



Product designation Product type designation			Power contactor B630
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		А	800
Operational current le			
	AC-1 (≤40°C)	А	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)	0001/		400
	230V	kW	198
	400V	kW	355
	415V 440V	kW kW	368 368
	440V 500V	kW	368
	690V	kW	440
	1000V	kW	368
Rated operational power AC-1 (T≤40°C)	10001		000
	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	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	Α	
IEC max current le in DC1 with $L/R \le 1$ ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	A	
	460V	A	
IEC max current le in DC1 with $L/R \le 1$ ms with 3 poles in series		-	
	75V	A	800
	110V	A	800
	220V	A	800

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	330V	А	700
	460V	Α	
IEC max current le in DC1 with $L/R \le 1$ ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	750
	460V	А	700
IEC max current le in DC3-DC5 with L/R \leq 15ms with 1 poles in series			
	75V	А	800
	110V	А	460
	220V	А	
	330V	А	
	460V	Α	
IEC max current le in DC3-DC5 with L/R \leq 15ms with 2 poles in series			
	75V	А	800
	110V	А	800
	220V	А	700
	330V	А	
	460V	А	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	650
	460V	А	
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	75V	А	800
	110V	А	800
	220V	А	800
	330V	А	650
	460V	А	700
Short-time allowable current for 10s (IEC/EN60947-1)		А	5040
Protection fuse			
	gG (IEC)	А	1000
	aM (IEC)	А	630
Making capacity (RMS value)		А	6300
Breaking capacity at voltage			
- · ·	440V	А	6300
	500V	А	5600
	690V	А	5000
Resistance per pole (average value)		mΩ	0.14
Power dissipation per pole (average value)			
· · · · · · · · · · · ·	lth	W	90
	AC-3	W	56
Tightening torque for terminals			
	min	Nm	55
	max	Nm	55
	min	Ibin	40.6
	max	Ibin	40.6
Tightening torque for coil terminal			
	min	Nm	1
	max	Nm	1
	max		•

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		min	lbin Ibin	0.74
Max number of wires	simultaneously connectable	max	Ibin Nr.	0.74
Conductor section			INI.	2
	AWG/Kcmil			
		max		2x 600 kcmil
Power terminal prote	ction according to IEC/EN 60529			IP00
Mechanical features				
Operating position				
		normal		Vertical plan
		allowable		±30°
Fixing				Screw
Weight			g	1888
Conductor section				
	AWG/kcmil conductor section			
Operations		max		2x 600 kcmil
Mechanical life			cycles	5000000
Electrical life			cycles	700000
Safety related data			0,000	
· · · · · · · · · · · · · · · · · · ·	10d according to EN/ISO 13489-1			
	y	rated load	cycles	700000
		mechanical load	cycles	5000000
Mirror contats accord	ling to IEC/EN 609474-4-1			yes
EMC compatibility	ling to IEC/EN 609474-4-1			yes yes
EMC compatibility AC coil operating				-
EMC compatibility				yes
EMC compatibility AC coil operating		min	V	yes 380
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz	min max	V V	yes
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz			yes 380
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz	max	V	yes 380 415
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min	V %Us	yes 380 415 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max	V	yes 380 415
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz	max min max	V %Us %Us	yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out	max min max	V %Us %Us	yes 380 415 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min	V %Us %Us %Us	yes 380 415 80 110 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max	V %Us %Us %Us %Us	yes 380 415 80 110 20 60
EMC compatibility AC coil operating	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz	max min max min max min	V %Us %Us %Us %Us	yes 380 415 80 110 20 60 80
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up	max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max	V %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 20
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 80 80 80 80 80 80 80 80 8
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 20 60
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz	max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 110 80 110
EMC compatibility AC coil operating Rated AC voltage at \$	50/60Hz, 60Hz of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 60Hz coil powered at 60Hz pick-up	max min max min max min max min max min max	V %Us %Us %Us %Us %Us %Us %Us	yes 380 415 80 110 20 60 80 110 20 60 80 80 80 80 80 80 80 80 80 8

