



Contact characteristics  Number of poles  Rated insulation voltage Ui IEC/EN  Rated impulse withstand voltage Uimp  V 1000  Rated impulse withstand voltage Uimp  kV 8  Operational frequency  min Hz 25 max Hz 400	Product designation Product type designation			Power contactor B630
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 lth         A         800           Operational current le         AC-1 (≤40°C)         A         800           AC-1 (≤57°C)         A         640         AC-2 (≤440V ≤55°C)         A         630           AC-4 (400V)         A         260         AC-3 (≤440V ≤55°C)         A         630         AC-4 (400V)         A         260           Rated operational power AC-1 (T≤40°C)         230V         kW         288         400V         kW         500           BC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         75V         A         800         800           110V         A         800         110V         A         800           12C max current le in DC1 with L/R ≤ 1ms with 2 poles in series         75V         A         800           110V         A         800         220V         A         700           330V         A          460V         A				
Rated impulse withstand voltage Uimp   RV   8	Number of poles		Nr.	4
Rated impulse withstand voltage Ulimp	·		V	1000
Operational frequency         min max         Hz by 400           IEC Conventional free air thermal current lth         A 800           Operational current le         AC-1 (≤40°C)         A 800           AC-1 (≤55°C)         A 640           AC-1 (≤70°C)         A 540           AC-3 (≤4400 ≤55°C)         A 630           AC-3 (≤4400 ≤55°C)         A 630           AC-4 (4000)         A 260           Rated operational power AC-1 (T≤40°C)         230V kW 288           400V kW 500         500V kW 655           690V kW 860         60           IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series         75V A 800           110V A 460         220V A -           330V A -         460V A -           1EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series         75V A 800           110V A 800         220V A 700           330V A -         460V A -           1EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series         75V A 800           110V A 800         330V A 700           460V A -         460V A -           1EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series         75V A 800           110V A 800         330V A 700           460V A 700         460V A 700			kV	8
Min				
IEC Conventional free air thermal current Ith		min	Hz	25
IEC Conventional free air thermal current Ith				
Operational current le       AC-1 (≤40°C) A 640 AC-1 (≤55°C) A 640 AC-1 (≤55°C) A 640 AC-1 (≤70°C) A 540 AC-1 (≤70°C) A 540 AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260         Rated operational power AC-1 (T≤40°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 A 800 110V A 460 220V A - 330V A - 460V A - 310V A 800 220V A 700 330V A - 460V A - 310V A 800 220V A 700 330V A - 460V A - 310V A 800 220V A 700 330V A - 460V A - 310V A 800 220V A 800 330V A - 310V A 800 330V A 700 460V A - 310V A 800 330V A 750	IEC Conventional free air thermal current Ith		Α	
AC-1 (≤40°C)	Operational current le			
AC-1 (S55°C)	'	AC-1 (≤40°C)	Α	800
AC-1 (≤70°C) A 540 AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260  Rated operational power AC-1 (T≤40°C)  230V kW 288 400V kW 500 500V kW 860  IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series  75V A 800 110V A 460 220V A 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 800 110V A 800 220V A IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		· · ·		
AC-3 (≤440V ≤55°C) A 630 AC-4 (400V) A 260  Rated operational power AC-1 (T≤40°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 A 800 110V A 460 220V A 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 110V A 800 220V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		,		
AC-4 (400V)				
Rated operational power AC-1 (T≤40°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 A 800 110V A 460 220V A 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 700 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 110V A 800 220V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series		,		
230V   kW   288   400V   kW   500   500V   kW   655   690V   kW   860        EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   75V   A   800   110V   A   460   220V   A   -   460V   A   -      EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   75V   A   800   110V   A   800   220V   A   700   330V   A   -   460V   A   -      EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   75V   A   800   110V   A   800   220V   A   700   330V   A   -     460V   A   -        EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   75V   A   800   220V   A   800   330V   A   700   460V   A   -        EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series   75V   A   800   330V   A   700   460V   A   -        EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series   75V   A   800   330V   A   700   460V   A   -        EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series   75V   A   800   330V   A   700   460V   A   -	Rated operational power AC-1 (T≤40°C)			
400	(	230V	kW	288
EC max current le in DC1 with L/R ≤ 1ms with 1 poles in series   75				
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    75				
75V	IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
110V		75V	Α	800
330V				
EC max current le in DC1 with L/R ≤ 1ms with 2 poles in series   75V				
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series  75V A 800 110V A 800 220V A 700 330V A 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 800 220V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 330V A 750 460V A				
T5V   A   800   110V   A   800   220V   A   700   330V   A     460V   A     460V   A       120V   A   800   110V   A   800   110V   A   800   220V   A   800   220V   A   800   330V   A   700   460V   A       120V   A   800   110V   A   800   330V   A   700   460V   A       110V   A   800   110V   A   800   110V   A   800   220V   A   800   330V   A   750   330V   A   750	IFC max current le in DC1 with L/R ≤ 1ms with 2 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	The max can one to in 201 man 2/11 - time man 2 police in conice	75V	Α	800
330V   A     460V   A				
EC max current le in DC1 with L/R ≤ 1ms with 3 poles in series   75V				
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series  75V A 800 110V A 800 220V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 110V A 800 110V A 800 220V A 800 330V A 750				
T5V A 800 110V A 800 220V A 800 330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  T5V A 800 110V A 800 220V A 800 220V A 800 330V A 750	IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	San Sin to in B S 1 mai Ent = 1110 mai o polos in solito	75\/	А	800
330V A 700 460V A  IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 110V A 800 220V A 800 330V A 750				
460V A				
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series  75V A 800 110V A 800 220V A 800 330V A 750				
75V A 800 110V A 800 220V A 800 330V A 750	IFC max current le in DC1 with L/R < 1ms with 4 notes in series	T00 V		
110V A 800 220V A 800 330V A 750		75\/	Δ	800
220V A 800 330V A 750				
330V A 750				
400V A 700				
		700 V	^	700

