

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 185A, AC/DC COIL, 220...240VAC/DC



Product type designation	Product designation			Power contactor
Number of poles	, , , , , , , , , , , , , , , , , , ,			B180
Rated insulation voltage Ui IEC/EN				
Rated impulse withstand voltage Uimp	·			
Propertional frequency				
Min			KV	8
EC Conventional free air thermal current Ith	Operational frequency			0.5
Conventional free air thermal current lth				
AC-1 (=40°C)	IFC Conventional free air thermal aurrent lib	max		
AC-1 (=40°C)			A	213
AC-1 (=55°C)	Operational current le	AC 1 (-40°C)	۸	275
AC-1 (=70°C)				
AC-3 (=440V =55°C)				
Rated operational power AC-3 (T=55°C)		` ,		
Rated operational power AC-3 (T=55°C)		,		
230V kW 57 440V kW 100 415V kW 108 440V kW 115 550V kW 123 690V kW 144 1000V kW 103 100	Rated operational power AC-3 (T=55°C)	AO-4 (400V)		
A00V kW 100	rated operational power 710 0 (1 00 0)	230\/	k\/\/	57
A15V kW 108 440V kW 115 500V kW 123 690V kW 124 1000V kW 103 1000V kW 160 500V kW 213 690V kW 298 1000V				
A440V KW 115 500V kW 123 690V kW 144 1000V kW 103 1000V kW 103 1000V kW 103 1000V kW 103 1000V kW 104 1000V kW 160 1000V 1				
Soov kW 123 690V kW 144 1000V kW 103 1000V kW 160 1000V kW 160 1000V kW 160 1000V kW 160 1000V kW 100 1000V kW 1000V 1000V				
Rated operational power AC-1 (T=40°C) Rated operational power AC-1 (T=40°C) 230V kW 95 4400V kW 160 500V kW 213 690V kW 298 298 EC max current le in DC1 with L/R = 1ms with 1 poles in series 75V A 260 110V A 120 220V A - 460V A - 460V A - 460V A 170 220V A 150 330V A - 460V A 4 460V A - 460V A 4 460V A 4 4 4 4 4 4 4 4 4				
Rated operational power AC-1 (T=40°C) 230V kW 95 400V kW 160 500V kW 213 690V kW 298 280				
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 A 260 110V A 120 220V A - 330V A - 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 170 220V A 170 220V A 150 330V A - 460V A - IEC max current le in DC1 with L/R = 1ms with 3 poles in series				
230V kW 95 400V kW 160 500V kW 213 690V kW 298 28 28 28 28 28 28	Rated operational power AC-1 (T=40°C)			-
Head of the series Head of	, ,	230V	kW	95
EC max current le in DC1 with L/R = 1ms with 1 poles in series 75V				
IEC max current le in DC1 with L/R = 1ms with 1 poles in series		500V	kW	
75V		690V	kW	298
110V	IEC max current le in DC1 with L/R = 1ms with 1 poles in series			
220V		75V	Α	260
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		110V	Α	120
Section Sect		220V	Α	_
IEC max current le in DC1 with L/R = 1ms with 2 poles in series		330V	Α	_
75V		460V	Α	_
	IEC max current le in DC1 with L/R = 1ms with 2 poles in series			
220V A 150 330V A - 460V A -			Α	260
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			Α	
$\frac{460 \text{V}}{\text{IEC max current le in DC1 with L/R = 1ms with 3 poles in series}} \frac{460 \text{V}}{110 \text{V}} \frac{\text{A}}{\text{A}} = \frac{-260}{110 \text{V}} = \frac{-260}{110}$				150
IEC max current le in DC1 with L/R = 1ms with 3 poles in series 75V A 260 110V A 170				_
75V A 260 110V A 170		460V	Α	
110V A 170	IEC max current le in DC1 with L/R = 1ms with 3 poles in series			
220V A 170				
		220V	Α	170



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	330V	Α	150
	460V	Α	_
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
	75V	Α	260
	110V	Α	170
	220V	Α	170
	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	100 v	- , ,	
120 max current to in 500 500 with 511 = 10m3 with 2 poics in school	75V	Α	180
	110V	A	140
	220V	A	100
	330V	A	
			_
IFO are a consent to in DOO DOE with 1/D. After with 0 and a in action	460V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series	75)		100
	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	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			
g cap acong c	440V	Α	1850
	500V	Α	1600
	690V	Α	1480
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)			0.0
1 onos albaipation por poro (average value)	Ith	W	20.3
	AC3	W	9.7
Tightening torque for terminals	AUS	V V	3.1
riginaling torque for terminals		Nice	10
	min	Nm Nm	18
	max	Nm	18
	min	lbin	13.3
	max	lbin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



