

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, FLA 25A, AC COIL 50/60HZ, 24VAC, 1NC AUXILIARY CONTACT



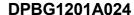
Product type designation Contact characteristics Number of poles Operational frequency Mechanical features Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	Nr. Hz Hz cycles cycles	DPBG12 3 25 400 Vertical plan ±30° Screw / DIN rail 35mm 177 20000000 500000
Number of poles Operational frequency Mechanical features Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	Hz Hz g cycles	25 400 Vertical plan ±30° Screw / DIN rail 35mm 177 20000000 500000
Operational frequency Mechanical features Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	Hz Hz g cycles	25 400 Vertical plan ±30° Screw / DIN rail 35mm 177 20000000 500000
Mechanical features Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	g cycles cycles	400 Vertical plan ±30° Screw / DIN rail 35mm 177 20000000 500000
Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	g cycles cycles	400 Vertical plan ±30° Screw / DIN rail 35mm 177 20000000 500000
Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	normal allowable	g cycles cycles	Vertical plan ±30° Screw / DIN rail 35mm 177 20000000
Operating position Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	allowable	cycles cycles	±30° Screw / DIN rail 35mm 177 20000000 500000
Fixing Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	allowable	cycles cycles	±30° Screw / DIN rail 35mm 177 20000000 500000
Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	allowable	cycles cycles	±30° Screw / DIN rail 35mm 177 20000000 500000
Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1	rated load	cycles cycles	Screw / DIN rail 35mm 177 20000000 500000
Weight Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1		cycles cycles	35mm 177 20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1		cycles cycles	20000000 500000
Operations Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1		cycles cycles	20000000 500000
Mechanical life Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1		cycles	500000
Electrical life Safety related data Performance level B10d according to EN/ISO 13489-1		cycles	500000
Safety related data Performance level B10d according to EN/ISO 13489-1			
Performance level B10d according to EN/ISO 13489-1		cycles	
		cycles	
n			500000
I.	nechanical load	cycles	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	75
	max	%Us	115
drop-out			
	min	%Us	20
 	max	%Us	55
of 50/60Hz coil powered at 60Hz			
pick-up		0/11-	00
	min	%Us	80
drap out	max	%Us	115
drop-out	min	%Us	20
	max	%Us	55
AC average coil consumption at 20°C	IIIdX	/003	JJ
of 50/60Hz coil powered at 50Hz			
01 30/001 12 0011 powered at 301 12	in-rush	VA	30
	holding	VA	4
of 50/60Hz coil powered at 60Hz	9	-, .	-





