

Product designation			Power contactor	
Product type designation			DPBG12	
Contact characteristics				
Number of poles			Nr.	3
Operational frequency				
			min	Hz
			max	Hz
Mechanical features				
Operating position			normal allowable	Vertical plan ±30°
Fixing			Screw / DIN rail 35mm	
Weight			g	180
Operations				
Mechanical life			cycles	20000000
Electrical life			cycles	500000
Safety related data				
Performance level B10d according to EN/ISO 13489-1				
			rated load mechanical load	cycles cycles
				500000 20000000
Mirror contats according to IEC/EN 609474-4-1			Yes	
EMC compatibility			yes	
AC coil operating				
Rated AC voltage at 50/60Hz			V	24
AC operating voltage				
of 50/60Hz coil powered at 50Hz pick-up			min	%Us
			max	%Us
drop-out				
			min	%Us
			max	%Us
of 50/60Hz coil powered at 60Hz pick-up			min	%Us
			max	%Us
drop-out				
			min	%Us
			max	%Us
AC average coil consumption at 20°C				
of 50/60Hz coil powered at 50Hz			in-rush holding	VA VA
				30 4
of 50/60Hz coil powered at 60Hz			in-rush holding	VA VA
				25 3
of 60Hz coil powered at 60Hz			in-rush holding	VA VA
				30 4
Dissipation at holding ≤20°C 50Hz			W	0.95
Max cycles frequency				
Mechanical operation			cycles/h	3600

Operating times

Average time for Us control

in AC

Closing NO

min	ms	12
max	ms	21

Opening NO

min	ms	9
max	ms	18

Closing NC

min	ms	17
max	ms	26

Opening NC

min	ms	7
max	ms	17

in DC

Closing NO

min	ms	18
max	ms	25

Opening NO

min	ms	2
max	ms	3

Closing NC

min	ms	3
max	ms	5

Opening NC

min	ms	11
max	ms	17

UL technical data

Rated operational voltage AC (UL)	V	600
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Full-load current (FLA) for three-phase AC motor

at 480V	A	11
at 600V	A	11

Locked rotor current (LRA)	A	84
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Yielded mechanical performance

for single-phase AC motor

110/120V	HP	0.5
230V	HP	1.5

for three-phase AC motor

200/208V	HP	3
220/230V	HP	3
460/480V	HP	7.5
575/600V	HP	10

General USE

Contactor

AC current	A	20
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Short-circuit protection fuse, 600V

High fault

Short circuit current	kA	100
Fuse rating	A	30
Fuse class	J	

Standard fault

Short circuit current	kA	5
Fuse rating	A	30

Contact rating of auxiliary contacts according to UL

A600 - Q600

Ambient conditions

Temperature

Operating temperature

min	°C	-50
max	°C	+70

Storage temperature

min	°C	-60
max	°C	+80

Max altitude

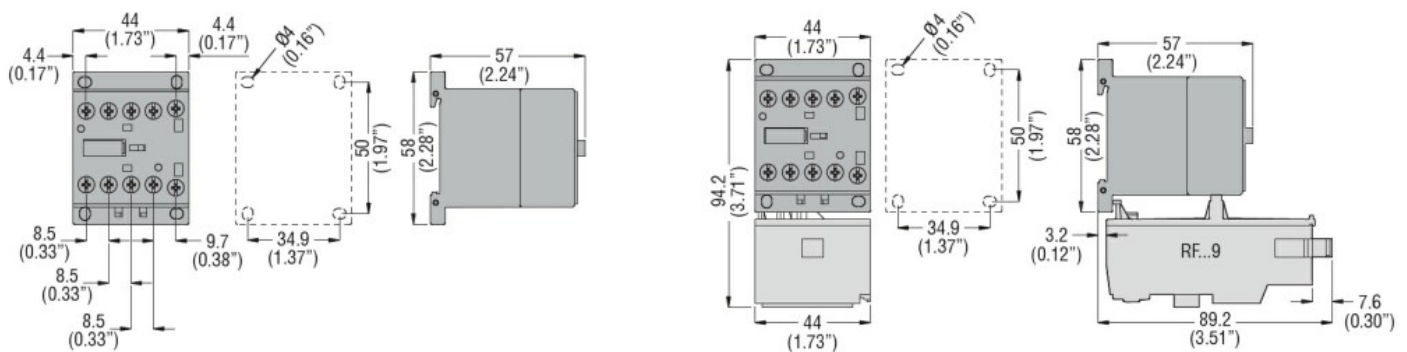
m 3000

Resistance & Protection

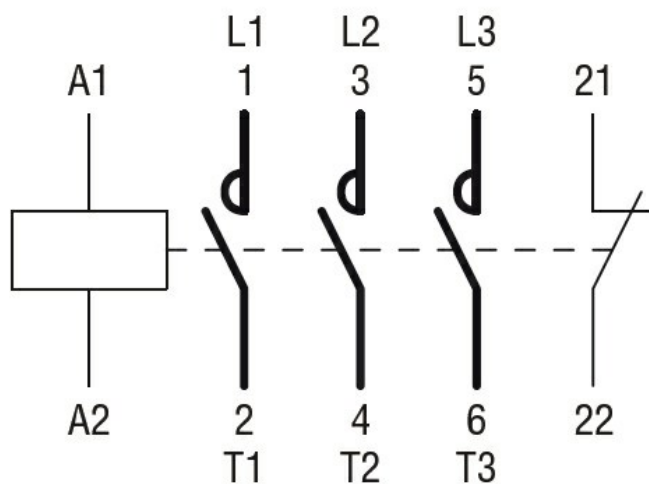
Pollution degree

3

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-76

UL 60947-1

UL 60947-4-1

Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -
Power contactor,
AC switching