EC 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	A	
EC 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	Α	
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	Α	800
	110V	Α	800
	220V	Α	800
	330V	Α	650
	460V	Α	
EC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	Α	800
	110V	Α	800
	220V	A	800
	330V	Α	650
	460V	Α	700
Short-time allowable current for 10s (IEC/EN60947-1)	400 V	A	5040
Protection fuse			3040
Totection tuse	aC (IEC)	۸	1000
	gG (IEC)	A	1000 630
Making canacity (DMC yelya)	aM (IEC)	A	
Making capacity (RMS value)		Α	6300
Breaking capacity at voltage	4.40\/		0000
	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
ightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	lbin	40.6
	max	lbin	40.6
ightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	min	lbin	0.74
	max	lbin	0.74
Max number of wires simultaneously connectable	Пах	Nr.	2
Conductor section		141.	<u> </u>
A\A/C\IZ amil			
AWG/Kcmil	ma:-		27 600 10001
AWG/Kcmil  Power terminal protection according to IEC/EN 60529	max		2x 600 kcmil IP00



#### Operating position

Operating position		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	2194
Conductor section				
	AWG/kcmil conductor section			
		max		2x 600 kcmil
Operations				
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data				
Performance level B1	Od according to EN/ISO 13489-1			
		rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accordi	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
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 50/60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	60
AC average coil consu	·			
	of 50/60Hz coil powered at 50Hz			
		in-rush	VA	400
		holding	VA	18
	of 50/60Hz coil powered at 60Hz			
		in-rush	VA	400
		holding	VA	18
Dissipation at holding	≤20°C 50Hz		W	18
DC coil operating				
<b>30</b> (  1(  1  1				

