

# THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC



Product designation		Power contactor
Product type designation		B145
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	250
Operational current le		
AC-1 (=40°C)	Α	250
AC-1 (=55°C)	Α	235
AC-1 (=70°C)	Α	190
AC-3 (=440V =55°C)	Α	150
AC-4 (400V)	Α	57
Rated operational power AC-3 (T=55°C)		
230V	kW	46
400V	kW	80
415V	kW	88
440V	kW	93
500V	kW	100
690V	kW	120
1000V	kW	75
Rated operational power AC-1 (T=40°C)		•
230V	kW	91
400V	kW	150
500V	kW	196
690V	kW	270
IEC max current le in DC1 with L/R = 1ms with 1 poles in series		•••
75V	A	220
110V	A	110
220V	A	_
330V	A	_
460V	A	
IEC max current le in DC1 with L/R = 1ms with 2 poles in series	۸	000
75V	A	220
110V	A	150
220V	A	130
330V	A	_
460V	A	
IEC max current le in DC1 with L/R = 1ms with 3 poles in series	Λ	220
75V	A	220
110V	A	150
220V	Α	150



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	330V	Α	130
	460V	Α	_
IEC max current le in DC1 with L/R = 1ms with 4 poles in series			
<b>'</b>	75V	Α	220
	110V	Α	150
	220V	Α	150
	330V	Α	150
	460V	Α	130
IEC max current le in DC3-DC5 with L/R = 15ms with 1 poles in series		,,	
TEO Max outlone to in 200 200 with 210 = Tomo with 1 poloo in conco	75V	Α	160
	110V	A	80
	220V	A	_
	330V	A	_
IFO was a summer to be DOO DOO with 1/D. After a with 0 males in a said	460V	Α	
IEC max current le in DC3-DC5 with L/R = 15ms with 2 poles in series	751		400
	75V	A	160
	110V	Α	120
	220V	Α	90
	330V	Α	_
	460V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 3 poles in series			
	75V	Α	160
	110V	Α	140
	220V	Α	120
	330V	Α	90
	460V	Α	_
IEC max current le in DC3-DC5 with L/R = 15ms with 4 poles in series			
	75V	Α	160
	110V	Α	140
	220V	Α	140
	330V	Α	140
	460V	Α	90
Short-time allowable current for 10s (IEC/EN60947-1)		Α	1300
Protection fuse			
1 Totalion Tube	gG (IEC)	Α	250
	aM (IEC)	A	160
Making capacity (RMS value)	aivi (ILC)		1500
		Α	1300
Breaking capacity at voltage	4.40\/	٨	1500
	440V	A	1500
	500V	A	1400
	690V	Α	1200
Resistance per pole (average value)		m?	0.3
Power dissipation per pole (average value)			
	Ith	W	14.5
	AC3	W	6.8
Tightening torque for terminals			
	min	Nm	18
	max	Nm	18
	min	Ibin	13.3
	max	lbin	13.3
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	11167		•



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		min	lbin	0.74
		max	Ibin	0.74
Max number of wires s	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		4/0
Power terminal protect	tion according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	5420
Conductor section				
	AWG/kcmil conductor section			
		max		4/0
Operations				
Mechanical life			cycles	10000000
Electrical life			cycles	1100000
Safety related data			3,5100	
-	0d according to EN/ISO 13489-1			
1 Groffianoc level DTC	od doording to Environ 10-100 1	rated load	cycles	1100000
		mechanical load	cycles	1000000
Mirror contate according	ng to IEC/EN 609474-4-1	medianidai idad	Cycles	
	19 10 120/211 0034/4-4-1			yes
EMC compatibility				yes
AC coil operating	0/001  - 001  -			
Rated AC voltage at 50	0/6002, 6002		\ /	440
		min	V	110
A O (1)			\ /	405
AC operating voltage		max	V	125
op s.ag volkage	(50/001)	max	V	125
	of 50/60Hz coil powered at 50Hz	max	V	125
speraming voltage	of 50/60Hz coil powered at 50Hz pick-up			
The second second	•	min	%Us	80
The second second	pick-up			
	•	min max	%Us %Us	80 110
	pick-up	min max min	%Us %Us %Us	80 110 20
	pick-up drop-out	min max	%Us %Us	80 110
The second second	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us	80 110 20
The second second	pick-up drop-out	min max min	%Us %Us %Us %Us	80 110 20 60
To a contract of the contract	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min	%Us %Us %Us %Us	80 110 20
To Specially vollage	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max	%Us %Us %Us %Us	80 110 20 60
To a position of the second of	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	min max min max min	%Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min	%Us %Us %Us %Us	80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min max	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min	%Us %Us %Us %Us %Us	80 110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out  of 60Hz coil powered at 60Hz pick-up	min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out  of 60Hz coil powered at 60Hz pick-up	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us	80 110 20 60 80 110 20 60

