



Product designation			Power contactor
Product type designation Contact characteristics			B180
		Nr.	3
Number of poles Rated insulation voltage Ui IEC/EN		V	<u> </u>
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ĸv	0
Operational nequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	Παλ	A	275
Operational current le		~	215
	AC-1 (=40°C)	А	275
	AC-1 (=55°C)	A	250
	AC-1 (=70°C)	A	200
	AC-3 (=440V =55°C)	A	185
	AC-4 (400V)	A	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
IEC max current le in DC1 with L/R = 1ms with 1 poles in series			
	75V	А	260
	110V	А	120
	220V	А	-
	330V	А	-
	460V	A	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
	75V	A	260
	110V	A	170
	220V	A	150
	330V	A	_
	460V	A	_
IEC max current le in DC1 with L/R = 1ms with 3 poles in series	7614		000
	75V	A	260
	110V	A	170
	220V	А	170



**11B1800024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 24VAC/DC

	330V	А	150
	460V	A	_
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	А	260
	110V	А	170
	220V	А	170
	330V	А	170
	460V	А	150
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series			
	75V	А	180
	110V	А	90
	220V	А	_
	330V	А	_
	460V	Α	-
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series			
	75V	А	180
	110V	А	140
	220V	А	100
	330V	А	-
	460V	А	-
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series			
	75V	А	180
	110V	А	160
	220V	А	140
	330V	А	100
	460V	А	-
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	75V	А	180
	110V	А	160
	220V	А	160
	330V	А	160
	460V	Α	100
Short-time allowable current for 10s (IEC/EN60947-1)		А	1500
Protection fuse			
	gG (IEC)	А	315
	aM (IEC)	А	200
Making capacity (RMS value)		А	1850
Breaking capacity at voltage			
	440V	А	1850
	500V	А	1600
	690V	А	1480
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)			
	Ith	W	20.3
	AC3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	Ibin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1

11B1800024



## **11B1800024** THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 24VAC/DC

		min	lbin Ibin	0.74
Max number of wires s	simultaneously connectable	max	Nr.	0.74
Conductor section			INI.	2
	AWG/Kcmil			
		max		300 kcmil
	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal allowable		Vertical plan ±30°
Fixing				Screw
Weight			g	5450
Conductor section				
	AWG/kcmil conductor section			
o		max		300 kcmil
Operations			ovalas	10000000
Mechanical life Electrical life			cycles cycles	10000000 1000000
Safety related data			cycles	100000
	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	10000000
Mirror contats accordi	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz		V	24
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up	min	%Us	80
		min max	%Us %Us	110
	drop-out	IIIdA	/003	110
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out		0/11-	20
		min	%Us	20
	of 60Hz coil powered at 60Hz	max	%Us	60
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
			%Us	60
		max	,	
AC average coil consu		max	,	
AC average coil consu	umption at 20°C of 50/60Hz coil powered at 50Hz			
AC average coil consu		in-rush holding	VA VA	300 10

11B1800024



	of 50/60Hz coil powe	ered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	=20°C 50Hz			W	10
DC coil operating					
	20			V	24
DC rated control voltage	Je			V	24
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
			min	%Us	20
			max	%Us	60
Average coil consump	tion =20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					-
				cycles/h	2400
Mechanical operation				cycles/n	2400
Operating times					
Average time for Us co					
	in AC				
		Closing NO			
		5	min	ms	60
					100
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC				
		Closing NO			
		clocking ite	min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
JL technical data					
	for three-phase AC m	otor			
un-ioau current (FLA)	nor unee-phase AC III		- 1 1001		100
			at 480V	A	180
			at 600V	Α	144
Yielded mechanical pe	erformance				
	for three-phase AC n	notor			
			200/208V	HP	60
			200/208V 220/230V		
				HP	75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	А	275
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	А	500
			Fuse class		RK5
Ambient conditions					
Temperature	•				
	Operating temperatu	ro			

Operating temperature

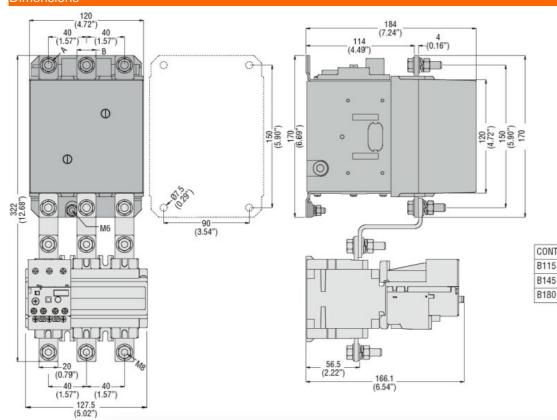
11B1800024



THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 24VAC/DC

	min max	°C °C	-50 70
Storage temperature			
	min	°C	-60
	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3

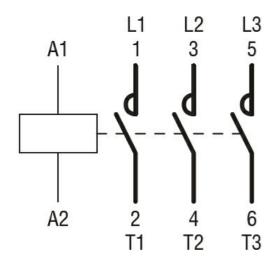
**Dimensions** 



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

11B1800024

<u>Wiring</u> diagrams



## Certifications and compliance

CSA C22.2 n° 60947-1		
CSA C22.2 n° 60947-4-1		
IEC/EN 60947-1		

11B1800024

Compliance

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



	IEC/EN 60947-4-1	
	UL 60947-1	
	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -

ETIM 8.0

EC000066 -Power contactor, AC switching