of 50/60Hz coil powered at 50Hz

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			in-rush	VA	400
			holding	VA	18
	of 50/60Hz coil powere	ed at 60Hz			
			in-rush	VA	400
			holding	VA	18
Dissipation at holding ≤	≦20°C 50Hz			W	18
DC coil operating					
DC rated control voltag	je			.,	
			min	V	380
			max	V	415
DC operating voltage					
	pick-up			0/11-	00
			min	%Us	80
			max	%Us	110
	drop-out			0/110	20
			min	%Us %Us	20
	tion <20°C		max	7005	60
Average coil consumpt	uon ≤20 C		-ا	۱۸/	400
			in-rush holding	W W	400 18
Max cycles frequency			noiding	VV	10
Max cycles frequency Mechanical operation				cycles/h	1200
Operating times				Cycles/II	1200
Average time for Us co	ontrol				
	in AC				
	III AO	Closing NO			
		Closing No	min	ms	110
			max	ms	180
		Opening NO	max	mo	100
		- F	min	ms	60
			max	ms	100
	in DC				
		Closing NO			
		0	min	ms	110
			max	ms	180
		Opening NO			
			min	ms	60
			max	ms	100
UL technical data					
General USE					
	Contactor				
			AC current	А	800
Short-circuit protection					
	Standard fault				
			Short circuit current	kA	18
			Fuse rating	А	1500
			Fuse class		L
Ambient conditions					
Temperature					
	Operating temperature)			
			min	°C	-50
	-		max	°C	70
	Storage temperature				
			min	°C	-60

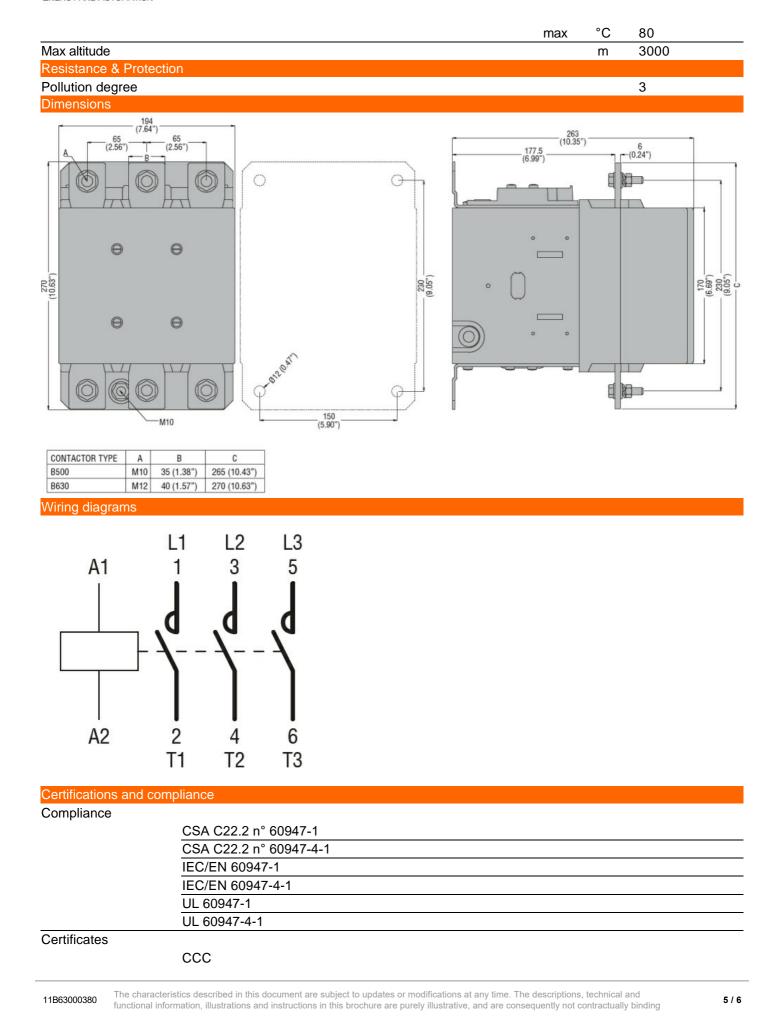
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	cULus	
	EAC	
ETIM classification		

ETIM 8.0

EC000066 -Power contactor, AC switching