



Product designation			Power contactor
Product type designation Contact characteristics			B180
Number of poles		nr.	4
Rated insulation voltage Ui		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operating frequency		ιτν	0
oporating inequency	Operational frequency min	Hz	25
	Operational frequency max	Hz	400
Conventional free air thermal current Ith		Α	275
Operating current			
	Operational current AC1 (≤40°C)	А	275
	Operational current AC3 (≤440V ≤55°C)	А	185
	Operational current AC4 (400V)	А	65
Rated operational power AC1 (T≤40°C)			
	230V	kW	95
	400V	kW	160
	500V	kW	213
	690V	kW	298
Rated operational power AC3 (T≤55°C)			
	230V	kW	57
	400V	kW	100
	415V	kW	708
	440V	kW	115
	500V	kW	123
	690V	kW	144
	1000V	kW	103
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1500
Protection fuse			
	gG (IEC)	А	315
	aM (IEC)	A	200
Making capacity (RMS value)		A	1850
Breaking capacity at voltage			
	Breaking capacity 440V	А	1850
	Breaking capacity 500V	A	1600
	Breaking capacity 690V	A	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)			
	Power dissipation pole (average value) Ith	W	20.3
	AC3	W	9.7
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	lbft	13.3
	max	lbft	13.3



ENERGY AND AUTOMATION

	simultaneously connectable		nr.	2
Conductor section				
	AWG			
		max		300 kcmil
	tion according to IEC/EN 60529			IP00
Auxiliary contact chara	acteristics			
Operational current AC	C1 (≤40°C)		А	275
Operating current DC1	13			
		110V	А	Screw
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°Č	80
Max altitude			m	3000
Operating position				
		normal		Vertical plan
		allowable		±30°
Vounting				Screw
Weight			0	6.38
Operations			g	0.30
Mechanical life			Cycles	10000000
Electrical life			Cycles	1000000
			Cycles	1000000
Safety related data				
	Od according to EN/ISO 12490 1			
	0d according to EN/ISO 13489-1	and a disc of	Qieli	4000000
	0d according to EN/ISO 13489-1	rated load	Cicli	1000000
Performance level B10		rated load mechanical load	Cicli Cicli	1000000
Performance level B10 Mirror contats accordin	0d according to EN/ISO 13489-1 ng to IEC/EN 609474-4-1			10000000 yes
Performance level B10 Mirror contats accordin EMC compatibility				1000000
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating				10000000 yes
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1			10000000 yes
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz			10000000 yes
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1	mechanical load	Cicli	10000000 yes yes
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cicli %Us	10000000 yes yes 0.8
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cicli	10000000 yes yes
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz	mechanical load	Cicli %Us %Us	10000000 yes yes 0.8 1.1
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load	Cicli %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load	Cicli %Us %Us	10000000 yes yes 0.8 1.1
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up	mechanical load min max min	Cicli %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out	mechanical load min max min	Cicli %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min	Cicli %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max	Cicli %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	mechanical load min max min max min max	Cicli %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cicli %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max	Cicli %Us %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cicli %Us %Us %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cicli %Us %Us %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2
Performance level B10 Mirror contats accordin EMC compatibility AC coil operating AC operating voltage	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	mechanical load min max min max min max min max	Cicli %Us %Us %Us %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2 0.6
Performance level B10	ng to IEC/EN 609474-4-1 of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	mechanical load min max min max min max min max	Cicli %Us %Us %Us %Us %Us %Us %Us	10000000 yes yes 0.8 1.1 0.2 0.6 0.8 1.1 0.2

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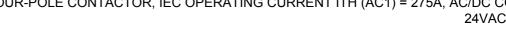


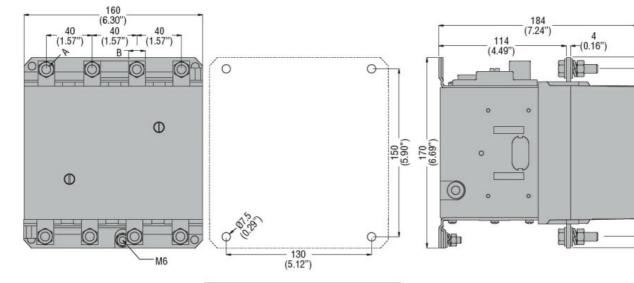
**11B18040024** FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 24VAC/DC

			in-rush	VA	300
			holding	VA	10
Dissipation at holding	≤20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
			min	V	24
DC operating voltage					
	pick-up				
			min	%Us	0.8
			max	%Us	1.10
	drop-out				
			min	%Us	0.2
			max	%Us	0.60
Average coil consuption	on ≤20°C				
			in-rush	W	300
			holding	W	10
Max cycles frequency					
Mechanical operations				Cycles/ł	2400
Operating times				5,000/1	. 2100
Average time for Us co	ontrol				
Average and for 03 co	in AC				
	III AO	Closing NO			
		Closing NO	min	ms	60
					100
			max	ms	100
		Opening NO	min	<b>m</b> o	25
				ms	60
	in DC		max	ms	00
	IN DC				
		Closing NO	min		60
			min	ms	60
			max	ms	100
		Opening NO			05
			min	ms	25
III technical data			max	ms	60
UL technical data	for three shares A	C motor			
Full-load current (FLA)	for three-phase A	C motor	-1 400)/	٨	400
			at 480V	A	180
Violded as a barder			at 600V	A	144
Yielded mechanical pe		0			
	for three-phase /	au motor			00
			at 200/208V	hp	60
			at 220/230V	hp	75
			at 460/480V	hp	150
<u> </u>			at 575/600V	hp	150
General USE					
	Contactor			_	
			AC current	A	275
Other features					
Pollution degree					3
Dimensions					



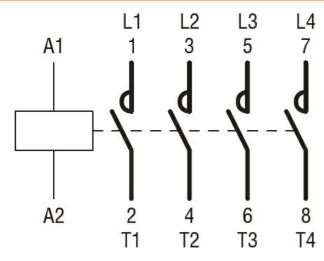
11B18040024 FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 275A, AC/DC COIL, 24VAC/DC





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

Wiring diagrams



## Certifications and compliance

Certifications	
	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
Compliance	
	000
	cULus
	EAC
FTIM 6 classification	

EC000066 - Power contactor, AC switching



120 (4.72") 150 (5.90") (6.69")