

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC



Product designation		Power contactor
Product type designation Contact characteristics		B180
Number of poles	Nr.	3
Rated insulation voltage Ui IEC/EN	V	1000
Rated impulse withstand voltage Uimp	v kV	8
Operational frequency	IX V	
min	Hz	25
max	Hz	400
EC Conventional free air thermal current Ith	Α	275
Operational current le		
AC-1 (≤40°C)	Α	275
AC-1 (≤55°C)	Α	250
AC-1 (≤70°C)	Α	200
AC-3 (≤440V ≤55°C)	Α	185
AC-4 (400V)	Α	65
Rated operational power AC-3 (T≤55°C)		
230V	kW	57
400V	kW	100
415V	kW	108
440V	kW	115
500V	kW	123
690V	kW	144
1000V	kW	103
Rated operational power AC-1 (T≤40°C)		
230V	kW	95
400V	kW	160
500V	kW	213
690V	kW	298
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series		
75V	Α	260
110V	A	120
220V	A	_
330V	A	_
460V	A	_
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	۸	260
75V	A	260
110V 220V	A	170 150
330V	A A	150
460V	A	_
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	A	_
FC max current le in DCT with L/R \(\sime\) mis with 3 poles in series  75V	۸	260
75V 110V	A A	170
220V	A	170
	<i>-</i> ~	170



11B18000110

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

	330V	Α	150
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	260
	110V	A	170
	220V	Α	170
	330V	A	170
150 DOS DOS WILLIAM WILLIAM IN A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	460V	Α	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	180
	110V	Α	90
	220V	Α	_
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	75V	Α	180
	110V	A	140
	220V	A	100
	330V	A	_
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	180
	110V	Α	160
	220V	Α	140
	330V	Α	100
	460V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
120 max current to in 200-200 with E/N = 10m3 with 4 poles in series	75V	Α	180
	110V	A	160
	220V	Α	160
	330V	Α	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	Α	315
	aM (IEC)	Α	200
Making capacity (RMS value)	·	Α	1850
Breaking capacity at voltage			
Disaming supusity at voltage	440V	Α	1850
	500V	A	1600
Position and the second of	690V	Α	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC-3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
		lbin	13.3
Tightoning targue for soil terminal	max	וווטו	13.3
Tightening torque for coil terminal			,
	min	Nm	1
	max	Nm	1



## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

		min	lbin	0.74
	<del></del>	max	Ibin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		300 kcmil
-	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5380
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1000000
Safety related data				
•	0d according to EN/ISO 13489-1			
	<b>3</b>	rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1		0,0.00	yes
EMC compatibility	19 10 12 67 214 000 17 1 1 1			yes
AC coil operating				yes
Rated AC voltage at 5	0/60Hz 60Hz			
Nated AC voltage at 3	0/00112, 00112	min	V	110
			V	125
AC operating voltage	_	max	V	123
AC operating voltage	of EO/GOUZ goil nowared at EOUZ			
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	0/116	00
		min	%Us	80
	dram acut	max	%Us	110
	drop-out	*.	0/11-	20
		min	%Us	20
	at 50/001  - asili as a salat 2011	max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			00
		•	0/11	80
		min	%Us	
		min max	%Us %Us	110
	drop-out	max	%Us	110
	drop-out	max min	%Us %Us	110 20
		max	%Us	110
	drop-out of 60Hz coil powered at 60Hz	max min	%Us %Us	110 20
		max min	%Us %Us	110 20
	of 60Hz coil powered at 60Hz	max min	%Us %Us	110 20
	of 60Hz coil powered at 60Hz	max min max	%Us %Us %Us	110 20 60
	of 60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	of 60Hz coil powered at 60Hz pick-up	max min max min	%Us %Us %Us	110 20 60 80
	of 60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

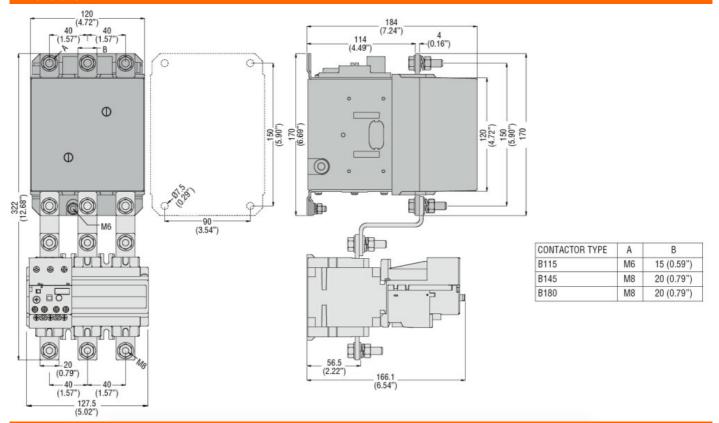
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil power	red at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding ≤	≦20°C 50Hz			W	10
DC coil operating					
DC rated control voltag	je				
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				_
			min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operation				cycles/h	2400
Operating times					
Average time for Us co	ntrol				<u> </u>
	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 mo	otor			
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe					
	for three-phase AC m	otor			
			200/208V	HP	60
			220/230V	HP	75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500

**ENERGY AND AUTOMATION** 

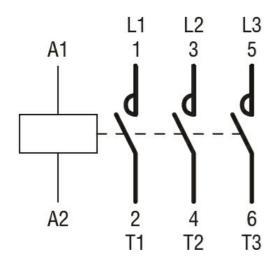
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

		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 & Protect	tion			
Pollution degree				3
Dimensions				

## Dimensions



### Wiring diagrams



## Certifications and compliance



### 11B18000110

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 110...125VAC/DC

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