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In-nush VA 25								
OF 60Hz coil powered at 60Hz				in-rush				
in-rush VA 30 holding VA 4 Dissipation at holding ≤20°C 50Hz VB 0.95 Viax cyclos frequency VB 0.95 Viax cyclos		-		holding	VA	3		
Noted in Section 1		of 60Hz coil powered a	t 60Hz					
Dissipation at holding \$20^{\circ}\$C 50Hz W 0.95 Max cycles frequency Mechanical operation Cycles/h 3600 Max cycles frequency Mechanical operation Cycles/h 3600 Mechanical operation Mechanical operation Cycles/h 3600 Mechanical operation Mech								
Max cycles frequency Cycles/h 3600 Operating times Average time for Us control Average time for Us control min ms 12 Closing NO min ms 21 Opening NO min ms 9 max ms 18 Closing NC min ms 17 max ms 26 Opening NC min ms 17 In DC min ms 17 Closing NO min ms 15 Opening NO min ms 25 Opening NO min ms 2 Closing NC min ms 3 Opening NC min ms 3 Opening NC min ms 3 Opening NC min ms 5 Opening NC min ms 17 <td <="" colspan="2" td=""><td></td><td></td><td></td><td>holding</td><td></td><td></td></td>	<td></td> <td></td> <td></td> <td>holding</td> <td></td> <td></td>					holding		
Mechanical operation		20°C 50Hz			VV	0.95		
Closing NO					l/l-	2000		
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 26 Opening NC min ms 7 max ms 17 In DC Closing NO min ms 18 max ms 25 Opening NO min ms 25 Opening NO min ms 3 max ms 25 Opening NO min ms 25 Opening NO min ms 25 Opening NO min ms 3 max ms 3 Closing NC min ms 3 max ms 5 Opening NC min ms 18 max ms 5 Opening NC min ms 17 UL technical data Full-load current (FLA) for three-phase AC motor Full-load current (FLA) for three-phase AC motor for single-phase AC motor for three-phase AC motor To three-phase AC motor 10/120V HP 0.5	-				cycles/n	3600		
in AC Closing NO min ms 12		ntrol						
Closing NO	Average unie ioi os co							
Min		III AC	Closing NO					
Opening NO			Clocking 110	min	ms	12		
Opening NO								
Min			Opening NO					
Closing NC			, ,	min	ms	9		
Opening NC				max	ms	18		
Opening NC			Closing NC					
Opening NC				min	ms			
Min				max	ms	26		
Name			Opening NC					
In DC								
Closing NO				max	ms	17		
Min max ms		in DC	Olaska NO					
Opening NO min ms 2 max ms 3 Closing NC min ms 3 max ms 5 Closing NC min ms 3 max ms 5 Opening NC min ms 11 max ms 17 UL technical data Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 becked rotor current (LRA) A 84 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 1.5 for three-phase AC motor 200/208V HP 3 460/480V HP 7.5 575/600V HP 10 General USE Contactor AC current A 20			Closing NO	i-		4.0		
Opening NO								
Min ms 2 max ms 3 max ms 3 max ms 3 max ms 5 max ms 5 max ms 5 max ms 5 max ms 11 max ms 17 ms			Opening NO	IIIax	1115	25		
Closing NC			Opening NO	min	ms	2		
Closing NC								
Min max ms 3 max ms 5 max ms 5 max ms 5 max ms 5 max ms 11 max ms 11 max ms 17 max ms 18 max m			Closina NC					
Opening NC			J 11 9 1	min	ms	3		
Min max ms 11 max ms 17				max				
Max			Opening NC					
Sull-load current (FLA) for three-phase AC motor				min	ms	11		
Full-load current (FLA) for three-phase AC motor at 480V A 11 at 600V A 11 Locked rotor current (LRA) A 84 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				max	ms	17		
at 480V A 11 Locked rotor current (LRA) A 84 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								
At 600V A 11	Full-load current (FLA)	for three-phase AC mot	or					
Locked rotor current (LRA)								
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	Looked material and the	DA)		at 600V				
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		•			Α	84		
110/120V	rielded mechanical pel		-4					
230V HP 1.5		ioi single-phase AC m	UiUI	110/1201/	ШD	0.5		
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								
200/208V		for three-phase ΔC mo	tor	230 V	111	1.5		
220/230V		ioi unos priase Ao IIIo		200/208\/	HP	3		
460/480V HP 7.5 7.5								
575/600V HP 10								
General USE Contactor AC current A 20								
AC current A 20	General USE							
		Contactor						
Short-circuit protection fuse, 600V				AC current	<u>A</u>	20		
	Short-circuit protection	fuse, 600V						

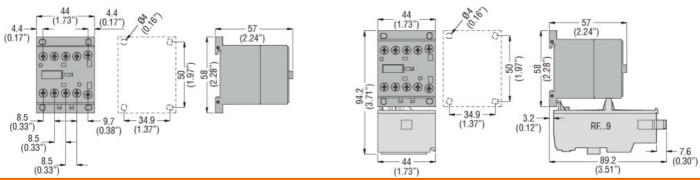




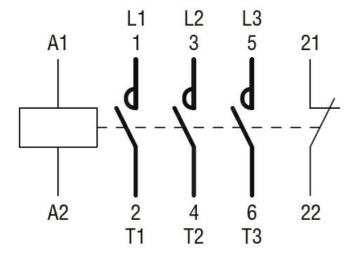
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High fault			
5	Short circuit current	kA	100
	Fuse rating	Α	30
	Fuse class		J
Standard fault			
	Short circuit current	kA	5
	Fuse rating	Α	30
	Fuse class		RK5
Contact rating of auxiliary contacts according to UL			A600 - Q600
Ambient conditions			
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			
44 44	44 6 6 6		



Wiring diagrams



Certifications and compliance

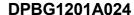
Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-70

UL 60947-1

UL 60947-4-1





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Certificates

cULus

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching