THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, **electric** ALREADY FITTED WITH MECHANICAL LATCH (G495), 380...415VAC/DC, MECHANICAL LATCH 380...415VAC

ENERGY AND AUTOMATION



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	-
	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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ENERGY AND AUTOMATION

380...415VAC

	330V	Α	170
	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	Α	140
	220V	Α	100
	330V	Α	_
	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			
	75V	Α	180
	110V	A	160
	220V	Α	160
	330V	Α	160
	460V	A	100
Short-time allowable current for 10s (IEC/EN60947-1)		A	1500
Protection fuse		,,	1000
1 Toto Guori Tube	gG (IEC)	Α	315
	aM (IEC)	A	200
Making capacity (RMS value)	aw (ILO)		1850
Breaking capacity at voltage			1030
breaking capacity at voltage	440\/	۸	1850
	440V	A	
	500V 690V	A	1600
Desistance normale (average value)	090 V	A	1480
Resistance per pole (average value)		mΩ	0.3
Power dissipation per pole (average value)	Tel.	101	00.0
	Ith	W	20.3
	AC-3	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
	min	Ibin	0.74
	max	Ibin	0.74
Max number of wires simultaneously connectable		Nr.	2
Conductor section			
AWG/Kcmil			
			0001 !!

300 kcmil

max

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, electric already fitted with Mechanical Latch (G495), 380...415VAC/DC, Mechanical Latch 380...415VAC

Power terminal protection according to IEC/EN 60529 IP00 Mechanical features Operating position Vertical plan normal allowable ±30° Fixing Screw Weight 6100 g **Operations** Mechanical life 10000000 cycles Electrical life 1000000 cycles Safety related data Performance level B10d according to EN/ISO 13489-1 rated load 1000000 cycles mechanical load 10000000 cycles Mirror contats according to IEC/EN 609474-4-1 Yes **EMC** compatibility yes AC coil operating Rated AC voltage at 50/60Hz, 60Hz ٧ min 380 ٧ 415 max AC operating voltage of 50/60Hz coil powered at 50Hz pick-up %Us 80 min %Us 110 max drop-out %Us 20 min max %Us 60 of 50/60Hz coil powered at 60Hz pick-up %Us 80 min max %Us 110 drop-out %Us 20 min %Us max 60 of 60Hz coil powered at 60Hz pick-up min %Us 80 %Us 110 max drop-out %Us 20 min %Us 60 max AC average coil consumption at 20°C of 50/60Hz coil powered at 50Hz 300 in-rush VA 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 ٧ 380

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ENERGY AND AUTOMATION

380...415VAC

			max	V	415
DC operating voltage					
	pick-up			0/11-	00
			min max	%Us %Us	80 110
	drop-out		IIIax	/003	110
	drop out		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
			in-rush	W	300
May avalag fragues			holding	W	10
Max cycles frequency Mechanical operation				cycles/h	2400
Operating times				Cycles/II	2400
Average time for Us co	ontrol				
ŭ	in AC				
		Closing NO			
			min	ms	60
		Omasilia NO	max	ms	100
		Opening NO	min	me	25
			max	ms ms	60
	in DC		max	1113	
	2 3	Closing NO			
		· ·	min	ms	60
			max	ms	100
		Opening NO			0.5
			min	ms	25 60
UL technical data			max	ms	00
Rated operational volta	age AC (UL)			V	600
Full-load current (FLA)		otor			
			at 480V	Α	180
			at 600V	Α	144
Yielded mechanical pe					
	for three-phase AC n	notor	200/2001	UD	60
			200/208V 220/230V	HP HP	60 75
			575/600V	HP	150
General USE					
	Contactor				
			AC current	Α	275
Short-circuit protection					
	Standard fault		Chart sinsuit seems of	LΛ	10
			Short circuit current Fuse rating	kA A	10 500
			Fuse class	^	RK5
Ambient conditions			. 400 0,400		
Temperature					
	Operating temperature	re			
			min	°C	-50
	01		max	°C	70
	Storage temperature		min	°C	-60
			111111		00

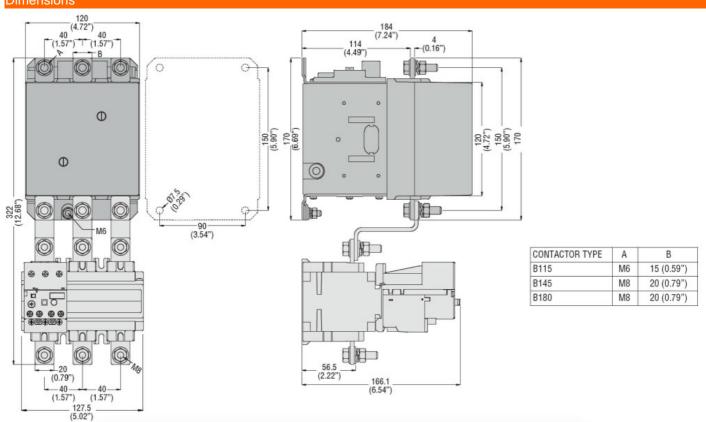


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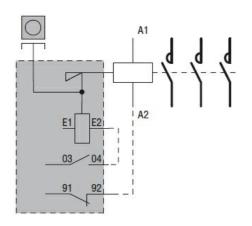
ENERGY AND AUTOMATION

380...415VAC

	max	°C	80
Max altitude		m	3000
Resistance & Protection			
Pollution degree			3
Dimonsions			



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

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ETIM classification

EAC

ETIM 8.0

EC000066 -Power contactor, AC switching