

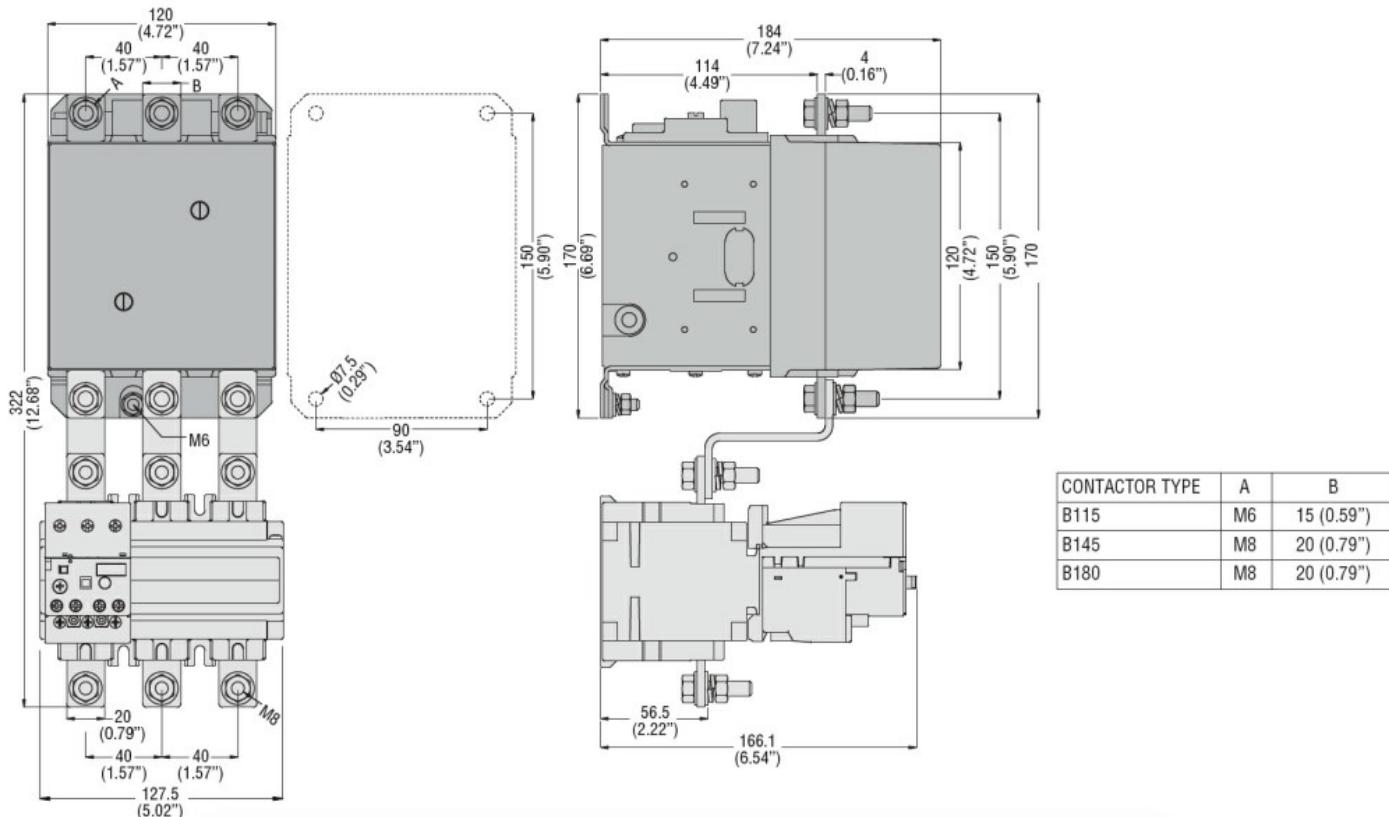


Product designation	Power contactor		
Product type designation	B115		
<b>Contact characteristics</b>			
Number of poles	Nr. 3		
Rated insulation voltage $Ui$ IEC/EN	V 1000		
Rated impulse withstand voltage $U_{imp}$	kV 8		
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current $I_{th}$	A 160		
Operational current $Ie$			
	AC-1 ( $\leq 40^\circ C$ )	A	160
	AC-1 ( $\leq 55^\circ C$ )	A	150
	AC-1 ( $\leq 70^\circ C$ )	A	110
	AC-3 ( $\leq 440V \leq 55^\circ C$ )	A	110
	AC-4 (400V)	A	47
Rated operational power AC-3 ( $T \leq 55^\circ C$ )	400V	kW	61
Rated operational power AC-1 ( $T \leq 40^\circ C$ )	230V	kW	57
	400V	kW	98
	500V	kW	129
	690V	kW	173
IEC max current $Ie$ in DC1 with $L/R \leq 1ms$ with 1 poles in series	75V	A	160
	110V	A	100
	220V	A	—
	330V	A	—
	460V	A	—
IEC max current $Ie$ in DC1 with $L/R \leq 1ms$ 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 $L/R \leq 1ms$ 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 $L/R \leq 1ms$ with 4 poles in series	75V	A	160
	110V	A	130
	220V	A	130

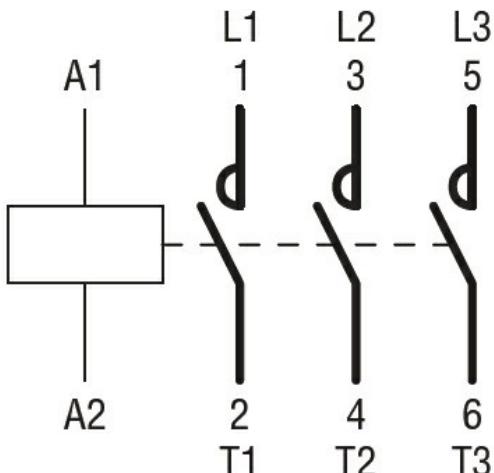
	330V	A	130
	460V	A	100
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	A	140
	110V	A	70
	220V	A	—
	330V	A	—
	460V	A	—
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	A	140
	110V	A	100
	220V	A	80
	330V	A	—
	460V	A	—
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	A	140
	110V	A	120
	220V	A	100
	330V	A	80
	460V	A	—