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		min	Ibin	0.74
		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	5340
Conductor section				
	AWG/kcmil conductor section			
		max		300 kcmil
Operations				100000
Mechanical life			cycles	1000000
Electrical life			cycles	1000000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	1000000
		mechanical load	cycles	10000000
	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 5	0/60Hz, 60Hz			
		min	V	220
		max	V	240
AC operating voltage				
	of 50/60Hz coil powered at 50Hz			
	pick-up			
		min	%Us	80
			0/. I Ic	110
		max	%Us	110
	drop-out			
	drop-out	min	%Us	20
	of 50/60Hz coil powered at 60Hz	min	%Us	20
		min max	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us	20 60 80
	of 50/60Hz coil powered at 60Hz pick-up	min max	%Us %Us	20 60
	of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max	%Us %Us %Us %Us	20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min	%Us %Us %Us %Us %Us	20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up drop-out	min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	min max min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us	20 60 80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



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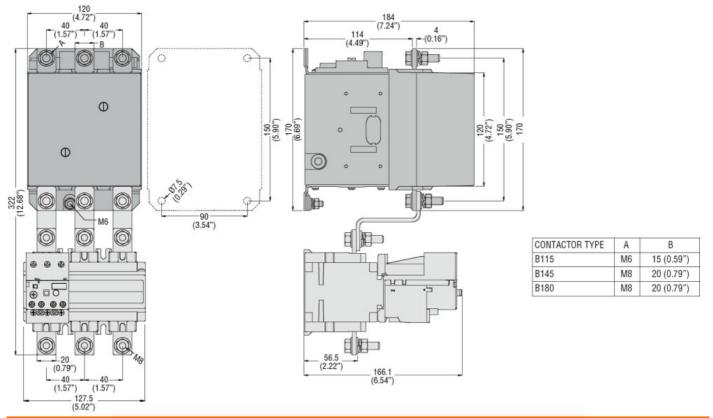
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pow	vered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	=20°C 50Hz			W	10
DC coil operating					
DC rated control voltage	ge				
•	,		min	V	220
			max	V	240
DC operating voltage					
5 1/ 1 11 9 1 11 9 1	pick-up				
	p.o up		min	%Us	80
			max	%Us	110
	drop-out			,,,,,	
	5.0p Jul		min	%Us	20
			max	%Us	60
Average coil consump	tion =20°C		max	,,,,,	-
, wordgo oon oonsump			in-rush	W	300
			holding	W	10
Max cycles frequency			noluling	V V	10
Mechanical operation				cycles/h	2400
Operating times				Cycles/II	2400
	entrol				
Average time for Us co					
	in AC	Ola aira a NO			
		Closing NO			00
			min	ms	60
		On anima NO	max	ms	100
		Opening NO			0.5
			min	ms	25
	. 50		max	ms	60
	in DC	01 1 110			
		Closing NO			00
			min	ms	60
		0-212210	max	ms	100
		Opening NO			0.5
			min	ms	25
III taalaa'aa laba			max	ms	60
UL technical data	for the second second				
Full-load current (FLA)	tor three-phase AC i	motor		_	400
			at 480V	A	180
			at 600V	Α	144
Yielded mechanical pe					
	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					
	Standard fault				
			Short circuit current	kA	10
			Fuse rating	Α	500

ENERGY AND AUTOMATION

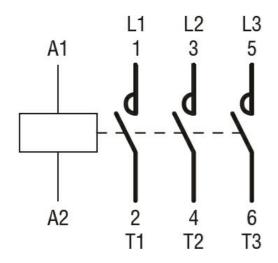
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		Fuse class		RK5
		ruse ciass		KNO
Ambient conditions				
Temperature				
•	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protect	tion			
Pollution degree				3

Dimensions



Wiring diagrams



Certifications and compliance



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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

CCC

CULus

ETIM classification

EAC

ETIM 8.0

Certificates

EC000066 -Power contactor, AC switching