THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

**ENERGY AND AUTOMATION** 220...240VDC



Product designation			Power contactor
Product type designation			B180
Contact characteristics			
Number of poles		Nr.	3
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		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)	400)/		400
D. ( 1 (7 (1000)	400V	kW	100
Rated operational power AC-1 (T≤40°C)	0001/		0.5
	230V	kW	95
	400V	kW	160
	500V	kW	213
IFC may ourrent to in DC1 with L/D < 1 mg with 1 pales in series	690V	kW	298
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series	75\/	۸	200
	75V 110V	A	260 120
	220V	A A	120
	330V	A	<del>-</del>
	460V	A	_
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	400 V		
120 max current le in 201 with 2/1 3 mis with 2 poles in series	75V	Α	260
	110V	A	170
	220V	A	150
	330V	A	_
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	1001		
person	75V	Α	260
	110V	Α	170
	220V	Α	170
	330V	Α	150
	460V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	<u> </u>		
·	75V	Α	260
	110V	Α	170
	220V	Α	170

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	330V	Α	170
	460V	Α	150
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
<b>'</b>	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			
120 max carrent to in 200 200 mar 2/11 = 10 me mar 2 person in certos	75V	Α	180
	110V	Α	140
	220V	A	100
	330V	A	_
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	400 V		_
TEC max current le in DC3-DC5 with L/R \( \) Toms with 3 poles in series	751	۸	400
	75V	A	180
	110V	A	160
	220V	A	140
	330V	Α	100
	460V	A	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	180
	110V	Α	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			
	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)	090 V	mΩ	0.3
		11177	0.3
Power dissipation per pole (average value)	I.L.	147	00.0
	Ith	W	20.3
<del></del>	AC-3	W	9.7
Tightening torque for terminals	_		
	min	Nm	18
	max	Nm	18
	min	lbin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	Ibin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
, to O/Rollin	max		300 kcmil
	Παλ		JOO ROTTIII

The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and 11B180L00220C220 functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH 220...240VDC

**ENERGY AND AUTOMATION** 

Power terminal protection according to IEC/EN 60529			IP00
Mechanical features			
Operating position			
	normal		Vertical plan
	allowable		±30°
Fixing			Screw
Weight		g	6120
Conductor section			
AWG/kcmil conductor section			
	max		300 kcmil
Operations			
Mechanical life		cycles	1000000
Electrical life		cycles	1000000
Safety related data			
Performance level B10d according to EN/ISO 13489-1		_	
	rated load	cycles	1000000
	mechanical load	cycles	10000000
Mirror contats according to IEC/EN 609474-4-1			yes
EMC compatibility			yes
AC coil operating			
Rated AC voltage at 50/60Hz, 60Hz			000
	min	V	220
A C	max	V	240
AC operating voltage			
of 50/60Hz coil powered at 50Hz			
pick-up		0/116	0.0
	min	%Us	80
drap out	max	%Us	110
drop-out	min	%Us	20
	min	%Us	60
of 50/60Hz coil powered at 60Hz	max	/008	00
pick-up			
ріск-ир	min	%Us	80
		%Us	110
drop-out	max	/0US	110
αιορ-out	min	%Us	20
	max	%Us	60
of 60Hz coil powered at 60Hz	IIIdX	/005	00
pick-up			
ρισκ-αρ	min	%Us	80
	max	%Us	110
drop-out	IIIdX	/003	110
αιορ-σαι	min	%Us	20
	max	%Us	60
AC average coil consumption at 20°C	Παλ	,,,,,	
of 50/60Hz coil powered at 50Hz			
01 30/001 12 0011 powered at 301 12	in-rush	VA	300
	holding	VA	10
of 50/60Hz coil powered at 60Hz	Holding	V/\	10
01 30/001 12 0011 powered at 001 12	in-rush	VA	300
	holding	VA	10
	HUIUHIU	v /1	10

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THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, electric ALREADY FITTED WITH MECHANICAL LATCH (G495), 220...240VAC/DC, MECHANICAL LATCH

ENERGY AND AUTOMATION 220...240VDC

DC coil operating				
DC rated control voltage	ne			
20 rated control voltage	<b>,∼</b>	min	V	220
		max	V	240
DC operating voltage		IIIdA	v	
_ J operating voltage	pick-up			
	plott up	min	%Us	80
		max	%Us	110
	drop-out			<del>-</del>
	•	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	ontrol			
	in AC			
	Closing NO			
		min	ms	60
		max	ms	100
	Opening NO			0.5
		min	ms	25
		max	ms	60
	in DC			
	Closing NO		ms	60
		min	ms	60 100
	Opening NO	max	ms	100
	Opening NO	min	ms	25
		max	ms	60
UL technical data		IIIdx	1113	00
	for three-phase AC motor			
1044 0411011t (1 L/1)	.s. s. so pridos rio motor	at 480V	Α	180
		at 600V	Α	144
Yielded mechanical pe	erformance			
, , , , , , , , , , , , , , , , , , , ,	for three-phase AC motor			
	·	200/208V	HP	60
		220/230V	HP	75
		575/600V	HP	150
General USE				
	Contactor			
		AC current	Α	275
Short-circuit protection	fuse, 600V	<del></del>	· <u> </u>	
	Standard fault			
		Short circuit current	kA	10
		Fuse rating	Α	500
		Fuse class		RK5
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70

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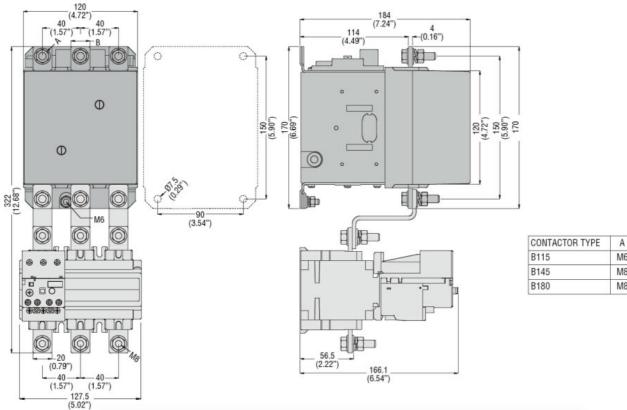
**ENERGY AND AUTOMATION** 

220...240VDC

Storage temperature				
	min	°C	-60	
	max	°C	80	
Max altitude		m	3000	
Resistance & Protection				

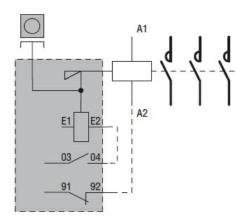
Pollution degree

#### **Dimensions**



CONTACTOR TYPE	Α	В
B115	M6	15 (0.59")
B145	M8	20 (0.79")
R180	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

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**ENERGY AND AUTOMATION** 220...240VDC

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching