



Product designation	Power contactor		
Product type designation	B115		
Contact characteristics			
Number of poles	Nr. 3		
Rated insulation voltage U_i 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 I_e			
	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 I_e 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 I_e 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 I_e 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 I_e 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)			m? 0.3
Power dissipation per pole (average value)			
	I _{th}	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°

Fixing		Screw
Weight	g	6
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, 60Hz	min	V 220
	max	V 240
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 220
	max	V 240
DC operating voltage		

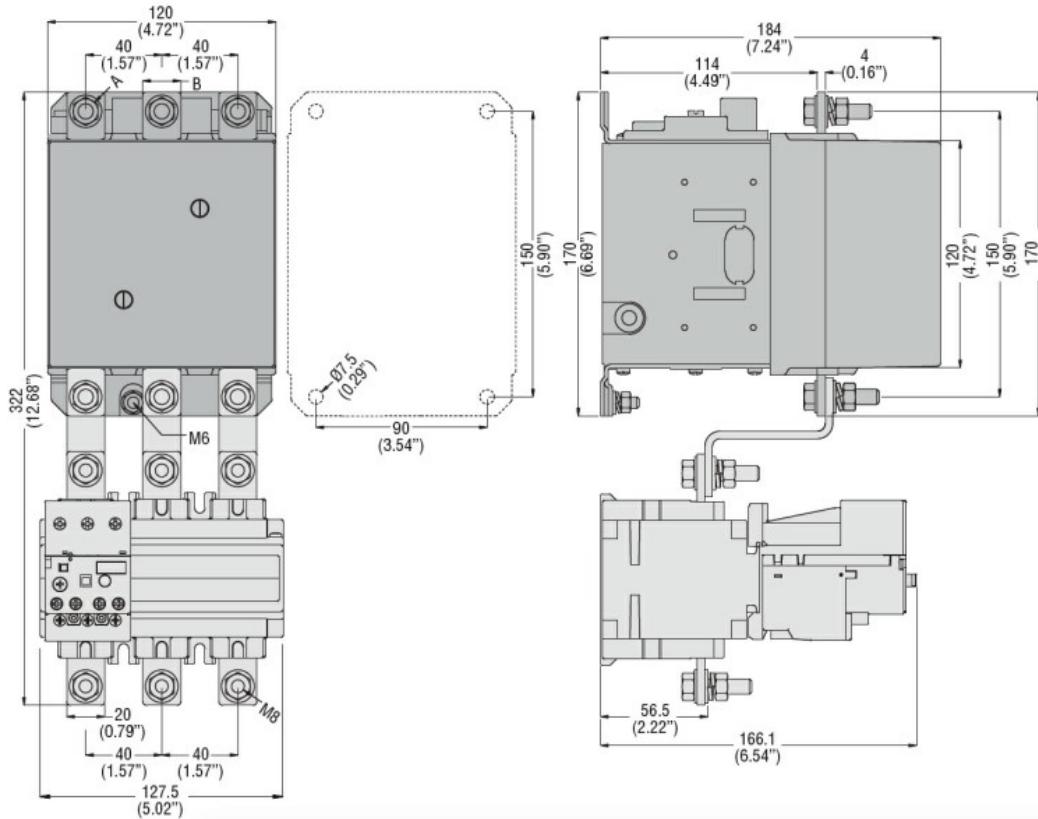
pick-up	min	%Us	80
	max	%Us	110
drop-out	min	%Us	20
	max	%Us	60
Average coil consumption $\leq 20^{\circ}\text{C}$			
	in-rush	W	300
	holding	W	10
Max cycles frequency			
Mechanical operation		cycles/h	2400
Operating times			
Average time for Us control			
in AC			
Closing NO	min	ms	60
	max	ms	100
Opening 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
UL technical data			
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
	460/480V	HP	75
	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
Ambient conditions			
Temperature			
Operating temperature			
	min	°C	-50
	max	°C	70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude			
		m	3000

Resistance & Protection

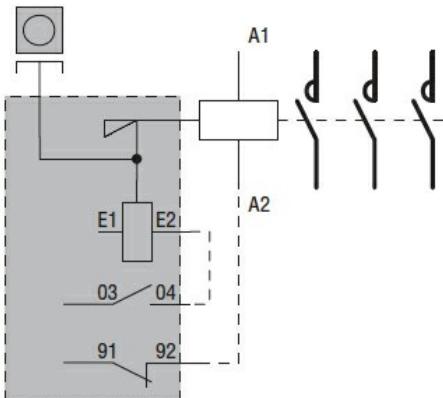
Pollution degree

3

Dimensions



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