AC average coil consumption at 20°C

of 50/60Hz coil powered at 50Hz



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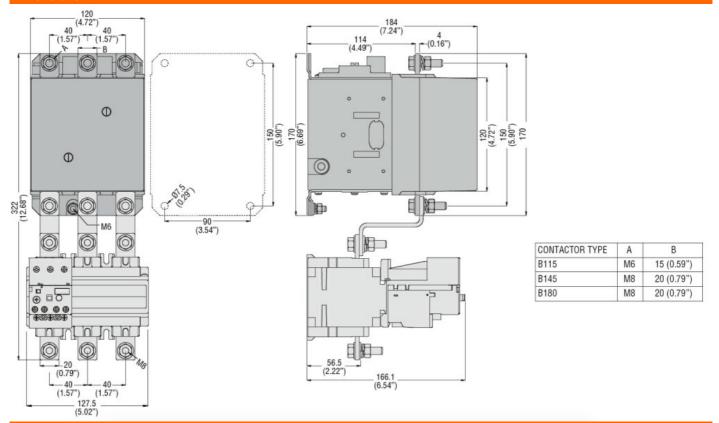
			in-rush	VA	300
			holding	VA	10
	of 50/60Hz coil pow	rered at 60Hz			
			in-rush	VA	300
			holding	VA	10
Dissipation at holding	–20°C 50∐-z		Holding	W	10
	-20 C 30HZ			VV	10
DC coil operating					
DC rated control voltage	ge				
			min	V	110
			max	V	125
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out		· · · · · · · · · · · · · · · · · · ·	7000	
	arop out		min	%Us	20
			min		
	·· 0000		max	%Us	60
Average coil consump	otion =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				
Avorago umo for co o	in AC				
	III AO	Closing NO			
		Closing NO			00
			min	ms	60
			max	ms	100
		Opening NO			
			min	ms	25
			max	ms	60
	in DC				
		Closing NO			
		· ·	min	ms	60
			max	ms	100
		Opening NO	max	5	
		Cpoining 140	min	ms	25
					60
UL technical data			max	ms	UU
	A familiar and the A familiar an				
Full-load current (FLA)	) for three-phase AC r	ΠΟ(ΟΓ		-	
			at 480V	Α	124
-			at 600V	Α	125
Yielded mechanical pe	erformance				
	for three-phase AC	motor			
	-		200/208V	HP	50
			220/230V	HP	50
			575/600V	HP	125
General USE			0101000V		
Johnson UUL	Contactor				
	Contactor		* ~	Α.	050
			AC current	Α	250
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	5
			Fuse rating	Α	500

**ENERGY AND AUTOMATION** 

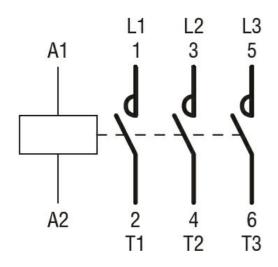
## THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 150A, AC/DC COIL, 110...125VAC/DC

		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



### 11B14500110

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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

Certificates

CCC cULus EAC

ETIM classification

ETIM 8.0 EC000066 Power contactor,
AC switching