



Product designation			Power contactor B630
Product type designation  Contact characteristics			D030
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	1000
Rated impulse withstand voltage Uimp		kV	8
Operational frequency		ΚV	0
Operational frequency	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith	max	A	800
Operational current le			000
operational current te	AC-1 (≤40°C)	Α	800
	AC-1 (≤55°C)	A	640
	AC-1 (≤70°C)	A	540
	AC-3 (≤440V ≤55°C)	A	630
	AC-4 (400V)	A	260
Rated operational power AC-3 (T≤55°C)	7.O + (+00V)		200
Trated operational power 70-0 (1200 0)	230V	kW	198
	400V	kW	355
	415V	kW	368
	440V	kW	368
	500V	kW	368
	690V	kW	440
	1000V	kW	368
Rated operational power AC-1 (T≤40°C)			
( - 10 C)	230V	kW	288
	400V	kW	500
	500V	kW	655
	690V	kW	860
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
•	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	Α	
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
·	75V	Α	800
	110V	Α	800
	220V	Α	800



	330V	Α	700
	460V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	750
	460V	Α	700
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
	75V	Α	800
	110V	Α	460
	220V	Α	
	330V	Α	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
, , , , , , , , , , , , , , , , , , , ,	75V	Α	800
	110V	Α	800
	220V	Α	700
	330V	A	
	460V	Α	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	100 V	- , ,	
TEO HILL OUT OF THE DOO DOO WILL ETT = TOTAL WILL O POICE IT SOLICE	75V	Α	800
	110V	A	800
	220V	A	800
	330V	A	650
	460V	A	
IFC may current to in DC2 DC5 with L/D < 15mg with 4 poles in series	400 V	^	<b></b>
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series	75\/	۸	900
	75V 110V	A	800
		A	800
	220V	A	800
	330V	A	650
Chart time allowable assured for 400 (IEC/ENCO047.4)	460V	A	700
Short-time allowable current for 10s (IEC/EN60947-1)		Α	5040
Protection fuse	0 ((=0)		4000
	gG (IEC)	A	1000
	aM (IEC)	Α	630
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage		_	
	440V	Α	6300
	500V	Α	5600
	690V	A	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
	Ith	W	90
	AC-3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1



		min	lbin	0.74
		max	lbin	0.74
Max number of wires	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
		max		2x 600 kcmil
	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position		normal		Vertical plan
		allowable		±30°
Fixing		anowasio		Screw
Weight			g	1836
Operations			9	
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	0d according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
	ng to IEC/EN 609474-4-1			Yes
EMC compatibility				yes
AC coil operating	10/0011			
Rated AC voltage at 5	60/60Hz, 60Hz			
		min	V	220
AC operating voltage		max	V	240
AC operating voltage	of 50/60Hz coil powered at 50Hz			
	of 30/00112 coll powered at 30112			
	•			
	pick-up	min	%Us	80
	•	min max	%Us %Us	80 110
	pick-up	min max	%Us %Us	80 110
	•			
	pick-up	max	%Us	110
	pick-up	max min	%Us %Us	110 20
	pick-up drop-out	max min max	%Us %Us %Us	110 20 60
	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min	%Us %Us %Us	110 20 60 80
	of 50/60Hz coil powered at 60Hz pick-up	max min max	%Us %Us %Us	110 20 60
	pick-up  drop-out  of 50/60Hz coil powered at 60Hz	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	max min max min max min max	%Us %Us %Us %Us %Us	110 20 60 80 110 20
	of 50/60Hz coil powered at 60Hz pick-up	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out	max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us	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	max min max min max min max min max	%Us %Us %Us %Us %Us %Us	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 %Us %Us	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	%Us	110 20 60 80 110 20 60 80 110 20
AC average coil consi	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out  of 60Hz coil powered at 60Hz pick-up  drop-out	min max min max min max min max min max	%Us %Us %Us %Us %Us %Us %Us %Us %Us	110 20 60 80 110 20 60
AC average coil consi	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out  of 60Hz coil powered at 60Hz pick-up  drop-out	min max	%Us	110 20 60 80 110 20 60 80 110 20
AC average coil const	of 50/60Hz coil powered at 60Hz pick-up  drop-out  drop-out  of 60Hz coil powered at 60Hz pick-up  drop-out	min max	%Us	110 20 60 80 110 20 60 80 110 20



			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≤20°C 50Hz			W	18
DC coil operating					
DC rated control voltage	je				
			min	V	220
			max	V	240
DC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out				
	·		min	%Us	20
			max	%Us	60
Average coil consumpt	tion ≤20°C				
<b>5</b>	-		in-rush	W	400
			holding	W	18
Max cycles frequency					
Mechanical operation				cycles/h	1200
Operating times				5,5100/11	. = 0
Average time for Us co	nntrol				
Average uniterest 00 00	in AC				
	III AO	Closing NO			
		Closing NO	min	ms	110
			max	ms	180
		Opening NO	IIIAX	1113	100
		Opening NO	min	ms	60
			max	ms	100
	in DC		IIIax	1113	100
	III DC	Closing NO			
		Closing NO	min	<b></b> .	110
			min	ms	110
		Opening NO	max	ms	180
		Opening NO	min	<b></b> .	60
			min	ms	60
III. tachnical data			max	ms	100
UL technical data	A O (LIL)			\/	000
Rated operational volta	age AC (UL)			V	600
General USE	Contact				
	Contactor		10	Δ.	000
Chart singuit a cotton	f COOV		AC current	A	800
Short-circuit protection					
	Standard fault				4.0
			Short circuit current	kA	18
			Fuse rating	Α	1500
A 11 ( 111			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature				
			min	°C	-50
			max	°C	70
	Storage temperature				_
			min	°C	-60
			max	°C	80
Max altitude				m	3000

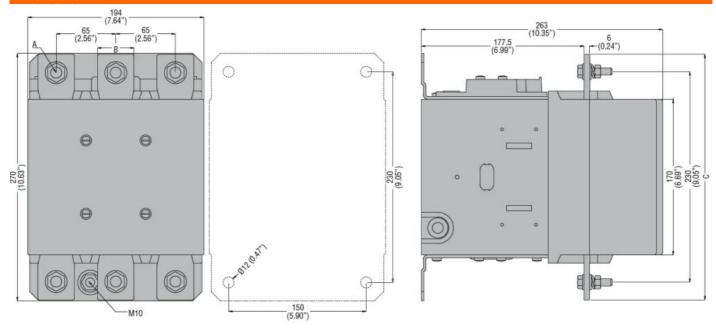
**ENERGY AND AUTOMATION** 

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 630A, AC/DC COIL, 220...240VAC/DC

### Resistance & Protection

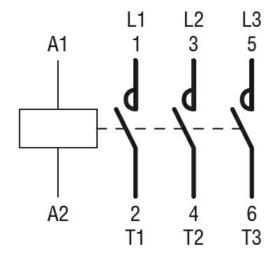
Pollution degree 3

### **Dimensions**



CONTACTOR TYPE	A	В	С
B500	M10	35 (1.38")	265 (10.43")
B630	M12	40 (1.57")	270 (10.63")

### 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

cULus

EAC





ETIM classification

**ETIM 8.0** 

EC000066 -Power contactor, AC switching