IEC max current le in DC3-DC5 with L/R ≤ 15ms 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)			mΩ 0.3
Power dissipation per pole (average value)			
	I <sub>th</sub>	W	7.7
	AC-3	W	4
Tightening torque for terminals			
	min	Nm	10
	max	Nm	10
	min	Ibin	7.4
	max	Ibin	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°

Fixing		Screw
Weight	g	5290
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, 60Hz	min V	110
	max V	125
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	min V	110
	max V	125
DC operating voltage		
pick-up	min %Us	80
	max %Us	110

drop-out	min	%Us	20
	max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$			
	in-rush	W	300
	holding	W	10
<b>Max cycles frequency</b>			
Mechanical operation		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>			
Rated operational voltage AC (UL)		V	600
Full-load current (FLA) for three-phase AC motor			
	at 480V	A	96
	at 600V	A	99
Yielded mechanical performance			
for three-phase AC motor			
	200/208V	HP	30
	220/230V	HP	40
	575/600V	HP	100
General USE			
Contactor			
	AC current	A	160
Short-circuit protection fuse, 600V			
Standard fault			
	Short circuit current	kA	5
	Fuse rating	A	500
	Fuse class		RK5
<b>Ambient conditions</b>			
Temperature			
Operating temperature			
	min	$^{\circ}\text{C}$	-50
	max	$^{\circ}\text{C}$	70
Storage temperature			
	min	$^{\circ}\text{C}$	-60
	max	$^{\circ}\text{C}$	80
Max altitude		m	3000
<b>Resistance &amp; Protection</b>			
Pollution degree			3
<b>Dimensions</b>			



### 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