DC rated control voltage

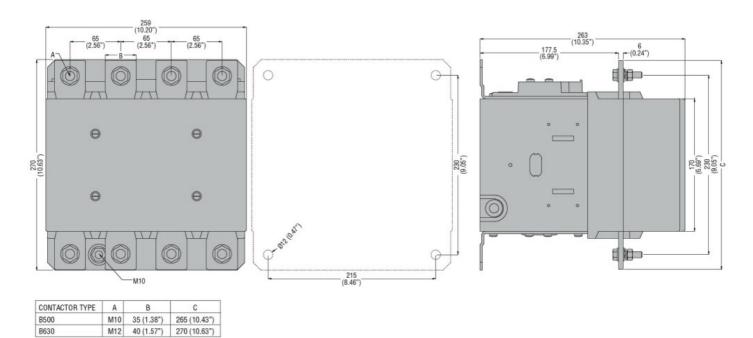




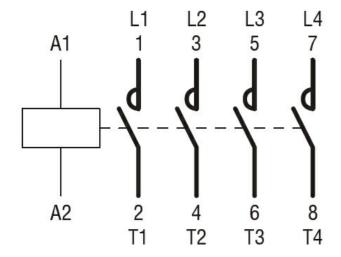
DC operating voltage   pick-up				min	V	220
Pick-up						
Pick-up	DC operating voltage					
min   min		pick-up				
Average coil consumption ≤20°C   max   %Us   60				min	%Us	80
Min				max	%Us	110
Max cycles frequency		drop-out				_
Average coil consumption ≤20°C    in-rush   W   400   holding   W   18				min		
In-rush   Modeling   W   18   Max cycles frequency   Machanical operation   Cycles/h   1200   Max cycles frequency   Machanical operation   Cycles/h   1200   Max cycles frequency   Machanical operation   Cycles/h   1200   Max cycles frequency   Max c				max	%Us	60
Max cycles frequency	Average coil consump	tion ≤20°C				
Max cycles frequency           Mechanical operation         cycles/h         1200           Operating times         In AC         Image: Closing NO         Image: Minimal						
Mechanical operating times         cycles/h         1200           Average time for Us control         in AC           Operating times         Closing NO         min         ms         110           Mechanical operation         Closing NO         min         ms         60           Max         ms         110           Max         ms         110           Max         ms         110           Max         ms         110           Max         ms         100           UL technical data         General USE           Contactor         A Current         A 800           Short-circuit protection fuse, 600V           Standard fault         Short-circuit current         KA 18           Eugerature         min         °C -50           Ambient conditions           Temperature         min         °C -50           Temperature         min         °C -50           Max altitude <td></td> <td></td> <td></td> <td>holding</td> <td>W</td> <td>18</td>				holding	W	18
Closing NO						
Average time for Us control  in AC  Closing NO  min ms 110 max ms 180 Opening NO  min ms 60 max ms 100  in DC  Closing NO  min ms 110 max ms 100  in DC  Closing NO  min ms 60 max ms 180 Opening NO  min ms 60 max ms 180 Opening NO  Min ms 60 max ms 100  UL technical data  General USE  Contactor  AC current A 800  Short-circuit protection fuse, 600V Standard fault  Short circuit current kA 18 Fuse rating A 1500 Fuse class L  Ambient conditions  Temperature  Operating temperature  Operating temperature  Min °C -50 max °C 70  Storage temperature  min °C -60 max °C 80  Max altitude  min °C -60 max °C 80  Resistance & Protection					cycles/h	1200
in AC    Closing NO		natural.				
Closing NO	Average time for Us co					
Max a littude		III AC	Closing NO			
Opening NO			Ciosing NO	min	me	110
Opening NO						
Max   Min   Min			Opening NO	IIIdX	1113	100
Closing NO			Opening 110	min	ms	60
Closing NO						
Closing NO		in DC				
Min   Min			Closing NO			
Opening NO			Ü	min	ms	110
Min   Min				max	ms	180
Max			Opening NO			
Contactor				min	ms	60
Contactor   AC current   A   800				max	ms	100
Contactor   AC current   A   800						
AC current	General USE					
Short-circuit protection fuse, 600V   Standard fault   Short circuit current   kA   18   Fuse rating   A   1500   Fuse class   L		Contactor				
Standard fault				AC current	A	800
Short circuit current   Fuse rating   Fuse rating   Fuse class   Fus	Snort-circuit protection					
Fuse rating Fuse class   L		Standard fault		Chart aireadh acarra	L.A	10
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           Resistance & Protection         Pollution degree         3				_	A	
Operating temperature	Ambient conditions			1 use ciass		
Operating temperature           min         °C         -50           max         °C         70           Storage temperature           min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection           Pollution degree         3						
min %C         -50 max           Storage temperature         min %C         -60 max           Max altitude         m         3000           Resistance & Protection         3	. 5	Operating temperature				
max         °C         70           Storage temperature         min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         3		- F		min	°C	-50
Storage temperature           min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         Storage temperature         Total color           Pollution degree         3						
min         °C         -60           max         °C         80           Max altitude         m         3000           Resistance & Protection         3           Pollution degree         3		Storage temperature		<u> </u>		
Max altitude m 3000 Resistance & Protection Pollution degree 3		•		min	°C	-60
Resistance & Protection Pollution degree 3						
Pollution degree 3	Max altitude				m	3000
	Resistance & Protection	on				
Dimensions	Pollution degree					3
	Dimensions					

**ENERGY AND AUTOMATION** 

FOUR-POLE CONTACTOR, IEC OPERATING CURRENT ITH (AC1) = 800A, AC/DC COIL, 220...240VAC/DC



#### 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