

Dissipation at holding ≤20°C 50Hz

W 10

**DC coil operating**

DC rated control voltage

V 48

DC operating voltage

pick-up

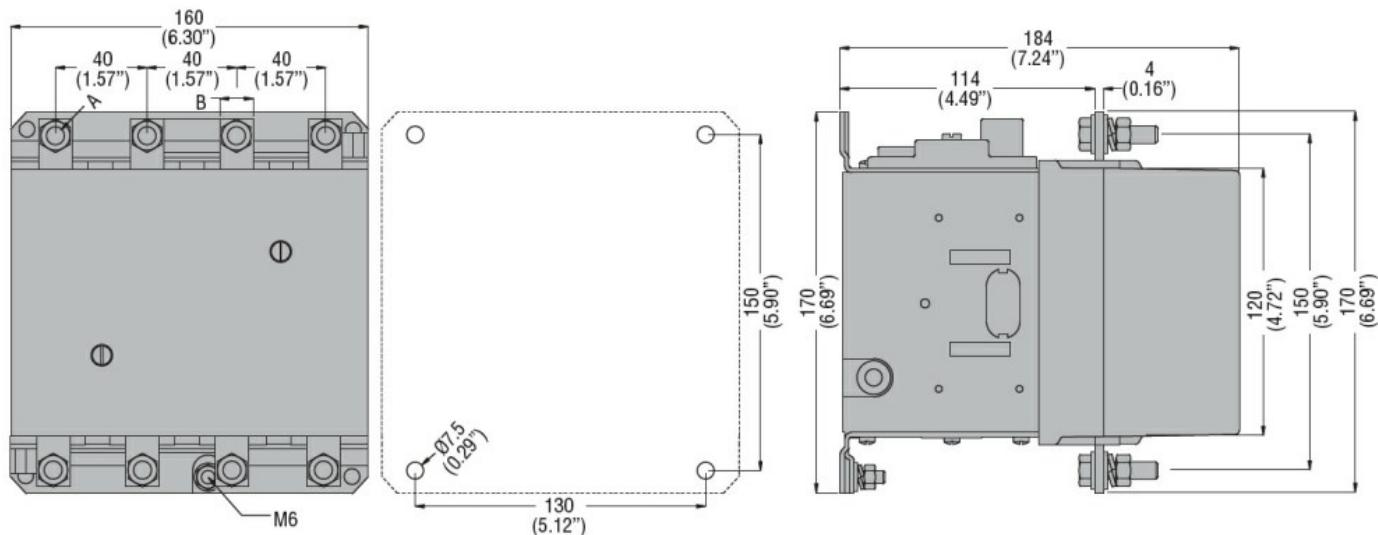
min	%Us	80
max	%Us	110

drop-out

min	%Us	20
max	%Us	60

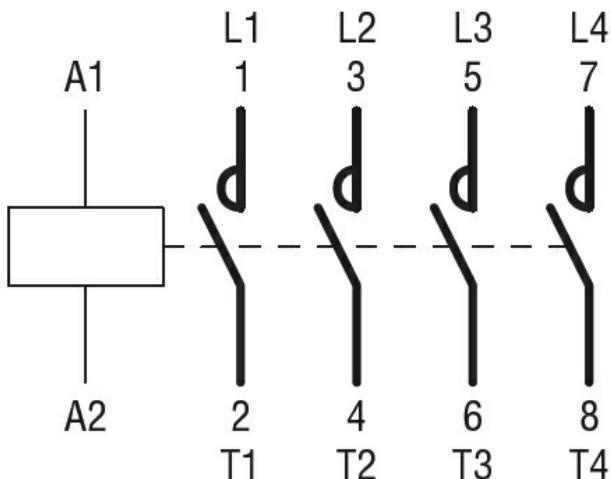
Average coil consumption ≤20°C

		in-rush	W	300
		holding	W	10
<b>Max cycles frequency</b>				
<b>Mechanical operation</b>			cycles/h	2400
<b>Operating times</b>				
Average time for Us control				
in AC				
Closing NO		min	ms	60
		max	ms	100
Opening NO		min	ms	25
		max	ms	60
in DC				
Closing NO		min	ms	60
		max	ms	100
Opening NO		min	ms	25
		max	ms	60
<b>UL technical data</b>				
Full-load current (FLA) for three-phase AC motor				
	at 480V	A	96	
	at 600V	A	99	
<b>Yielded mechanical performance</b>				
for three-phase AC motor				
	200/208V	HP	30	
	220/230V	HP	40	
	460/480V	HP	75	
	575/600V	HP	100	
<b>General USE</b>				
Contactor				
	AC current	A	160	
<b>Short-circuit protection fuse, 600V</b>				
Standard fault				
	Short circuit current	kA	5	
	Fuse rating	A	500	
	Fuse class		RK5	
<b>Ambient conditions</b>				
<b>Temperature</b>				
Operating temperature		min	°C	-50
		max	°C	70
Storage temperature		min	°C	-60
		max	°C	80
<b>Max altitude</b>			m	3000
<b>Resistance &amp; Protection</b>				
<b>Pollution degree</b>				3
<b>Dimensions</b>				



CONTACTOR TYPE	A	B
B115	M6	15 (0.59")
B145	M8	20 (0.79")
B180	M8	20 (0.79")

#### Wiring diagrams



#### Certifications and compliance

##### Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN 60947-1

IEC/EN 60947-4-1

UL 60947-1

UL 60947-4-1

##### Certificates

CCC

cULus

EAC

#### ETIM classification

##### ETIM 8.0

EC000066 -  
Power contactor,  
AC switching